ADDENDUM NO. 03

May 5, 2022

LOPER ELEMENTARY SCHOOL RENOVATION

901 Loper Drive
Shelbyville, IN 46176

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated April 6, 2022, by Lancer+Beebe, LLC. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 3-1 through ADD 3-2 and attached Lancer+Beebe. LLC, Addendum No. 3 dated May 4, 2022, consisting of 5 pages, Specification Sections 22 42 00 – Plumbing Fixtures and Trim, 27 15 00 – Security System, and Drawing Sheets: G000, A720, A751, HD101A, HP101A, H-501, H-502, P-101A, ED101A, ED101B, ED101C, EP101A, ET101A, ET101B, ET101C, and E-502

A. SPECIFICATION SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03 Bid Categories

A. Bid Category No. 1 – General Trades

Revise the following Project Specific Clarification

3. The General Trades Contractor is to mow the grass and maintain the weeds within the project limits for the duration of the project. The project limit is defined as within and immediately adjacent to any temporary construction fence or stone laydown area.
5. The General Trades Contractor shall daylight (hydro-vacuum excavation) all existing utilities to confirm depths, sizes, and locations prior to starting any excavation work required to complete this Bid Category's Scope of Work.

Add the following Project Specific Clarifications

16. The General Trades Contractor is NOT responsible for selective demolition of flooring products such as carpet, sheet flooring, etc. that is installed over top of asbestos material. These flooring products are to be removed as part of the asbestos abatement procedure by separate Contract.
17. The General Trades Contractor is to provide and install all Work related to the Media Circulation Desk, with exception of wall base, paint, electrical, and technology. This Work includes but is not limited to wall framing, gypsum board assemblies, wood blocking and sheathing, plastic laminate, solid surface countertop, angle brackets, drawer assemblies and accessories, etc. Contractor to review drawings A101A, A112, A763, and A766 for reference.

F. Bid Category No. 6 – Casework

Add the following Project Specific Clarification

3. The General Trades Contractor is to provide and install all Work related to the Media Circulation Desk, with exception of wall base, paint, electrical, and technology. This Work includes but is not limited to wall framing, gypsum board assemblies, wood blocking and sheathing, plastic laminate, solid surface countertop, angle brackets, drawer assemblies and accessories, etc. Contractor to review drawings A101A, A112, A763, and A766 for reference.

G. Bid Category No. 7 – Plumbing & Mechanical

Add the following Project Specific Clarification

5. The Plumbing & Mechanical Contractor shall daylight (hydro-vacuum excavation) all existing utilities to confirm depths, sizes, and locations prior to starting any excavation work required to complete this Bid Category's Scope of Work.

H. Bid Category No. 8 – Electrical & Technology

Add the following Project Specific Clarification

3. The Electrical & Technology Contractor shall daylight (hydro-vacuum excavation) all existing utilities to confirm depths, sizes, and locations prior to starting any excavation work required to complete this Bid Category's Scope of Work.

LANCER + BEEBE, LLC
Project # 21140

ADDENDUM NO. THREE

PROJECT: Shelbyville Central Schools – 2022 Loper Elementary Renovation

PROJECT NUMBER: 21140

DATE OF ADDENDUM: May 4, 2022

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGMENT SECTION OF THE BID FORM.

QUESTIONS:

Q: Rest rooms G2,4 G12,13 G26,27 the finish key calls for PT-1
Please verify the wall tile is limited to the common wall between
The rest rooms shown on elevations 4,5,6 on sheet A751

A: The wall tile in the restrooms is limited to just the wall with the sink, as shown in the elevations. The remaining walls will receive PT-1.

Q: Can the architect clarify the countertop finishes over the standard casework. Are solid surface tops only required at sinks? Section details show all tops as solid surface. Also in section 123216 only solid surface tops are specified.

A: Yes, solid surface countertops are only being placed where sinks are located. Refer to General Casework Note 9.

LANCER + BEEBE, LLC
Project # 21140

Q: Does Selective demolition include demolition of the existing flooring And adhesive?

A: Yes

Q: Is the Review of the floor slab mitigation is limited to testing the slab For the current moisture levels.

A: No. Moisture mitigation and testing should be included at all locations. See allowance for moisture mitigation.

Q: Sheet A002 shows both ceiling types as tegular tile, whereas the specs call out square edge tiles. Please confirm which is correct.

A: Tegular is correct.

Q: Spec section 095100 Acoustical Ceilings – Spec section calls for 10% attic stock for ceiling tiles. 2% is more typical. Please confirm which is correct.

A: 10% is desired.

Q: Spec section 095100, Section 2.3 – Please confirm that batt insulation and gypsum board are not a part of this spec section or Bid category No. 5.

A: Bid Category No. 5 – Acoustic Treatments and Ceilings is responsible for all products and accessories required to provide the complete system as required in this specification section.

Q: Spec section 095100, Section 1.6 – Please confirm what the seismic design category of the building will be.

A: The seismic design category is C.

SPECIFICATIONS:

1. None

LANCER + BEEBE, LLC
Project # 21140

DRAWINGS:

1. Drawing Sheet Number: G000
   Drawing Sheet Title: Cover
   Change:
   - Removed sheets S100 and A141 from sheet index
2. Drawing Sheet Number: A720
   Drawing Sheet Title: Interior Finish Legend
   Change:

   - Adjusted WT-1 and WT-2, and removed WT-3

3. Drawing Sheet Number: A751
   Drawing Sheet Title: Interior Elevations
   Change:

   - Adjusted Elevations 4, 5, 6, and 7 with new tile sizes

4. Drawing Sheet Number: P-101A
   Drawing Sheet Title: First Floor Plumbing Plan – Unit A
   Change:

   - Added EWC-L1 and EWC-L2

   Attachments:

   Mech and Elec Addendum Three Attachment

   Plumbing Addendum Three Attachment

   END OF ADDENDUM NO. THREE

CIRCLE DESIGN GROUP

ADDENDUM NUMBER: 3

PROJECT NAME: Loper Elementary School

PROJECT NO.: 21102.B

ISSUED FROM	ISSUE DATE	BID DATE
Circle Design Group	May 03, 2022	05/11/2022

This Addendum No. 3 to the drawings and specification shall supplement, amend, and become a part of the bidding documents, plans, and specifications. All bids and construction contracts shall be based on these modifications to the original contract documents.

PART 1. BIDDING AND CONTRACT DOCUMENTS

1.01

PART 2. SPECIFICATIONS

2.01 Section 23 34 00 HVAC Fans
- A. ADD Twin City to the list of acceptable manufacturers.
- B. ADD ACME to the list of acceptable manufacturers.

2.02 Section 23 82 19 Fan and Coil Units
- A. ADD Nailor to the list of acceptable manufacturers.

2.03 Section 23 82 39 Terminal Heating Units
- A. ADD Sterling to the list of acceptable manufacturers for HEATING WATER RADIANT CEILING PANELS and CONVECTORS.
- B. ADD Price to the list of acceptable manufacturers for HEATING WATER RADIANT CEILING PANELS and CONVECTORS.

2.04 Section 27 15 00 SECURITY SYSTEM
- A. Delete section in total. No security system work by contractor.

PART 3. DRAWINGS

3.01 P-101A – FIRST FLOOR PLUMBING PLAN – UNIT A
- A. Revise water coolers in corridor F20

3.02 H-501 – HVAC SCHEDULES
- A. Revise Pump Schedule.
- B. Revise Hydronic Unit Heater Schedule.

3.03 H-502 – HVAC SCHEDULES
- A. Revise Ductless Split Air Conditioner Schedule. Change CFM to correct value.

3.04 HD101A – HVAC DEMO PLAN – UNIT A
- A. Demo existing Circuit Setters.
- B. Revise Sheet Plan Note #13.

3.05 HP101A – FIRST FLOOR HVAC PIPING PLAN – UNIT A
- A. Add HUH-G46 and associated thermostat.
- B. Add new Circuit Setters.
- C. Add Plan Note #11.
- D. Add Plan Note #12.
- E. Add Plan Note #13.

3.06 E-502 – Electrical Schedules

address
9229 Delegates Row, Suite 150
Indianapolis, IN 46240

phone
317.781.6200

A. Motorized equipment schedule updated for CWP sizes

3.07 EP101A- First Floor Power Plan – Unit A
- A. Plan note 1 added for mechanical equipment HUH-G46
- B. Plan note 29 added for CWP circuitry

3.08 ED101A – First Floor Demo Plan – Unit A
- A. Shading updated for existing to remain data outlets.
- B. Plan note 14 added for CWP circuitry

3.09 ET101A – First Floor Technology Plan – Unit A
- A. Added existing WAP locations.
- B. Updated plan note G to call out number of data cables from data outlets.
- C. Added note calling out MDF room.
- D. Added data for scoreboards.

3.010 ET101B – First Floor Technology Plan – Unit B
- A. Added existing WAP locations.
- B. Updated plan note G to call out number of data cables from data outlets.
- C. Added note calling out IDF room.

3.011 ET101C – First Floor Technology Plan – Unit C
- A. Added existing WAP locations

ATTACHMENTS

Specifications:
Drawings: H-501, HD101A, HP101A, E-502,EP101A,ED101A, ET101A, ET101B, ET101C

END OF ADDENDUM

1.01 22 42 00 PLUMBING FIXTURES AND TRIM

A. Delete paragraph 2.10 ELECTRIC WATER COOLER/BOTTLE FILLERS (BI-LEVEL), in its entirety and replace with the following:

2.10 ELECTRIC WATER COOLER/BOTTLE FILLER (WALL MOUNTED):

A. A. Electric Water Cooler / Bottle Filler (EWC-L2): ADA compliant, 34" to centerline of bubbler, Oasis PG8EBQ-SS, modular, wall mounted, 34" to spout, UL labeled, front and side push pads, barrier-free self-contained electric water cooler with one piece stainless steel top, and stainless steel cabinet, flexible bubbler guards, hands free bottle filler with programmable shut-off timer, integrated bottle counter and filter monitor.

1. Unit to have steel mounting frame, nonferrous waterways, built-in pressure regulator, automatically operated permanently lubricated air-cooled hermetically sealed cooling unit with freeze-up protection, and adjustable temperature control.
2. Electrical rating: 115 VAC, provide cord and plug.
3. Minimum cooling capacity 8.0 GPH (80 degrees entering to 50 degrees drinking at 90 degrees ambient).
4. Chrome plated straightway stop with supply tubing chrome plated nipples and escutcheons.
5. Provide 17-gauge adjustable P-trap with cleanout plug with escutcheon.
6. Adjustable two-piece chrome plated cast-brass P-trap with cleanout with escutcheon.
7. Chicago Faucet 1017-CP supply pipes with loose key stops, lock shield caps, wall flanges, and flexible tube risers.

SECTION 27 15 00

SECURITY SYSTEM

PART 1 - GENERAL

1.01 Delete section in total per Addendum 3.

SHELBYVILLE CENTRAL SCHOOLS
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SHELBYVILLE, IN 46176
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www.scs.shelbycs.org
OWNER

LANCER+BEEBE, LLC
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ARCHITECT

CIRCLE DESIGN GROUP
9229 Delegates Row, Ste 150
Indianapolis, IN 46240
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www.circledesigngroup.com
CIVIL, MECH, ELEC, PLUMB ENGINEER

THE SKILLMAN CORPORATION
3834 S Emerson Ave
Indianapolis, IN 46203
Telephone: 317.783.6151

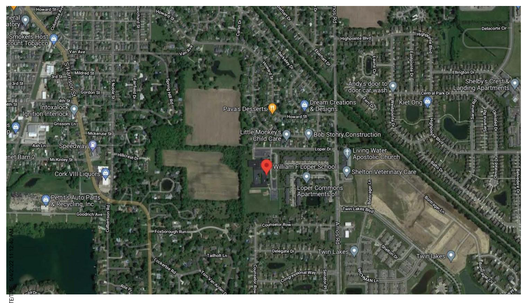
www.skillman.com
CONSTRUCTION MANAGER

ARSEE ENGINEERS, INC.
9715 Kincaid Dr, Ste 100
Fishers, IN 46037
Telephone: 317.594.5152

www.arsee-engineers.com
STRUCTURAL ENGINEER

SHELBYVILLE CENTRAL SCHOOLS
LOPER ELEMENTARY SCHOOL RENOVATIONS

100% CONSTRUCTION DOCUMENTS
04.06.2022



PLOT DATE:

PROJECT LOCATION: 901 LOPER DRIVE
SHELBYVILLE, IN 46176

BOARD OF SCHOOL TRUSTEES

PRESIDENT:	CURT JOHNSON
VICE PRESIDENT:	JOHN C. DEPREZ, IV
SECRETARY:	DR. JAMES REES
BOARD MEMBER:	DAVID M. FINKEL
BOARD MEMBER:	TROY MERRICK
BOARD MEMBER:	MICHAEL TURNER
BOARD MEMBER:	MIKE WARBLE
SUPERINTENDENT:	MARY HARPER
DIRECTOR OF FACILITIES:	KATHLEEN MILTZ
PRINCIPAL:	MR. HARPRING
ASSISTANT PRINCIPAL:	MRS. O'CONNOR

OWNER DIRECTORY

Loper
ELEMENTARY SCHOOL

SHEET INDEX

SHEET INDEX

LANCER+BEEBE, LLC
ARCHITECTURE | PLANNING | INTERIORS
220 N. COLLEGE AVE
INDIANAPOLIS, IN 46202

SHELBYVILLE CENTRAL SCHOOLS
LOPER ELEMENTARY SCHOOL RENOVATIONS
901 LOPER DRIVE
SHELBYVILLE, IN 46176

REVISIONS:

#	DATE	DESC.

100% CONSTRUCTION DOCUMENTS

PROJECT: #21140
DATE: 04.06.2022
DRAWN BY: Author

COVER

G000

FINISH LEGEND

NOTES

ETR EXISTING TO REMAIN

FLOOR COVERING

CARPET TILE

CPT-1: MFG: INTERFACE
TYPE: 50CM X 50CM CARPET TILE
PATTERN: HUMAN CONNECTIONS, FLAGSTONE
COLOR: 105578 FLINT
INSTALL: QUARTER TURN REF. PLAN FOR PATTERN
LOCATION: PRIMARY CPT

CPT-2: MFG: INTERFACE
TYPE: 50CM X 50CM CARPET TILE
PATTERN: HUMAN CONNECTIONS, KERBSTONE
COLOR: 105574 FLINT
INSTALL: QUARTER TURN REF. PLAN FOR PATTERN
LOCATION: ACCENT

CPT-3: MFG: INTERFACE
TYPE: 50CM X 50CM CARPET TILE
PATTERN: HUMAN CONNECTIONS, SETT IN STONE
COLOR: 105570 FLINT
INSTALL: QUARTER TURN REF. PLAN FOR PATTERN
LOCATION: ACCENT

CPT-4: MFG: INTERFACE
TYPE: 50CM X 50CM CARPET TILE
PATTERN: HUMAN CONNECTIONS, MOSS IN STONE
COLOR: 105566 FLINT EDGE
INSTALL: QUARTER TURN REF. PLAN FOR PATTERN
LOCATION: LIBRARY

CPT-5: MFG: INTERFACE
TYPE: 50CM X 50CM CARPET TILE
PATTERN: HUMAN CONNECTIONS, MOSS
COLOR: 105562 FLINT/MOSS
INSTALL: QUARTER TURN REF. PLAN FOR PATTERN
LOCATION: LIBRARY

CPT-6: MFG: INTERFACE
TYPE: CUSTOM BROADLOOM
PATTERN: HUMAN CONNECTIONS, FLAGSTONE
COLOR: 105578 FLINT
INSTALL: PROVIDE CUSTOM BROADLOOM WITH SPECIFIED PATTERN AND COLOR WHERE REQUIRED AT STAIR TREAD & RISER- "UNBACKED 2 METER WIDE AT STAIRS". PROVIDE CARPET TILE AND MATCH UP WITH BROADLOOM AT OTHER LOCATIONS
LOCATION: MUSIC

WOM-1: MFG: INTERFACE
TYPE: 50CM X 50CM WALK-OFF CARPET
PATTERN: STEP REPEAT, SR899
COLOR: 104940 IRON
INSTALL: QUARTER TURN
LOCATION: VESTIBULES

RESILIENT FLOOR

LVT-1: MFG: INTERFACE
TYPE: 50CM X 50CM LUXURY VINYL TILE
PATTERN: A003 TEXTURED STONES
COLOR: A00309 MEDIUM CONCRETE
INSTALL: MONOLITHIC
LOCATION: PRIMARY LVT

LVT-2: MFG: INTERFACE
TYPE: 25CM X 1M LUXURY VINYL PLANK
PATTERN: A007 STUDO SET
COLOR: A00702 PEWTER
INSTALL: ASHLAR
LOCATION: CORRIDORS + CAFETERIA

LVT-3: MFG: INTERFACE
TYPE: 25CM X 1M LUXURY VINYL PLANK
PATTERN: A007 STUDO SET
COLOR: A00721 ELECTRIC BLUE
INSTALL: ASHLAR
LOCATION: CORRIDORS + CAFETERIA

LVT-4: MFG: INTERFACE
TYPE: 25CM X 1M LUXURY VINYL PLANK
PATTERN: A007 STUDO SET
COLOR: A00716 ORANGE
INSTALL: ASHLAR
LOCATION: CORRIDORS + CAFETERIA

EPX-1: MFG: SHERWIN WILLIAMS GENERAL POLYMERS
TYPE: DECO FLAKE MOSAIC EPOXY
COLOR: 1/8" FLAKES, CRESCENT MOON
INSTALL: 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: RESTROOMS, STORAGE

RS-1: MFG: SHERWIN WILLIAMS GENERAL POLYMERS
TYPE: FASTOP MULTI TOPFLOOR SL45 AT 1/4" NOMINAL WITH 40-60 MESH DRY SILICA SAND BROADCAST TO REJECTION
COLOR: #53 CHARCOAL, FASTOP T100 TOPCOAT AT 10-15 MILS DFT
INSTALL: 4" INTEGRAL COVE BASE REF. SPECS
LOCATION: KITCHEN

2

WALL BASE

RUBBER BASE

RB-1: MFG: JOHNSONITE
TYPE: 4" VINYL WALL BASE
COLOR: 63 BURNT UMBER
LOCATION: STANDARD

EPOXY/RESINOUS BASE

EB-1: MFG: SHERWIN WILLIAMS GENERAL POLYMERS
TYPE: 4" DECORATIVE MOSAIC EPOXY WALL BASE
COLOR: 1/8" FLAKES, CRESCENT MOON
INSTALL: INTEGRAL BASE, REF. SPECS
LOCATION: RESTROOMS, STORAGE CLOSETS

