

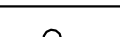










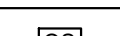
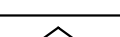



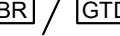



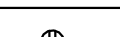
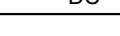

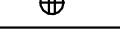




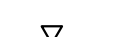
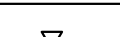
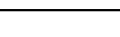


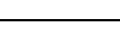

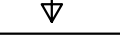


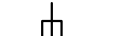

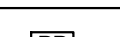
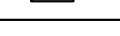


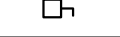



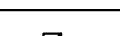

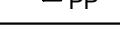
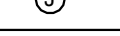




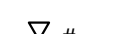
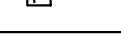
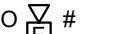
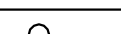
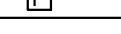
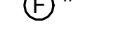
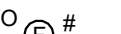
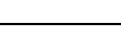
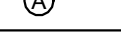
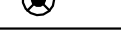
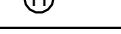
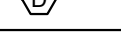
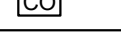
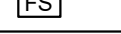
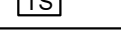
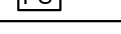
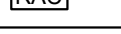



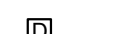

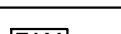

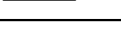
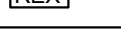




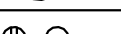
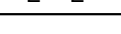
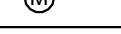





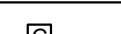
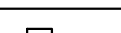
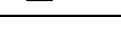
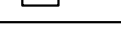
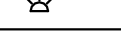



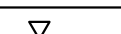
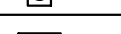
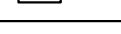
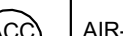
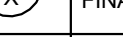
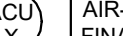
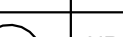
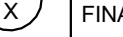
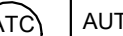

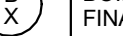
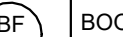
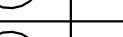
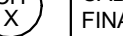
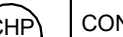
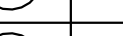
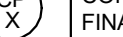
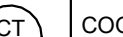
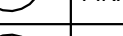
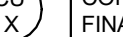
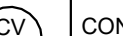
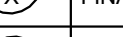
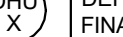
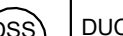
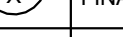
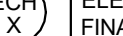

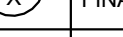
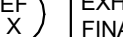
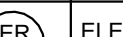
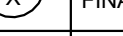
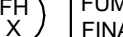
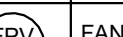
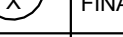
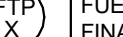
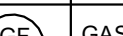
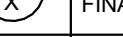
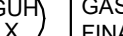
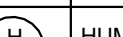

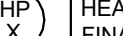
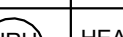


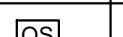
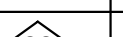
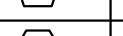
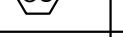
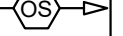
ELECTRICAL LEGEND	
NOTE:	NOT ALL DEVICES SHOWN ON THE LEGEND ARE USED ON THIS PROJECT
	LED LIGHT FIXTURE (UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCHING GROUP)
	LIGHT FIXTURE WITH EMERGENCY LAMP SOCKET
	INCANDESCENT, LED, FLUORESCENT OR H.I.D. LIGHT FIXTURE
	NORMAL-EMERGENCY LIGHT FIXTURE
	EMERGENCY ONLY LIGHT FIXTURE
	WALL SCONCE
	EXIT SIGN
	EMERGENCY BATTERY UNIT
	REMOTE HEAD
	DOUBLE REMOTE HEAD
	POLE-MOUNTED SITE LIGHT FIXTURE
S	SINGLE POLE SWITCH (LOWER CASE LETTER DENOTES GROUP TO BE SWITCHED)
S _D	DIMMER SWITCH
S _{LV}	LOW VOLTAGE SWITCH
S _T	CAPACITIVE TOUCH SCREEN LIGHTING CONTROL PANEL
S ₃	3-WAY SWITCH
S ₄	4-WAY SWITCH
S _F	FAN SWITCH
S _K	KEY SWITCH
S _M	MOMENTARY-CONTACT SWITCH
S _{OR}	VERRIDE SWITCH
S _P	SWITCH WITH PILOT LIGHT
	OCCUPANCY SENSOR (CEILING-MOUNTED)
	DAYLIGHT SENSOR (CEILING-MOUNTED)
	OCCUPANCY SENSOR (WALL-MOUNTED)
	DUAL-TECH OCCUPANCY SENSOR (CORNER-MOUNTED)
	CORRIDOR OCCUPANCY SENSOR
	ULTRASONIC 360° OCCUPANCY SENSOR (CEILING-MOUNTED)
	EMERGENCY LIGHTING RELAY
	OCCUPANCY SENSOR CONTROL POWER PACK
	DIGITAL LIGHTING ROOM CONTROLLER
	DUPLEX CONVENIENCE OUTLET (CT DENOTES COUNTERTOP HEIGHT)
	DUPLEX OUTLET SUSPENDED FROM DROP CORD
	DUPLEX ISOLATED GROUND OUTLET
	DOUBLE DUPLEX (QUADRUPLEX) OUTLET
	QUADRUPLEX ISOLATED GROUND OUTLET
	SPECIAL PURPOSE OUTLET
	RANGE OUTLET, 50AMP 3 WIRE
	TELEPHONE OUTLET (POTS LINE)
	TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
	WALL-MOUNTED TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
	COMPUTER OUTLET (NUMBER DENOTES NUMBER OF JACKS, WHERE NO NUMBER IS SHOWN, PROVIDE TWO JACKS MINIMUM.)
	WIRELESS ACCESS POINT. PROVIDE TWO DATA DROPS IN CEILING OR ON WALL FOR EACH LOCATION INDICATED. FIELD COORDINATE TERMINATION/PLATE TYPE WITH OWNER PROVIDED DEVICE REQUIREMENTS.
	AV INPUT/OUTPUT JACK
	FIBER CONNECTION
	FLATSREEN INPUT/OUTPUT JACK
	TELEVISION CABLE OUTLET
	BLANK PLATE
	SMARTBOARD
	PROJECTOR PLATE
	FLOOR OUTLET - DUPLEX RECEPTACLE, TELEPHONE AND COMPUTER JACK
	MOTOR
	DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED ON DRAWINGS)
	FRACTIONAL HORSEPOWER MANJAL MOTOR STARTER/DISCONNECT
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	MOTOR STARTER
	FRACTIONAL MOTOR STARTER
	POWER POLE
	JUNCTION BOX
	PUSHBUTTON
	START/STOP STATION
	OVERHEAD DOOR OPERATOR (UP, DOWN AND STOP)
	WIRING CONCEALED ABOVE CEILING OR IN WALL. CROSS LINES INDICATE NUMBER OF #12 A.W.G. WIRES IN A 3/4\"
	WIRING CONCEALED BELOW GRADE OR FLOOR
	CIRCUIT HOME RUN WITH CIRCUIT NUMBER INDICATED
	NORMAL-EMERGENCY OR EMERGENCY ONLY BRANCH CIRCUIT WIRING
	PLUG/MOLD
	TRANSFORMER

	FIRE ALARM PULL STATION
	WALL-MOUNTED AUDIOVISUAL FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	WALL-MOUNTED VISUAL-ONLY FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	FIRE ALARM BELL
	CEILING-MOUNTED AUDIOVISUAL FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	CEILING-MOUNTED VISUAL-ONLY FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	CEILING-MOUNTED AUDIO ONLY FIRE ALARM DEVICE.
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	SPRINKLER SYSTEM FLOW SWITCH (BY OTHERS)
	SPRINKLER SYSTEM TAMPER SWITCH (BY OTHERS)
	SPRINKLER SYSTEM PRESSURE SWITCH (BY OTHERS)
	RESCUE ASSISTANCE REMOTE CALL STATION
	RESCUE ASSISTANCE MASTER STATION/ANNUNCIATOR PANEL
	SPRINKLER SYSTEM ELECTRIC MOTOR GONG
	DOORBELL
	DOOR HOLDER - FIRE ALARM SYSTEM
	INDIVIDUAL ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	ZONE ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	CONTROL RELAY ZONE ADDRESSABLE MODULE - FIA SYSTEM
	REQUEST-TO-EXIT DETECTOR
	CLOCK, SPEAKER UNIT
	WALL MOUNTED CLOCK
	DOUBLE FACE CLOCK
	CORD REEL WITH 20A 120V OUTLET
	EXISTING DEVICES TO REMAIN
	MICROPHONE JACK - SOUND SYSTEM
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, WALL-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, WALL-MOUNTED)
	PUBLIC ADDRESS/ INTERCOM VOLUME CONTROL
	2-WAY PUSH TO CALL BUTTON
	INTERCOM DOOR STATION
	INTERCOM MASTER STATION
	MOTION DETECTOR - SECURITY SYSTEM
	CEILING MOUNTED, 360° MOTION DETECTOR
	DOOR MAGNET CONTACT - SECURITY SYSTEM
	SECURITY CAMERA
	ALARM HORN - SECURITY SYSTEM
	ELECTRIC DOOR STRIKE
	CARD READER
	KEY PAD
	RESET KEYSWITCH STATION
	PUSH PLATE
	EMERGENCY OFF PUSH-BUTTON
	EMERGENCY KILLSWITCH
	GAS SOLENOID VALVE

ELECTRICAL ABBREVIATIONS	
A/a	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AFI	ARC FAULT INTERRUPTER RECEPTACLE
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BEpS	BUILDING ENTRANCE PROTECTORS
BKR	BREAKER
CKT.	CIRCUIT
CLG.	CEILING
COND.	CONDUIT
CT	COUNTERTOP
DISC.	DISCONNECT
DN	DOWN
DWG.	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EM.	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER (PROVIDE GROUND FAULT PROTECTION)
EXIST./EX./E	EXISTING
F.A.	FIRE ALARM
G.C.	GENERAL CONTRACTOR
GEN.	GENERATOR
GFI	GROUND FAULT INTERRUPTER RECEPTACLE
GND.	GROUND
H.C.	HEATING CONTRACTOR
HD	HAND DRYER
HWH	HOT WATER HEATER
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX.	MAXIMUM
M.C.	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MIN.	MINIMUM
MTD.	MOUNTED
N/E	NORMAL EMERGENCY
P	POLE
P.C.	PLUMBING CONTRACTOR
PNL.	PANEL
POTS	PLAIN OLD TELEPHONE SERVICE
PTZ	PAN, TILT, ZOOM
S.F.	SQUARE FEET
SW.	SWITCH
TR	TAMPER RESISTANT
TYP.	TYPICAL
U/E	UNDERGROUND ELECTRIC
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

EQUIPMENT TAG LEGEND	
NOTE: NOT ALL TAGS SHOWN ON THE LEGEND ARE USED ON THIS PROJECT	
	AIR-COOLED CHILLER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AIR-COOLED CONDENSOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AIR HANDLING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AUTOMATIC TEMPERATURE CONTROL DAMPER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	BOILER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	BOOSTER FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONSOLE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONDENSATE PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	COOLING TOWER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONDENSING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONSTANT VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	DEHUMIDIFICATION UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	DUCTLESS SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC DUCT COIL - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	EXHAUST FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC RADIATION - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FUME HOOD - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FAN-POWERED VAV BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FUEL TRANSFER PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	GAS FURNACE - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	GAS-FIRED UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HUMIDIFIER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HEAT RECOVERY UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	INFRARED HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	MAKEUP AIR UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	PUMP - SUPPLIED AND INSTALLED BY OTHERS, FINAL CONNECTION BY E.C.
	PACKAGED THRU-WALL A/C UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	RETURN AIR FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ROOFTOP UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	SUPPLY FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	UNIT VENTILATOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	VARIABLE AIR VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	WALL HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	WATER SOURCE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.

ELECTRICAL GENERAL NOTES	
1.	UNLESS OTHERWISE INDICATED, WIRE SIZES SHALL BE AS FOLLOWS: 20A #12, 30A #10, 40A #8, 50A #6, 70A #4, 100A #1.
2.	LIGHTING LAYOUT IS DIAGRAMMATICAL. E.C. SHALL COORDINATE LIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES AND ADJUST AS REQUIRED.
3.	ALL ROOF AND EXTERIOR-MOUNTED, GROUND-FAULT RECEPTACLES SHALL HAVE LOCKABLE "IN-USE" WEATHERPROOF COVERS. IN ADDITION TO THE WEATHERPROOF GFI RECEPTACLES SHOWN ON THE DRAWINGS, THE E.C. SHALL PROVIDE AND INSTALL (5) ADDITIONAL WEATHERPROOF GFI RECEPTACLES TO BE MOUNTED AS DIRECTED IN THE FIELD BY THE OWNER. EACH OF THE RECEPTACLES SHALL HAVE 50' OF BRANCH CIRCUIT WIRING TO CONNECT TO THE NEAREST AVAILABLE RECEPTACLE CIRCUIT. E.C. SHALL ASSUME COMPLETE CONSTRUCTION DURING THE INSTALLATION OF THESE RECEPTACLES.
4.	E.C. SHALL REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
5.	THE E.C. SHALL COORDINATE THE INSTALLATION OF THE DOOR HARDWARE WITH THE G.C. TO INSURE THAT THE DOORS OPERATE PROPERLY. THE E.C. SHALL INCLUDE THE MAGNETIC LOCKS, MAGNETIC DOOR HOLDERS, SECURITY CONTACTS, FIRE DOOR OPERATORS, ETC. PROVIDE ANY NECESSARY INTERFACE DEVICES SUCH AS TRANSFORMERS OR RELAYS AND POWER FEED WIRING AS REQUIRED TO SUIT THE INSTALLATION OR SYSTEM. PROVIDE POWER BRANCH CIRCUIT WIRING FOR ALL ELECTRIC DOOR STRIKES AS REQUIRED.
6.	THE E.C. SHALL PROVIDE A 4" HIGH CONCRETE PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT PROVIDED UNDER THE ELECTRICAL CONTRACT. THIS SHALL INCLUDE SWITCHBOARDS, EMERGENCY GENERATOR, AND OTHER ELECTRICAL FLOOR-MOUNTED EQUIPMENT. THE EQUIPMENT MOUNTED ON THE PADS SHALL CONFORM TO THE SEISMIC REQUIREMENTS.
7.	THE E.C. SHALL NOT INSTALL ANY CONDUITS WITHIN ANY OF THE ELEVATED FLOOR SLABS. ANY CONDUITS INSTALLED BELOW THE SLAB ON GRADE SHALL BE INSTALLED IN THE STONE BASE AND NOT WITHIN THE CONCRETE.
8.	GFI RECEPTACLES SHOWN ON DRAWINGS ARE NOT ALL-INCLUSIVE. E.C. SHALL PROVIDE GFI RECEPTACLES IN KITCHEN, SERVING AREAS, AND WHERE LOCATED WITHIN 6FT OF SINK BASINS AS REQUIRED PER THE NEC. E.C. SHALL ALSO PROVIDE ALL ARC-FAULT, TAMPER RESISTANT, WEATHER-RESISTANT, AND GFI RECEPTACLES WHERE REQUIRED BY THE NEC FOR EACH RECEPTACLE LOCATION SHOWN ON THE DRAWINGS AND AS REQUIRED FOR BUILDINGS TYPE AND OCCUPANCY GROUP.
9.	THE E.C. SHALL VERIFY ROUGH-IN LOCATION FOR ELECTRIC WATER COOLER (EWC) RECEPTACLE WITH P.C. BEFORE DOING ANY WORK. PROVIDE GFI-TYPE BREAKER FOR ALL EWC CIRCUITS.
10.	THE E.C. SHALL INCLUDE IN THE ELECTRICAL BID FOR THE POST-CONSTRUCTION ADJUSTMENT OF THE OCCUPANCY SENSORS AS DIRECTED BY THE ARCHITECT OR OWNER. THIS SHALL INCLUDE ADJUSTMENT OF THE TIME AND SENSITIVITY OF THE DEVICES. ALSO INCLUDE THE COST TO RELOCATE (10) SENSORS UP TO 25' IN ORDER TO ELIMINATE FALSE TRIPPING OF THE SENSORS.
11.	DEVICE MOUNTING HEIGHTS AS FOLLOWS: RECEPTACLES 18" ABOVE FINISHED FLOOR TO CENTER OF BOX CT RECEPTACLES 3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPASH SWITCHES 48" ABOVE FINISHED FLOOR TO TOP OF BOX FIRE ALARM PULL STATIONS THE OPERABLE PART (PULL HANDLE) OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" A.F.F. PANELS 54" TO CENTERLINE FIRE ALARM AV UNITS UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED AUDIOVISUAL OR VISUAL-ONLY DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 84" A.F.F. WALL MOUNTED TELEPHONES 48" ABOVE FINISHED FLOOR TO TOP OF BOX

OCCUPANCY SENSOR SCHEDULE					
SYMBOL	MANUFACTURER	MODEL #	COVERAGE AREA SQ. FT.	SENSOR TYPE	ADDITIONAL REMARKS
	WATTSTOPPER	WS-301	900	INFRARED	WALL MOUNTING
	WATTSTOPPER	DT-200	2000	DUAL TECHNOLOGY	WALL OR CEILING MOUNTING
	WATTSTOPPER	DT-300	1000	DUAL TECHNOLOGY	360° CEILING MOUNTING
	WATTSTOPPER	WT-2255	90 LINEAL FEET	ULTRASONIC	CEILING MOUNTED CORRIDOR SENSOR
	WATTSTOPPER	UT-355-2	1000	ULTRASONIC	CEILING MOUNTED

NOTES: DISABLE SMART SET TECHNOLOGY IN ALL SPACES.

CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO ROUGH-IN

CONTRACTOR RESPONSIBILITY

FLOOR: ELECTRICAL CONTRACTOR TO CUT FLOOR AS REQUIRED BY THE DOCUMENTS AND TO REPAIR FLOOR TO SUBFLOOR LEVEL AND PREPARE A SMOOTH SUBSTRATE FOR FINAL FLOORING FINISH WHEN WORK IS COMPLETE. GENERAL CONTRACTOR TO REMOVE FINISH FLOOR MATERIAL AND TO FLASH PATCH AS REQUIRED TO PREPARE FLOOR SURFACE FOR FLOOR TILE. WHERE EXISTING FLOORING IS REMOVED, GENERAL CONTRACTOR SHALL REMOVE MASTIC AND UNDERLAYMENT TO PROVIDE A LEVEL SUBSTRATE FOR INSTALLATION OF NEW FLOOR BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PREPARE FLOOR AS REQUIRED TO OBTAIN SMOOTH FINISHED SURFACE.

WALLS: ALL WALL OPENINGS IN VISIBLE AREAS OF THE FINAL DESIGN WILL BE PATCHED BY GENERAL CONTRACTOR. FOR ALL OPENINGS IN AREAS NOT VISIBLE IN FINAL DESIGN (I.E. ABOVE CEILINGS) THE MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, AND SPRINKLER CONTRACTOR WILL CUT HOLES AND PATCH FOR THEIR RESPECTIVE SCOPE OF WORK. GENERAL CONTRACTOR TO PATCH WALLS AT EXISTING LIGHT SWITCH LOCATIONS, COORDINATE WITH ELECTRICAL CONTRACTOR.

CEILING: GENERAL CONTRACTOR TO REMOVE ALL CEILING TILES AND GRID AND REINSTALL NEW CEILING AND GRID IN ALL SCOPE OF WORK AREAS AFTER PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, AND SPRINKLER CONTRACTOR WORK IS COMPLETE. EACH TRADE CONTRACTOR SHALL BE REQUIRED TO CUT THEIR OWN CEILING TILES FOR THEIR RESPECTIVE DEVICES.

ROOF: ELECTRICAL CONTRACTOR TO CUT ROOF FOR ELECTRICAL SCOPE TO ROOFTOP EQUIPMENT. GENERAL CONTRACTOR TO SUPPLY AND INSTALL REQUIRED SUPPORTING STEEL AT OPENINGS INCLUDING ROOF DRAINAGE STEEL. ROOFING CONTRACTOR TO PATCH AND FLASH NEW ROOF AROUND ALL PENETRATIONS AND FLASHINGS. GENERAL CONTRACTOR TO PROVIDE TEMPORARY WEATHER PROTECTION AS REQUIRED AT ALL PENETRATIONS AND OPENINGS.

CONCRETE PADS: ELECTRICAL CONTRACTOR TO PROVIDE ALL CONCRETE EQUIPMENT AND MAINTENANCE PADS, EXCEPT WHERE NOTED TO BE BY OTHER CONTRACTOR.

SITE WORK FOR UTILITIES: ELECTRICAL CONTRACTOR TO REMOVE UTILITY POLES, PRIMARY CABLEING, CONDUITS, AND CONCRETE AS SHOWN ON THE CONTRACT DOCUMENTS AND COORDINATE NEW UTILITY SERVICE DROP LOCATION WITH PECO. PROVIDE NEW PRIMARY SERVICE CONDUCTORS, CONDUITS, CONCRETE BASES, TRENCHING, AND BACKFILL TO NEW DROP LOCATION AS SHOWN ON THE CONTRACT DOCUMENTS TO THE EXISTING PECO SECONDARY TRANSFORMER. ELECTRICAL CONTRACTOR TO UTILIZE EXISTING SECONDARY CONDUITS FOR NEW SECONDARY CONDUCTORS FROM EXISTING SECONDARY TRANSFORMER TO GENERATOR TO PROVIDE NEW SECONDARY CABLEING. ELECTRICAL CONTRACTOR TO PROVIDE NEW TELECOM CONDUITS, CONCRETE, TRENCHING, AND BACKFILL FROM UTILITY POLE TO INSIDE BUILDING AS SHOWN ON THE CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR TO PROVIDE NEW CONDUITS, PRACTICES, CONDUIT, TRENCHING, AND BACKFILL FROM EXISTING GENERATOR TO NEW EMERGENCY ELECTRICAL EQUIPMENT INSIDE BUILDING.

SITE WORK FOR LIGHTING: ELECTRICAL CONTRACTOR TO DISCONNECT EXISTING SITE LIGHTING FIXTURES. ELECTRICAL CONTRACTOR TO REMOVE EXISTING LIGHTING POLES AND CONCRETE BASES. ELECTRICAL CONTRACTOR TO REMOVE EXISTING WIRING AND CONDUIT. ELECTRICAL CONTRACTOR TO INSTALL NEW LIGHT FIXTURES, POLES, WIRING, CONDUIT, AND CONCRETE BASES AS PER DRAWINGS.

GENERAL: Prime CONTRACTORS SHALL CUT ALL REQUIRED OPENINGS. GENERAL CONTRACTOR TO PATCH VISIBLE OPENINGS.

REFERENCE SPECIFICATIONS SECTION 011200 – MULTI-CONTRACTOR SUMMARY FOR SCOPE OF WORK.

OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

PHASING PLANS - PHASE 1 - ELECTRICAL

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of documents, including all Drawings, Specifications, and Addenda, for completeness, conflict, omissions, and errors. It is the responsibility of the building All parties relying on these documents represent that they have expertise in the area of their responsibility and are familiar with the applicable industry standards, product requirements and applicable building codes, and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. It is the responsibility of the Architect to certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

Warning: Actual conditions may vary from conditions shown on this drawing. Confirm all information in the field before proceeding with any work and notify the Architect in writing if a variation is discovered.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

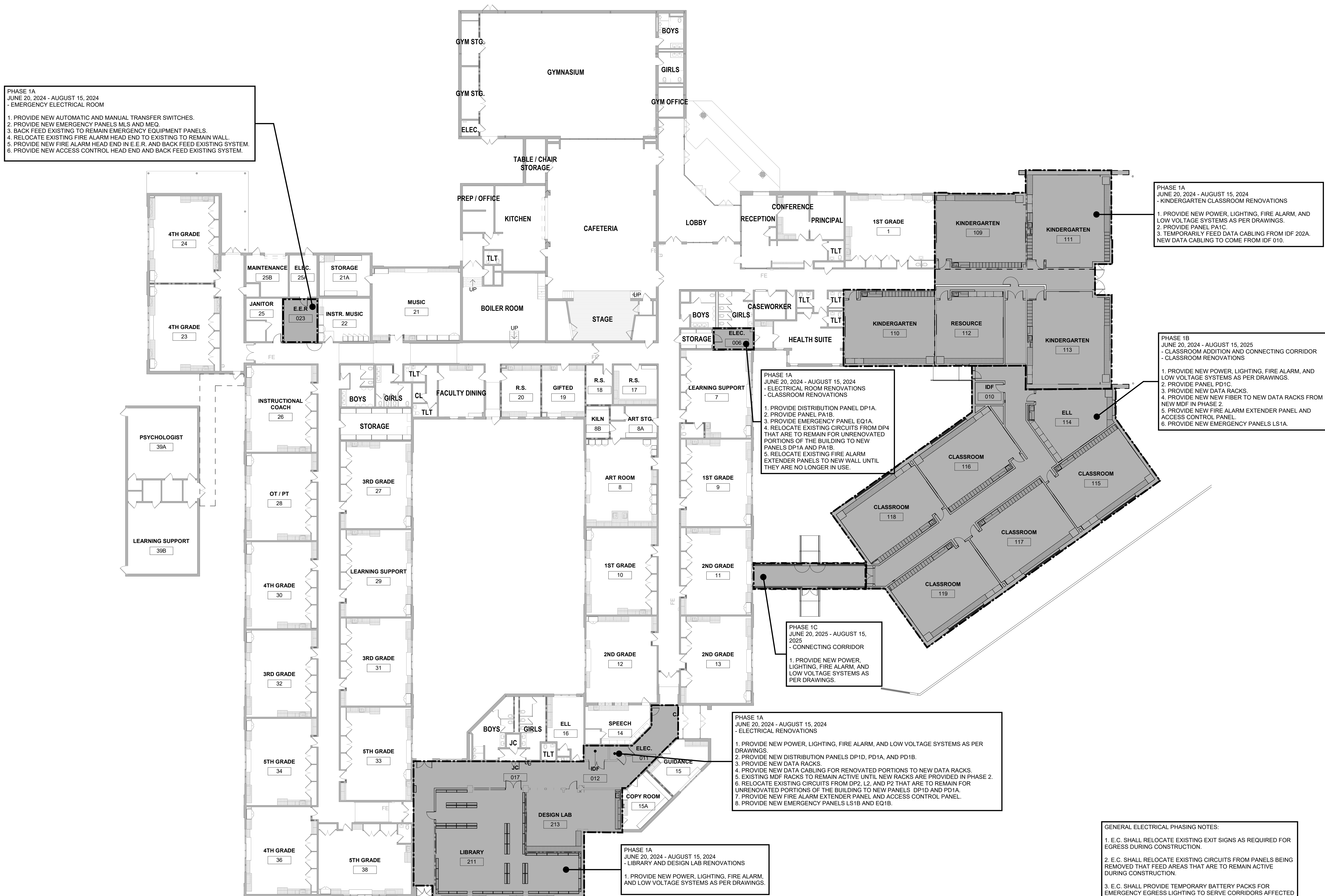
Checked By: DAN

Approved By: RLM

Sheet No.

 $\equiv 0.01$

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GENERAL ELECTRICAL PHASING NOTES

1. E.C. SHALL RELOCATE EXISTING EXIT SIGNS AS REQUIRED FOR EGRESS DURING CONSTRUCTION.
2. E.C. SHALL RELOCATE EXISTING CIRCUITS FROM PANELS BEING REMOVED THAT FEED AREAS THAT ARE TO REMAIN ACTIVE DURING CONSTRUCTION.
3. E.C. SHALL PROVIDE TEMPORARY BATTERY PACKS FOR EMERGENCY EGRESS LIGHTING TO SERVE CORRIDORS AFFECTED BY CONSTRUCTION.
4. E.C. SHALL PROVIDE TEMPORARY BATTERY PACKS FOR EMERGENCY EGRESS LIGHTING TO SERVE EXTERIOR EXIT DOOR LOCATIONS AFFECTED BY CONSTRUCTION.
5. E.C. SHALL PROVIDE TEMPORARY SUPPORTS FOR EXISTING TO REMAIN DISTRIBUTED ANTENNA SYSTEM IN AREAS AFFECTED BY CONSTRUCTION.
6. E.C. SHALL MAINTAIN OPERATION OF THE EXISTING FIRE ALARM SYSTEM THROUGH THE DURATION OF THE RENOVATION.

① PHASING PLAN - PHASE 1 - ELECTRICAL
1/16" = 1'-0"

NOT FOR CONSTRUCTION

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phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

PHASING PLANS - PHASE 2 - ELECTRICAL

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Construction Documents including all Drawings, Specifications, and Addenda, for completeness, conflict, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible regarding interpreting the standards, product requirements and performance requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. By signing and submitting this form, the parties hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

Warning: Actual conditions may vary from conditions shown on this drawing. Confirm all information in the field before proceeding with any work and notify the Architect in writing if a variation is discovered.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

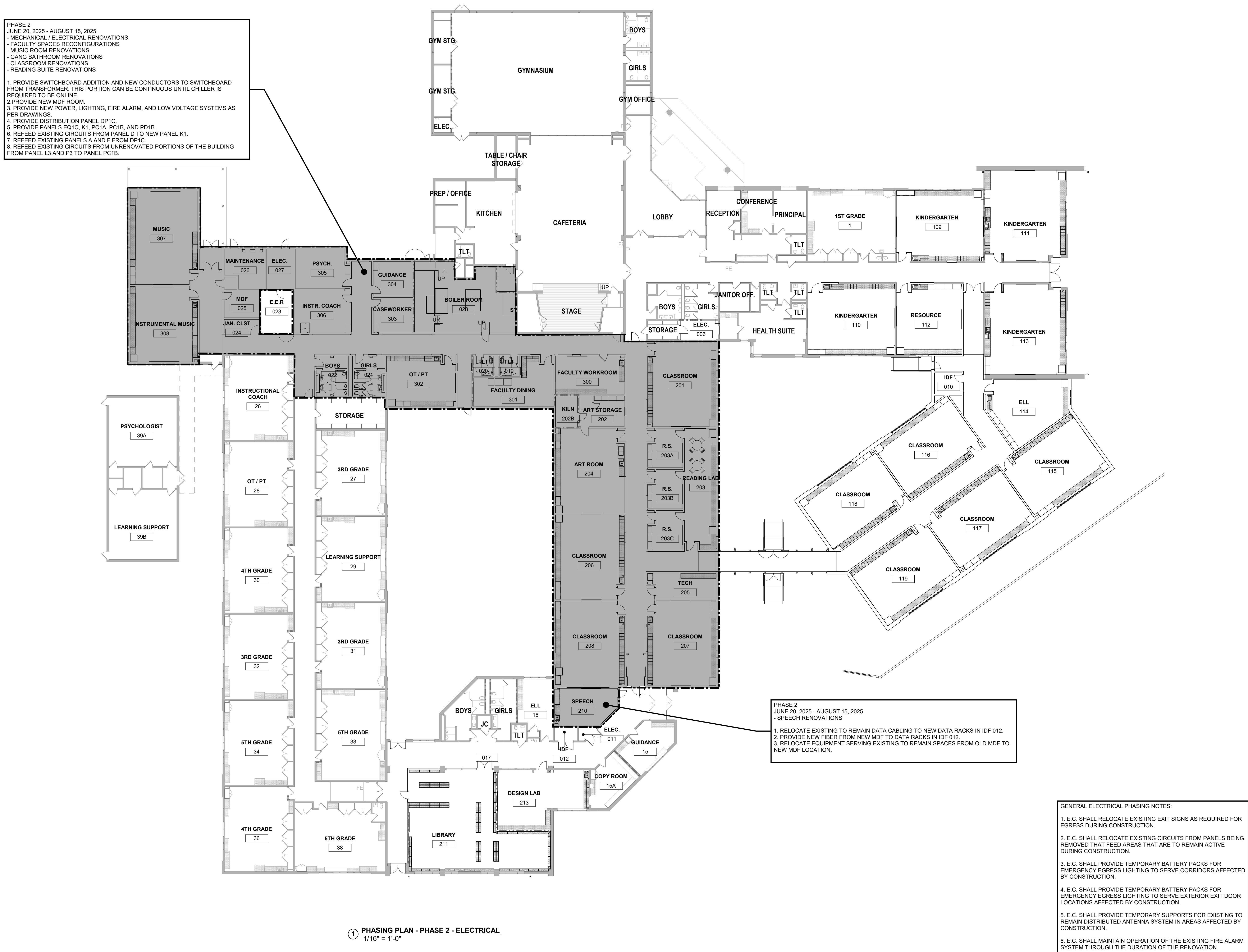
Checked By: DAN

Approved By: RLM

Sheet No. _____

E0.02

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West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

Mary C. Howse
Elementary

Sheet Title:

Seal

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning construction, prepare and submit for inspection the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and shall be able to identify and explain the design, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. The Architect will not be held responsible for any errors or omissions. It is hereby certified that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

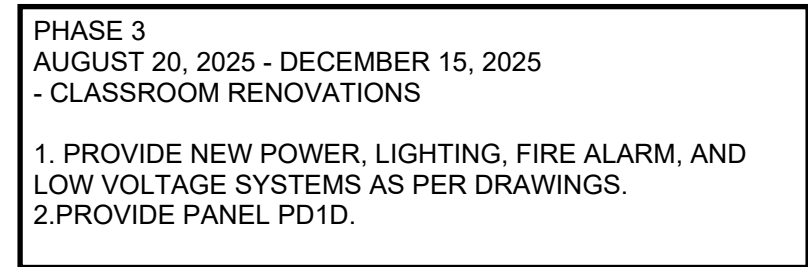
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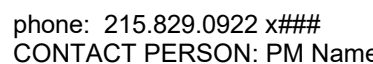
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BHA Job Number:	22-114
Scale:	As indicated
Drawn By:	DJG
Checked By:	DAN
Approved By:	RLM
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OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