RSB-1: MFG: SHERWIN WILLIAMS GENERAL POLYMERS
TYPE: 4" INTEGRAL FASTOP WALL BASE, REF RS-1 AND SPECS
COLOR: #53 CHARCOAL
INSTALL: INTEGRAL BASE, REF. SPECS
LOCATION: KITCHEN

2

PAINT/WALL FINISH

PAINT

PT-1: MFG: SHERWIN WILLIAMS
TYPE: REF. SPECS
COLOR: SW7570 EGRET WHITE
LOCATION: STANDARD

PT-2: MFG: SHERWIN WILLIAMS
TYPE: REF. SPECS, EGGSHELL FINISH
COLOR: SW7069 IRON ORE
LOCATION: ACCENT, HM DOOR AND WINDOW FRAMES

PT-3: MFG: SHERWIN WILLIAMS
TYPE: REF. SPECS, EGGSHELL FINISH
COLOR: SW 6797 JAY BLUE
LOCATION: ACCENT

PT-4: MFG: SHERWIN WILLIAMS
TYPE: REF. SPECS, EGGSHELL FINISH
COLOR: SW6718 OVERT GREEN
LOCATION: ACCENT

PT-5: MFG: SHERWIN WILLIAMS
TYPE: REF. SPECS, EGGSHELL FINISH
COLOR: SW6677 GOLDENROD
LOCATION: ACCENT

WALL TILE

WT-1: MFG: CROSSVILLE TILE
TYPE: 3"X12" GLAZED CERAMIC WALL TILE
PATTERN: SWATCHES
COLOR: COTTON, GLOSS
INSTALL: VARIES, REF. ELEVATIONS
REMARKS: AT RESTROOM WALL LOCATIONS, USE EB-1. BEGIN WT-1 AT 4" AFF. AT WATER FOUNTAIN LOCATIONS, OMIT EB-1 AND USE SCHLUTER DILEX-AHKA AT FINISHED FLOOR

WT-2: MFG: CROSSVILLE TILE
TYPE: 3"X12" GLAZED CERAMIC WALL TILE
PATTERN: SWATCHES
COLOR: SHADOW, GLOSS
INSTALL: VARIES, REF. ELEVATIONS

WT-3: NOT USED

3

PLASTIC LAMINATE/SOLID SURFACE

PLASTIC LAMINATE

PL-1: MFG: FORMICA
TYPE: PLASTIC LAMINATE
COLOR: 05794-NG BEIGE ELM (NATURAL GRAIN FINISH)
INSTALL: MONOLITHIC, HORIZONTAL GRAIN

PL-2: MFG: FORMICA
TYPE: PLASTIC LAMINATE
COLOR: 6698-46 PALOMA POLAR (MATTE FINISH)
INSTALL: MONOLITHIC

SOLID SURFACE

SS-1: MFG: FORMICA
TYPE: 1/2" SOLID SURFACE
COLOR: 758 BIANCO MINERAL
INSTALL: MONOLITHIC
REMARKS: SOLID SURFACE COUNTER TO GO WHERE SINKS ARE LOCATED

MISCELLANEOUS

ACOUSTIC PANELS

AP-1 MFG: MDC ZINTRA
TYPE: ZINTRA 1/2" WALL SHEETS
SHAPE: 4'X9' SHEETS, CUT TO SHAPE AND SIZE. REF ELEVATIONS
COLOR: PEBBLE
LOCATION: CAFETERIA
REMARKS: DIRECT GLUE DOWN. REF SPECS

AP-2 MFG: MDC ZINTRA
TYPE: ZINTRA 1/2" WALL SHEETS
SHAPE: 4'X9' SHEETS, CUT TO SHAPE AND SIZE. REF ELEVATIONS
COLOR: FOSSIL
LOCATION: CAFETERIA
REMARKS: DIRECT GLUE DOWN. REF SPECS

AP-3 MFG: MDC ZINTRA
TYPE: ZINTRA 1/2" WALL SHEETS
SHAPE: 4'X9' SHEETS, CUT TO SHAPE AND SIZE. REF ELEVATIONS
COLOR: SLATE
LOCATION: CAFETERIA
REMARKS: DIRECT GLUE DOWN. REF SPECS

AP-4 MFG: MDC ZINTRA
TYPE: ZINTRA 1/2" WALL SHEETS
SHAPE: 4'X9' SHEETS
COLOR: DIGITAL PRINT, DESIGNER TO APPROVE FINAL DESIGN
LOCATION: CAFETERIA
REMARKS: DIRECT GLUE DOWN. REF SPECS

2

CORNER GUARDS

CG-1: MFG: ACROVYN
TYPE: VA SERIES - FULL HEIGHT CORNER GUARD
COLOR: TO MATCH PT-1, DESIGNER TO APPROVE
LOCATION: PROVIDE AT ALL EXTERIOR DRYWALL CORNERS

WALL PROTECTION

WP-1: MFG: ACROVYN
TYPE: 4'H WALL COVERING
COLOR: TO MATCH PT-1, DESIGNER TO APPROVE, SUEDE TEXTURE
INSTALL: KINDERGARTEN RESTROOMS
REMARKS: USE TRIM PIECES AS REQUIRED BY MANUFACTURER

LANCER + BEEBE, LLC
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901 LOPER DRIVE
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REVISIONS:

#	Date	Desc.

100% CONSTRUCTION DOCUMENTS

PROJECT: #21140
DATE: 04.06.2022
DRAWN BY: Author

INTERIOR FINISH LEGEND

N
TRUE NORTH

A720

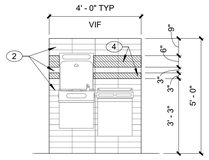
PLOT DATE/TIME:5/4/2022 11:12:46 AM

GENERAL NOTES

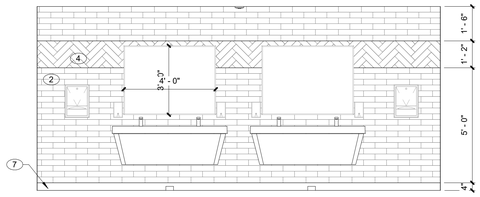
1. PROVIDE SCHLUTER TRIM WHERE TILE MEETS DISSIMILAR MATERIALS
2. DO NOT INSTALL GYPSUM BOARD BEHIND BACKER BOARD WHERE TILE FINISH IS INDICATED
3. VERIFY ALL WATER FOUNTAIN LOCATIONS IN FEILD

ELEVATION NOTES - INTERIOR

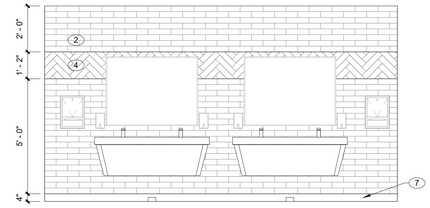
1. ACOUSTICAL PANELS (AP-1). REF FINISH LEGEND
2. WALL TILE 1 (WT-1). REF FINISH LEGEND
3. UPPER CABINETS ABOVE CUBBIES AS ALTERNATE.
4. WALL TILE 2 (WT-2). REF FINISH LEGEND
5. ACOUSTICAL PANELS (AP-2). REF FINISH LEGEND
6. ACOUSTICAL PANELS (AP-3). REF FINISH LEGEND
7. 4" EPOXY BASE (EB-1). USE SCHLUTER JOLLY WHERE TILE AND EPOXY BASE MEET. REF FINISH LEGEND
8. NOT USED
9. HEAVY DUTY SHELVING WITH ADJUSTABLE BRACKETS ON TRACK SYSTEM. REF SPECS.
10. ACOUSTICAL PANELS (AP-4). REF FINISH LEGEND
11. WATERFALL SOLID SURFACE SS-1. REF FINISH LEGEND.
12. PROVIDE ACCENT PAINT (PT-2) AND RB-1 AT THIS LOCATION. REF FINISH LEGEND.
13. PROVIDE PL-1 AT THIS LOCATION. REF FINISH LEGEND.



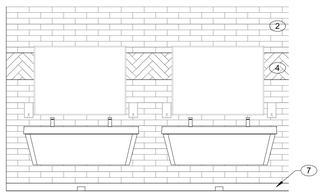
7 TYP. WATER FOUNTAIN ELEVATION
SCALE: 3/8" = 1'-0" REF. 1 / A101A



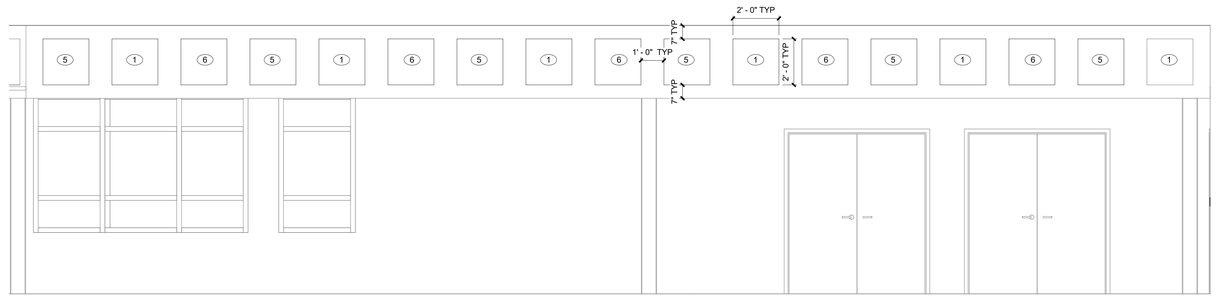
6 G26 & G27 RESTROOM ELEVATION
SCALE: 3/8" = 1'-0" REF. 1 / A101A



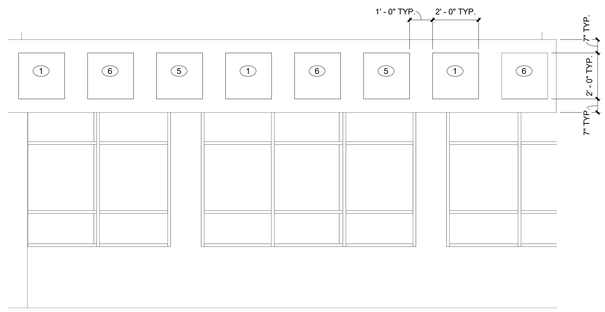
5 G12 & G13 RESTROOM ELEVATION
SCALE: 3/8" = 1'-0" REF. 1 / A101A



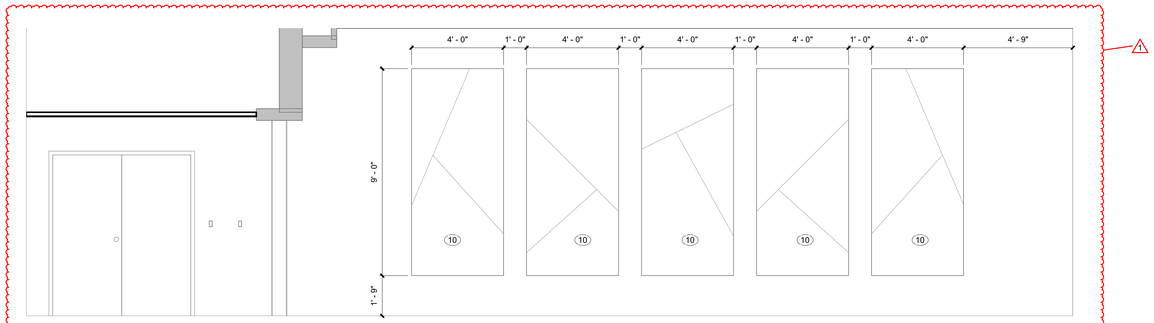
4 G2 & G4 RESTROOM ELEVATION
SCALE: 3/8" = 1'-0" REF. 1 / A101B



3 CAFETERIA ELEVATION - SOUTH
SCALE: 3/8" = 1'-0" REF. 1 / A101A



2 CAFETERIA ELEVATION - SOUTHEAST
SCALE: 3/8" = 1'-0" REF. 1 / A101A



1 CAFETERIA ELEVATION - WEST
SCALE: 3/8" = 1'-0" REF. 1 / A101A

LANCER + BEEBE, LLC
ARCHITECTURE | PLANNING | INTERIORS
220 N. COLLEGE AVE
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SHELBYVILLE CENTRAL SCHOOLS
LOPER ELEMENTARY SCHOOL RENOVATIONS
901 LOPER DRIVE
SHELBYVILLE, IN 46176

REVISIONS:

#	Date	Desc.
1	4.20.2022	Revision 1
3	5.4.2022	Revision 3

100% CONSTRUCTION DOCUMENTS

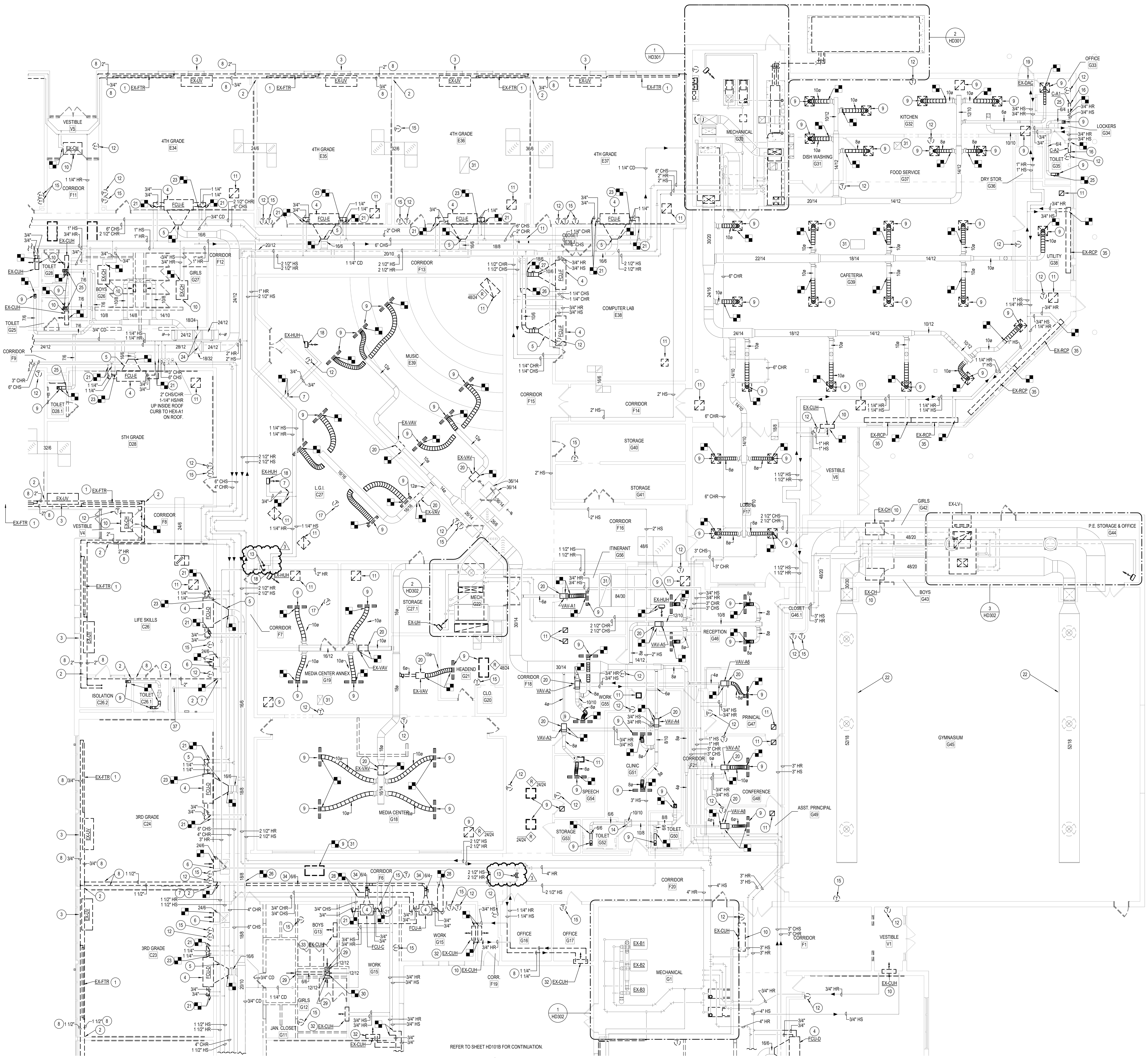
PROJECT:	#21140
DATE:	04.06.2022
DRAWN BY:	Author

INTERIOR ELEVATIONS

N
TRUE NORTH

A751

PLOT DATE/TIME:5/4/2022 11:12:40 AM



1 FIRST FLOOR HVAC DEMO PLAN - UNIT A

1/8" = 1'-0"

MECHANICAL DEMO GENERAL NOTES:

A. REFERENCE SHEET M-000 FOR MECHANICAL SYMBOLS, LEGENDS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. DRAWING INFORMATION SHOW FROM EXISTING PROJECT INFORMATION.

SHEET DEMO PLAN NOTES

1 REMOVE WALL FIN TUBE RADIATION AND ALL HEATING HOT WATER PIPING LOCATED BEHIND UNIT VENT AND CASEWORK COMPLETE.
2 REMAINING WALL OPENINGS SHALL BE PATCHED BY OTHERS.
3 DISCONNECT AND REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR COMPLETE. EXISTING EXTERIOR LOUVER TO REMAIN, CONFIRM LOUVER IS SEALED WEATHER TIGHT AND INSULATED WITHIN WALL CAVITY. PROVIDE 2" INSULATED PANEL ON INTERIOR WALL OPENING WITH PAINTED SHEETMETAL SEALED TIGHT TO WALL. PAINT SHEETMETAL TO MATCH INTERIOR PAINT COLOR. COORDINATE WITH DIV. 26 FOR POWER CIRCUIT DISCONNECT WORK.
4 REMOVE EXPOSED CEILING MOUNTED FAN COIL UNIT COMPLETE. COORDINATE WITH DIV. 26 FOR POWER CIRCUIT DISCONNECT WORK. DISCONNECT FROM HEATING AND CHILLED WATER RUNOUTS MAKE READY FOR NEW UNIT INSTALLATION.
5 REMOVE FRESH AIR DUCTWORK TRANSITION FROM BACK INLET CONNECTION OF FCU. MAKE READY EXISTING 16X6 DUCT FOR NEW WORK.
6 REMOVE WALL MOUNTED TRANSFER GRILLE FROM JUMPER DUCT. JUMPER DUCT SHALL REMAIN, AND WILL BE LOCATED ABOVE NEW CLASSROOM CEILING.
7 REMOVE HS/HR PIPING AS SHOWN BACK TO LOCATION SHOWN AND CAP OFF.
8 REMOVE PIPING SHOWN DASHED COMPLETE.
9 REMOVE DIFFUSER, REGISTER, GRILLE FROM CEILING, AND MAKE READY EXISTING DUCTWORK FOR NEW CONNECTION WHERE CONNECTED TO DUCTWORK.
10 REMOVE CABINET UNIT HEATER AND MAKE READY EXISTING OPENING IN WALL/CEILING FOR NEW CUH REPLACEMENT UNIT.
11 REMOVE TRANSFER GRILLE FROM CEILING COMPLETE.
12 REMOVE EXISTING WALL STAT, CONTROL WIRING, PNEUMATIC LINES COMPLETE. RE-USE LOCATION AND PATHWAY FOR NEW WALL STAT AND CONTROL WIRING ROUTING AS POSSIBLE. REWORK ANY LOCATIONS WHERE REQUIRED AND COORDINATE WALL PATCHING WITH GENERAL TRADES.
13 DISCONNECT AND REMOVE EXISTING CIRCUIT SETTER. PREPARE AND PROTECT PIPE OPENINGS FOR INSTALLATION OF NEW CIRCUIT SETTER. (3)
14 REMOVE EXISTING ROOF MOUNTED EXHAUST FAN FROM EXISTING CURB. READY CURB FOR NEW FAN AND PROVIDE ADAPT-A-CURB AS REQUIRED. COORDINATE WITH DIV. 26.
15 REMOVE EXISTING WALL STAT COMPLETE. PATCH REMAINING WALL OPENING TO MATCH ADJACENT WALL.
16 REMOVE EXISTING WALL MOUNTED CONVECTOR UNIT BACK TO PIPING LOCATED ABOVE CEILING.
17 REMOVE EXISTING STAT LOCATED ABOVE CEILING MOUNTED ON JOIST, AND ASSOCIATED CONTROL WIRING, PNEUMATIC LINES COMPLETE.
18 REMOVE EXISTING HUH LOCATED ABOVE CEILING IN PLENUM COMPLETE. COORDINATE WITH DIV. 26.
19 EXISTING DOOR AIR CURTAIN TO REMAIN.
20 DISCONNECT AND REMOVE VAV BOX WITH HYDRONIC COIL. MAKE READY EXISTING DUCTWORK AND HS/HR PIPING FOR NEW BOX INSTALLATION.
21 REMOVE EXISTING HOT WATER SUPPLY AND RETURN PIPING AND CHILLED WATER SUPPLY AND RETURN PIPING BACK TO 6" AWAY FROM WALL. PREPARE AND PROTECT REMAINING HOT AND CHILLED WATER PIPING FOR RECONNECTION TO NEW FAN COIL UNIT.
22 EXISTING DUCTWORK AND SUPPLY DIFFUSERS TO REMAIN. SEE SHEET H-101A FOR NEW WORK DETAILS.
23 DISCONNECT AND REMOVE CONDENSATE DRAIN PIPING BACK TO POINT SHOWN. PREPARE REMAINING PIPING FOR RECCONECTION TO NEW FAN COIL UNIT CONDESNATE DRAIN.
24 SUPPLY AND RETURN DUCT UP TO HEX-A1 ON ROOF.
25 REMOVE EXISTING DUCT TO POINT SHOWN. PREPARE FOR RE-CONNECTION TO NEW EXHAUST AIR DUCTWORK.
26 REMOVE EXISTING FRESH AIR DUCT SHOWN DASHED COMPLETE. PREPARE AND PROTECT DUCT FOR TRANSITION TO NEW O.A. DUCTWORK.
27 REMOVE EXISTING FRESH AIR DUCTWORK TRANSITION AND ASSOCIATED DUCTWORK SHOWN DASHED BACK TO MAIN AND SEAL REMAINING OPENING AIR TIGHT. INSULATE TO MATCH EXISTING CONDITIONS.
28 DISCONNECT AND REMOVE CHS/CHR AND HS/HR PIPING BACK TO MAIN COMPLETE AND CAP OFF.
29 REMOVE DIFFUSER, REGISTER, GRILLE COMPLETE. PATCH OPENING TO MATCH EXISTINGAND SEAL AIR TIGHT.
30 REMOVE EXISTING EXHAUST DUCT COMPLETE TO POINT SHOWN. CAP OPEN END OF EXISTING EXAUST DUCT UP TO ROOF 8" ABOVE FINISHED CEILING HEIGHT. PREPARE FOR RE-CONNECTION TO NEW EXHAUST AIR DUCTWORK.
31 EXISTING DUCT UP TO ROOF-MOUNTED GRAVITY VENTILATOR TO REMAIN. PREPARE AND PROTECT DUCT FOR RE-CONNECTION TO NEW ROOF-MOUNTED GRAVITY VENTILATOR.
32 REMOVE EXISTING CABINET UNIT HEATER AND RELATED PIPING, CONTROLS, ETC.
33 REMOVE EXISTING CABINET UNIT HEATER.
34 REMOVE FRESH AIR DUCTWORK AND ALL ASSOCIATED APPURTENANCES BACK TO WHERE SHOWN.
35 DISCONNECT AND REMOVE EXISTING RADIANT CEILING PANEL AND ASSOCIATED SUPPORTS COMPLETE. REMOVE EXISTING HS/HR PIPING AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW RADIANT CEILING PANELS. PREPARE AND PROTECT OPEN ENDS OF PIPING FOR RECONNECTION.
37 EXISTING CONDESNATE LINE DOWN TO SINK DRAIN TO REMAIN.

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SHELBYVILLE CENTRAL SCHOOLS CORPORATION
LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

JOSEPH R. BOLYARD
REGISTERED
No. 11700201
STATE OF INDIANA
PROFESSIONAL ENGINEER

DATE SIGNED 04/06/22
DATE EXPIRES 07/31/22

REVISIONS:

#	Date	Desc.
3	05.03.2022	ADDENDUM #3

100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: Author

FIRST FLOOR HVAC DEMO PLAN - UNIT A

N
TRUE NORTH

HD101A

GENERAL MECHANICAL NOTES:

A. REFERENCE SHEET M-000 FOR MECHANICAL SYMBOLS, LEGENDS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. ALL NEW HORIZONTAL 4 PIPE FAN COIL UNITS ARE LOCATED ABOVE NEW LAY-IN CEILING.
C. ALL FAN COIL UNITS SHALL UTILIZE A FILTERED RETURN GRILLE IN NEW CEILING WITH HINGED ACCESS DOOR.
D. ALL PNEUMATIC CONTROLS, TUBING, AND ASSOCIATED APPURTENANCES TO BE REMOVED AND REPLACED WITH NEW DDC CONTROLS.
E. ALL FAN COIL UNITS ARE TO BE INSTALLED WITH PERFORATED FACE FILTER RETURN GRILLES.

SHEET PLAN NOTES

1 RE-CONNECT EXISTING CHILLED AND HOT WATER SUPPLY AND RETURN PIPING TO NEW FAN COIL UNIT. EXTEND PIPING AS REQUIRED TO MAKE CONNECTION TO THE UNIT.
2 CONNECT NEW CONDENSATE DRAIN PIPING TO EXISTING AND ROUTE TO NEW FAN COIL UNIT PER MANUFACTURERS INSTRUCTIONS.
3 INSTALL NEW WALL STAT 4' AFF AT EXISTING LOCATION. ROUTE THROUGH EXISTING PATHWAY FOR NEW CONTROL WIRING ROUTING TO NEW EQUIPMENT AS REQUIRED.
4 RE-CONNECT EXISTING HS/HR TO NEW VAV TERMINAL UNIT. CONFIRM EXISTING PIPE SIZING AND ROUTING.
5 RE-CONNECT NEW CABINET UNIT HEATER TO EXISTING HS/HR PIPING.
6 RE-CONNECT NEW RADIENT CEILING PANEL TO EXISTING HS/HR PIPING.
7 RE-CONNECT NEW HOT WATER CONVECTOR TO EXISTING HS/HR PIPING.
8 ROUTE NEW HS/HR PIPING FROM NEW CABINET UNIT HEATER AND TAP INTO EXISTING MAIN.
9 PROVIDE NEW HYDRONIC UNIT HEATER ABOVE CEILING. RECONNECT EXISTING HS/HR TO HEATER AND INSULATE PIPE TO MATCH EXISTING. VERIFY UNIT LOCATION AND SIZE PRIOR TO BID.
10 INSTALL NEW WALL STAT ABOVE CEILING AT EXISTING LOCATION. ROUTE THROUGH EXISTING PATHWAY FOR NEW CONTROL WIRING ROUTING TO NEW EQUIPMENT AS REQUIRED. VERIFY THERMOSTAT LOCATION PRIOR TO RI.
11 PROVIDE NEW CIRCUIT SETTER. SET TO 31.6 GPM.
12 PROVIDE NEW CIRCUIT SETTER. SET TO 19.1 GPM.
13 PROVIDE NEW CIRCUIT SETTER. SET TO 63.9 GPM.

1 FIRST FLOOR HVAC PIPING PLAN - UNIT A
1/8" = 1'-0"

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SHELBYVILLE CENTRAL SCHOOLS CORPORATION
LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

REGISTERED PROFESSIONAL ENGINEER
No. 11700201 STATE OF INDIANA
DATE SIGNED 04/06/22
DATE EXPIRES 07/31/22

REVISIONS:

#	Date	Desc.
3	05.03.2022	ADDENDUM #3

100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: Author

FIRST FLOOR HVAC PIPING PLAN - UNIT A

N
TRUE NORTH

HP101A

PLOT DATE/TIME:5/3/2022 3:53:21 PM

AIR TO AIR ENERGY RECOVERY UNIT SCHEDULE

MARK	LOCATION	AIR CAPACITY		SUMMER DESIGN CONDITIONS					WINTER DESIGN CONDITIONS						SUPPLY FAN DATA						RETURN FAN DATA (EA)						FILTER DATA				HYDRONIC COOLING COIL SELECTION DATA										HYDRONIC REHEAT COIL SELECTION DATA								ELECTRICAL DATA				UNIT WEIGHT (LBS.)	MANUFACTURER WITH MODEL NUMBER	NOTES
		SUPPLY CFM	EXHAUST CFM	EAT		LAT		ENTHALPY RECOVERY RATIO (%)	TOTAL EA WHEEL EFFECTIVE	EAT		LAT		ENTHALPY RECOVERY RATIO (%)	TOTAL EA WHEEL EFFECTIVE	TYPE	ESP	TSP	BHP	RPM	MOTOR			TYPE	ESP	TSP	BHP	RPM	MOTOR			PRE-FILTER	FINAL FILTER	TOTAL MBH	SENS MBH	EAT		LAT		ROWS	FINS/ INCH	MAX APD	MAX VEL	EWT	GPM	MAX WPD	MIN MBH	EAT	LAT	ROWS	FINS/ INCH	MAX APD	MAX VEL	EWT	GPM	MAX WPD	MCA	MOCP	VOLTS	PH			
				DB	WB	DB	WB			DB	WB	DB	WB								HP	VOLTS	PH						HP	VOLTS	PH	TYPE MERV	TYPE MERV			DB	WB	DB	WB																				
DOAS-A1	UNIT A ROOF	4600	4150	95	76	81.0	67.5	72.9	77.4	-10	-11	44.4	39.4	68.2	77.4	PLENUM	2	3.269	3.71	1760	5	208	3	PLENUM	2	2.844	3.1	1760	5	208	3	2" 8	2" 13	197.5	136.9	81	67.5	54	53.6	4	10	0.229	245	42	28.1	3	193.1	44.4	83.2	2	10	0.045	265	130	13	0.5	87.2	90	208	3	3477	VALENT VXE-212-58-40H	1,2,3,4,5
DOAS-B1	UNIT B ROOF	5350	4100	95	76	82.8	68.7	64.4	79.5	-10	-11	37.5	34.4	59.5	79.5	PLENUM	2	3.561	4.7	1770	7.5	208	3	PLENUM	2	2.833	3.04	1760	5	208	3	2" 8	2" 13	241.1	164.5	82.8	68.7	54.8	54.4	4	10	0.282	285	42	34.3	4.5	236.9	37.5	78.4	2	10	0.056	308	130	16	0.7	95.4	100	208	3	3524	VALENT VXE-212-58-40H	1,2,3,4,5
DOAS-B2	UNIT B ROOF	4850	3400	95	76	83.6	69.1	61	81.2	-10	-11	34.4	32.1	55.8	81.2	PLENUM	2	3.365	4.02	1760	5	208	3	PLENUM	2	2.685	2.36	1760	5	208	3	2" 8	2" 13	233.3	156.3	83.6	69.1	54.3	54	4	10	0.248	260	42	33.2	4.2	232	34.4	78.6	2	10	0.048	280	130	100	0.7	87.2	90	208	3	3477	VALENT VXE-212-58-40H	1,2,3,4,5

NOTES:

1. FACTORY PROVIDED DDC CONTROLLER.
2. FACTORY PROVIDED DISCONNECT FOR SINGLE POINT POWER AND INTEGRAL VFD'S FOR THE SUPPLY FAN, EXHAUST FAN, AND ENERGY RECOVERY WHEEL.
3. CONTROLS CONTRACTOR TO PROVIDE HOT AND CHILLED WATER VALVES AND WIRE TO UNIT DDC CONTROLLER.
4. UNIT PROVIDED WITH ALUMINUM 3A WHEEL, ELECTRIC PREHEATER UPSTREAM OF WHEEL FOR DEFROST, AND TEMPERATURE SENSOR BETWEEN ENERGY RECOVERY WHEEL AND COOLING COIL.
5. PROVIDE SOLID BOTTOM ROOF CURB ADAPTOR WITH SEPARATE SUPPLY AND RETURN PLENUMS TO ALLOW EXISTING SUPPLY AND RETURN DUCT RISERS TO BE REUSED.

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AIR CAPACITY			SUPPLY FAN DATA							FILTER DATA				HYDRONIC COOLING COIL SELECTION DATA									HYDRONIC HEATING COIL SELECTION DATA								ELECTRICAL DATA				UNIT WEIGHT (LBS.)	MANUFACTURER WITH MODEL NUMBER	NOTES
		SUPPLY CFM	MIN. CFM	MIN OA CFM	TYPE	ESP	TSP	BHP	RPM	MOTOR			PRE-FILTER		FINAL FILTER		TOTAL MBH	SENS MBH	EAT		LAT		ROWS	FINS/ INCH	MAX APD	MAX VEL	EWT	GPM	MAX WPD	MIN MBH	EAT	LAT	ROWS	FINS/ INCH	MAX APD	MAX VEL	EWT	GPM	MAX WPD	MCA	MOCP	VOLTS	PH			
										HP	VOLTS	PH	TYPE	MERV	TYPE	MERV			DB	WB	DB	WB																								
AHU-A1	MECH G30	4630	-	2100	DIRECT	1.5	5.84	6.5	3344	7.5	208	3	2" MINIHELIC	8	2" MINIHELIC	14	226	145	85.3	70.3	55	54.3	5	10	0.81	503	42	32.3	6.4	340	30.9	95.7	3	12	0.43	503	130	23	3.5	21.8	35	208	3	2250	PACE PAI-39x57	1,2
AHU-A2	MECH G30	1715	-	150	DIRECT	1.5	4.62	1.88	2959	3	208	3	2" MINIHELIC	8	2" MINIHELIC	14	53	46	80.5	63.9	54.9	53	4	11	0.49	440	42	7.5	3	71	59.1	97.5	3	10	0.26	440	130	4.8	0.8	10	17.5	208	3	1565	PACE PAI-33x36	1,3
AHU-A3	PE STORAGE & OFFICE G44	5000	-	2250	DIRECT	1.5	5.15	6.53	3208	7.5	208	3	2" MINIHELIC	8	2" MINIHELIC	14	249	160	85.4	70.2	54.8	53.9	4	12	0.80	472	42	35.4	7.6	381	30.9	98.2	3	12	0.39	472	130	25.9	5.7	23	40	208	3	3401	PACE PAI-39x57	1,3
AHU-L2	MECH G22	9000	-	1860	DIRECT	1.5	4.94	5.81	3431	7.5	208	3	2" MINIHELIC	8	2" MINIHELIC	14	329	253	81.8	66.1	54.9	53.6	5	9	0.64	506	42	46.8	5.7	399	55	96	3	10	0.33	506	130	27.1	3.3	21.8	35	208	3	2859	PACE PAI-57x66	1,2

NOTES:

1. 100% ECONOMIZER MODE OPTION.
2. UNIT PROVIDED WITH FUSED DISCONNECT SWITCH.
3. DISCONNECT SWITCH AND VFD TO BE FIELD PROVIDED.

GRILLE AND DIFFUSER SCHEDULE

DRAWING LEGEND

TYPE — DIFFUSER: CFM / NECK SIZE; TYPE — GRILLE: CFM / SIZE; TYPE — SLOT/LINEAR DIFFUSER: CFM / NO. OF SLOTS - LENGTH; TYPE — LINEAR BAR DIFFUSER: CFM / WIDTH - LENGTH

TYPE	DESCRIPTION	SPECIAL NOTES & FINISHES
B	24"X24" SQUARE CONE CEILING DIFFUSER	
C	12"X12" SQUARE PLAQUE SUPPLY	ROUND NECK
D	24" X 24" SQUARE PLAQUE CEILING DIFFUSER	ROUND NECK
FR	FILTER RETURN GRILLE	
G	LOUVERED RETURN GRILLE	
H	LOUVERED EXHAUST GRILLE	OPPOSED BLADE DAMPER
K	PLENUM SLOT DIFFUSER	
R	SQUARE RETURN GRILLE	ALUMINUM CONSTRUCTION
EX	EXISTING GRILLE/DIFFUSER	BALANCE TO CFM LISTED

AIR-COOLED CHILLER SCHEDULE

MARK	CAPACITY DATA												COMPRESSOR			CONDENSER DATA		ELECTRICAL DATA					UNIT WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER	NOTES
	NAME	NOM. TONS	TONS	REFRIG.	IPLV	DESIGN EER	DESIGN AMB TEMP	EWT	LWT	GPM	MAX WPD	CAPACITY STEPS	FLUID	QTY	TONS EACH	RLA EA.	QTY FANS	FLA EA.	RATED KW	MCA	MOCP	VOLTS	PH			
CH-1	CHILLER NO.1	225	218.4	410A	17.57	10.10	95	56.0	42.0	372.4	9.39	-	WATER	6	37.5	139	12	7.6	259.5	959	1000	208	3	9,956	QUANTECH QTC3205THE17XFBS	1 THRU 8

NOTES

1. MOUNT REMOTE EVAPORATOR ON EXISTING CONCRETE HOUSEKEEPING PAD IN MECHANICAL ROOM.
2. SINGLE POINT POWER CONNECTION.
3. CHILLED WATER SYSTEM CONTAINS WATER.
4. UNIT MOUNTED ACROSS THE LINE STARTER.
5. COORDINATE POWER REQUIREMENTS WITH DIV.26.
6. UNIT SHALL HAVE FACTORY MOUNTED DDC CONTROLLER, NEOPRENE ISOLATION PADS, FLOW SWITCHES, CONTROL TRANSFORMER, LOW SOUND FANS WITH VFD CONTROL, COMPRESSOR SOUND BLANKETS, LOUVERED COIL GUARD, SCROLL-HERMETIC COMPRESSOR TYPE.
7. ADDITIONAL CHARGE BY CONTRACTOR PER MANUFACTURER'S RECOMMENDATIONS. INSULATE PIPING BETWEEN CHILLER AND REMOTE EVAPORATOR.
8. BACnet MS/TP CONTROLS INTERFACE CARD.