PHASING PLANS - PHASE 4 - ELECTRICAL

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of documents, including all Drawings, Specifications, and Addenda, for completeness, conflict, omissions, and errors. It is the responsibility of the building All parties relying on these documents represent that they have expertise in the area of their responsibility and are familiar with the relevant industry standards, product requirements and code relating to the work and are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. It is the responsibility of the Architect to certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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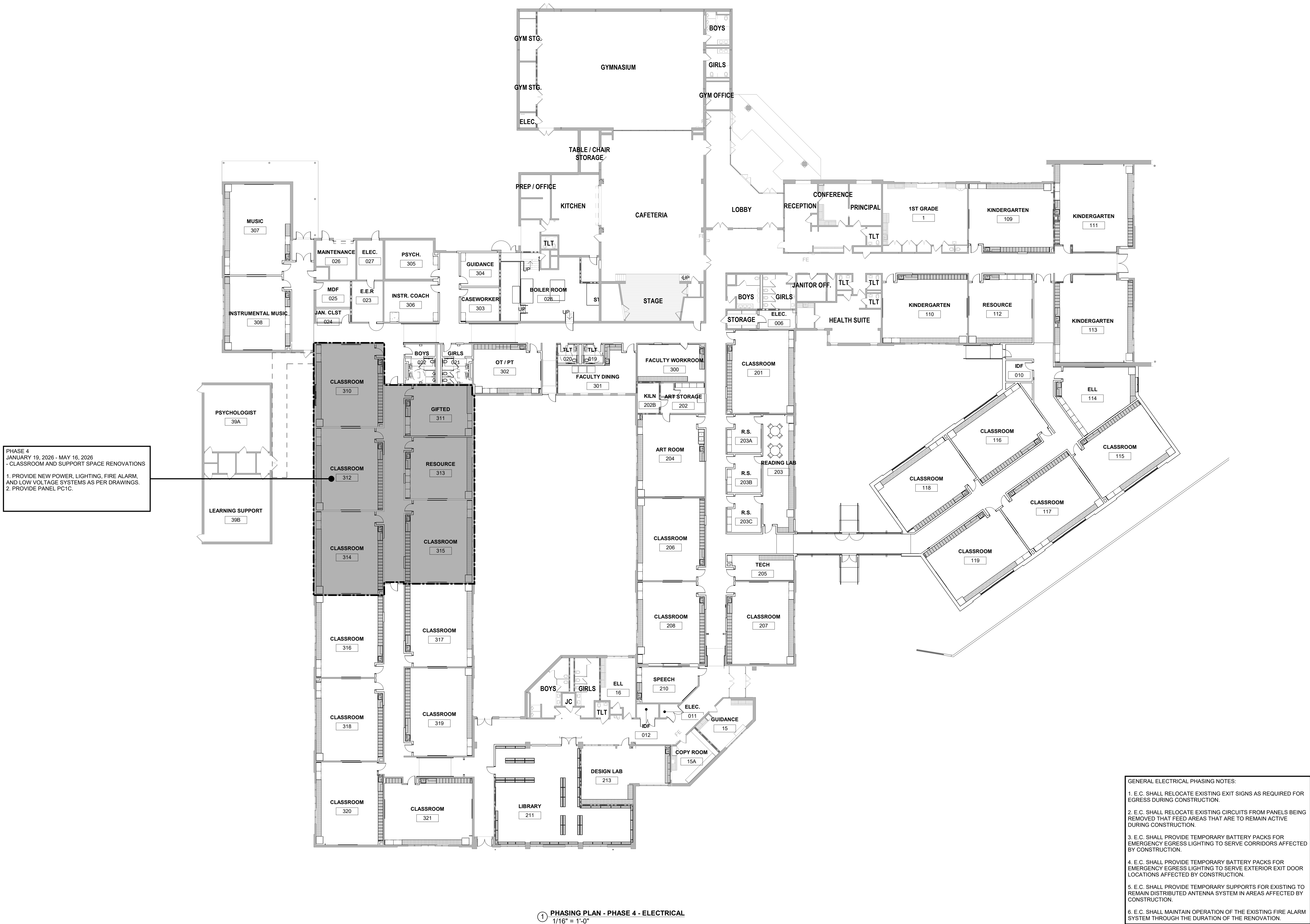
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West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

PHASING PLANS - PHASE 5 - ELECTRICAL

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of these Construction Documents including all Drawings, Specifications, and Addenda, for completeness, conflict, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible regarding interpreting the standards, product requirements and performance requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. By signing these documents, the parties hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

Warning: Actual conditions may vary from conditions shown on this drawing. Confirm all information in the field before proceeding with any work and notify the Architect in writing if a variation is discovered.

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Checked By:	DAN
Approved By:	RLM
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E0.05

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① PHASING PLAN - PHASE 5 - ELECTRICAL
1/16" = 1'-0"

OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

DEMOLITION FLOOR
PLAN - AREA 'A' -
ELECTRICAL

Seal

DEMOLITION NOTES

UNLESS OTHERWISE INDICATED OR NOTED, ALL ELECTRICAL ITEMS SHOWN ARE TO BE REMOVED. THIS INCLUDES, INCLUDING, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS: LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, PANELS, CONDUIT, CABLE TRAYS, AND ALL OTHER ELECTRICAL ITEMS SHOWN ON THIS DRAWING. THIS INCLUDES ANY ASSOCIATED BRANCH CIRCUIT OR LOW VOLTAGE WIRING BACK TO ITS SOURCE. THE E.C. IS ALSO RESPONSIBLE FOR THE REMOVAL OF MOUNTING DEVICES, HANGERS, ETC. ASSOCIATED WITH THIS EQUIPMENT.

AN ATTEMPT HAS BEEN MADE TO SHOW ALL THE LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE JACKS, AND ALL OTHER ELECTRICAL ITEMS ON THE DEMOLITION DRAWINGS. HOWEVER, THE E.C. SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY AND ALL OF THESE COMPONENTS THAT EXIST IN THE FIELD AND ARE IN THE WAY OF THE NEW CONSTRUCTION.

NO WIRING SHALL BE ABANDONED IN PLACE. IT SHALL BE REMOVED. ALL CONDUIT SHALL BE REMOVED EXCEPT WHERE IT IS BURIED IN MASONRY WALLS AND IN OR BELOW FLOOR SLABS. IN SUCH CASES CUT THE ENDS OF THE CONDUIT WITH THE WALL OR FLOOR AND FILL WITH PATCHING MATERIALS TO MATCH ADJACENT SURFACES.

THE E.C. SHALL BE RESPONSIBLE FOR RECONNECTING ANY EXISTING DEVICE WHICH IS TO REMAIN ENERGIZED AND HAS BEEN DISCONNECTED DUE TO THE DEMOLITION. PROVIDE ALL WIRING AND DEVICES NECESSARY TO RECONNECT.

ALL EXISTING EXTERIOR CAMERA LOCATIONS SHALL REMAIN AND BE REWIRED WITH NEW CAT 6A WIRING. INTERIOR CAMERA LOCATIONS SHALL BE DISCONNECTED, LABELED, STORED IN A SAFE LOCATION, AND RECONNECTED WITH NEW CAT 6A WIRING IN THEIR EXISTING LOCATIONS.

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of these documents and drawings, including the Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible for understanding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all questions or proposals regarding industry standards, to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

Checked By: DAN

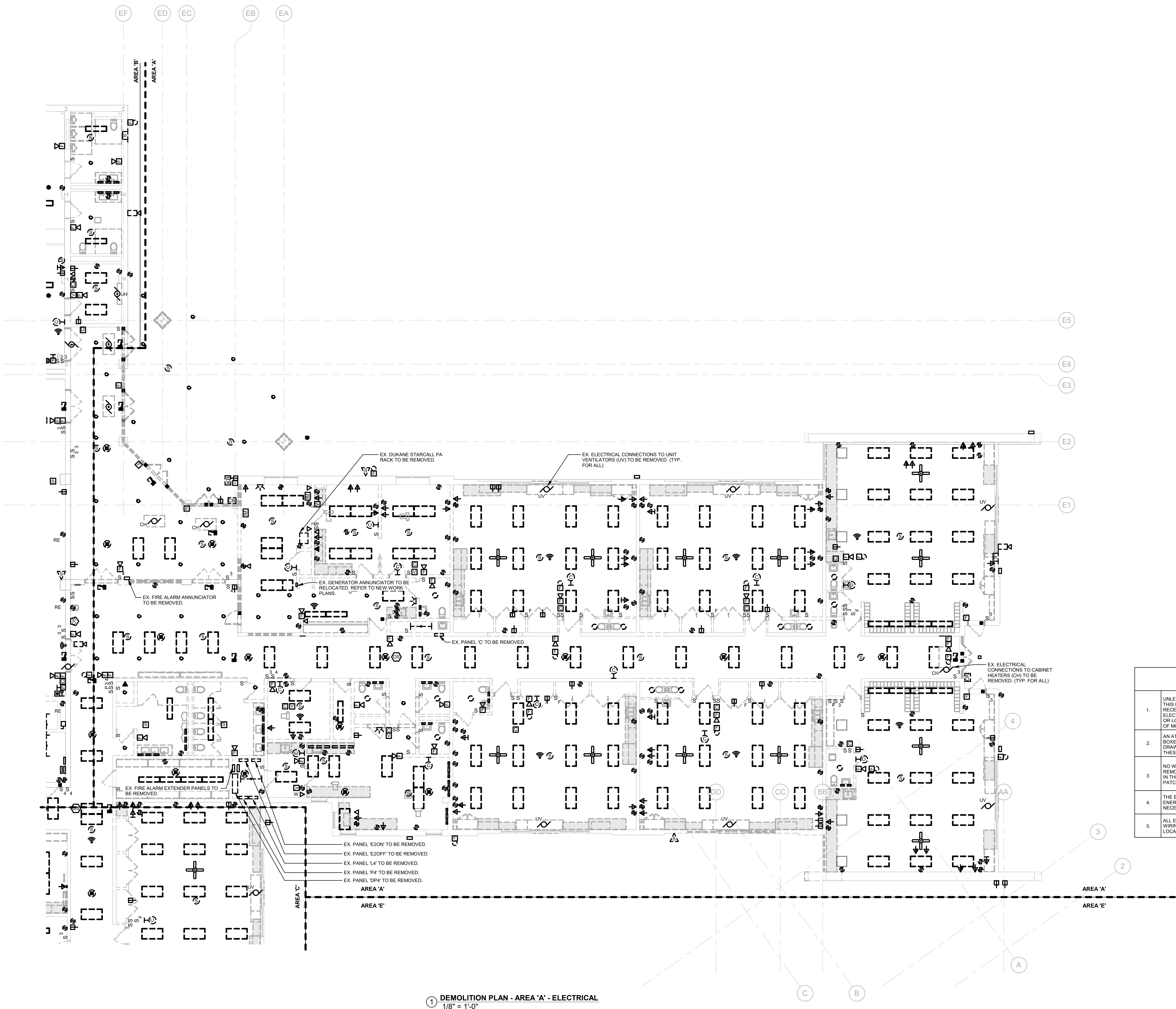
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Sheet No.

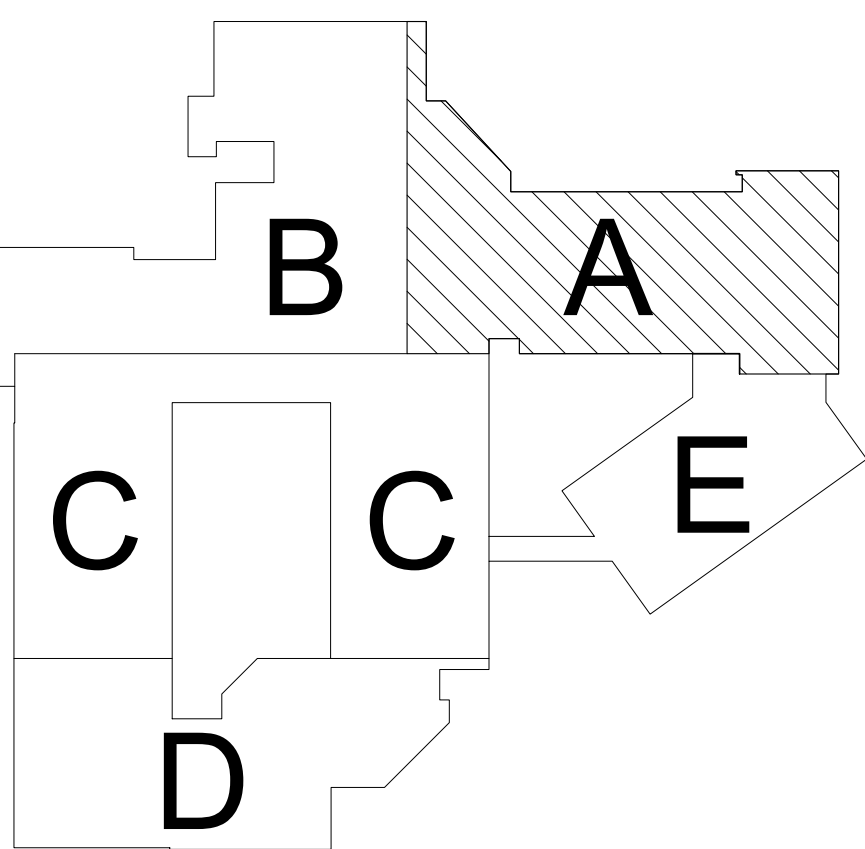
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1 DEMOLITION PLAN - AREA 'A' - ELECTRICAL
1/8" = 1'-0"

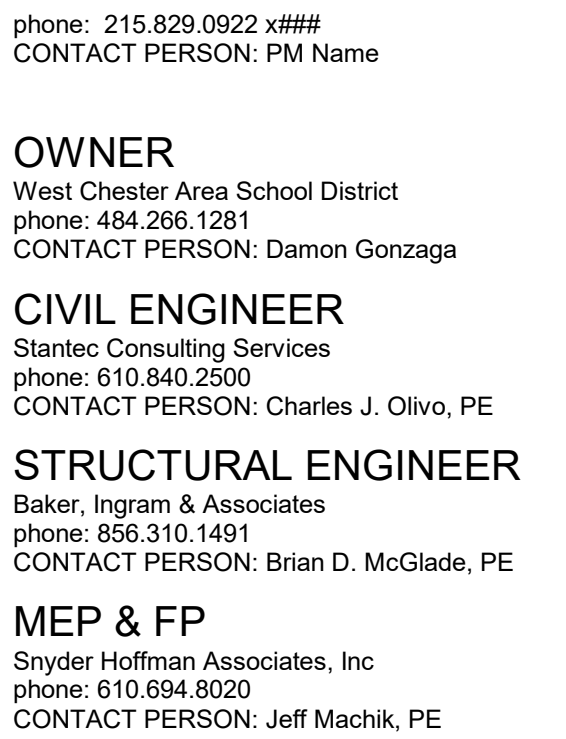


① **DEMOLITION PLAN - AREA 'B' - ELECTRICAL**
1/8" = 1'-0"

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ED1.01B



OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:
DEMOLITION FLOOR
PLAN - AREA 'C' -
ELECTRICAL

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR
TO STARTING WORK:

Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the work. The undersigned hereby certifies that the undersigned represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarification or questions in writing to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

Checked By: DAN

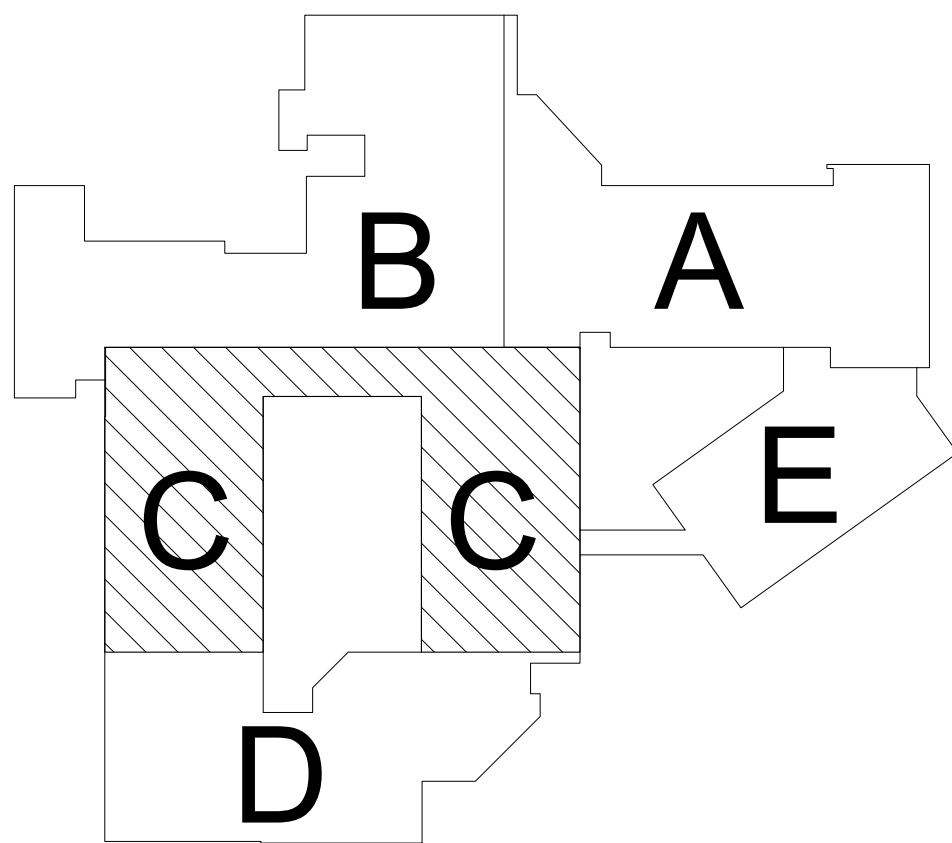
Approved By: RLM

Sheet No. _____

SEP 1 9 10

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① **DEMOLITION PLAN - AREA 'C' - ELECTRICAL**
1/8" = 1'-0"

① $1/8" = 1'-0"$

DEMOLITION NOTES

1. UNLESS OTHERWISE INDICATED OR NOTED, ALL ELECTRICAL ITEMS SHOWN ARE TO BE REMOVED. THIS REMOVAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS: LIGHTING FIXTURES, RECEPTABLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE OUTLETS AND JACS, AND ALL OTHER ELECTRICAL ITEMS SHOWN ON THIS DRAWING. THIS INCLUDES ANY ASSOCIATED BRANCH CIRCUIT OR LOW VOLTAGE WIRING BACK TO ITS SOURCE. THE E.C. IS ALSO RESPONSIBLE FOR THE REMOVAL OF MOUNTING DEVICES, HANGERS, ETC. ASSOCIATED WITH THIS EQUIPMENT.
2. AN AGREEMENT HAS BEEN MADE TO SHOW ALL THE LIGHTING FIXTURES, RECEPTABLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE OUTLETS AND JACS, AND ALL OTHER ELECTRICAL ITEMS ON THE DEMOLITION DRAWINGS. HOWEVER, THE E.C. SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY AND ALL OF THESE COMPONENTS THAT EXIST IN THE FIELD AND ARE IN THE WAY OF THE NEW CONSTRUCTION.
3. NO WIRING SHALL BE ABANDONED IN PLACE. IT SHALL BE REMOVED. ALL CONDUIT SHALL BE REMOVED EXCEPT WHERE IT IS BURIED IN MASONRY WALLS AND IN OR BELOW FLOOR SLABS. IT SHALL BE EXPOSED OUT TO THE EXTERIOR AND FLUSH WITH THE WALL, OR FLOOR, AND FILL WITH PATCHING MATERIALS TO MATCH ADJACENT SURFACES.
4. THE E.C. SHALL BE RESPONSIBLE FOR RECONNECTING ANY EXISTING DEVICE WHICH IS TO REMAIN ENERGIZED AND HAS BEEN DISCONNECTED DUE TO THE DEMOLITION. PROVIDE ALL WIRING AND DEVICES NECESSARY TO RECONNECT.
5. ALL EXISTING EXTERIOR CAMERA LOCATIONS SHALL REMAIN AND BE REWIRED WITH NEW CAT 6A. ALL EXISTING INTERIOR CAMERA LOCATIONS SHALL BE DISCONNECTED, LABELED, STORED IN A SAFE LOCATION, AND RECONNECTED WITH NEW CAT 6A WIRING IN THEIR EXISTING LOCATIONS.