PUMP SCHEDULE

MARK	LOCATION	SYSTEM	TYPE	ENERGY EFFICIENCY RATINGS		DESIGN CAPACITY (GPM)	DESIGN CAPACITY (FT. HD)	MIN EFF.	PUMP DATA			MOTOR DATA					WEIGHT (LBS.)	MANUFACTURER WITH MODEL NUMBER	NOTES
				PUMP & MOTOR PEIcl	PUMP/MOTOR/DRIVE PEIvl				IMP SIZE (IN)	SUCT. (IN)	DISCH (IN)	HP	BHP	RPM	VOLTS	PH			
HWP-1	MECH G1	HEATING WATER	BASE MOUNTED END SUCTION	0.92	0.45	300	100	73.6	10.375	4	3	15	10.1	1800	208	3	510	BELL & GOSSETT e-1510 3EB	1
HWP-2	MECH G1	HEATING WATER	BASE MOUNTED END SUCTION	0.92	0.45	300	100	73.6	10.375	4	3	15	10.1	1800	208	3	510	BELL & GOSSETT e-1510 3EB	1
CWP-1	MECH G30	CHILLED WATER	BASE MOUNTED END SUCTION	0.89	0.44	410	125	74.9	12.5	4	3	25	17.3	1800	208	3	798	BELL & GOSSETT e-1510 3GB	1
CWP-2	MECH G30	CHILLED WATER	BASE MOUNTED END SUCTION	0.89	0.44	410	125	74.9	12.5	4	3	25	17.3	1800	208	3	798	BELL & GOSSETT e-1510 3GB	1

NOTES

1. VFD CONTROLS

HYDRONIC UNIT HEATER SCHEDULE

MARK	LOCATION	TYPE	FAN DATA		HYDRONIC HEATING COIL SELECTION DATA							ELECTRICAL DATA			ACCESSORIES		MANUFACTURER WITH MODEL NUMBER	NOTES
			CFM	RPM	MIN MBH	EAT	LAT	ROWS	MAX APD	EWT	GPM	MAX WPD	HP	VOLTS	PH	DISCONNECT SWITCH	WALL BRACKET	
HUH-C27	LGI C27	UNIT HEATER	1150	1075	60	60	113	-	-	130	6.8	2.6	1/6	120	1	YES	YES	MODINE HCH67	5,6
HUH-E39	MUSIC E39	UNIT HEATER	1150	1075	60	60	113	-	-	130	6.8	2.6	1/6	120	1	YES	YES	MODINE HCH67	5,6
CUH-F1	CORRIDOR F1	CABINET	450	-	1.5	70	149	2	-	130	2.5	-	0.25	120	1	YES	NO	MODINE CW004	1,2
CUH-F19	CORRIDOR F19	CABINET	140	-	0.5	70	156	2	-	130	2	-	0.25	120	1	YES	NO	MODINE CW002	1,2
CUH-G2	GIRLS G2	CABINET	450	-	1.5	70	149	2	-	130	2.5	-	0.25	120	1	YES	NO	MODINE CW004	1,4
CUH-G4	BOYS G4	CABINET	450	-	1.5	70	149	2	-	130	2.5	-	0.25	120	1	YES	NO	MODINE CW004	1,4
CUH-G12	GIRLS G12	CABINET	265	-	1	70	159	2	-	130	4	-	0.25	120	1	YES	NO	MODINE CW003	1,4
CUH-G13	BOYS G13	CABINET	265	-	1	70	159	2	-	130	4	-	0.25	120	1	YES	NO	MODINE CW003	1,4
HUH-G19	MEDIA CENTER ANNEX G19	UNIT HEATER	1150	1075	60	60	113	-	-	130	6.8	2.6	1/6	120	1	YES	YES	MODINE HCH67	5,6
HUH-G22	MECH G22	UNIT HEATER	450	1000	12	60	107	-	-	130	3.2	0.4	1/12	120	1	YES	YES	MODINE HSB47	5,6
CUH-G26	BOYS G26	CABINET	265	-	1	70	159	2	-	130	4	-	0.25	120	1	YES	NO	MODINE CW003	1,4
CUH-G27	GIRLS G27	CABINET	265	-	1	70	159	2	-	130	4	-	0.25	120	1	YES	NO	MODINE CW003	1,4
HUH-G30	MECH G30	UNIT HEATER	370	1550	21	60	113	-	-	130	2.2	4.9	1/25	120	1	YES	YES	MODINE HCH22	5,6
CUH-G42	GIRLS G42	CABINET	140	-	0.5	70	156	2	-	130	2	-	0.25	120	1	YES	NO	MODINE CW002	1,4
CUH-G43	BOYS G43	CABINET	140	-	0.5	70	156	2	-	130	2	-	0.25	120	1	YES	NO	MODINE CW002	1,4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HUH-G46	RECEPTION G46	UNIT HEATER	1150	1075	60	60	113	-	-	130	6.8	2.6	1/6	120	1	YES	YES	MODINE HCH67	5,6
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CUH-V2	VESTIBULE V2	CABINET	140	-	3.6	70	156	2	-	130	2	-	0.25	120	1	YES	NO	MODINE CW002	1,3
CUH-V3	VESTIBULE V3	CABINET	140	-	3.6	70	156	2	-	130	2	-	0.25	120	1	YES	NO	MODINE CW002	1,3
CUH-V4	VESTIBULE V4	CABINET	150	-	2.1	70	110	1	-	130	0.5	-	0.25	120	1	YES	NO	MODINE CW002	1,4
CUH-V5	VESTIBULE V5	CABINET	140	-	3.8	70	156	2	-	130	2	-	0.25	120	1	YES	NO	MODINE CW002	1,2
CUH-V6	VESTIBULE V6	CABINET	265	-	7.5	70	159	2	-	130	4	-	0.25	120	1	YES	NO	MODINE CW003	1,3

NOTES

1. PROVIDE UNIT WITH EC MOTOR WITH THREE SPEED SWITCH OPTION.
2. WALL MOUNTED UNIT.
3. RECESSED WALL MOUNTED UNIT.
4. RECESSED CEILING MOUNTED UNIT.
5. HYDRONIC UNIT HEATER.
6. CFM VALUE IS ENTERING CFM.

FAN SCHEDULE

MARK	LOCATION	SERVES	FAN DATA							ELECTRICAL				MANUFACTURER-PROVIDED ACCESSORIES					UNIT WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER	NOTES
			DESCRIPTION	DRIVE TYPE	CFM	ESP	BHP	RPM	SONES	HP	MCA	VOLTS	PH	ROOF CURB	DISCONNECT SWITCH	GRAVITY BACKDRAFT DAMPER	VIBRATION ISOLATORS	BIRD SCREEN			
EF-A1	UNIT A ROOF	G30 - RESTROOM	CENTRIFUGAL	DIRECT	150	0.5"	0.04	1175	5.1	1/4	-	115	1	YES	YES	YES	NO	YES	38	GREENHECK G-097-VG	1
EF-A3	UNIT A ROOF	G51 - CLINIC	CENTRIFUGAL	DIRECT	390	0.5"	0.07	1230	7.7	1/15	-	115	1	YES	YES	YES	NO	YES	29	GREENHECK G-090-D	1
EF-A4	UNIT A ROOF	G30 - MECHANICAL	CENTRIFUGAL	BELT	2000	0.5"	0.32	1295	7.2	1/3	-	115	1	YES	YES	YES	NO	YES	87	GREENHECK GB-180	1,3
EF-A5	UNIT A ROOF	G30 - MECHANICAL	CENTRIFUGAL	DIRECT	350	0.5"	0.07	1550	7.7	1/15	-	115	1	YES	YES	YES	NO	YES	29	GREENHECK G-090-D	1
EF-A6	UNIT A ROOF	C26 - LIFE SKILLS	CENTRIFUGAL	DIRECT	100	0.5"	0.03	1132	4.6	1/4	-	115	1	YES	YES	YES	NO	YES	38	GREENHECK G-097-VG	1
EF-A7	UNIT A ROOF	G12/G13 - RESTROOMS	CENTRIFUGAL	DIRECT	610	0.62	0.2	1725	11.3	1/4	-	115	1	YES	YES	YES	NO	YES	49	GREENHECK G-098-A	1
EF-A8	UNIT A ROOF	G41 - STORAGE	CENTRIFUGAL	DIRECT	75	0.2"	0.01	900	0.3	0.17 FLA	-	115	1	YES	YES	YES	NO	YES	12	GREENHECK SP-A90	1
EF-B1	UNIT B ROOF	G2/G4 - RESTROOMS	CENTRIFUGAL	BELT	750	0.5"	0.15	1280	6.3	1/4	-	115	1	YES	YES	YES	NO	YES	51	GREENHECK GB-100	1

NOTES:

1. PROVIDE BACNET CONTROLLER FOR INTEGRATION TO BMS AND UNIT MOUNTED SPEED CONTROLLER OPTION.
2. PROVIDE CONTROL INTERLOCK TO REFRIGERANT SENSOR.

HOT WATER REHEAT TERMINAL UNIT SCHEDULE

MARK	LOCATION	AIRFLOW DATA		UNIT INLET SIZE	MAX PRESS LOSS IN. WG	MAX DIS NC	HYDRONIC HEATING COIL DATA								MANUFACTURER WITH MODEL NUMBER	NOTES
		DESIGN CFM	MIN CFM	HEAT CFM			MIN MBH	EAT	LAT	ROWS	EWT	LWT	GPM	MAX WPD		
VAV-C27	L.G.I.	1700	510	1020	14"	0.45	25	42.7	55	93.6	3	130	100	2.8	0.6	TRANE VCWF 14	1
VAV-E39-1	MUSIC	1150	345	690	12"	0.44	25	26.6	55	90.5	3	130	100	1.8	0.6	TRANE VCWF 12	1
VAV-E39-2	MUSIC	1150	345	690	12"	0.44	25	26.6	55	90.5	3	130	100	1.8	0.6	TRANE VCWF 12	1
VAV-G18	MEDIA CENTER	1300	390	780	14"	0.29	25	34.9	55	96.2	3	130	100	2.3	0.6	TRANE VCWF 14	1
VAV-G19	MEDIA CENTER ANNEX	1300	390	780	14"	0.29	25	34.9	55	96.2	3	130	100	2.3	0.6	TRANE VCWF 14	1
VAV-G46	RECEPTION	480	240	290	8"	0.39	25	10.7	55	89	3	130	100	0.8	0.6	TRANE VCWF 8	1
VAV-G47	PRINCIPAL	130	70	80	4"	0.04	25	3.3	55	92.7	1	130	100	0.5	0.6	TRANE VCWF 4	1
VAV-G48	CONFERENCE	225	115	135	4"	0.12	25	5.7	55	94.2	2	130	100	0.5	0.6	TRANE VCWF 4	1
VAV-G49	ASST. PRINCIPAL	100	50	60	4"	0.03	25	2.9	55	99.1	1	130	100	0.5	0.6	TRANE VCWF 4	1
VAV-G51	CLINIC	235	120	145	5"	0.14	25	5.9	55	92.7	2	130	100	0.5	0.6	TRANE VCWF 5	1
VAV-G54	WORK	150	75	90	4"	0.04	25	3.5	55	90.3	1	130	100	0.5	0.6	TRANE VCWF 4	1
VAV-G55	WORK	400	200	240	8"	0.29	25	9.25	55	90.5	3	130	100	0.7	0.6	TRANE VCWF 8	1
VAV-G56	ITINERANT	230	115	140	5"	0.130	25	5.8	55	93.4	2	130	100	0.5	0.6	TRANE VCWF 5	1

NOTES:

1. MANUFACTURER PROVIDED DISCONNECT SWITCH.

EXPANSION TANK SCHEDULE

MARK	LOCATION	SYSTEM	CONFIGURATION	ESTIMATED SYSTEM VOLUME	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	PRECHARGE PRESSURE (PSIG)	MAXIMUM PRESSURE	CONNECTIONS	MANUFACTURER WITH MODEL NUMBER	NOTES
									SYSTEM (IN.)		
ET-1	MECH G30	HEATING HOT WATER	VERTICAL BLADDER	1870	44	44	40	125 PSI	0.75/1.5	BELL & GOSSETT B165	

NOTES:

1.

AIR DIRT SEPARATOR SCHEDULE

MARK	SYSTEM	SIZE	DESIGN FLOW (GPM)	WPD	MANUFACTURER WITH MODEL NUMBER	NOTES
ADS-1	CHILLED WATER	6"	425	1.33'	BELL & GOSSETT CRSN-6F	1-3

NOTES:

1. 6" FLANGED COALESCING STYLE AIR & SEDIMENT COMBO SEPARATOR.

LANCER+BEEBE, LLC
ARCHITECTURE | PLANNING | INTERIORS
220 N. COLLEGE AVE
INDIANAPOLIS, IN 46202

CIRCLE DESIGN GROUP
INDIANAPOLIS, IN | 317.781.6200
CIRCLEDESIGNGROUP.COM

SHELBYVILLE CENTRAL SCHOOLS
CORPORATION
LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

REGISTERED ARCHITECT — No. 11700201 — STATE OF INDIANA

DATE SIGNED 04/06/22
DATE EXPIRES 07/31/22

REVISIONS:

#	Date	Desc.
2.	04.26.2022	ADDENDUM #2
3.	05.03.2022	ADDENDUM #3

100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: Author

HVAC SCHEDULES

H-501

PLOT DATE/TIME:5/3/2022 2:48:04 PM

FAN COIL UNIT SCHEDULE (4-PIPE)

MARK	LOCATION	CONFIGURATION	SUPPLY FAN DATA									HYDRONIC HEATING COIL SELECTION DATA									HYDRONIC COOLING COIL SELECTION DATA											FILTER DATA		UNIT WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER	NOTES
			SUPPLY CFM	OA CFM	ESP	QTY	RPM	DRIVE TYPE	HP	MCA	VOLTS	PH	MIN MBH	EAT	LAT	ROWS	FINS/ INCH	EWT	LWT	GPM	MAX WPD	TOTAL MBH	SENS MBH	EAT		LAT		ROWS	FINS/INCH	EWT	GPM	MAX WPD	TYPE	EFF			
																								DB	WB	DB	WB										
FCU-A1	ART	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-A2	1ST GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-A3	1ST GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-A4	1ST GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-A5	1ST GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-A6	1ST GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-A7	1ST GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-B8	KINDERGARTEN	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-B9	KINDERGARTEN	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-B10	KINDERGARTEN	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-B11	KINDERGARTEN	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-B12	KINDERGARTEN	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-B13	KINDERGARTEN	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-B14	ACTIVITY LAB	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C15	2ND GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C16	2ND GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C17	2ND GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C18	2ND GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C19	3RD GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C20	2ND GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C21	3RD GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C22	3RD GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C23	3RD GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C24	3RD GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-C26	LIFE SKILLS	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-D28	5TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-D29	5TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-D30	5TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-D31	5TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-D32	5TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-D33	4TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-E34	4TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-E35	4TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-E36	4TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-E37	4TH GRADE	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-E38-1	COMPUTER LAB	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-E38-2	COMPUTER LAB	HORIZONTAL HIDEAWAY	1200	480	0.32	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	37.9	70	99.2	3	10	130	100	2.4	0.96	30.4	23.1	75	64	57.5	55.4	4	10	42	4.7	5.95	1" PLEATED	MERV 8	224	KRUEGER KHGP 14	1,2,3
FCU-G15	WORK	HORIZONTAL HIDEAWAY	800	50	0.68	2	1000 EA	DIRECT	1/4 EA	3.6	208	1	22.1	70	95	2	10	130	100	1.4	0.91	13.5	10	75	64	55	53.1	4	10	42	3.6	3.29	1" PLEATED	MERV 8	213	KRUEGER KHGP 14	1,2,3
FCU-G23	RESOURCE	HORIZONTAL HIDEAWAY	400	140	0.85	2	1075 EA	DIRECT	1/6 EA	2.25	208	1	7.7	70	95	1	10	130	100	0.6	2.31	4.8	3.6	75	64	55	53.1	3	10	42	1.9	3.24	1" PLEATED	MERV 8	177	KRUEGER KHGP 12	1,2,3

NOTES:

1. SINGLE POINT POWER CONNECTION.
2. MANUFACTURER PROVIDED TOGGLE DISCONNECT SWITCH.
3. PROVIDE ECM MOTOR.

DUCTLESS SPLIT AIR CONDITIONER SCHEDULE

MARK	LOCATION	CFM		COOLING BTUH	ELECTRICAL DATA				SEER	REFRIG.	WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER (INDOOR/OUTDOOR)	NOTES
		HIGH	LOW		MCA	MOCP	VOLTS	PH					
AC-1	STORAGE G9	1095	600	33	23	30	208	1	18.5	R410A	-	LG LSN363HLV3 / LG LSU363HLV3	1,2,3,4,5,6,7,8
AC-2	HEADEND G21	340	95 (2)	12	10	15	208	1	22.7	R410A	-	LG LSN120HSV5 / LG LSU120HSV5	1,2,3,4,5,6,7,8

NOTES:

1. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
2. WIND BAFFLE FOR LOW AMBIENT COOLING, WB-PA4, WB-SD4, AND WB-RE4.
3. INDOOR AND OUTDOOR UNITS TO BE FACTORY MATCHED.
4. PROVIDE CONDENSTATE PUMP FOR INSTALLATION IN THE FIELD.
5. DISCONNECT PROVIDED BY EC
6. MANUFACTURER TO SIZE RS/RL PIPING LINE SET. RS/RL PIPING TO BOTH BE INSULATED. SEE DETAIL M/H-601.
7. MOUNT UNIT TO ROOF EQUIPMENT SUPPORT CURBS.
8. PROVIDE BACNET CONTROLLER FOR INTEGRATION TO BMS

RADIANT CEILING PANEL SCHEDULE

SPECIFICATION SECTION 23 82 39

MARK	LOCATION	PANEL LENGTH	PANEL WIDTH	CAPACITY BUTH/LIN. FT.	# OF PASSES	# OF TUBES	AVERAGE WATER TEMP. °F	GPM	WATER PRESSURE DROP PER 100 FT	HWS/R RUNOUT SIZE (IN)	MANUFACTURER WITH MODEL NUMBER	NOTES
RCP-B14	ACTIVITY LAB B14	16'	12"	78	4	1	115	0.1	0.5	5/8	VULCAN LRP 16	1
RCP-B14.1	LAB STORAGE B14.1	14'	24"	167	8	1	115	0.2	0.5	5/8	VULCAN LRP 14	1
RCP-G10	STORAGE G10	14'	24"	167	8	1	115	0.2	0.5	5/8	VULCAN LRP 14	1
RCP-G38-1	UTILITY G38	10'	24"	167	8	1	115	0.1	0.5	5/8	VULCAN LRP 10	1
RCP-G38-2	UTILITY G38	10'	24"	167	8	1	115	0.1	0.5	5/8	VULCAN LRP 10	1
RCP-G39-1	CAFETERIA G39	10'	30"	200	10	1	115	0.15	0.5	5/8	VULCAN LRP 10	1
RCP-G39-2	CAFETERIA G39	10'	30"	200	10	1	115	0.15	0.5	5/8	VULCAN LRP 10	1
RCP-G39-3	CAFETERIA G39	15'	30"	200	10	1	115	0.2	0.5	5/8	VULCAN LRP 15	1
RCP-G39-4	CAFETERIA G39	15'	30"	200	10	1	115	0.2	0.5	5/8	VULCAN LRP 15	1
RCP-F4-1	CORRIDOR F4	10'	24"	167	8	1	115	0.1	0.5	5/8	VULCAN LRP 10	1
RCP-F4-2	CORRIDOR F4	15'	24"	167	8	1	115	0.2	0.5	5/8	VULCAN LRP 15	1
RCP-F4-3	CORRIDOR F4	15'	24"	167	8	1	115	0.2	0.5	5/8	VULCAN LRP 15	1
RCP-F4-4	CORRIDOR F4	15'	24"	167	8	1	115	0.2	0.5	5/8	VULCAN LRP 15	1

NOTES

1. PROVIDE WALL MOUNTED THERMOSTAT.

HYDRONIC CONVECTOR SCHEDULE

MARK	LOCATION	CABINET TYPE	HEATING ELEMENT SELECTION DATA						MANUFACTURER WITH MODEL NUMBER	NOTES
			MIN MBH	EAT	AVG EWT	ROWS	GPM	MAX WPD		
CONV-G8	TOILET G8	SLOPE TOP CONVECTOR	1.5	70	115	2	0.1	-	MODINE SL043618	1,2
CONV-G25	TOILET G25	SLOPE TOP CONVECTOR	1.5	70	115	2	0.1	-	MODINE SL043618	1,2
CONV-G28	TOILET G28	SLOPE TOP CONVECTOR	1.5	70	115	2	0.1	-	MODINE SL043618	1,2
CONV-G33	OFFICE G33	SLOPE TOP CONVECTOR	1.5	70	115	2	0.1	-	MODINE SL043618	1,2
CONV-G35	TOILET G35	SLOPE TOP CONVECTOR	1.5	70	115	2	0.1	-	MODINE SL043618	1,2

NOTES:

1. FINAL COLOR TO BE CHOSEN BY ARCHITECT.
2. PROVIDE WALL MOUNTED THERMOSTAT.

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SHELBYVILLE CENTRAL SCHOOLS
CORPORATION
LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

REGISTERED ARCHITECT
No. 11700201
STATE OF INDIANA

DATE SIGNED 04/06/22
DATE EXPIRES 07/31/22

REVISIONS:

#	Date	Desc.
2.	04.26.2022	ADDENDUM #2
3.	05.03.2022	ADDENDUM #3

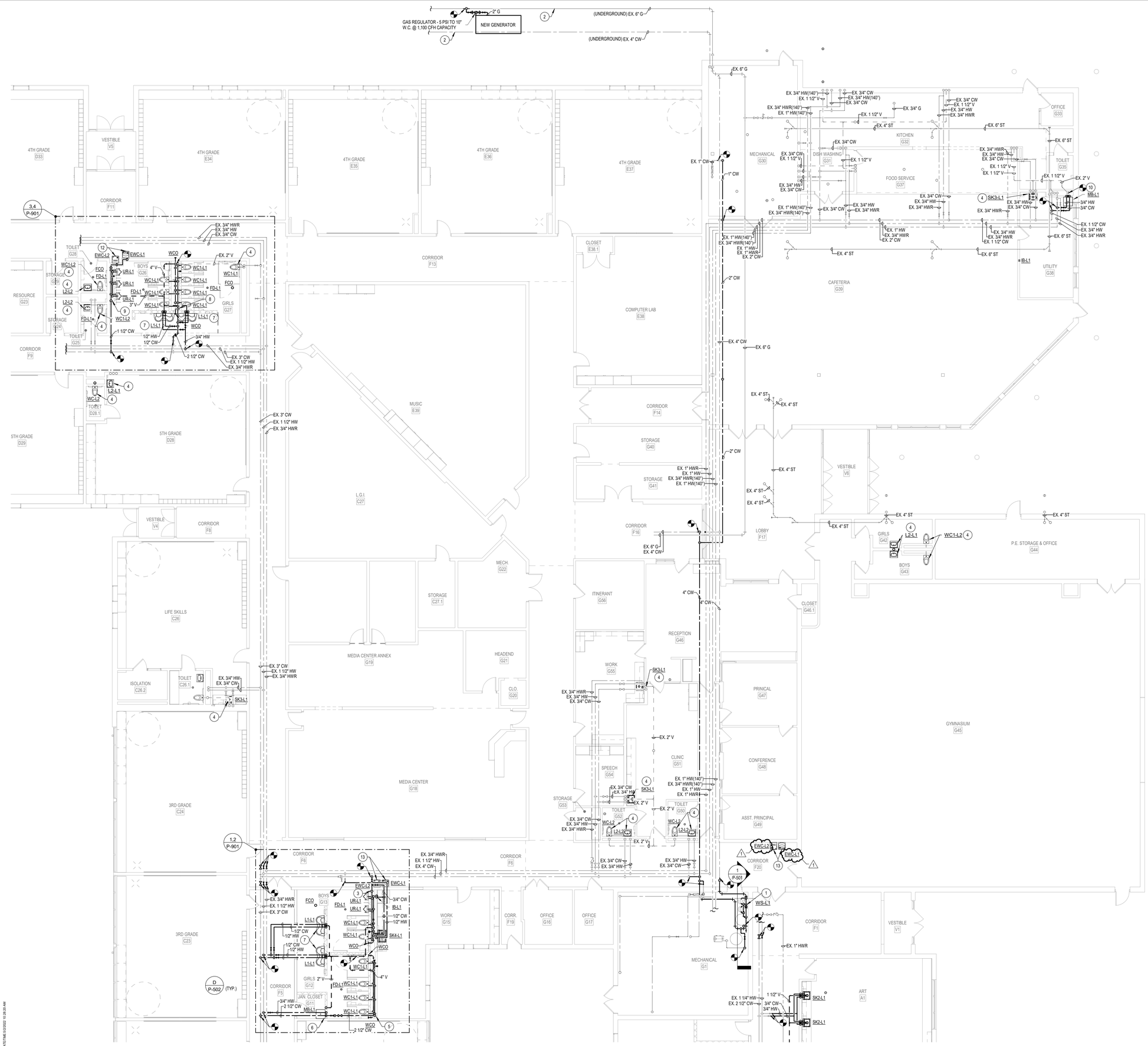
100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: TC

HVAC SCHEDULES

H-502

PLOT DATE/TIME:5/3/2022 4:34:53 PM



1 FIRST FLOOR PLUMBING PLAN - UNIT A

1/8" = 1'-0"

0 4' 8' 16'

GENERAL PLUMBING NOTES:

A. REFERENCE SHEET M-000 FOR PLUMBING SYMBOLS, LEGENDS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.

○ SHEET PLAN NOTES

1 DUPLEX WATER SOFTENER TO SERVE DOMESTIC HOT AND COLD WATER SYSTEMS.
2 CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES - RELOCATE UNDERGROUND MAINS FROM BELOW FOOTPRINT OF GENERATOR.
3 2"CW DOWN IN CHASE. ROUTE 2"CW LINE FULL SIZE. PROVIDE WHA 'B'.
4 CONNECT NEW PLUMBING FIXTURE TO EXISTING WATER, WASTE, AND VENT PIPING.
5 2 1/2"CW DOWN IN CHASE. ROUTE 2 1/2"CW LINE FULL SIZE. PROVIDE WHA 'C'.
6 3/4"CW AND 3/4"HW DROP, 2"V RISE, 3"W DOWN. PROVIDE CHECK VALVE ON CW AND HW DROP.
7 1/2"CW AND 1/2"HW DROP, 1 1/2"V RISE, 2"W DOWN.
8 2 1/2"CW DOWN IN CHASE. ROUTE 2 1/2"CW LINE FULL SIZE. PROVIDE WHA 'D'.
9 1 1/2"CW DOWN IN CHASE. ROUTE 1 1/2"CW LINE FULL SIZE. PROVIDE WHA 'B'.
10 CONNECT NEW 2" VENT PIPING FROM MOP BASIN TO EXISTING 2" VENT PIPING IN CHASE.
12 CONNECT NEW PLUMBING FIXTURE TO NEW WATER PIPING AND EXISTING WASTE AND VENT PIPING.
13 CONNECT NEW PLUMBING FIXTURE TO EXISTING WATER, WASTE, AND VENT PIPING. PROVIDE SHUT OFF VALVE ON COLD WATER LINE.

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SHELBYVILLE CENTRAL SCHOOLS CORPORATION
LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

JOSEPH R. BOLYARD
No. 11700201

DATE SIGNED 04/06/22
DATE EXPIRES 07/31/22

REVISIONS:

#	Date	Desc.
1	5.04.2022	Addendum 3

100% Construction Documents

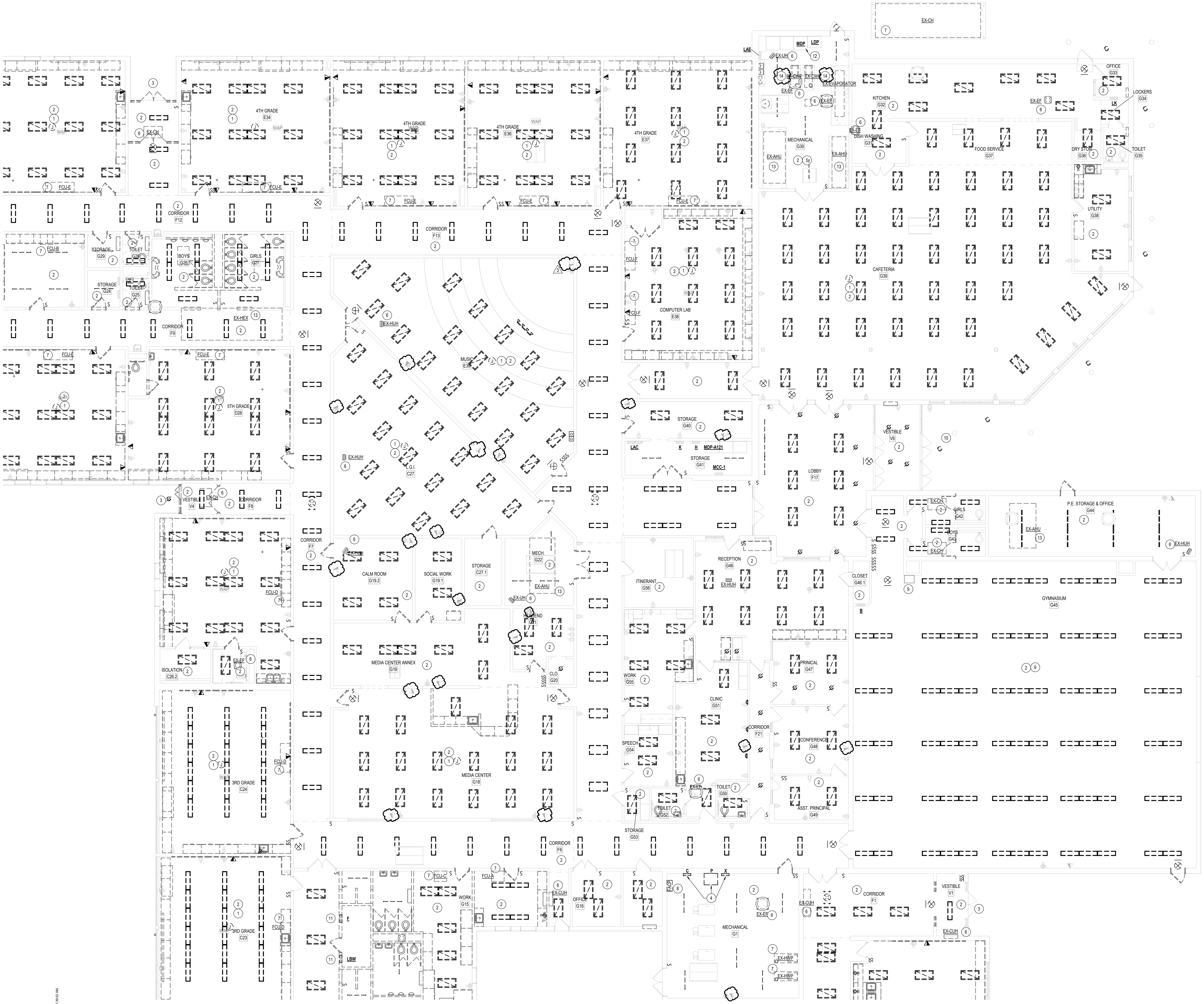
CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: CCW/IOP

FIRST FLOOR
PLUMBING
PLAN - UNIT A

N
TRUE
NORTH

P-101A

PLOT DATE/TIME:5/2/2022 10:28:20 AM



1 FIRST FLOOR POWER DEMO PLAN - UNIT A
1/8" = 1'-0"

GENERAL SHEET NOTES

A. ALL EXISTING ELECTRICAL INSTALLATIONS ARE NOT NECESSARILY SHOWN. REMOVAL OF EXISTING INSTALLATIONS ARE SHOWN DASHED OR TO BE RELCATED PER PLAN NOTE. ANY EXISTING REMAINING ITEMS WHICH DO NOT CONTRIBUTE TO OR INHIBIT THE COMPLETED OPERATIONAL FACILITY SHALL BE REMOVED AT THE DIRECTION OF THE OWNER'S ENGINEER.
B. CONTRACTOR SHALL SCHEDULE AND PERFORM ALL WORK TO MINIMIZE THE DISTURBANCE TO FACILITY NORMAL OPERATION.
C. ELECTRICAL CONTRACTOR IS NOT RESPONSIBLE FOR THE PATCHING OF AREAS, FLOORS, CEILINGS, ROOFING MATERIALS, ETC. AFTER THE REMOVAL OF EXISTING EQUIPMENT.
D. INDIVIDUAL SUBCONTRACTORS ARE RESPONSIBLE FOR REMOVING AND REINSTALLAING ANY COMPONENTS NOTED TO BE REINSTALLED THAT FALL WITHIN THEIR TRADES.
E. DISPOSE OF ALL MATERIALS REMOVED AND NOT REUSED AS DIRECTED BY OWNER'S ENGINEER.
F. EXISTING ELECTRICAL EQUIPMENT AND COMPONENTS NOTED TO REMAIN SHALL BE PROTECTED DURING DEMOLITION OF OTHER ITEMS. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S COST.
G. CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL / SPECIFICATIONS AND DRAWINGS. DOCUMENTS ARE COMPLEMENTARY AND ANY INFORMATION INCLUDED ON EITHER SHALL BE EXECUTED AS IF SHOWN ON BOTH.
H. CONTRACTOR SHALL THOUROUGHLY INSPECT THE WORK OF OTHER TRADES IN ADDITION TO THEIR OWN PRIOR TO SUBMITTING A BID PROPOSAL.
I. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT DIRECTORIES FOR EXISTING PANEL BOARDS WITHIN THE PROJECT SCOPE IDENTIFYING THE PROPER LOAD TYPES FED BY THE CIRCUITS (NEW AND EXISTING) UPON THE COMPLETION OF WORK.
J. EXISTING EQUIPMENT NOTED TO BE `REMOVED COMPLETE' SHALL INCLUDE THE REMOVAL OF THE DEVICE/EQUIPMENT, WIRING BACK TO THE SOURCE/PANEL, REMOVAL OF ANY SURFACE MOUNTED / EXPOSED CONDUIT, AND BOXES.
K. WORK IN THIS DRAWING IS IN CONJUNCTION WITH ARCHITECTURAL DEMOLITION DRAWINGS. FOR ADDITIONAL WORK SEE ARCHITECTURAL PLANS.
L. EXISTING FIRE ALARM SYSTEM TO BE REMOVED COMPLETE. KEEP BUILDING FIRE ALARM OPERATIONAL FOR OCCUPIED PORTIONS OF THE DURING TENURE OF CONSTRUCTION. SEE ET100 SERIES FOR APPROXIMATE FIRE ALARM DEVICE LOCATIONS AND COUNTS ON PLANS.
M. EXISTING INTERCOM SPEAKERS TO BE REMOVED COMPLETE. EXISTING WIRING TO REMAIN. PREPARE ROUGH-INS FOR INSTALLATION OF NEW SPEAKERS. SEE ET100 SERIES FOR APPROXIMATE SPEAKER LOCATIONS AND COUNTS ON PLANS.
N. DEMOLISH ALL EXISTING DATA AND SURFACE MOUNTED DATA RACEWAYS AND BOXES IN CLASSROOM. REMOVE DATA CABLE BACK TO WAP DEVICE ABOVE CEILING.
O. REMOVE ALL EXISTING WIRING DEVICES IN CLASSROOMS AND PREPARE TO REPLACE WITH NEW.
P. REMOVE WIRELESS ACCESS POINT DEVICES IN ALL CLASSROOMS AND RETURN TO OWNER. COIL DATA CABLE CONNECTED TO WAP AND LEAVE ABOVE CEILING.
Q. DEMOLISH WIRE FEEDING DEMOLISHED RECEPTACLES BACK TO NEAREST ACCESSIBLE JUNCTION BOX. CONFIRM JUNCTION BOX WILL BE ACCESSIBLE POST CONSTRUCTION.
R. REFER TO SHEET E-501 FOR DEMOLITION NOTES SCHEDULE FOR ADDITIONAL DEMOLITION INFORMATION.