Project:
**Mary C. Howse
Elementary**

Project Address:
**641 Boot Road
West Chester, PA 19380**

Sheet Title:
**FLOOR PLAN - AREA
'A' - LIGHTING**

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK

Any party who relies in part or whole on the content of these Contract Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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06.26.2023	DESIGN DEVELOPMENT		
07.28.2023	90% CD SET		
09.19.2023	90% CD SET		
10.31.2023	BID SET		

BHA Job Number: 22-114

Scale: As indicated

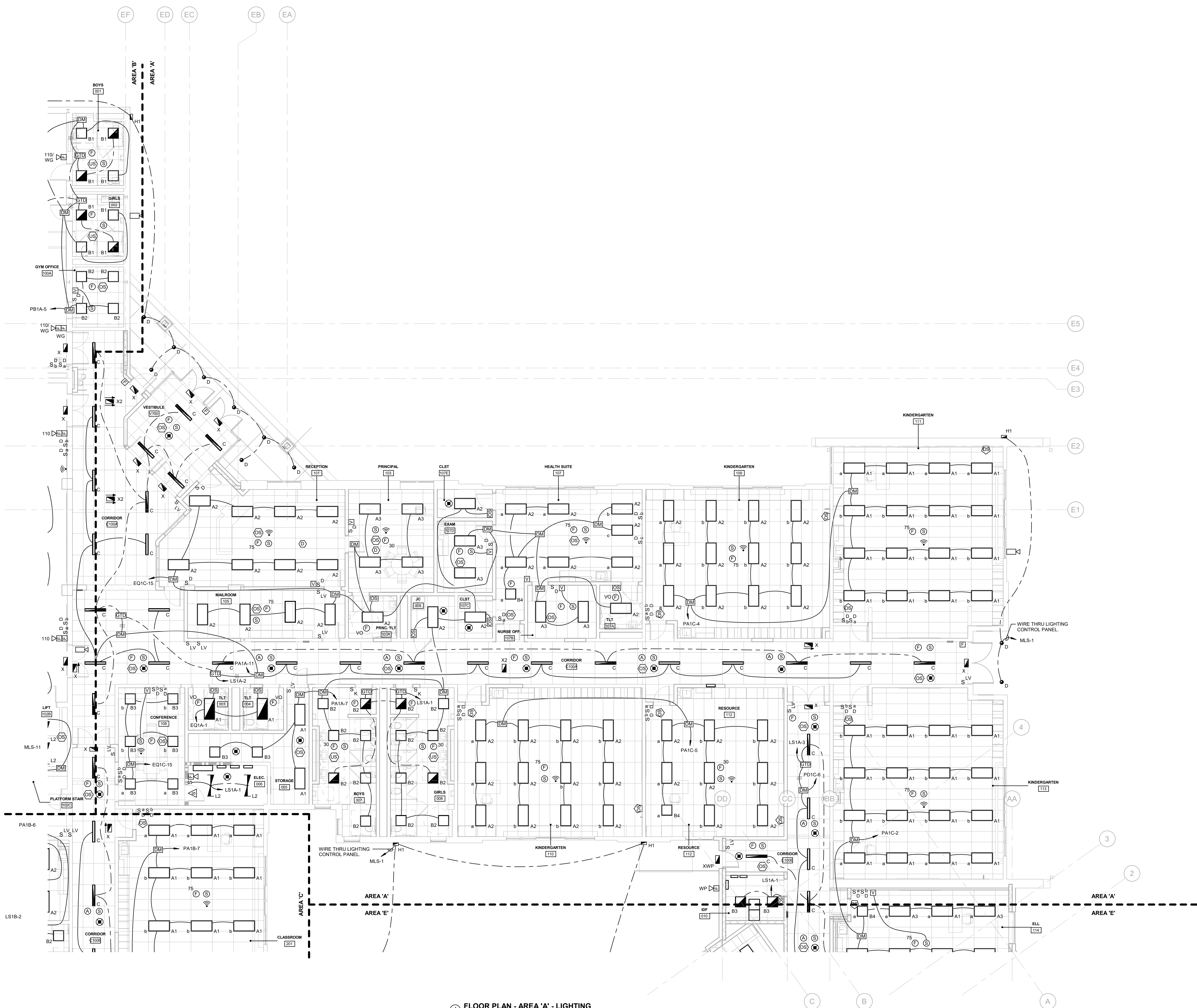
Drawn By: DJG

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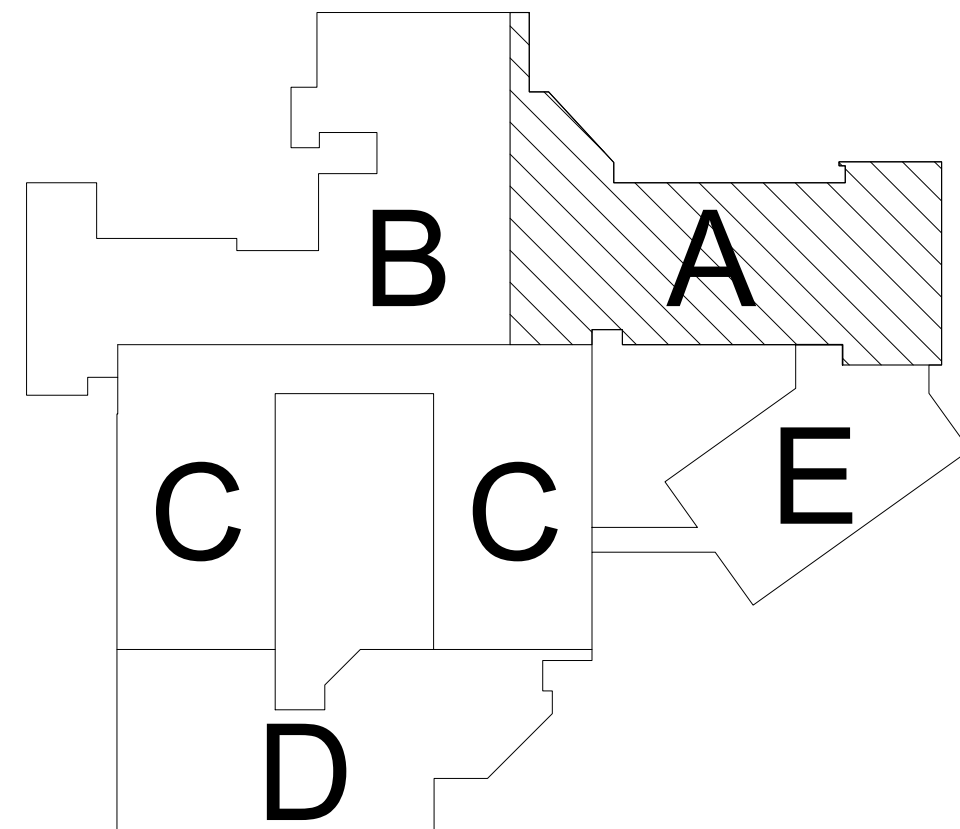
Approved By: RLM

Sheet No.

E2.01A



1 FLOOR PLAN - AREA 'A' - LIGHTING
1/8" = 1'-0"



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DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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	06.26.2023	DESIGN DEVELOPMENT	
	07.28.2023	80% CD SET	
	09.19.2023	90% CD SET	
	10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

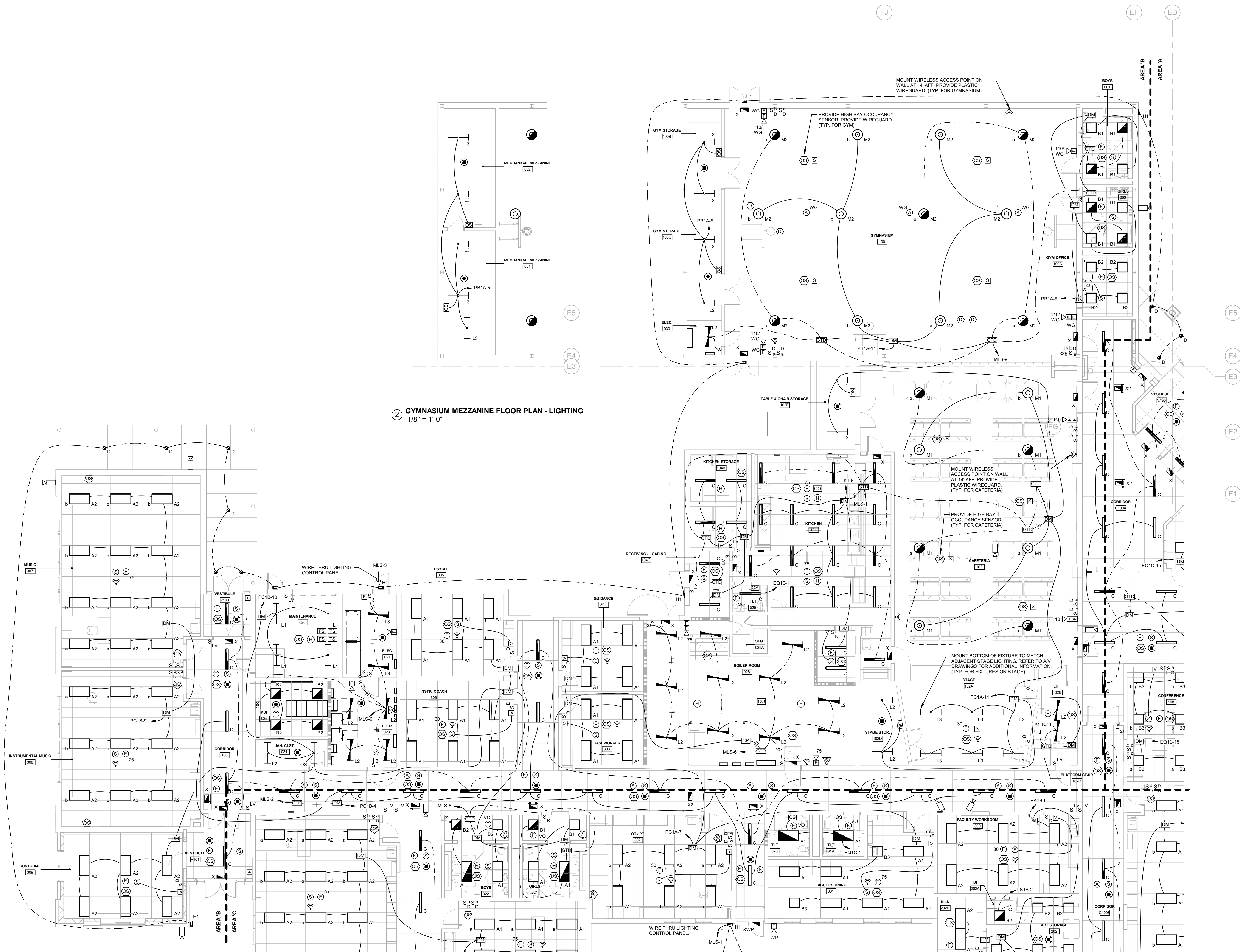
Drawn By: DJG

Checked By: DAN

Approved By: RLM

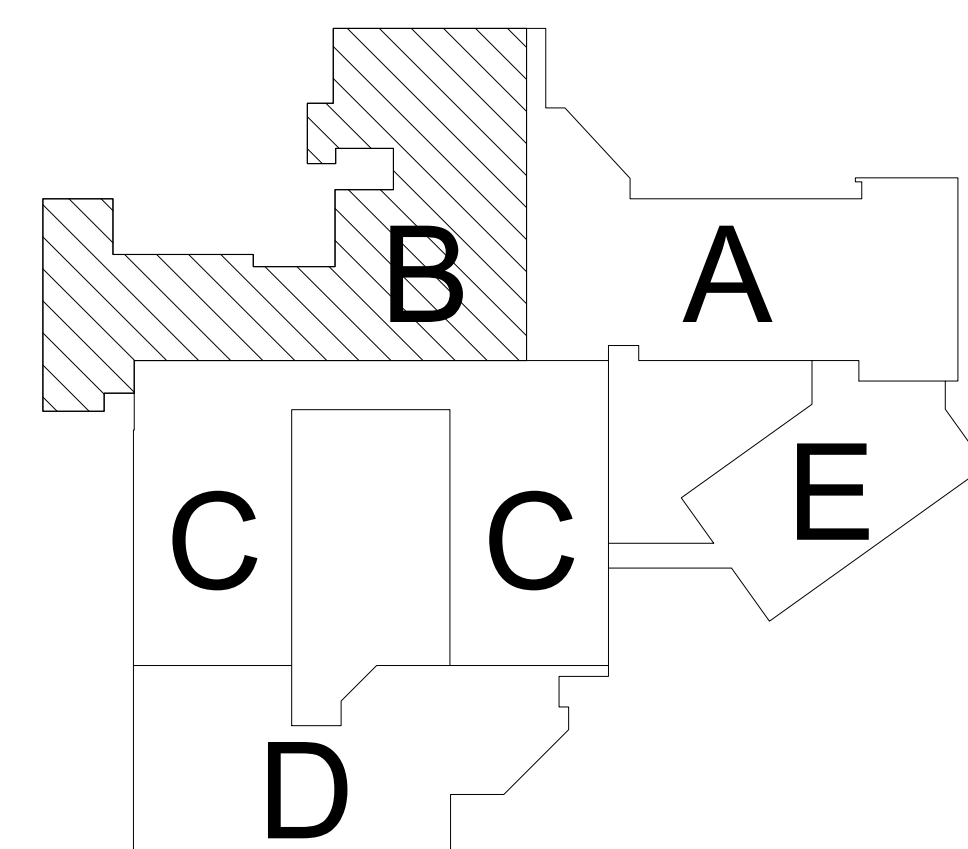
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E2.01B

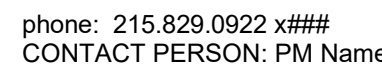


2 GYMNASIUM MEZZANINE FLOOR PLAN - LIGHTING
1/8" = 1'-0"

1 FLOOR PLAN - AREA 'B' - LIGHTING
1/8" = 1'-0"



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OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:
Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:
FLOOR PLAN - AREA
'C' - LIGHTING

See

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Construction Documents, including all Drawings, Specifications, and Addenda, for completeness, conflict, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible regarding inventory standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. By signing these documents, the parties hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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Date	Comments	△
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD SET	
09.19.2023	90% CD SET	
10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

Checked By: DAN

Approved By: RLM

Sheet No.