SHEET DEMO PLAN NOTES

1 DEMOLISH PROJECTOR AND PROJECTOR MOUNT. RETURN PROJECTOR TO OWNER AFTER REMOVAL. DEMOLISH WIRE AND CONDUIT BACK TO NEAREST JUNCTION BOX.
2 REMOVE ALL LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THIS AREA.
3 REMOVE ALL EXTERIOR WALL SCONCES AND CANOPY LIGHTING.
4 DEMOLISH ORIGINAL CLEVELAND PANELBOARDS. PREPARE AREA FOR REPLACEMENT OF GEAR AND RECONNECTION OF CIRCUITRY. SEE E-401 FOR GEAR SIZE.
5 EXISTING TIMECLOCK TC.1 AND EXISTING CONTACTOR C.1 LOCATED IN THIS ROOM.
6 DISCONNECT CIRCUITRY FROM MECHANICAL EQUIPMENT TO BE REPLACED. PREPARE CIRCUIT FOR RECONNECTION TO NEW EQUIPMENT IN SIMILAR LOCATION. EXTEND CIRCUITRY AS REQUIRED.
7 DEMOLISH WIRE FROM MECHANICAL UNIT BACK TO SOURCE. PREPARE EXISTING CONDUIT TO BE RE-USED AS POSSIBLE FOR NEW CIRCUITRY.
8 DEMOLISH EXISTING FACP AND PREPARE FOR REPLACEMENT.
9 DEMOLISH EXISTING GYMNASIUM SOUND EQUIPMENT AND SPEAKERS AND RETURN TO OWNER.
10 REMOVE ALL EXTERIOR RECESSED DOWNLIGHTS IN SOFFIT AND RETURN FIXTURES TO OWNER. REFER TO SHEET EL101A FOR RETROFIT DOWNLIGHT.
11 DEMOLISH EXISTING PANELBOARD. PREPARE EXISTING CIRCUITRY TO BE CONNECTED TO NEW PANELBOARD. SEE NEW LOCATIONS ON EP101A.
12 DEMOLISH (2) 800A BUCKETS FEEDING EXISTING CHILLER. SPACE TO BE MADE AVAILABLE FOR NEW DISCONNECT FOR NEW CHILLER.
13 DISCONNECT CIRCUITRY FROM MECHANICAL EQUIPMENT TO BE REPLACED. PREPARE CIRCUIT FOR RECONNECTION TO NEW EQUIPMENT IN SIMILAR LOCATION. EXTEND CIRCUITRY AS REQUIRED. REMOVE BREAKER FEEDING UNIT AND PREPARE TO REPLACE WITH BREAKER SIZE AS SHOWN ON MOTORIZED EQUIPMENT SCHEDULE ON E-502 FOR EQUIPMENT WHICH IS REPLACING DEMOLISHED UNIT.
14 DEMOLISH WIRE FROM MECHANICAL UNIT BACK TO SOURCE.
3

FIELD VERIFY
EXISTING ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND DEVICE INFORMATION WAS OBTAINED FROM EXISTING DRAWINGS AND CURSORY FIELD OBSERVATION. AS-BUILT DRAWINGS WERE NOT AVAILABLE FOR ALL SPACES INCLUDED IN THE SCOPE OF THE PROJECT. CERTAIN INFORMATION CONCERNING THE LOCATION, MOUNTING, AND PLACEMENT OF ELECTRICAL EQUIPMENT, DEVICES, AND LIGHTING FIXTURES MUST BE VERIFIED IN THE FIELD TO DETERMINE EXACT LOCATIONS, SIZING, AND ANY OTHER PERTINENT INFORMATION. THE EC MUST VERIFY PRIOR TO CONSTRUCTION AND NOTE ANY CONFLICTS BETWEEN PLANS AND ACTUAL CONDITIONS IMMEDIATELY TO DESIGN TEAM FOR VERIFICATION, CORRECTION, OR REVIEW. ANY ISSUES DUE TO LACK OF COORDINATION ON FRONT END OF PROJECT TO BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

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CIRCLE DESIGN GROUP

SHELBYVILLE CENTRAL SCHOOLS CORPORATION
LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

REVISIONS:

#	Date	Desc.
2	04/26/2022	Addendum #2
3	05/3/2022	Addendum #3

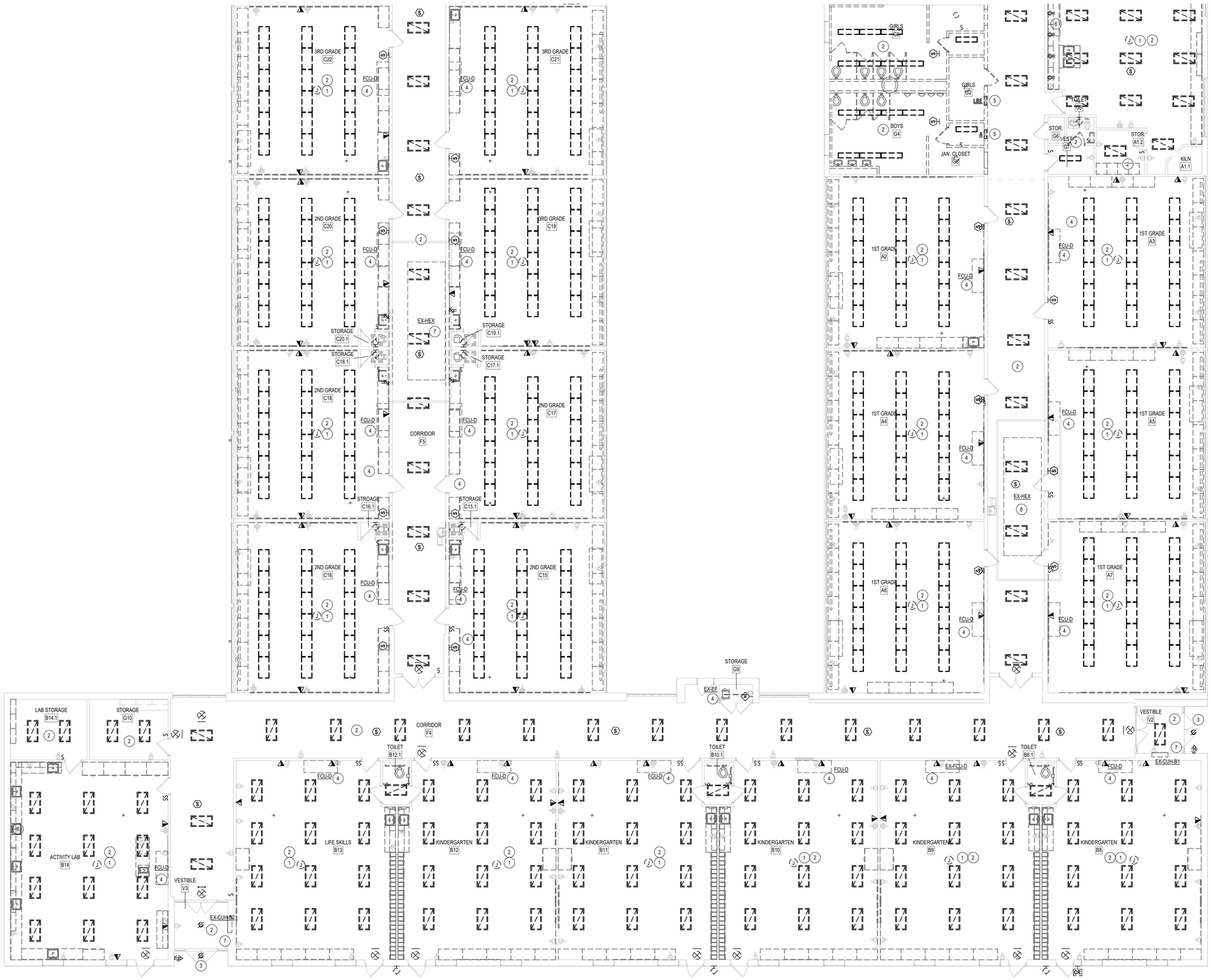
100% CONSTRUCTION DOCUMENTS

CDG PROJECT:	#21102B
DATE:	04.06.2022
DRAWN BY:	KTS

FIRST FLOOR ELECTRICAL DEMO PLAN - UNIT A

N
TRUE NORTH

ED101A



1 FIRST FLOOR POWER DEMO PLAN - UNIT B

1/8" = 1'-0"

0 4' 8' 16'

GENERAL SHEET NOTES

A. ALL EXISTING ELECTRICAL INSTALLATIONS ARE NOT NECESSARILY SHOWN. REMOVAL OF EXISTING INSTALLATIONS ARE SHOWN DASHED OR TO BE RELCATED PER PLAN NOTE. ANY EXISTING REMAINING ITEMS WHICH DO NOT CONTRIBUTE TO OR INHBIT THE COMPLETED OPERATIONAL FACILITY SHALL BE REMOVED AT THE DIRECTION OF THE OWNER'S ENGINEER.
B. CONTRACTOR SHALL SCHEDULE AND PERFORM ALL WORK TO MINIMIZE THE DISTURBANCE TO FACILITY NORMAL OPERATION.
C. ELECTRICAL CONTRACTOR IS NOT RESPONSIBLE FOR THE PATCHING OF AREAS, FLOORS, CEILINGS, ROOFING MATERIALS, ETC. AFTER THE REMOVAL OF EXISTING EQUIPMENT.
D. INDIVIDUAL SUBCONTRACTORS ARE RESPONSIBLE FOR REMOVING AND REINSTALLAING ANY COMPONENTS NOTED TO BE REINSTALLED THAT FALL WITHIN THEIR TRADES.
E. DISPOSE OF ALL MATERIALS REMOVED AND NOT REUSED AS DIRECTED BY OWNER'S ENGINEER.
F. EXISTING ELECTRICAL EQUIPMENT AND COMPONENTS NOTED TO REMAIN SHALL BE PROTECTED DURING DEMOLITION OF OTHER ITEMS. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S COST.
G. CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL / SPECIFICATIONS AND DRAWINGS. DOCUMENTS ARE COMPLEMENTARY AND ANY INFORMATION INCLUDED ON EITHER SHALL BE EXECUTED AS IF SHOWN ON BOTH.
H. CONTRACTOR SHALL THOUROUGHLY INSPECT THE WORK OF OTHER TRADES IN ADDITION TO THEIR OWN PRIOR TO SUBMITTING A BID PROPOSAL.
I. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT DIRECTORIES FOR EXISTING PANEL BOARDS WITHIN THE PROJECT SCOPE IDENTIFYING THE PROPER LOAD TYPES FED BY THE CIRCUITS (NEW AND EXISTING) UPON THE COMPLETION OF WORK.
J. EXISTING EQUIPMENT NOTED TO BE 'REMOVED COMPLETE' SHALL INCLUDE THE REMOVAL OF THE DEVICE/EQUIPMENT, WIRING BACK TO THE SOURCE/PANEL, REMOVAL OF ANY SURFACE MOUNTED / EXPOSED CONDUIT, AND BOXES.
K. WORK IN THIS DRAWING IS IN CONJUNCTION WITH ARCHITECTURAL DEMOLITION DRAWINGS. FOR ADDITIONAL WORK SEE ARCHITECTURAL PLANS.
L. EXISTING FIRE ALARM SYSTEM TO BE REMOVED COMPLETE. KEEP BUILDING FIRE ALARM OPERATIONAL FOR OCCUPIED PORTIONS OF THE DURING TENURE OF CONSTRUCTION. SEE ET100 SERIES FOR APPROXIMATE FIRE ALARM DEVICE LOCATIONS AND COUNTS ON PLANS.
M. EXISTING INTERCOM SPEAKERS TO BE REMOVED COMPLETE. EXISTING WIRING TO REMAIN. PREPARE ROUGH-INS FOR INSTALLATION OF NEW SPEAKERS. SEE ET100 SERIES FOR APPROXIMATE SPEAKER LOCATIONS AND COUNTS ON PLANS.
N. DEMOLISH ALL EXISTING DATA AND SURFACE MOUNTED DATA RACEWAYS AND BOXES IN CLASSROOM. REMOVE DATA CABLE BACK TO WAP DEVICE ABOVE CEILING.
O. REMOVE ALL EXISTING WIRING DEVICES IN CLASSROOMS AND PREPARE TO REPLACE WITH NEW.
P. REMOVE WIRELESS ACCESS POINT DEVICES IN ALL CLASSROOMS AND RETURN TO OWNER. COIL DATA CABLE CONNECTED TO WAP AND LEAVE ABOVE CEILING.
Q. DEMOLISH WIRE FEEDING DEMOLISHED RECEPTACLES BACK TO NEAREST ACCESSIBLE JUNCTION BOX. CONFIRM JUNCTION BOX WILL BE ACCESSIBLE POST CONSTRUCTION.
R. REFER TO SHEET E-501 FOR DEMOLITION NOTES SCHEDULE FOR ADDITIONAL DEMOLITION INFORMATION.

SHEET DEMO PLAN NOTES

1 DEMOLISH PROJECTOR AND PROJECTOR MOUNT. RETURN PROJECTOR TO OWNER AFTER REMOVAL. DEMOLISH WIRE AND CONDUIT BACK TO NEAREST JUNCTION BOX.
2 REMOVE ALL LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THIS AREA.
3 REMOVE ALL EXTERIOR WALL SCONCES AND CANOPY LIGHTING.
4 DEMOLISH WIRE FROM MECHANICAL UNIT BACK TO SOURCE. PREPARE EXISTING CONDUIT TO BE RE-USED AS POSSIBLE FOR NEW CIRCUITRY.
5 DEMOLISH EXISTING PANELBOARD. PREPARE EXISTING CIRCUITRY TO BE CONNECTED TONEW PANELBOARD. SEE NEW LOCATIONS ON EP101B
6 CASEWORK TO BE REPLACED. DEMOLISH RECEPTACLES AND PREPARE CIRCUIT TO BE RECONNECTED TO NEW RECEPTACLES IN SIMILAR LOCATION.
7 DISCONNECT CIRCUITRY FROM MECHANICAL EQUIPMENT TO BE REPLACED. PREPARE CIRCUIT FOR RECONNECTION TO NEW EQUIPMENT IN SIMILAR LOCATION. EXTEND CIRCUITRY AS REQUIRED.
8 DISCONNECT CIRCUITRY FROM MECHANICAL EQUIPMENT TO BE REPLACED. PREPARE CIRCUIT FOR RECONNECTION TO NEW EQUIPMENT IN SIMILAR LOCATION. EXTEND CIRCUITRY AS REQUIRED. REMOVE BREAKER FEEDING UNIT AND PREPARE TO REPLACE WITH BREAKER SIZE AS SHOWN ON MOTORIZE

FIELD VERIFY
EXISTING ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND DEVICE INFORMATION WAS OBTAINED FROM EXISTING DRAWINGS AND CURSORY FIELD OBSERVATION. AS-BUILT DRAWINGS WERE NOT AVAILABLE FOR ALL SPACES INCLUDED IN THE SCOPE OF THE PROJECT. CERTAIN INFORMATION CONCERNING THE LOCATION, MOUNTING, AND PLACEMENT OF ELECTRICAL EQUIPMENT, DEVICES, AND LIGHTING FIXTURES MUST BE VERIFIED IN THE FIELD TO DETERMINE EXACT LOCATIONS, SIZING, AND ANY OTHER PERTINENT INFORMATION. THE EC MUST VERIFY PRIOR TO CONSTRUCTION AND NOTE ANY CONFLICTS BETWEEN PLANS AND ACTUAL CONDITIONS IMMEDIATELY TO DESIGN TEAM FOR VERIFICATION, CORRECTION, OR REVIEW. ANY ISSUES DUE TO LACK OF COORDINATION ON FRONT END OF PROJECT TO BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

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SHELBYVILLE CENTRAL SCHOOLS
CORPORATION
LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

REVISIONS:

#	Date	Desc.
2	04/26/2022	Addendum #2

100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: KTS

FIRST FLOOR ELECTRICAL DEMO PLAN - UNIT B

N
TRUE NORTH

ED101B

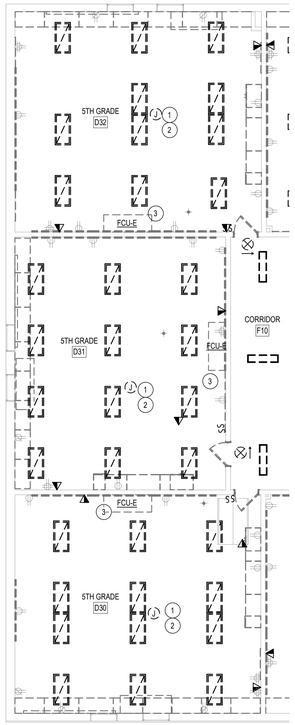
PLOT DATE/TIME:5/4/2022 7:43:59 AM

GENERAL SHEET NOTES

A. ALL EXISTING ELECTRICAL INSTALLATIONS ARE NOT NECESSARILY SHOWN. REMOVAL OF EXISTING INSTALLATIONS ARE SHOWN DASHED OR TO BE RELCATED PER PLAN NOTE. ANY EXISTING REMAINING ITEMS WHICH DO NOT CONTRIBUTE TO OR INHIBIT THE COMPLETED OPERATIONAL FACILITY SHALL BE REMOVED AT THE DIRECTION OF THE OWNER'S ENGINEER.
B. CONTRACTOR SHALL SCHEDULE AND PERFORM ALL WORK TO MINIMIZE THE DISTURBANCE TO FACILITY NORMAL OPERATION.
C. ELECTRICAL CONTRACTOR IS NOT RESPONSIBLE FOR THE PATCHING OF AREAS, FLOORS, CEILINGS, ROOFING MATERIALS, ETC. AFTER THE REMOVAL OF EXISTING EQUIPMENT.
D. INDIVIDUAL SUBCONTRACTORS ARE RESPONSIBLE FOR REMOVING AND REINSTALLAING ANY COMPONENTS NOTED TO BE REINSTALLED THAT FALL WITHIN THEIR TRADES.
E. DISPOSE OF ALL MATERIALS REMOVED AND NOT REUSED AS DIRECTED BY OWNER'S ENGINEER.
F. EXISTING ELECTRICAL EQUIPMENT AND COMPONENTS NOTED TO REMAIN SHALL BE PROTECTED DURING DEMOLITION OF OTHER ITEMS. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S COST.
G. CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL / SPECIFICATIONS AND DRAWINGS. DOCUMENTS ARE COMPLEMENTARY AND ANY INFORMATION INCLUDED ON EITHER SHALL BE EXECUTED AS IF SHOWN ON BOTH.
H. CONTRACTOR SHALL THOUROUGHLY INSPECT THE WORK OF OTHER TRADES IN ADDITION TO THEIR OWN PRIOR TO SUBMITTING A BID PROPOSAL.
I. CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT DIRECTORIES FOR EXISTING PANEL BOARDS WITHIN THE PROJECT SCOPE IDENTIFYING THE PROPER LOAD TYPES FED BY THE CIRCUITS (NEW AND EXISTING) UPON THE COMPLETION OF WORK.
J. EXISTING EQUIPMENT NOTED TO BE 'REMOVED COMPLETE' SHALL INCLUDE THE REMOVAL OF THE DEVICE/EQUIPMENT, WIRING BACK TO THE SOURCE/PANEL, REMOVAL OF ANY SURFACE MOUNTED / EXPOSED CONDUIT, AND BOXES.
K. WORK IN THIS DRAWING IS IN CONJUNCTION WITH ARCHITECTURAL DEMOLITION DRAWINGS. FOR ADDITIONAL WORK SEE ARCHITECTURAL PLANS.
L. EXISTING FIRE ALARM SYSTEM TO BE REMOVED COMPLETE. KEEP BUILDING FIRE ALARM OPERATIONAL FOR OCCUPIED PORTIONS OF THE DURING TENURE OF CONSTRUCTION. SEE ET100 SERIES FOR APPROXIMATE FIRE ALARM DEVICE LOCATIONS AND COUNTS ON PLANS.
M. EXISTING INTERCOM SPEAKERS TO BE REMOVED COMPLETE. EXISTING WIRING TO REMAIN. PREPARE ROUGH-INS FOR INSTALLATION OF NEW SPEAKERS. SEE ET100 SERIES FOR APPROXIMATE SPEAKER LOCATIONS AND COUNTS ON PLANS.
N. DEMOLISH ALL EXISTING DATA AND SURFACE MOUNTED DATA RACEWAYS AND BOXES IN CLASSROOM. REMOVE DATA CABLE BACK TO WAP DEVICE ABOVE CEILING.
O. REMOVE ALL EXISTING WIRING DEVICES IN CLASSROOMS AND PREPARE TO REPLACE WITH NEW.
P. REMOVE WIRELESS ACCESS POINT DEVICES IN ALL CLASSROOMS AND RETURN TO OWNER. COIL DATA CABLE CONNECTED TO WAP AND LEAVE ABOVE CEILING.
Q. DEMOLISH WIRE FEEDING DEMOLISHED RECEPTACLES BACK TO NEAREST ACCESSIBLE JUNCTION BOX. CONFIRM JUNCTION BOX WILL BE ACCESSIBLE POST CONSTRUCTION.
R. REFER TO SHEET E-501 FOR DEMOLITION NOTES SCHEDULE FOR ADDITIONAL DEMOLITION INFORMATION.