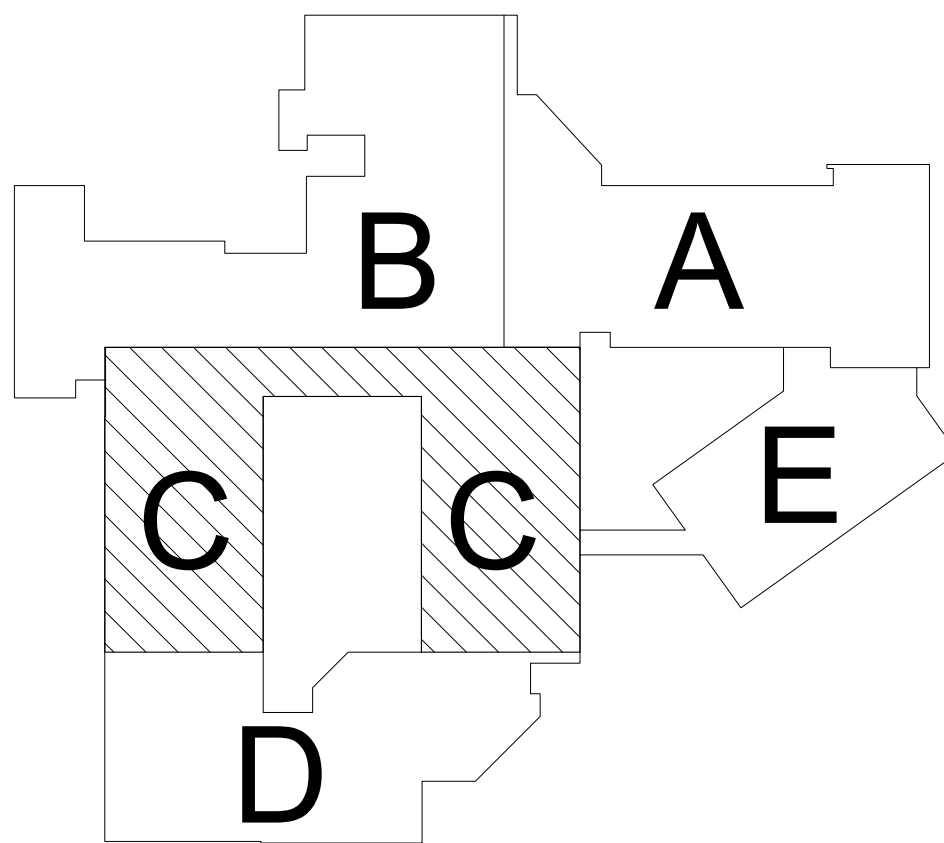
E2.01C

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① FLOOR PLAN - AREA 'C' - LIGHTING
1/8" = 1'-0"

- GENERAL LIGHTING NOTES:**
1. REFER TO E0.00 FOR LEGEND AND GENERAL NOTES.
 2. REFER TO POWER PLANS FOR PANEL NAMES.
 3. NOT ALL WIRING SHOWN, E.C. SHALL PROVIDE ALL WIRING INCLUDING LOW VOLTAGE AND DIMMING WIRING FOR FULLY FUNCTIONING SYSTEMS.
 4. PROVIDE SURGE PROTECTION FOR ALL EXTERIOR DATA PORTS. PERLITE CAT# D7-LAN-CAT6 OR EQUAL.
 5. E.C. SHALL INSTALL ALL CONDUIT, BACKBOX, AND CAT 6A WIRING TO EVERY CAMERA LOCATION SHOWN ON DRAWING. EXTERIOR CAMERA WIRING HAS TO BE REINSTALLED UTILIZING THE SAME BACKBOX. E.C. SHALL PROVIDE NEW CAT 6A WIRING.
 6. PROVIDE (2) FIRE ALARM CONNECTIONS TO EXISTING TAMPER SWITCHES IN EXISTING METE P.I.T. VERIFY IN FIELD.
 7. CIRCUIT EXTERIOR EXIT SIGNS TO NEAREST AVAILABLE UNSWITCHED LINE SAFETY CIRCUIT.



OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:
FLOOR PLAN - AREA
'D' - LIGHTING

Seal

① **FLOOR PLAN - AREA 'D' - LIGHTING**
1/8" = 1'-0"

GENERAL LIGHTING NOTES

1. REFER TO E00.00 FOR LEGEND AND GENERAL NOTES.
2. REFER TO POWER PLANS FOR PANEL NAMES.
3. NOT ALL WIRING SHOWN. E.C. SHALL PROVIDE ALL WIRING INCLUDING LOW VOLTAGE AND DIMMING WIRING FOR FULLY FUNCTIONING SYSTEMS.
4. PROVIDE SURGE PROTECTION FOR ALL EXTERIOR DATA WIRING TO EVERY CAMERA LOCATION EQUAL.
5. E.C. SHALL INSTALL ALL CONDUIT, BACKBOX, AND CAT 6A WIRING TO EVERY CAMERA LOCATION SHOWN ON DRAWINGS. EXTERIOR CAMERAS TO BE REINSTALLED UTILIZING THE SAME BACKBOX. E.C. SHALL PROVIDE NEW CAT 6A WIRING.
6. PROVIDE (2) FIRE ALARM CONNECTIONS TO EXISTING TAMPERS SWITCHES IN EXISTING METER PIT. VERIFY IN FIELD.
7. CIRCUIT EXTERIOR EXIT SIGNS TO NEAREST AVAILABLE UNSWITCHED LIFE SAFETY CIRCUIT.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

Checked By: DAN

Approved By: RLM

Sheet No.

E2.01D

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phone: 215.829.0922 x###
CONTACT PERSON: PM Name

OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc.
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:
Mary C. Howse Elementary

Project Address:
**641 Boot Road
West Chester, PA 19380**

Sheet Title:
**FLOOR PLAN - AREA
'E' - LIGHTING**

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:
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GENERAL LIGHTING NOTES:
1. REFER TO E0.00 FOR LEGEND AND GENERAL NOTES.
2. REFER TO POWER PLANS FOR PANEL NAMES.
3. NOT ALL WIRING SHOWN, E.C. SHALL PROVIDE ALL WIRING INCLUDING LOW VOLTAGE AND DIMMING WIRING FOR FULLY FUNCTIONING SYSTEMS.
4. PROVIDE SURGE PROTECTION FOR ALL EXTERIOR DATA DROPS. PERLE CAT# DT-LAN-CATS OR EQUAL.
5. E.C. SHALL INSTALL ALL CONDUIT, BACKBOX, AND CAT 6A WIRING TO EVERY CAMERA LOCATION SHOWN ON DRAWINGS. EXTERIOR CAMERAS TO BE REINSTALLED UTILIZING THE SAME BACKBOX. E.C. SHALL PROVIDE NEW CAT 6A WIRING.
6. PROVIDE (2) FIRE ALARM CONNECTIONS TO EXISTING TAMPER SWITCHES IN EXISTING METER PIT. VERIFY IN FIELD.
7. CIRCUIT EXTERIOR EXIT SIGNS TO NEAREST AVAILABLE UNSWITCHED LIFE SAFETY CIRCUIT.

Warning: Actual conditions may vary from conditions shown on this drawing. Confirm all information in the field before proceeding with any work and notify the Architect in writing if a variation is discovered.

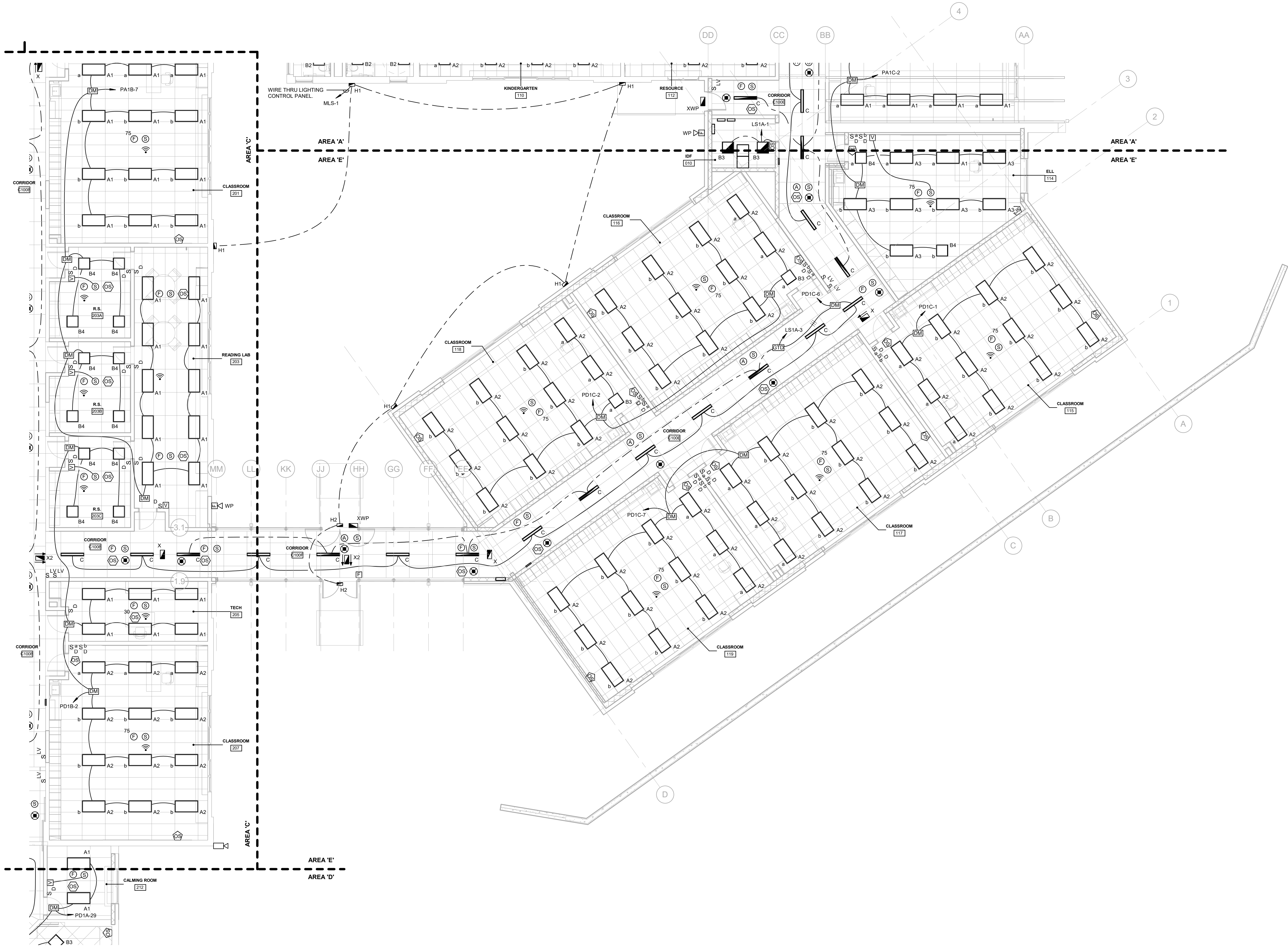
Date	Comments	△
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD SET	
09.19.2023	90% CD SET	
10.31.2023	BID SET	

BHA Job Number: 22-114
Scale: As indicated
Drawn By: DJG
Checked By: DAN
Approved By: RLM

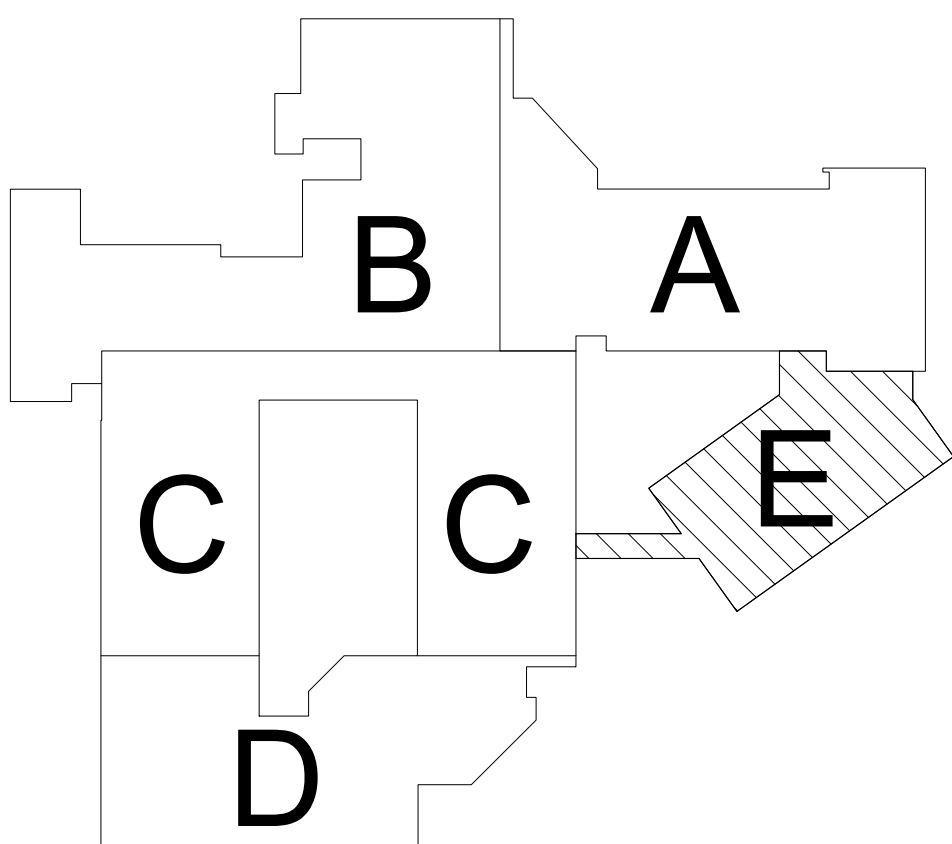
Sheet No.

E2.01E

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1 FLOOR PLAN - AREA 'E' - LIGHTING
1/8" = 1'-0"



NOT FOR CONSTRUCTION

Project:
**Mary C. Howse
Elementary**

Project Address:
**641 Boot Road
West Chester, PA 19380**

Sheet Title:
**FLOOR PLAN - AREA
'A' - POWER**

Scale

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK

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	10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

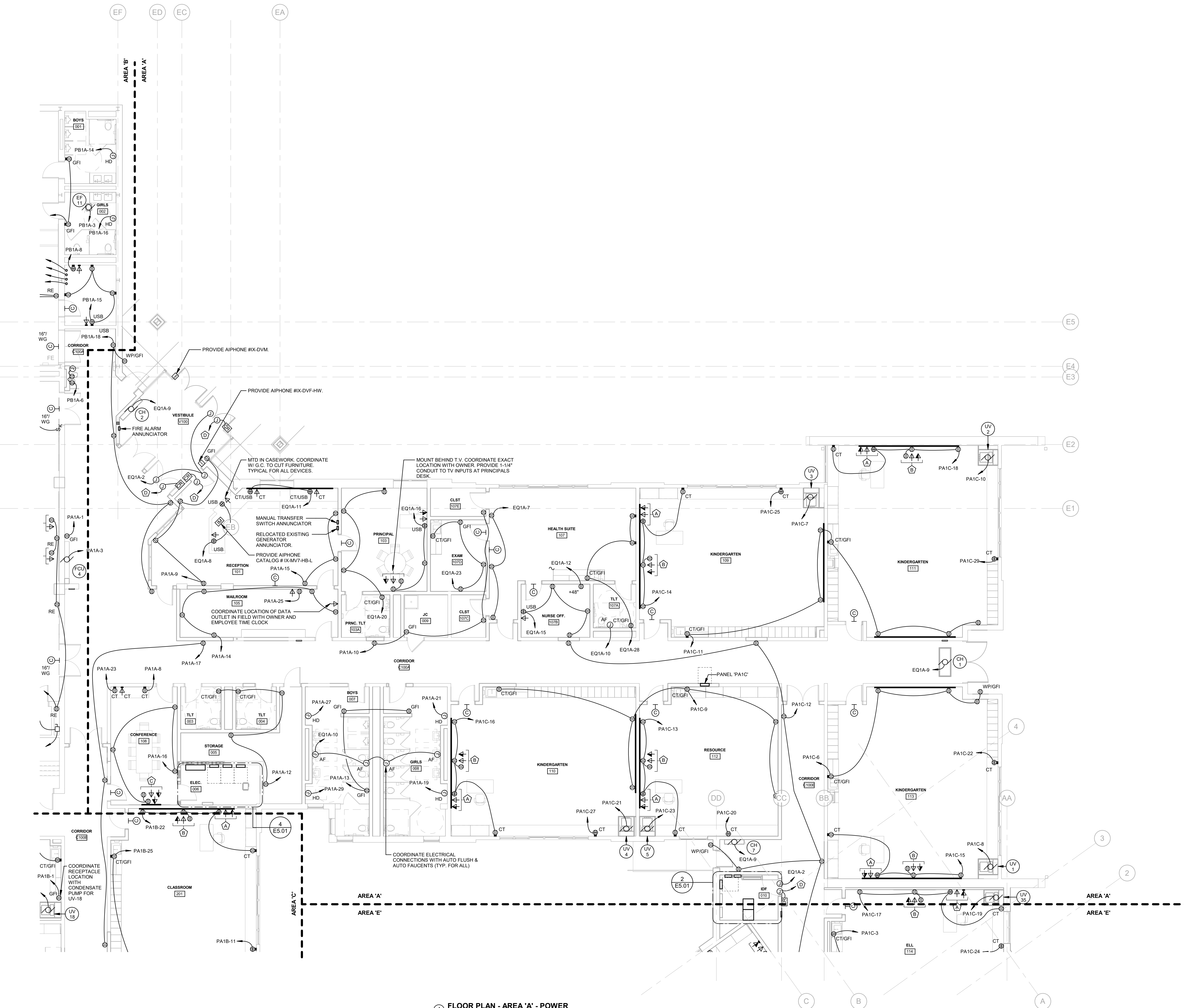
Drawn By: DJG

Checked By: DAN

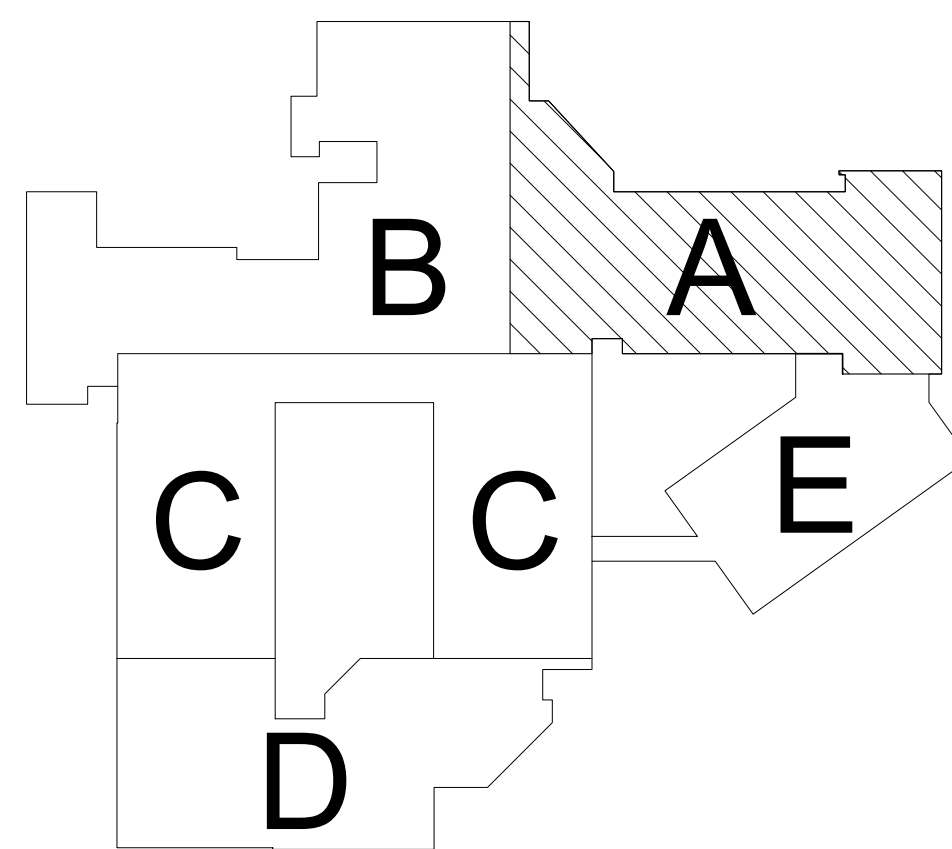
Approved By: RLM

Sheet No.

E3.01A



1 FLOOR PLAN - AREA 'A' - POWER
1/8" = 1'-0"



NOT FOR CONSTRUCTION

Project:
**Mary C. Howse
Elementary**Project Address:
**641 Boot Road
West Chester, PA 19380**Sheet Title:
**FLOOR PLAN - AREA
'B' - POWER**

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK

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09.19.2023	90% CD SET	
10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

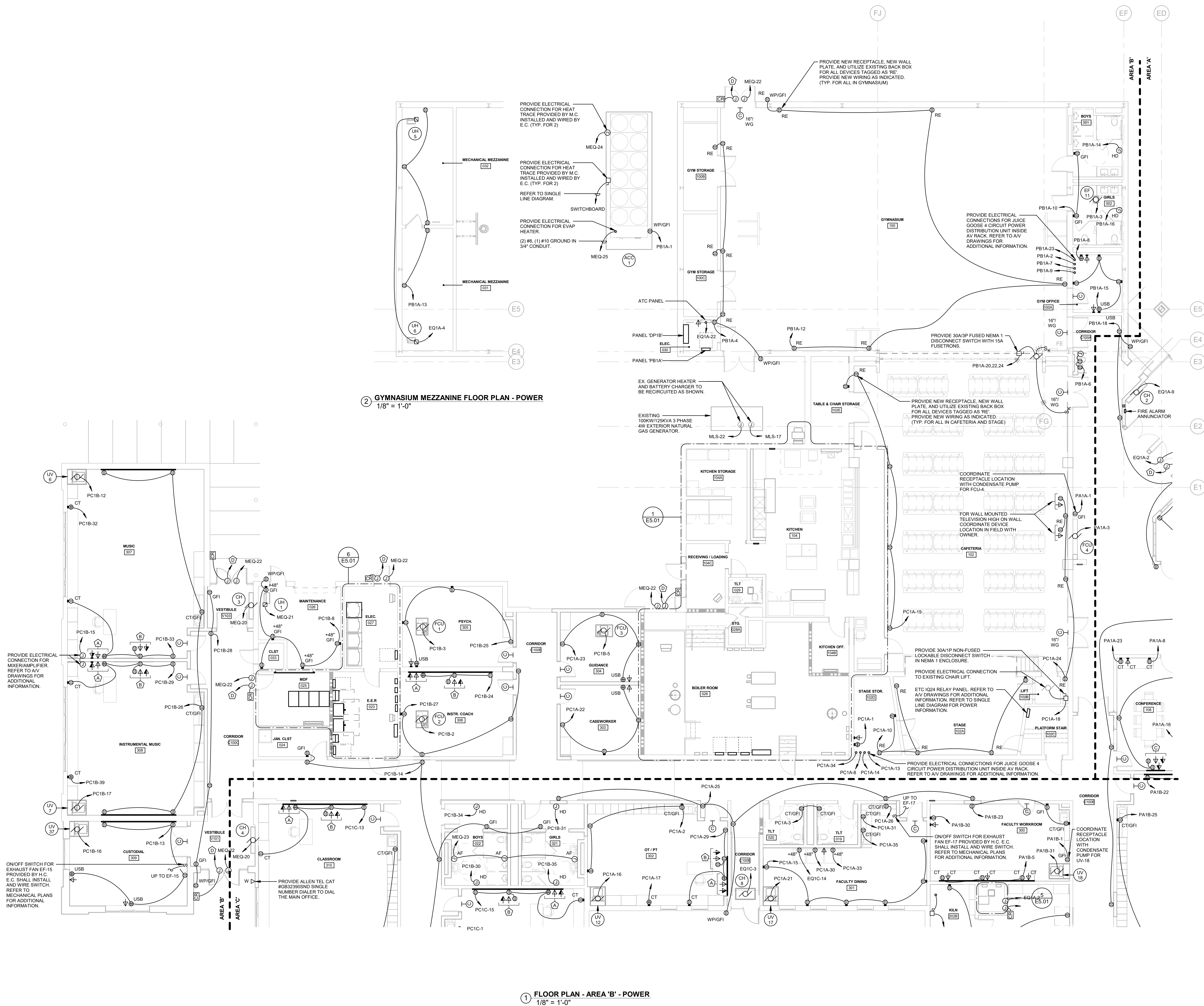
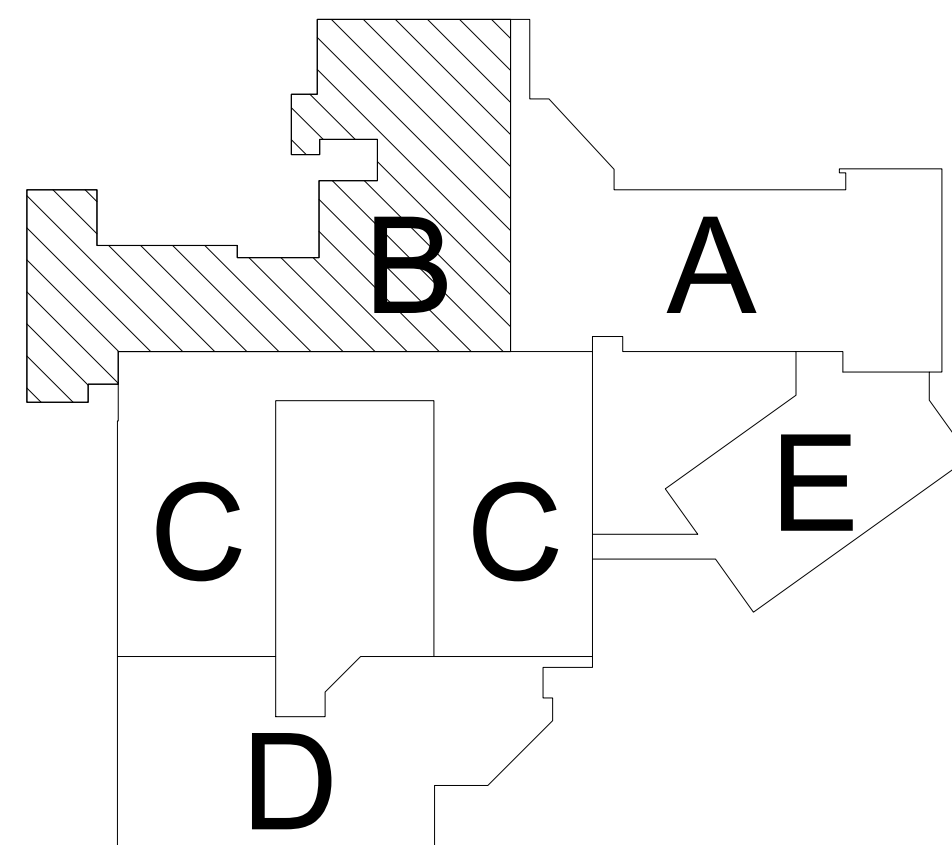
Checked By: DAN

Approved By: RLM

Sheet No.

E3.01B

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**② GYMNASIUM MEZZANINE FLOOR PLAN - POWER**
1/8" = 1'-0"**① FLOOR PLAN - AREA 'B' - POWER**
1/8" = 1'-0"

NOT FOR CONSTRUCTION

CODED POWER NOTES:

- (A) PROVIDE (1) QUADRUPLUX RECEPTACLE, (2) DATA DROPS, AND PROJECTOR INPUTS AT TEACHER'S DESK. PROVIDE WIREMOLD AS INDICATED IN CLASSROOM AV DETAIL.
- (B) PROVIDE (1) DUPLEX RECEPTACLE, (2) DATA DROPS, AND PROJECTOR OUTPUTS BEHIND WALL MOUNTED PROJECTOR. COORDINATE PROJECTOR LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (C) PROVIDE (1) DUPLEX RECEPTACLE AND AV INPUTS AT 18" AFF AND (1) DUPLEX RECEPTACLE, (2) DATA DROPS, AND AV OUTPUTS BEHIND WALL MOUNTED PROJECTOR. PROVIDE 2" CONDUIT FOR AV CABLES. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO CLASSROOM AV DETAIL.
- (D) PROVIDE ALL LOW-VOLTAGE CABLING AND APPURTENANCES FOR A FULLY OPERABLE ACCESS CONTROL SYSTEM. REFER TO DETAIL AND SPECIFICATION FOR MORE INFORMATION.

GENERAL POWER NOTES:

1. REFER TO EQ-00 FOR LEGEND AND GENERAL NOTES.
2. PROVIDE SURFACE RACEWAY FOR ALL AV COMPONENTS IN ALL CLASSROOMS. REFER TO TYPICAL CLASSROOM AV DIAGRAM DETAIL #4 ON DWG E6.02.
3. PROVIDE WIREMOLD 2300 SERIES SURFACE RACEWAY FOR NEW POWER AND DATA OUTLETS ON EXISTING BLOCK WALLS.
4. PROVIDE WIREMOLD 5400 SERIES DIVIDED SURFACE RACEWAY FOR LOCATIONS WHERE NEW POWER AND DATA OUTLETS ON EXISTING BLOCK WALLS ARE LOCATED NEXT TO EACH OTHER.
5. MECHANICAL EQUIPMENT DISCONNECT SWITCHES FURNISHED BY H.C. INSTALLED AND WIRED BY E.C. TYPICAL FOR ALL UNLESS OTHERWISE INDICATED ON DRAWINGS.
6. E.C. SHALL REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGHING IN.
7. PROVIDE 3X14-2X14MM 2 CONDUCTORS FOR ALL CIRCUITS FED FROM GFCI BREAKERS.

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:

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BHA Job Number: 22-114

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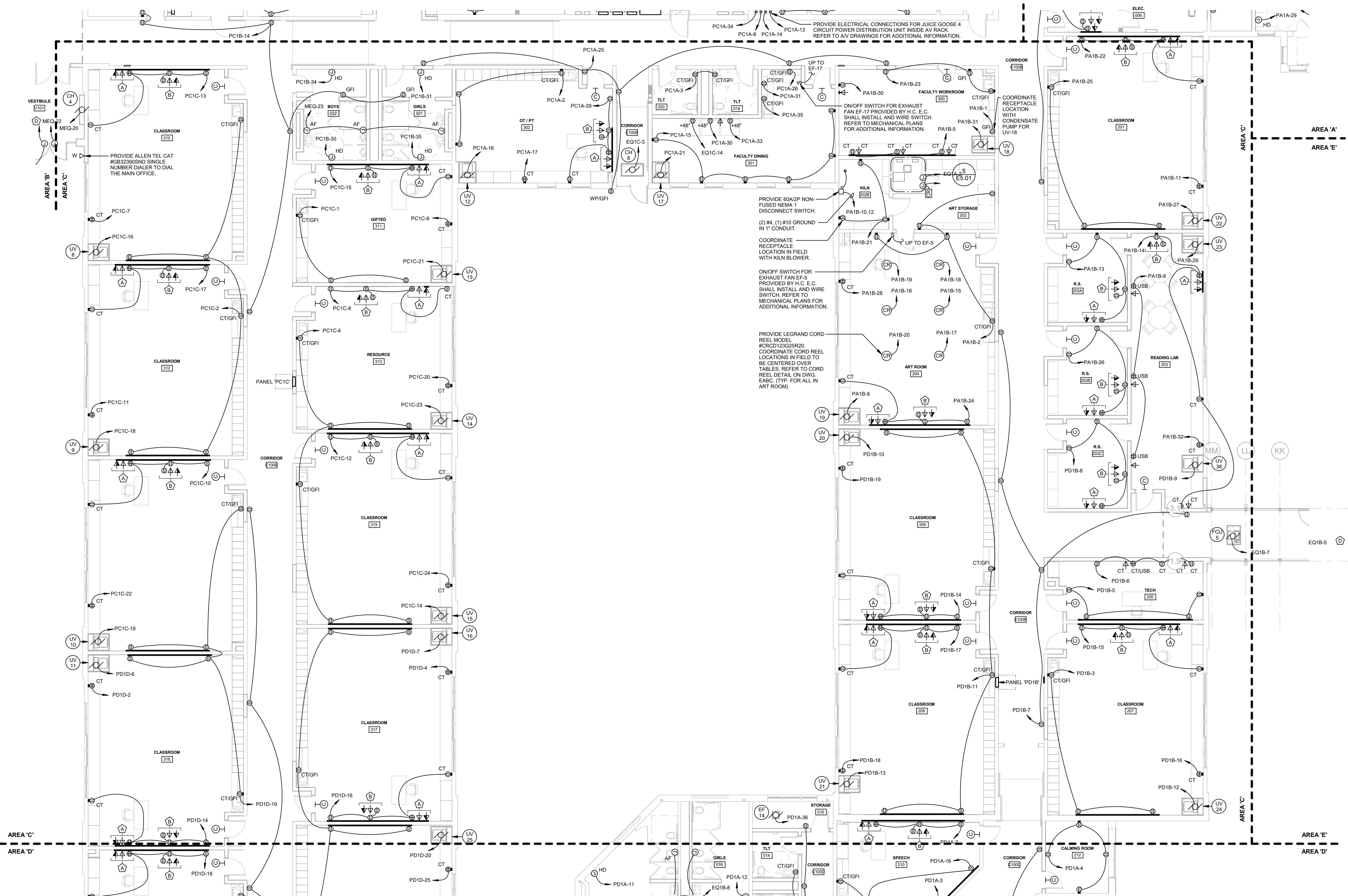
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Checked By: DAN

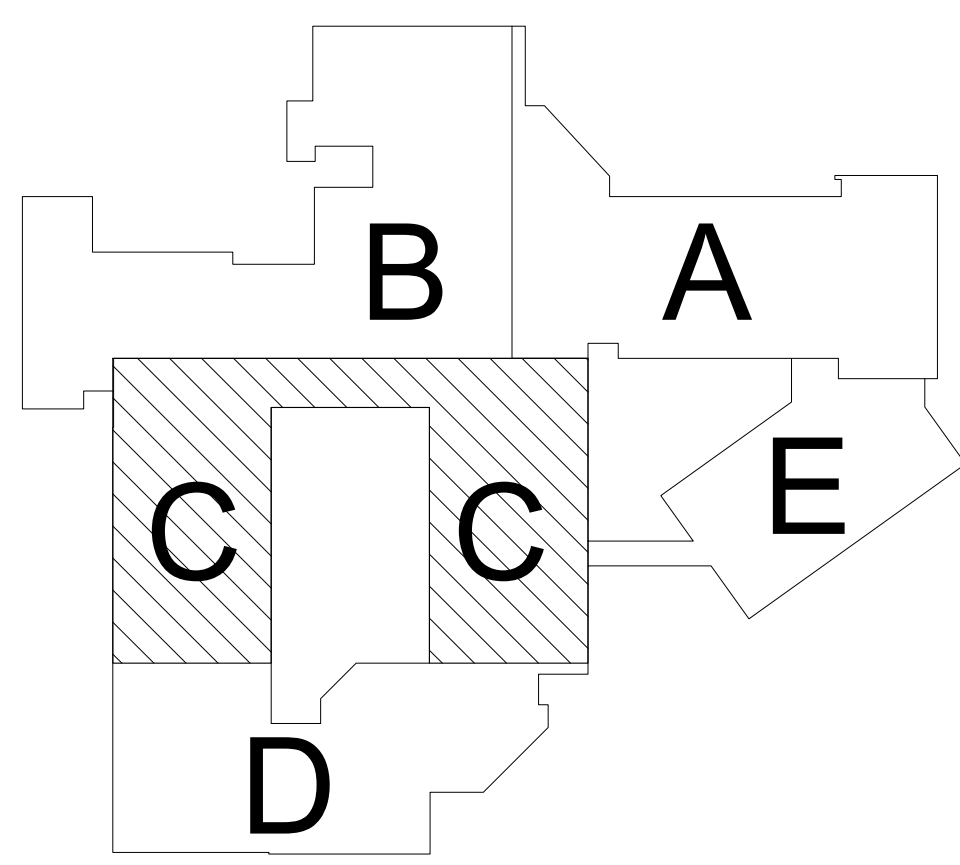
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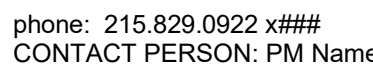
E3.01C