SHEET DEMO PLAN NOTES

1 DEMOLISH PROJECTOR AND PROJECTOR MOUNT. RETURN PROJECTOR TO OWNER AFTER REMOVAL. DEMOLISH WIRE AND CONDUIT BACK TO NEAREST JUNCTION BOX.
2 REMOVE ALL LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THIS AREA.
3 DEMOLISH WIRE FROM MECHANICAL UNIT BACK TO SOURCE. PREPARE EXISTING CONDUIT TO BE RE-USED AS POSSIBLE FOR NEW CIRCUITRY.



1 FIRST FLOOR POWER DEMO PLAN - UNIT C
1/8" = 1'-0"
0 4' 8' 16'

FIELD VERIFY
EXISTING ELECTRICAL EQUIPMENT, LIGHTING FIXTURES AND DEVICE INFORMATION WAS OBTAINED FROM EXISTING DRAWINGS AND CURSORY FIELD OBSERVATION. AS-BUILT DRAWINGS WERE NOT AVAILABLE FOR ALL SPACES INCLUDED IN THE SCOPE OF THE PROJECT. CERTAIN INFORMATION CONCERNING THE LOCATION, MOUNTING, AND PLACEMENT OF ELECTRICAL EQUIPMENT, DEVICES, AND LIGHTING FIXTURES MUST BE VERIFIED IN THE FIELD TO DETERMINE EXACT LOCATIONS, SIZING, AND ANY OTHER PERTINENT INFORMATION. THE EC MUST VERIFY PRIOR TO CONSTRUCTION AND NOTE ANY CONFLICTS BETWEEN PLANS AND ACTUAL CONDITIONS IMMEDIATELY TO DESIGN TEAM FOR VERIFICATION, CORRECTION, OR REVIEW. ANY ISSUES DUE TO LACK OF COORDINATION ON FRONT END OF PROJECT TO BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

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REVISIONS:

#	Date	Desc.
2.	04/26/2022	Addendum #2

100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: KTS

FIRST FLOOR ELECTRICAL DEMO PLAN - UNIT C

N
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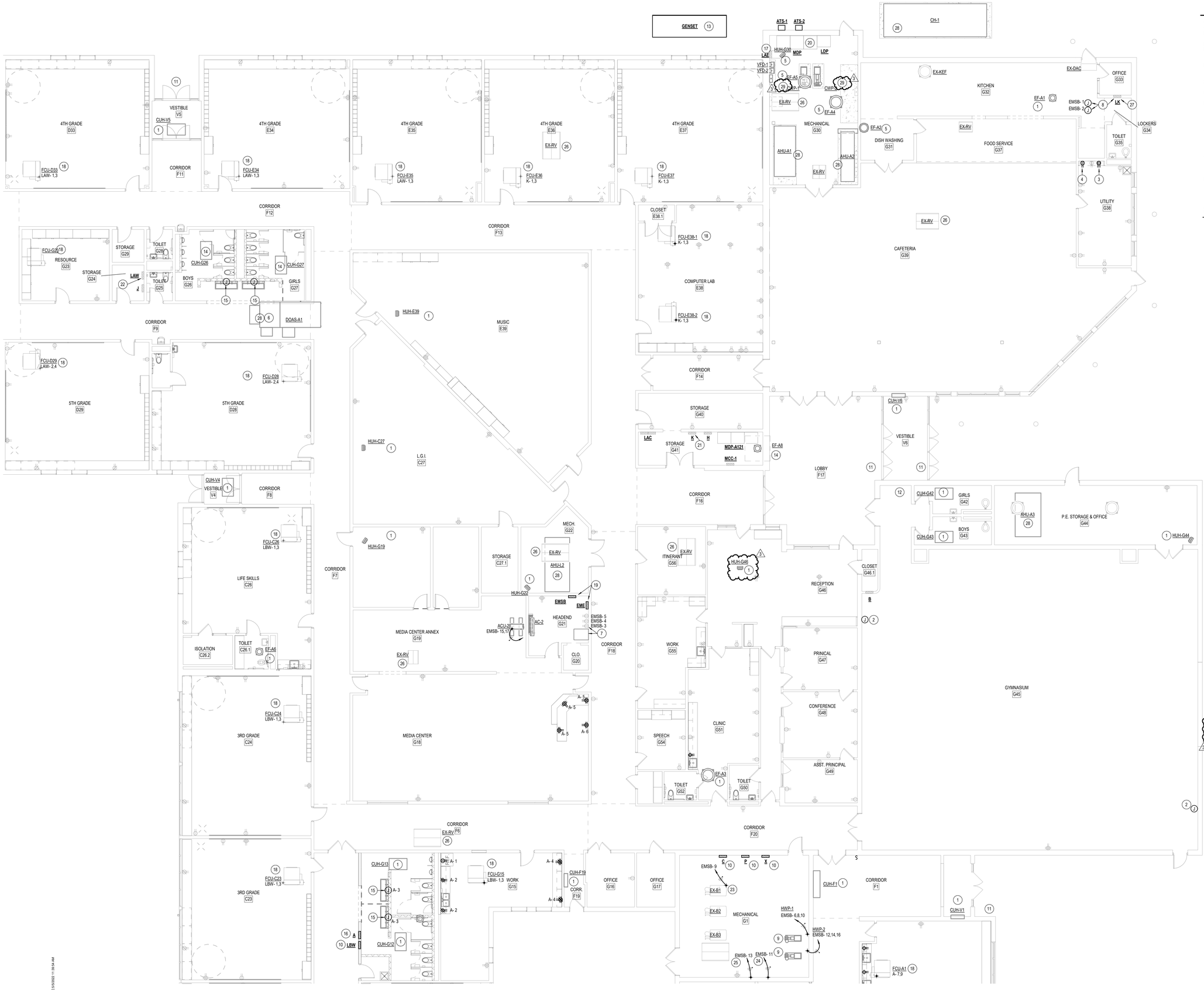
ED101C

PLOT DATE/TIME:5/4/2022 7:43:59 AM



1 FIRST FLOOR POWER PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

GENERAL SHEET NOTES

A. SEE SHEET E-000 FOR SYMBOLS AND ABBREVIATIONS.
B. SEE SHEET E-401 FOR ONE-LINE DIAGRAM.
C. SEE SHEET E-502 FOR MOTORIZED EQUIPMENT SCHEDULE AND PANEL SCHEDULES.
D. SEE SHEETS E-601 AND E-602 FOR ELECTRICAL DETAILS.
E. WIRING SYSTEM SHALL BE CONDUIT AND CONDUCTOR UNLESS NOTED OTHERWISE. USE SOLID CONDUCTOR FOR SIZE #10 AWG AND SMALLER. USE STRANDED CONDUCTOR FOR LARGER SIZES.
F. ALL COVER PLATES FOR ELECTRICAL DEVICES SHALL BE OF A COLOR TO MATCH THE AREA COLOR SCHEME AS DIRECTED BY THE INTERIOR DESIGNER.
G. ALL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES PERTAINING TO THE WORK IN THIS PROJECT.
H. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO BUILDING LINES.
I. REFER TO ARCHITECTURAL DRAWINGS FOR DESIGNATION AND LISTING OF FIRE RATED ASSEMBLIES. COORDINATE ALL DESIGN EFFORTS WITH FIRE RESISTANCE OF MATERIALS AND CONSTRUCTION.
J. ALL EXTERIOR EQUIPMENT AND DEVICES SHALL BE WEATHER PROOF AND RAIN TIGHT.
K. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INTERCONNECT WIRING FOR MECHANICAL AND PLUMBING EQUIPMENT FURNISHED BY OTHERS.
L. REPLACE ALL WIRING DEVICES AND COVER PLATES IN CLASSROOMS WITH NEW.
M. CONNECT NEW WIRING DEVICES IN CLASSROOMS TO NEAREST AVAILABLE CIRCUIT WITH AVAILABLE AMPACITY UNLESS OTHERWISE NOTED. SURFACE MOUNT NEW DEVICES AS REQUIRED. WIREMOLD 4000 SERIES RACEWAY OR APPROVED EQUIVALENT.
N. DASHED CIRCLES AND X'S DENOTE PRIMARY AND SECONDARY TEACHER'S DESK LOCATIONS. CIRCLE IS PRIMARY LOCATION AND 'X' IS SECONDARY LOCATION. POWER IS REQUIRED AT THESE LOCATIONS AS SHOWN.

SHEET PLAN NOTES

1 EXTEND EXISTING CIRCUITRY AS REQUIRED FROM DEMOLISHED MECHANICAL UNIT TO CONNECT TO NEW UNIT.
2 SCOREBOARDS: PROVIDE POWER FOR (2) LED SCOREBOARDS PER MANUFACTURERS INSTRUCTIONS. CONFIRM EXACT LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
3 FURNISH AND INSTALL 14-30R TYPE RECEPTACLE FOR DRYER. POWER FROM NEW 30A/2P 208V BREAKER IN PANEL LK.
4 FURNISH AND INSTALL DEDICATED 20A RECEPTACLE FOR WASHER. POWER FROM SPARE 20A/1P 120V BREAKER IN PANEL LK.
5 RECONNECT EXISTING CIRCUITRY TO NEW MECHANICAL UNIT.
6 EQUIPMENT IS LOCATED ON ROOF. CONNECT NEW UNIT TO EXISTING CIRCUITRY. EXTEND CIRCUITRY AS REQUIRED. MATCH EXISTING WIRE SIZE.
7 EXISTING I.T. EQUIPMENT TO BE POWERED BY NEW STANDBY POWER PANEL EMSB. PROVIDE (3) DEDICATED 120V/1P CIRCUIT TO EQUIPMENT. NEW RECEPTACLES ARE SHOWN FOR REFERENCE. POWER EXISTING EQUIPMENT AND RECEPTACLES AS REQUIRED.
8 KITCHEN FREEZER & REFRIGERATOR TO BE POWERED BY NEW STANDBY POWER PANEL. DISCONNECT FREEZER AND REFRIGERATOR FROM PANEL LK AND CONNECT TO PANEL EMSB. MATCH EXISTING CIRCUIT SIZE. COORDINATE SPECIFIC FRIDGE AND FREEZER WITH OWNER.
9 PUMP TO BE POWERED BY NEW STANDBY POWER PANEL EMSB. SEE MOTORIZED EQUIPMENT SCHEDULE FOR CIRCUIT SIZING.
10 REPLACE DEMOLISHED PANELBOARD. MATCH EXISTING BREAKER SIZES. PANEL CONTAINS 8 SPARE 20A/1P BREAKERS. USE SPARES TO FEED NEW FAN COIL UNITS AS REQUIRED. EXTEND FEEDER AS REQUIRED WITH SAME WIRE SIZE. RECONNECT EXISTING CIRCUITRY TO NEW PANELBOARD. SEE PANELBOARD SIZES ON E-401.
11 PROVIDE 120V/1PH CIRCUIT TO DOOR CONTROLLER FOR DOOR FROM NEAREST AVAILABLE 120V CIRCUIT WITH AVAILABLE AMPACITY. MINIMUM WIRE SIZE #12.
12 PROVIDE DEDICATED 120V/1P CIRCUIT FROM PANEL B TO ADA PUSHBUTTONS. MINIMUM WIRE SIZE #12.
13 SEE E-401 FOR GENERATOR SIZE AND RATIGS. GENERATOR TO BE CONNECTED TO NATURAL GAS UTILITY. PROVIDE 60A/3P CIRCUIT TO GENERATOR FROM PANEL LAE IN MECHANICAL ROOM. WIRE SIZE TO BE #6 W/ #10 GND IN 1"C.
14 PROVIDE 120V/1P EQUIPMENT FROM NEAREST AVAILABLE UNSWITCHED CIRCUIT WITH AVAILABLE AMPACITY. MINIMUM WIRE SIZE #12.
15 PROVIDE 120V/1P CIRCUIT TO LAVATORY STATION. COORDINATE FINAL JUNCTION BOX LOCATION WITH LAVATORY SHOP DRAWINGS. MINIMUM WIRE SIZE #12.
16 REPLACE DEMOLISHED PANELBOARD. MATCH EXISTING BREAKER SIZES. EXTEND FEEDER AS REQUIRED WITH SAME WIRE SIZE. RECONNECT EXISTING CIRCUITRY TO NEW PANELBOARD. NOTE NEW CIRCUITS REQUIRED IN WORK ROOM G15.
17 FURNISH AND INSTALL 60A/3P BREAKER IN PANEL LAE FOR GENERATOR ON-BOARD PANEL.
18 PROVIDE 208V/1P CIRCUIT TO UNIT FROM NEAREST AVAILABLE PANEL. NEW BREAKERS TO BE INSTALLED IN PANELS TO ACCOMODATE 208V/1P UNITS. MINIMUM WIRE SIZE 2#12 W/ #12 GND IN 3/4" CONDUIT. RE-USE EXISTING CONDUIT AS POSSIBLE. NEW FAN COIL UNITS HAVE LARGER HORSEPOWER THAN EXISTING DEMOLISHED UNITS. (4) FAN COIL UNITS PER 20A, 208V/1P CIRCUIT BREAKER. PANEL AND CIRCUIT NUMBERING ARE SHOWN FOR SUGGESTED GROUPING PURPOSES ONLY.
19 FURNISH AND INSTALL NEW EMERGENCY EGRESS AND EMERGENCY STANDBY PANELS. SEE E-502 FOR PANEL SCHEDULES.
20 FURNISH AND INSTALL SWITCHED BUCKETS IN MDP FOR PANEL EME AND EMSB. SEE E-401 FOR SWITCH AND FUSE SIZING. CORE WALL AS REQUIRED TO CONNECT TO AUTOMATIC TRANSFER SWITCHES.
21 FURNISH AND INSTALL NEW 20A, 208V/1P BREAKERS IN PANEL TO FEED NEW FAN COIL UNITS. ADJUST BREAKERS IN PANEL AS REQUIRED TO FIT NEW BREAKERS. (4) FAN COIL UNITS PER BREAKER. PANEL CONTAINS 4 SPARES/SPACES.
22 FURNISH AND INSTALL NEW 20A, 208V/1P BREAKERS IN PANEL TO FEED NEW FAN COIL UNITS. ADJUST BREAKERS IN PANEL AS REQUIRED TO FIT NEW BREAKERS. (4) FAN COIL UNITS PER BREAKER. PANEL CONTAINS 2 SPARES/SPACES.
23 EXISTING BOILER TO BE POWERED BY NEW STANDBY POWER PANEL EMSB. MINIMUM WIRE SIZE 2#12 W #12 GND IN 3/4" C.
24 PROVIDE CIRCUIT TO NEW HOT WATER CONTROL PANEL FROM PANEL EMSB. COORDINATE FINAL CONTROL PANEL LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR. MINIMUM WIRE SIZE 2#12 W #12 GND IN 3/4" C.
25 PROVIDE CIRCUIT TO NEW BUILDING AUTOMATION SYSTEM CONTROL PANEL FROM PANEL EMSB. COORDINATE FINAL CONTROL PANEL LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR. MINIMUM WIRE SIZE 2#12 W #12 GND IN 3/4" C.
26 PROVIDE 120V/1P CIRCUIT FROM NEAREST AVAILABLE UNSWITCHED CIRCUIT WITH AVAILABLE AMPACITY FOR NEW MOTORIZED GRAVITY DAMPER ON ROOF. COORDINATE GRAVITY DAMPER REPLACEMENT WITH MECHANICAL CONTRACTOR. MINIMUM WIRE SIZE #12.
27 FURNISH AND INSTALL NEW 30A/2P 208V BREAKER TO FEED NEW DRYER IN UTILITY G38.
28 FURNISH AND INSTALL NEW BREAKER SIZED ACCORDING TO MOTORIZED EQUIPMENT SCHEUDLE ON E-502 ON PANEL WHICH SERVES UNIT. RECONNECT EXISTING FEEDER TO NEW MECHANICAL UNIT. EXTEND CIRCUITRY AS REQUIRED.
29 FURNISH AND INSTALL NEW CIRCUITRY TO CHILLED WATER PUMP. FURNISH AND INSTALL NEW BREAKER IN PANEL FEEDING CHILLED WATER PUMP. SEE MOTORIZED EQUIPMENT SCHEDULE ON E-502 FOR BREAKER AND WIRE SIZING.

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REVISIONS:

#	Date	Desc.
1	04/20/2022	Addendum #1
2	04/26/2022	Addendum #2
3	05/13/2022	Addendum #3

100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: KTS

FIRST FLOOR POWER PLAN - UNIT A

N
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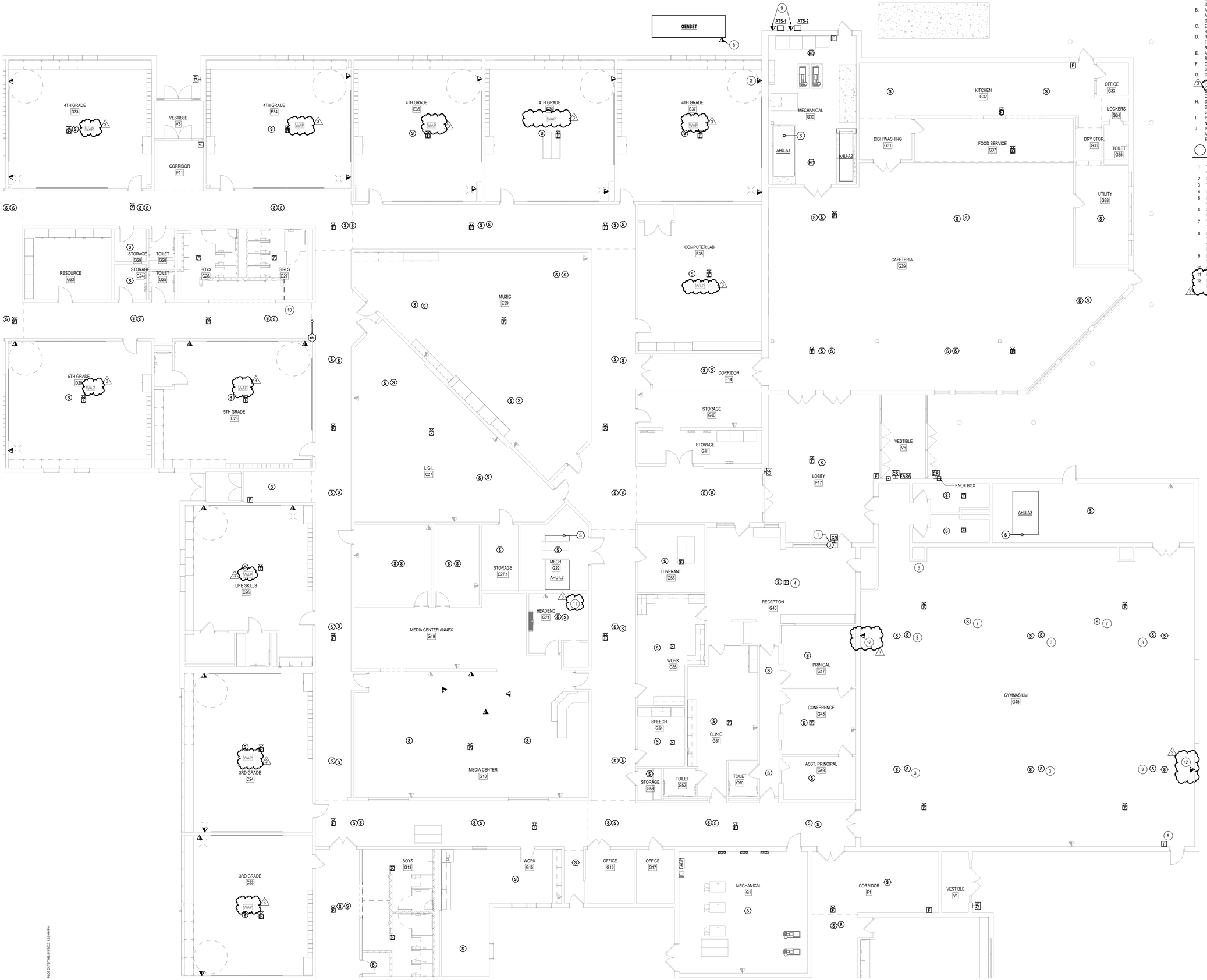
EP101A

PLOT DATE/TIME: 5/9/2022 11:39:54 AM



GENERAL SHEET NOTES

A. ALL COVER PLATES FOR ELECTRICAL DEVICES SHALL BE OF A COLOR TO MATCH THE AREA COLOR SCHEME AS DIRECTED BY THE INTERIOR DESIGNER.
B. ALL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES PERTAINING TO THE WORK IN THIS PROJECT. WHEN DISCREPANCIES ARRISE, THE MOST STRINGENT CODE SHALL APPLY.
C. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO BUILDING LINES.
D. REFER TO ARCHITECTURAL DRAWINGS FOR DESIGNATION AND LISTING OF FIRE RATED ASSEMBLIES. COORDINATE ALL DESIGN EFFORTS WITH FIRE RESISTANCE OF MATERIALS AND CONSTRUCTION.
E. ALL EXTERIOR EQUIPMENT AND DEVICES SHALL BE WEATHER PROOF AND RAIN TIGHT.
F. COLOR CODING AS PER OWNERS STANDARDS. COORDINATE AT TIME OF SUBMITTAL.
G. CONTRACTOR TO RUN DATA CABLE FROM NEW DATA OUTLETS TO [illegible] ACCESS POINT LOCATION ABOVE CEILING. (2) DATA CABLES PER OUTLET, COIL AND SECURE CABLE AS REQUIRED. [illegible] ACCESS POINTS IN CLASSROOMS AND CONNECT NEW DATA CABLE TO WAP.
H. DASHED CIRCLES AND X'S DENOTE PRIMARY AND SECONDARY TEACHER'S DESK LOCATIONS. CIRCLE IS PRIMARY LOCATION AND 'X' IS SECONDARY LOCATION. DATA OUTLET IS REQUIRED AT THESE LOCATIONS.
I. INTERCOM SPEAKERS SHOWN ON PLANS ARE TYPE 2 UNLESS OTHERWISE NOTED.
J. INTERCOM SPEAKERS AND FIRE ALARM DEVICES SHOWN ON PLANS ARE APPROXIMATED. CONTRACTOR TO FIELD VERIFY LOCATION AND COUNT OF EXISTING DEVICES TO BE REPLACED.

SHEET PLAN NOTES

1 VIDEO INTERCOM: REPLACE EXISTING AIPHONE WITH SYSTEM THAT MATCHES OR EXCEEDS AIPHONE SPECIFICATIONS.
2 FURNISH AND INSTALL DATA OUTLET ADJACENT TO TEACHERS DESK LOCATION.
3 TYPE 2 SPEAKER FOR GYMNASIUM AUDIO SYSTEM.
4 INTERCOM: PROVIDE "PANIC" BUTTON IN ADMIN AREA.
5 FIRE ALARM: FIRE ALARM PULL STATION TO BE PROVIDED WITH PROTECTIVE COVER.
6 SOUND SYSTEM RACK LOCATION. INSTALL NEW SOUND RACK IN PLACE OF EXISTING SOUND RACK. RETURN EXISTING SOUND EQUIPMENT TO OWNER.
7 TYPE 1 SPEAKER FOR GYMNASIUM SOUND SYSTEM SUSPENDED AT FREE THROW LINE OF BASKETBALL COURT.
8 PROVIDE DATA CABLE TO GENSET FROM MDF FOR MONITORING CONNECTIVITY. VERIFY DATA CABLE REQUIREMENTS WITH MANUFACTURERS SPECIFICATIONS. GENSET TO BE MONITORED BY BUILDING AUTOMATION SYSTEM. PROVIDE PROVISIONS FOR MONITORING GENERATOR WITH BAS.
9 PROVIDE DATA CABLE TO ATS FROM MDF FOR MONITORING CONNECTIVITY. VERIFY DATA CABLE REQUIREMENTS WITH MANUFACTURERS SPECIFICATIONS.
10 [illegible]
11 MDF ROOM
12 INSTALL DATA OUTLET AT SCOREBOARD HEIGHT. CABLE TO BE RUN TO SOUND RACK AT PLAN NOTE 6.

1 FIRST FLOOR TECHNOLOGY PLAN - UNIT A
1/8" = 1'-0"

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REVISIONS:

#	Date	Desc.
3	05/3/2022	Addendum #3

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CDG PROJECT: #21102B
DATE: 04.06.2022
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FIRST FLOOR TECHNOLOGY PLAN - UNIT A

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ET101A

PLOT DATE/TIME:5/3/2022 1:55:41 PM

GENERAL SHEET NOTES

A. ALL COVER PLATES FOR ELECTRICAL DEVICES SHALL BE OF A COLOR TO MATCH THE AREA COLOR SCHEME AS DIRECTED BY THE INTERIOR DESIGNER.
B. ALL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES PERTAINING TO THE WORK IN THIS PROJECT. WHEN DISCREPANCIES ARRISE, THE MOST STRINGENT CODE SHALL APPLY.
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SHEET PLAN NOTES

1. UNIT IS ON ROOF.
2. IDF ROOM.

1 FIRST FLOOR TECHNOLOGY PLAN - UNIT B
1/8" = 1'-0"

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FIRST FLOOR TECHNOLOGY PLAN - UNIT B

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PLOT DATE/TIME:5/3/2022 11:39:56 AM

GENERAL SHEET NOTES

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F. COLOR CODING AS PER OWNERS STANDARDS. COORDINATE AT TIME OF SUBMITTAL.
G. CONTRACTOR TO RUN DATA CABLE FROM NEW DATA OUTLETS TO ~~CONVENIENT~~ WAP ACCESS POINT LOCATION ABOVE CEILING. (2) DATA CABLES PER OUTLET. COIL AND SECURE CABLE AS REQUIRED. ~~OTHER WAP LOCATIONS~~ ACCESS POINTS IN CLASSROOMS AND CONNECT NEW DATA CABLE TO WAP.
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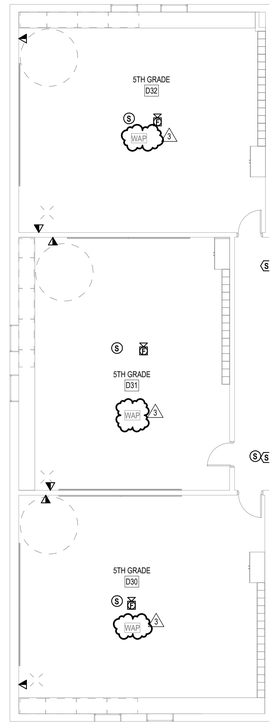

1 FIRST FLOOR TECHNOLOGY PLAN - UNIT C
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REGISTERED
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PROFESSIONAL ENGINEER
04.06.22

REVISIONS:

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3	05/3/2022	Addendum #3

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CDG PROJECT: #21102B
DATE: 04.06.2022
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FIRST FLOOR TECHNOLOGY PLAN - UNIT C

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PLOT DATE/TIME: 5/3/2022 11:38:06 AM

MOTORIZED EQUIPMENT SCHEDULE

TAG	QUAN	FURN. BY	HP	AMPS	KW	VOLT	PHASE	STARTER DATA TYPE	STARTER DATA NEMC. ENCL	STARTER DATA CONTROLS	STARTER DATA BY	DISCONNECT SWITCH TYPE	DISCONNECT SWITCH NEMA ENCL	DISCONNECT SWITCH BY	CONTROLS TYPE	CONTROLS BY	REMARKS	FEEDER	PANEL/CIRCUIT BREAKER
AC-1		MC	--	23	4.784	208	1					UNIT MTD	3R	MF	MA	MF		EXISTING	DISCONNECT/RECONNECT
AHU-A1		MC	--	21.8	7.848	208	3	VFD			MC	INTEGRAL	--	MF				EXISTING	35A/3P
AHU-A2		MC	--	10	3.600	208	3	VFD			EC	30A/3P	3R	EC				EXISTING	15A/3P
AHU-A3		MC	--	23	8.280	208	3	VFD			EC	40A/3P	3R	EC				EXISTING	40A/3P
AHU-L2		MC	--	21.8	7.848	208	3	VFD			MC	INTEGRAL	--	MF				EXISTING	35A/3P
CH-1		MC	--	959	345	208	3	VFD			MC	INTEGRAL	3R	MF	CP	MC		3#500 W/ #2/0 GND IN 4"C	1000A/3P
CUH-F1		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-F19		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G2		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G4		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G12		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G13		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G26		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G27		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G42		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-G43		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-V1		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-V2		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-V3		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-V4		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-V5		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CUH-V6		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	CP	MC		EXISTING	DISCONNECT/RECONNECT
CWP-1		MC	25	78.2	28.139	208	3					200A/3P	1	EC				3#2 w/ #6 GND IN 1-1/2"C	110/3P
CWP-2		MC	25	78.2	28.139	208	3					200A/3P	1	EC				3#2 w/ #6 GND IN 1-1/2"C	110/3P
DOAS-A1		MC	--	87.2	31.392	208	3					UNIT MTD	--	MF				EXISTING	90A/3P
DOAS-B1		MC	--	95.4	34.344	208	3					UNIT MTD	--	MF				EXISTING	100A/3P
DOAS-B2		MC	--	87.2	31.392	208	3					UNIT MTD	--	MF				EXISTING	90A/3P
EF-A1		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-A2		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-A3		MC	1/15	1.62	0.194	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-A4		MC	1/3	7.2	0.864	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-A5		MC	1/15	1.62	0.194	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-A6		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-A7		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-A8		MC	--	0.17	0.0204	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
EF-B1		MC	1/4	5.8	0.696	120	1					INTEGRAL	--	MF	BMS	EXISTING		EXISTING	DISCONNECT/RECONNECT
FCU-A1		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-A2		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-A3		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-A4		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-A5		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-A6		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-A7		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-B8		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-B9		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-B10		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-B11		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-B12		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-B13		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-B14		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C15		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C16		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C17		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C18		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C19		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C20		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C21		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C22		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C23		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C24		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-C26		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-D28		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-D29		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-D30		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-D31		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-D32		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-D33		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-E34		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-E35		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-E36		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-E37		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-E38-1		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-E38-2		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-G15		MC	1/4	3.6	0.748	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
FCU-G23		MC	1/6	2.25	0.468	208	1					INTEGRAL	--	MF				2#12 w/ #12 GND IN 3/4"C	20A/2P
HUH-G22		MC	1/12	1.9	0.228	120	1					INTEGRAL	--	MF				EXISTING	DISCONNECT/RECONNECT
HUH-G30		MC	1/8	2.9	0.348	120	1					INTEGRAL	--	MF				EXISTING	DISCONNECT/RECONNECT
HUH-G44		MC	1/8	2.9	0.348	120	1					INTEGRAL	--	MF				EXISTING	DISCONNECT/RECONNECT
HWP-1		MC	15	48.3	17.4	208	3					100A/3P	1	EC				3#3 W/ #8 GND IN 1-1/4" C	90A/3P
HWP-2		MC	15	48.3	17.4	208	3					100A/3P	1	EC				3#3 W/ #8 GND IN 1-1/4" C	90A/3P

AS	AQUA SWITCH	MSS	MANUAL MOTOR STARTER
AUX	AUXILIARY CONTACTS	NA	NOT APPLICABLE
CB	CIRCUIT BREAKER	NF	NON-FUSED
CM	COMBINATION MAGNETIC	PB	PUSH BUTTON
CP	CONTROL PACKAGE	PE	PNEUMATIC/ELECTRIC SWITCH
EP	ELECTRIP/PNEUMATIC SWITCH	PL	PILOT LIGHT
ES	END SWITCH	PS	PUMP SEQUENCER
F	FUSED	PEV	REVERSING
FL	FLOW SWITCH	SD	SMOKE DETECTOR
FS	FREEZE STAT	SO	SOLENOID VALVE
HD	HEAT DETECTOR	SS	START/STOP PUSH BUTTON
HOA	HAND/OFF/AUTO SWITCH	T	CONTROL CIRC TRANS (120V)
HS	HUMIDISTAT	TC	TIME CLOCK
INT	INTERLOCKED TO	TS	THERMOSTAT
LL	LEAD-LAG SWITCH	ZS	TWO SPEED
MC	MECHANICAL CONTRACTOR	VFD	VARIABLE FREQUENCY DRIVE
MCC	MOTOR CONTROL CENTER	BMS	BUILDING MANAGEMENT SYSTEM
MF	MANFACTURER		
DS	DOOR SWITCH		

Panel: EME

Location: HEADEND G21 **Supply From:** ATS-1 **Mounting:** Recessed **Enclosure:** Type 1

Volts: 120/208 Wye **Phases:** 3 **Wires:** 4

A.I.C. Rating: 22,000 **Mains Type:** MLO **Mains Rating:** 150 A

Circuit Number	Load Name	Rating	Number of Poles	A	B	C	Number of Poles	Rating	Load Name	Circuit Number
1	EMERGENCY LTG	20 A	1	1200 / 1200			1	20 A	EMERGENCY LTG	2
3	EMERGENCY LTG	20 A	1		1200 / 1200		1	20 A	EMERGENCY LTG	4
5	EMERGENCY LTG	20 A	1			1200 / 1200	1	20 A	EMERGENCY LTG	6
7	EMERGENCY LTG	20 A	1	1200 / 460			1	20 A	EMERGENCY LTG	8
9	SPARE	20 A	1		0 / 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26
27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28
29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30
			Total...	4060 VA	2400 VA	2400 VA				
			Total...	34 A	20 A	20 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	8860 VA	100.00%	8860 VA		
				Total Conn. Load:	8860 VA
				Total Est. Demand:	8860 VA
				Total Conn. Current:	25 A
				Total Est. Demand Current:	25 A

Notes:

Panel: EMSB

Location: HEADEND G21 **Supply From:** ATS-2 **Mounting:** Recessed **Enclosure:** Type 1

Volts: 120/208 Wye **Phases:** 3 **Wires:** 4

A.I.C. Rating: 22,000 **Mains Type:** MLO **Mains Rating:** 150 A

Circuit Number	Load Name	Rating	Number of Poles	A	B	C	Number of Poles	Rating	Load Name	Circuit Number
1	REFRIGERATOR	20 A	1	500 / 500			1	20 A	FREEZER	2
3	EXISTING IT EQUIP	20 A	1		180 / 180		1	20 A	EXISTING IT EQUIP	4
5	EXISTING IT EQUIP	20 A	1			180 / 5796	3	90 A	HWP-1	6
7	DATA CLOSET	20 A	1	360 / 5796			--	--	--	8
9	BLR-1	20 A	1		500 / 5796		--	--	--	10
11	HOT WATER CTRL PANEL	20 A	1			500 / 5796	3	90 A	HWP-2	12
13	B.A.S. CONTROL PANEL	20 A	1	500 / 5796			--	--	--	14
15	ACU-2	20 A	2		0 / 5796		--	--	--	16
17	--	--	--			0 / 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26
27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28
29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30
			Total...	13452 VA	12452 VA	12272 VA				
			Total...	112 A	104 A	102 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	35276 VA	100.00%	35276 VA		
Power	1900 VA	100.00%	1900 VA	Total Conn. Load:	38176 VA
Equipment	1000 VA	100.00%	1000 VA	Total Est. Demand:	38176 VA
O	0 VA	0.00%	0 VA	Total Conn. Current:	106 A
				Total Est. Demand Current:	106 A

Notes:

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LOPER ELEMENTARY RENOVATIONS & ADDITIONS
901 LOPER DRIVE

REVISIONS:

#	Date	Desc.
2	04/26/2022	Addendum #2
3	05/3/2022	Addendum #3

100% CONSTRUCTION DOCUMENTS

CDG PROJECT: #21102B
DATE: 04.06.2022
DRAWN BY: KTS

ELECTRICAL SCHEDULES

N
TRUE NORTH

E-502

PLOT DATE/TIME:5/3/2022 11:46:02 AM