1 FLOOR PLAN - AREA 'C' - POWER
1/8" = 1'-0"



NOT FOR CONSTRUCTION



OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

FLOOR PLAN - AREA
'D' - POWER

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning work, be responsible for fully inspecting the complete set of these documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts in scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are fully capable of engaging industry standards, product requirements, and code requirements and therefore are required to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the other parties who are parties who have signed, and hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

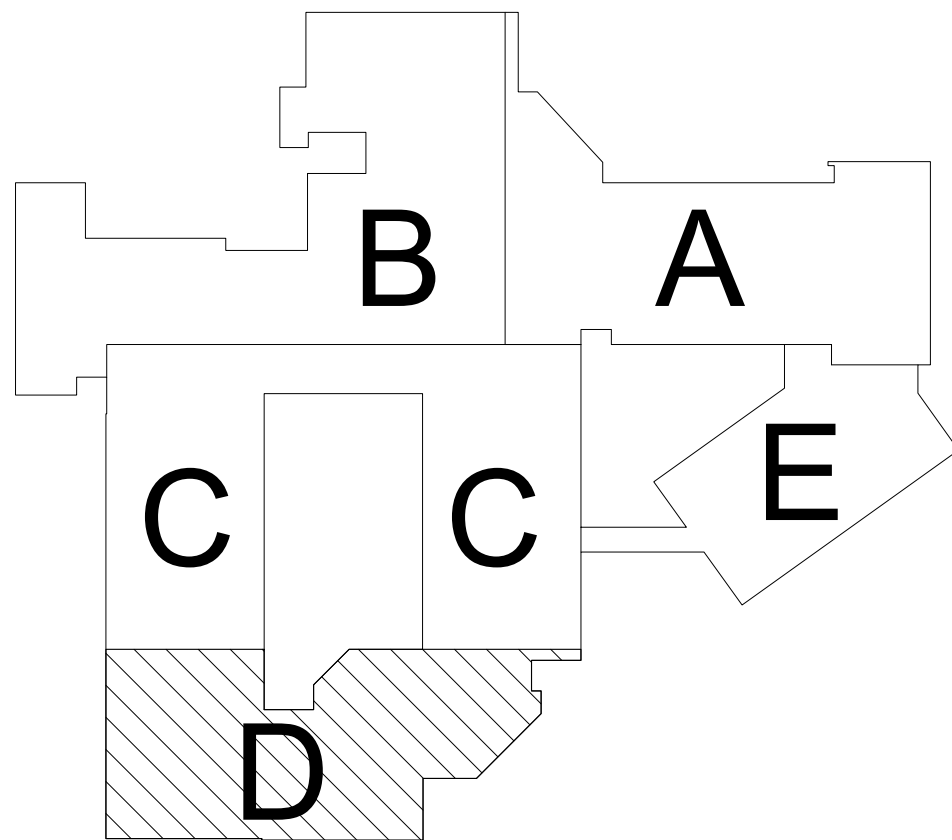
Checked By: DAN

Approved By: RLM

Sheet No.

E3.01D

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NOT FOR CONSTRUCTION

① **FLOOR PLAN - AREA 'D' - POWER**
1/8" = 1'-0"

CODED POWER NOTES

- PROVIDE (1) QUADRUPEX RECEPTACLE, (2) DATA DROPS, AND PROJECTOR INPUTS AT TEACHER'S DESK. PROVIDE WIREMOLD AS INDICATED IN CLASSROOM AV DETAIL.
- PROVIDE (1) DUPEX RECEPTACLE, (2) DATA DROPS, AND PROJECTOR OUTPUTS BEHIND WALL MOUNTED PROJECTOR. COORDINATE PROJECTOR LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE (1) DUPEX RECEPTACLE AND AV INPUTS AT 18" AFF AND (1) DUPEX RECEPTACLE, (2) DATA DROPS, AND AV OUTPUTS BEHIND WALL MOUNTED PROJECTOR. PROVIDE 2" CONDUIT FOR AV CABLES. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO CLASSROOM AV DETAIL.
- PROVIDE ALL LOW-VOLTAGE CABLING AND APPURTENANCES FOR A FULLY OPERABLE ACCESS CONTROL SYSTEM. REFER TO DETAIL FOR ACCESS CONTROL SYSTEM.

GENERAL POWER NOTES

1. REFERTO E2.00 FOR LEGEND AND GENERAL NOTES.
2. PROVIDE SURFACE RACEWAY FOR ALL AVV COMPONENTS IN ALL CLASSROOMS. REFERTO TYPICAL CLASSROOM AVV DIAGRAM DETAIL #4 ON DWG E2.02.
3. PROVIDE WIREMOLD 2400 SERIES SURFACE RACEWAY FOR ALL NEW POWER AND DATA OUTLETS ON EXISTING BLOCK WALLS.
4. PROVIDE WIREMOLD 5400 SERIES DIVIDED SURFACE RACEWAY FOR LOCATIONS WHERE NEW POWER AND DATA OUTLETS ON EXISTING BLOCK WALLS ARE LOCATED NEXT TO EACH OTHER.
5. MECHANICAL EQUIPMENT DISCONNECT SWITCHES SHALL BE BY H.C. MCGRAW-HILL. SEE DRAWING TYPICAL FOR ALL UNLESS OTHERWISE INDICATED ON DRAWINGS.
6. E.C. SHALL REFERTO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL INSTALLATIONS WITH THE ARCHITECTURE. CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGHING IN.
7. PROVIDE XHHN-XHHN-2 CONDUCTORS FOR ALL CIRCUITS TO BE USED BY THE BIDDERS.

OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

FLOOR PLAN - AREA
'E' - POWER

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
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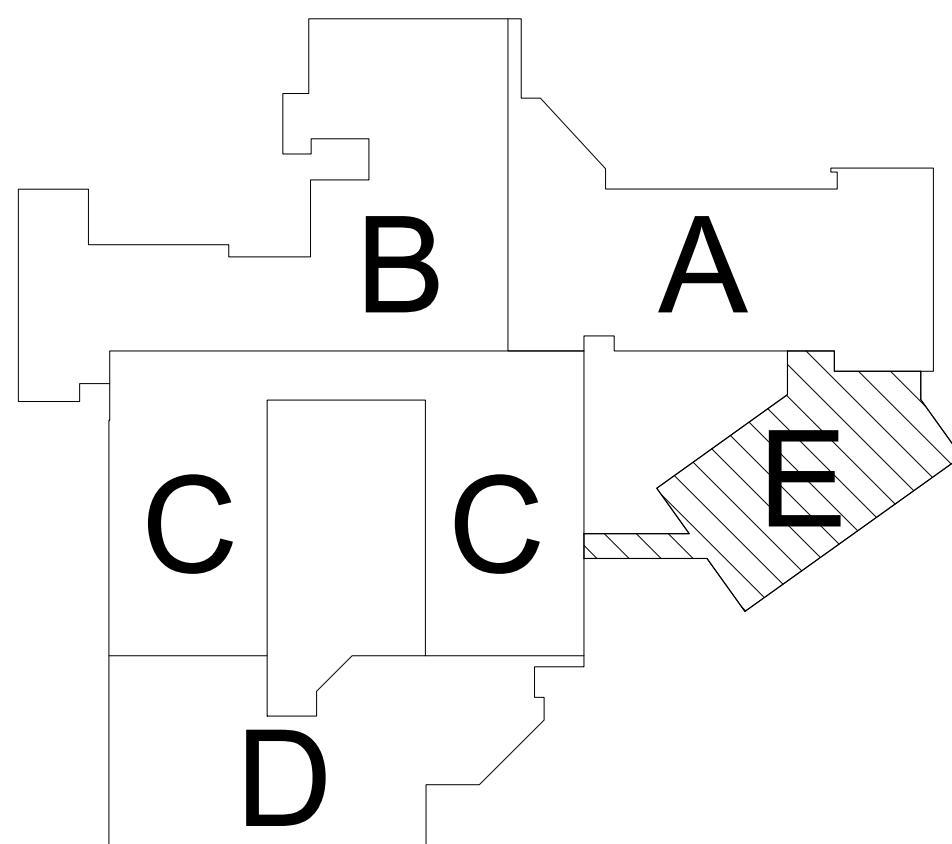
Checked By: DAN

Approved By: RLM

Sheet No.

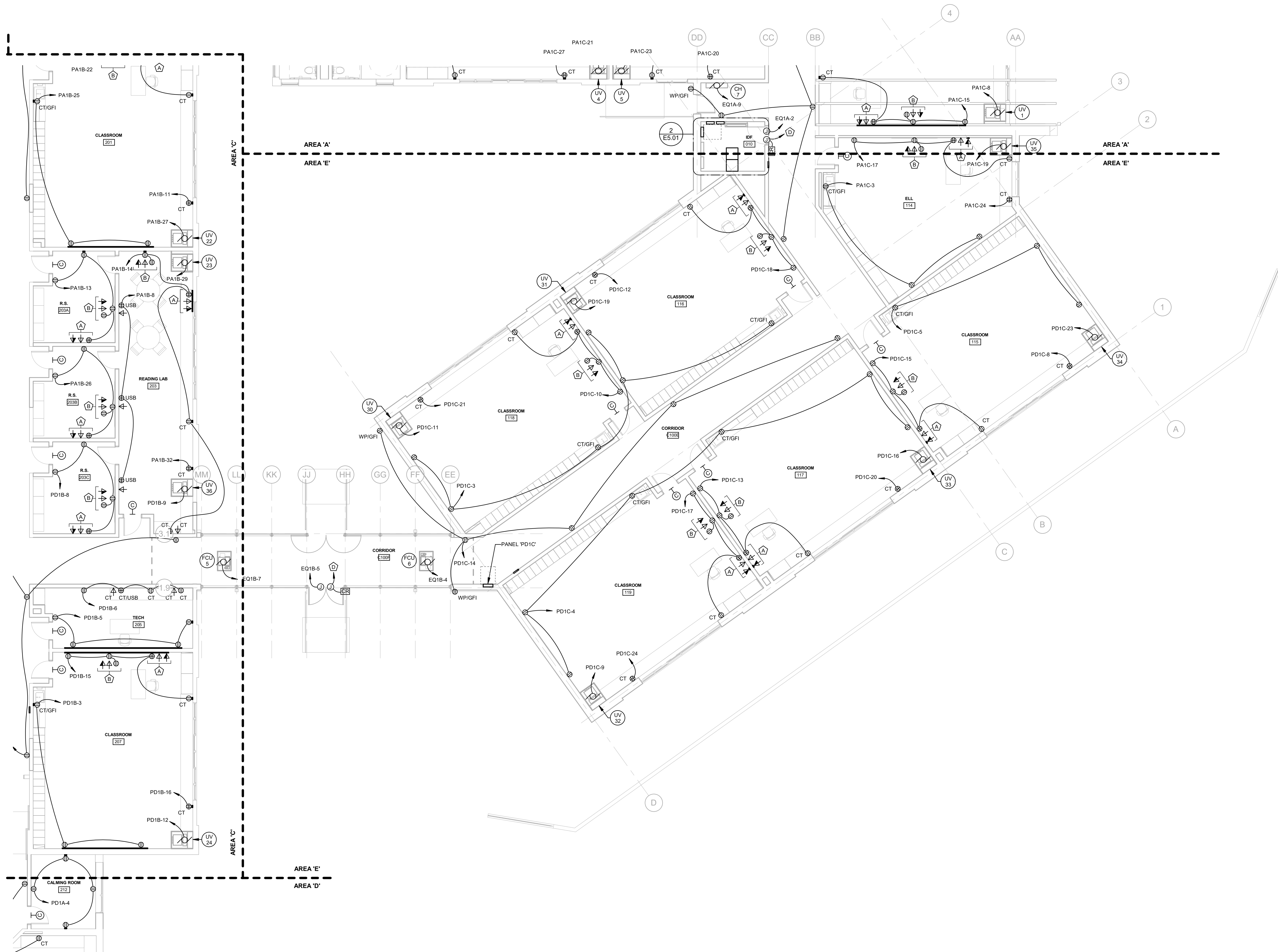
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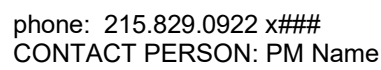
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NOT FOR CONSTRUCTION

① FLOOR PLAN - AREA 'E' - POWER
1/8" = 1'-0"



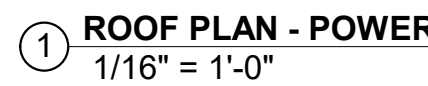


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West Chester Area School District
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CONTACT PERSON: Damon Gonzaga

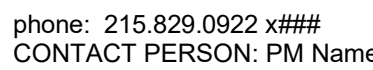
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CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE



E3.02



OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

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CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

OVERALL FLOOR PLAN - DATA

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
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BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJG

Checked By: DAN

Approved By: RLM

Sheet No.

3.03

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NOT FOR CONSTRUCTION



GENERAL DATA NOTES

1. REFER TO E0.00 FOR LEGEND AND GENERAL NOTES.
2. PROVIDE (2) 2" CONDUITS INTO EACH CLASSROOM FROM CORRIDOR.
3. ALL DATA WIRING TO BE MOUNTED ON J-HOOKS ABOVE ACCESSIBLE CEILINGS. PROVIDE CONDUIT IN ALL EXPOSED AREAS OUTSIDE OF DATA ROOMS.

① **OVERALL FIRST FLOOR PLAN - DATA**
1/16" = 1'-0"

THEATRICAL LIGHTING LEGENDS

THEATRICAL LIGHTING SYMBOLS LEGEND:		
<p style="text-align: center;">MULTIPLE AT SIMILAR LOCATION</p> <p style="text-align: center;">GANG</p> <p style="text-align: center;">OTHER DEVICE (SEE TYPES BELOW)</p>		
SYMBOL TYPES:	NOTES:	
A	ETC ColorSource RACEWAY	TOTAL LENGTH: 0'-0"
B	ETC ColorSource RACEWAY	TOTAL LENGTH: 0'-0"
C	ETC ColorSource RACEWAY	TOTAL LENGTH: 0'-0"
WB	ETC WEBPIPE BATTEN	TOTAL LENGTH: PROVIDE EQUAL TO RACEWAY
P(#)	SCHEDULE 40 PIPE BATTEN	(#) NOTES OVERALL LENGTH REQUIRED
DMX	DMX 5-PIN CONNECTOR	
FH	ETC PRODIGY FLYPIPE HOIST	SELF CLIMBING HOIST
QTP	ETC QUICK TOUCH PRESET 8	STAGE HOIST PRESET CONTROLLER
AC	AC POWER CONNECTION	
WAP	WIRELESS ACCESS POINT	WAP FOR WIRELESS LIGHTING CONTROL
LCD	ETC #P-TS7-4 STAGE MANAGER PNL	7" WALL MOUNTED TOUCHSCREEN
P4	ETC #P1004-1, PRESET CONTROL	WALL MOUNTED PRESET CONTROL
4OS	4 PORT OPTO SPLITTER CABINET	WALL MOUNTED CABINET
ROR	REMOTE CONSOLE RECEPTACLE	FINAL LOCATION BY OWNER
PP	2 CIRCUIT PIPE MOUNTED PLUG-IN BOX	LOCATED AT THE STEEL PIPE
NOTE: NOT ALL TYPES MAY BE USED ON THIS PROJECT		

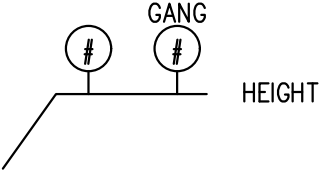
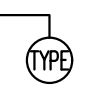
MOUNTING HEIGHTS:	
RECEPTACLES	18" ABOVE FINISHED FLOOR TO CENTER OF BOX (UNLESS NOTED OTHERWISE)
SWITCHES	48" ABOVE FINISHED FLOOR TO CENTER OF BOX
REMOTE ANTENNA	AS HIGH AS POSSIBLE ON THE WALL OR ABOVE DROP CEILING -- NOTED ON PLANS
CT RECEPTACLES	3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH

SPEAKER SCHEDULE			
<p style="text-align: center;">SIGNAL FLOW BLOCK:</p>		<p style="text-align: center;">AV SPEAKER BLOCK:</p>	
TYPE	MANUFACTURER	MODEL	DESCRIPTION
SP (#)	EXTRON	SF 26CT	CEILING MOUNTED SPEAKER

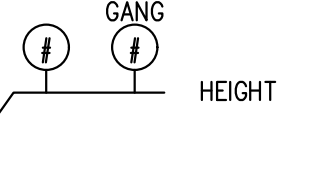
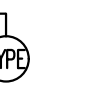
THEATRICAL LIGHTING FIXTURES LEGEND:				
CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
TYPE	TYPE	TYPE	TYPE	TYPE
FOCUS	FOCUS	LENS*	FOCUS	FOCUS
<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE FIXTURE LOCATION AND FOCUS WITH THE OWNER. PROVIDE C-CLAMP & SAFETY CABLE WITH EACH FIXTURE. PROVIDE POWERCON THRU CABLES 				

LEGEND		
Symbol	Description	Quantity
UNIT TYPE 'A'	ETC ColorSource CSSPOT, #7413A1000, WITH ETC 41530LT SOURCE FOUR 15"-30" ZOOM LENS #7060A2030-K	0
UNIT TYPE 'B'	ETC ColorSource CSSPOTS, #7413A1001, WITH 419EDLT, 19" EDLT LENS #7060A2046	0
UNIT TYPE 'C'	ETC ColorSource CSSPOTS, #7413A1001, WITH ETC 41530LT SOURCE FOUR 15"-30" ZOOM LENS #7060A2047	0
UNIT TYPE 'D'	ETC ColorSource CSSPOTS, #7413A1001, WITH ETC 436EDLT, 36" EDLT LENS #7060A2048	0
UNIT TYPE 'E'	ETC ColorSource CSPAR #7412A1005, WITH SELRM-7.5 MEDIUM LENS & SELRW-7.5 WIDE LENS.	0
UNIT TYPE 'F'	ETC ColorSource CSLINEAR4 #7414A1002, WITH CSLWLH.5 WIDE LINEAR HORIZONTAL LENS #7414K1007	0
UNIT TYPE 'G'	ETC LED WORKLIGHT	0
FLOOR BOX - EXISTING TO REMAIN		0
CYCLORAMA FIXTURE		0
FOLLOW SPOT FIXTURE -LYCIAN #ZOT-LED, 350W OR EQUAL		0
<p>NOT ALL FIXTURE TYPES MAY BE USED ON THIS PROJECT PROVIDE QUANTITIES SHOWN ON THIS SCHEDULE. QUANTITIES MAY DIFFER ON THE FLOOR PLAN</p>		

SOUND REINFORCEMENT AND AV LEGENDS

AV SYMBOLS LEGEND: GENERAL	
<div>MULTIPLE AT SIMILAR LOCATION</div> <div></div>	
<div>OTHER DEVICE (SEE TYPES BELOW)</div> <div></div>	
SYMBOL TYPES:	
VM(#)	VIDEO MONITOR
ANT	ANTENNA (SHURE REMOTE ANT)
AV(#)	AV WALL PLATE CONNECTION
CAM	CAMERA
CAV	CEILING LCD
HD(#)	HDMI-F
FB	FLOOR BOX
KEY	KEYPAD
LCD	LCD DISPLAY
LVC	SCREEN LVC (AV SYSTEM CONTROL)
LVS	SCREEN SWITCH
MIC	MICROPHONE
PH	PHONE
OCS	OCCUPANCY SENSOR
QFR	FLOOR RACEWAY
PRJ	PROJECTOR
PS	PARTITION SENSOR
PTH	POKE-THRU
AR(#)	AUDIO RACK
RS	ROOM SCHEDULER
SP(#)	SPEAKER
VA	VOLUME ATTENUATOR
TV	CATV DROP
WP	WALL PLATE
PLS	PILOT LIGHT SWITCH
BT	BLUETOOTH REMOTE ANTENNA
TEC	BIAMP REMOTE CONTROL
RCS	REMOTE RACK POWER ON/OFF
WR1	ASHLY REMOTE AUDIO CONTROL
MXC	SHURE MXCWAPT ACCESS POINT
NOTE: NOT ALL TYPES MAY BE USED ON THIS PROJECT	

SYMBOL SCHEDULE		FIRST FLOOR
ROOM #		
AV1	(2)	XLR-F
AV2	(1)	XLR-F
AV3	(1)	XLR-F
AV4	(1)	XLR-F
AV5	(1)	XLR-F
AV6	(1)	XLR-F
SEE WIRING DIAGRAM FOR CONNECTIONS		

AV SYMBOLS LEGEND: EXTRON AV	
<div>MULTIPLE AT SIMILAR LOCATION</div> <div></div>	
<div>OTHER DEVICE (SEE TYPES BELOW)</div> <div></div>	
SYMBOL TYPES:	
TLP	TOUCH PANEL (EXTRON TLP PRO 1025M)
DTP(#)	EXTRON DTP R HWP 4K J31 D
WPB	EXTRON WALL PLATE WPB109
D231	EXTRON DTP R HWP 4K 231D
D232	EXTRON DTP T UWP 4K 232D
TLP1	EXTRON TLP PRO 725M NC
TLP2	EXTRON TLP PRO 1025T
NOTE: NOT ALL TYPES MAY BE USED ON THIS PROJECT	

SPEAKER MOUNTING NOTES:

1. PROVIDE NECESSARY SUSPENSION AND MOUNTING HARDWARE AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS FOR PROPER AND SAFE MOUNTING OF THE SPEAKERS.
2. IF NECESSARY, PROVIDE EXPOSED SURFACE MOUNTED JUNCTION BOXES AND CONDUIT FOR SUSPENDED SPEAKERS. PAINT JUNCTION BOXES AND CONDUIT TO MATCH ADJACENT AREAS.
3. SPEAKER COLOR SHALL BE WHITE. ALL VISIBLE BRACKETS AND MOUNTING HARDWARE SHALL MATCH THE SPEAKER COLOR.

WIRING DIAGRAM NOTES:

1. WIRING DIAGRAM SHALL BE USED AS A GENERAL GUIDE FOR WIRING AND ASSEMBLY OF THE SYSTEM AND MAY NOT SHOW ALL EQUIPMENT THAT NEEDS TO BE PROVIDED. EQUIPMENT LOCATIONS, QUANTITIES AND TYPES TO BE PROVIDED ARE SHOWN ON THE FLOOR PLANS.
2. THE EQUIPMENT MANUFACTURERS LATEST PUBLISHED SPECIFICATIONS SHALL BE CONSIDERED AS PART OF THIS DESIGN.
3. THE CONTRACTOR SHALL FURNISH CONDUIT, WIRE, CONNECTORS, HARDWARE AND ALL OTHER INCIDENTAL ITEMS NECESSARY FOR COMPLETE AND PROPER OPERATION OF THE AV SYSTEM REGARDLESS IF SHOWN OR SPECIFIED.

PRESET SETTINGS:

1. THE CONTRACTOR SHALL MEET WITH THE OWNER AND PROVIDE THE FOLLOWING:
 - a. PROGRAMMING OF ALL AV INTERFACES INCLUDING TOUCH SCREENS, WALL PLATES AND ANY OTHER INCIDENTAL EQUIPMENT.
 - b. PROVIDE THE OWNER WITH MOCK-UPS OF ALL TOUCH SCREEN DEVICES. THESE MOCK-UPS SHALL INCLUDE SCREEN CONFIGURATION, PAGE CONFIGURATION AND BUTTON FLOW/ FUNCTIONALITY.
2. THE CONTRACTOR SHALL PROVIDE AS PART OF HIS BID ANY TIME NECESSARY TO MEET WITH THE OWNER AND PROGRAMMING OF ALL INTERFACES.
3. THE CONTRACTOR SHALL PROVIDE AS PART OF HIS BID ANY ADDITIONAL MEETINGS WITH THE OWNER AND PROGRAMMING OF AV INTERFACES 90 DAYS AFTER THE INSTALLATION IS COMPLETED.

AV GENERAL NOTES:

1. AV DRAWINGS ARE DIAGRAMMATIC. THEY ARE INTENDED TO SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, FITS IN THE ROOM OR SPACE SHOWN AND HAS ALL CLEARANCES REQUIRED BY THE NEC. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.
2. THE AV DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES, BUT NOT LIMITED TO ALL WIRING, SUPPLEMENTAL EQUIPMENT AND PROGRAMMING OF THE SYSTEM FOR A FULLY FUNCTIONAL SYSTEM.
3. IF APPLICABLE, INSTALL EMPTY CONDUIT AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL STRING, JUNCTION BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.
4. SEE ELECTRICAL POWER DRAWINGS FOR POWER CIRCUIT DESIGNATIONS FOR RECEPTACLES & JUNCTION BOXES IF NOT SHOWN ON THE AV DRAWINGS.
5. SPEAKERS LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL INSTALL EACH SPEAKER CLOSE TO THE LOCATION SHOWN, BUT SHALL COORDINATE THE LOCATIONS TO AVOID LIGHTING FIXTURES OR OTHER TRADES EQUIPMENT.
6. ALL AUDIO AND VIDEO CABLES SHALL BE PLENUM RATED CABLE.

CABLE LEGEND		NOT ALL CABLE TYPES MAY BE USED ON THIS PROJECT
TYPE	DESCRIPTION	
AUDIO	22 AWG 2 COND, SHIELDED, PLENUM	
AXLINK	AMX AXLINK CABLE OR APPROVED EQUIVALENT	
CAT5e	CAT5e, UNSHIELDED, PLENUM	
CAT6 SHIELDED	CAT6, SHIELDED, PLENUM	
EXTRON	EXTRON OR EXTRON APPROVED EQUIVALENT	
CONTROL	22 AWG 4 COND, SHIELDED, PLENUM	
IR EMITTER	IR EMITTER CABLE	
FIBER OPTIC	FIBER OPTIC (SPECIFY IN DESCRIPTION)	
PREMADE CABLE	SPECIFIED BELOW EACH LABEL	
POWER (TYP. LOW VOLTAGE)	16 AWG 2 COND, UNSHIELDED, PLENUM	
RF ANTENNA	RG58/RG11 (SPECIFY IN DESCRIPTION)	
RG6 VIDEO	RG6, 20 AWG CENTER W/ COPPER SHIELD	
RG6 FOR CATV/MATV	RG6, 20 AWG CENTER W/ ALUMINUM SHIELD	
SDI DIGITAL VIDEO	RG6, DIGITAL COAX CABLE, PLENUM	
70V SPEAKER	16 AWG 2 COND, UNSHIELDED, PLENUM	
LOW IMPEDANCE SPEAKER	14 AWG 2 COND, 19/27 BARE COPPER, UNSHIELDED PLENUM	
EXTRON XTP	EXTRON XTP CABLE OR APPROVED EQUIVALENT	

COMMON AV WIRING DETAILS

Nutrik Connector
NC19F1, 3 Pole
Female XLR & 1/4"
Switching Mono-Jack

XLR Audio Wiring

Euroblock Connection

TRS Audio Wiring

Note: All Mic./Line Cable Shield
Be A Minimum of 24 AWG

STEREO BALANCED - PHOENIX OR SPIN XLR

SIGNAL	XLR PIN	222 WIRE	224 WIRE
GND	1	SHIELD	SHIELD
L+	2	RED	RED
L-	3	BLACK	BLACK
R+	4	RED	WHITE
R-	5	BLACK	GREEN

5 PIN XLR MALE

5 PIN XLR FEMALE

** CONNECTOR VIEWED FROM FACE OF CONNECTOR

3 PIN XLR

PIN	WIRE	SIGNAL
1	SHIELD	GND
2	RED	+
3	BLACK	-

3 PIN XLR MALE

3 PIN XLR FEMALE

** CONNECTOR VIEWED FROM FACE OF CONNECTOR

PHOENIX OUTPUT (UNBAL)

TO ALL CONNECTIONS BUT 3.5MM

TERMINAL	WIRE	SIGNAL
+	RED	+
-	NOT CONNECTED	
GND	BLACK & SHIELD	GND

3 TERMINAL PHOENIX

UNBALANCED PHOENIX BLOCK TO 3.5MM

PHOENIX	WIRE	TRS
L+	RED	TIP
R+	BLACK	RING
GND	SHIELD	SLEEVE

DO NOT CONNECT L- OR R- AT PHOENIX

3.5MM TRS MALE

RING (R)
TIP (T)
SLEEVE (S)

3.5MM TO UNBALANCED PHOENIX BLOCK

SIGNAL	PIN	WIRE	PIN	SIGNAL
RXD	2	RED	R	TXD
TXD	3	BLACK	T	RXD
GND	5	SHIELD	S	GND

JUMPER L- OR R- TO GROUND AT PHOENIX

3.5MM TRS MALE

RING (R)
TIP (T)
SLEEVE (S)

PHOENIX INPUT (BAL OR UNBAL) & OUTPUT (BAL)

FROM ALL CONNECTIONS BUT 3.5MM

TERMINAL	WIRE	SIGNAL
+	RED	+
-	BLACK	-
GND	SHIELD	GND

3 TERMINAL PHOENIX

TWIST TOGETHER

SCREEN LVC

SCREEN LVC	WIRE	CRESTRON RELAY*
UP	RED	1
DOWN	BLACK	2
COM	WHITE	C

* NOTE THAT RELAY NUMBER SHOWN ON SIGNAL FLOW MAY BE DIFFERENT THAN ABOVE. REFER TO SIGNAL FLOW FOR CORRECT RELAY.

STEREO UNBALANCED 3.5MM & 1/4" TRS

TRS	WIRE	SIGNAL
TIP	RED	LEFT
RING	BLACK	RIGHT
SLEEVE	SHIELD	GND

3.5MM TRS MALE

RING (R)
TIP (T)
SLEEVE (S)

3.5MM TRS FEMALE

TIP (T)

RING (R)

SLEEVE (S)

1/4" TRS MALE

TIP (T)

RING (R)

SLEEVE (S)

BALANCED 3.5MM & 1/4" TRS

TRS	WIRE	SIGNAL
TIP	RED	+
RING	BLACK	-
SLEEVE	SHIELD	GND

3.5MM TRS MALE

RING (R)
TIP (T)
SLEEVE (S)

3.5MM TRS FEMALE

TIP (T)

RING (R)

SLEEVE (S)

1/4" TRS MALE

TIP (T)

RING (R)

SLEEVE (S)

3.5MM TO UNBALANCED PHOENIX BLOCK

TRS	WIRE	PHOENIX
TIP	RED	L+
RING	BLACK	R+
SLEEVE	SHIELD	GND

JUMPER L- OR R- TO GROUND AT PHOENIX

3.5MM TRS MALE

RING (R)
TIP (T)
SLEEVE (S)

RCA/PHONO UNBALANCED LINE AUDIO

TS	WIRE	SIGNAL
TIP	RED	+
SLEEVE	BLACK	GND
SLEEVE	SHIELD	GND

TIP

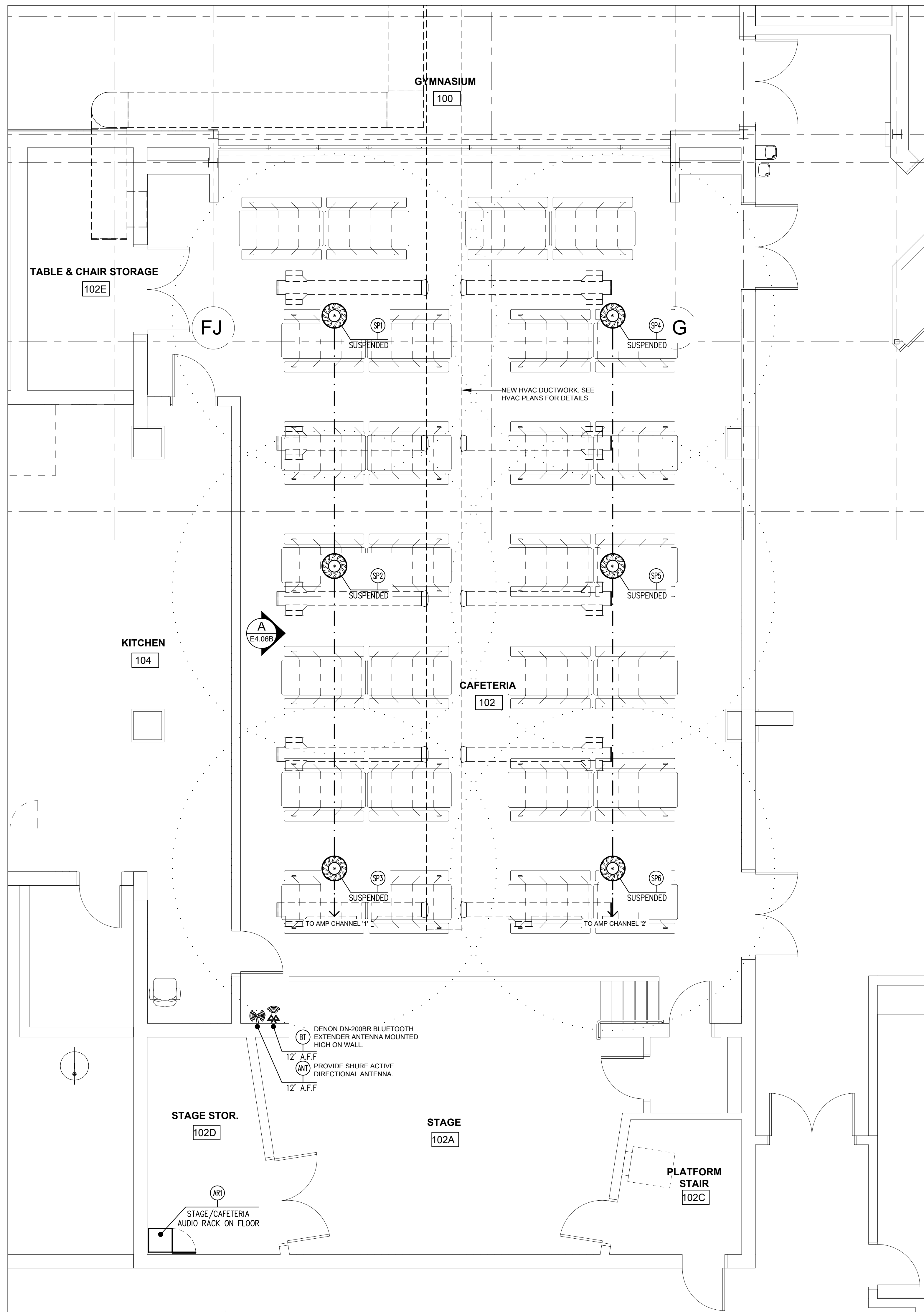
SLEEVE

TIP

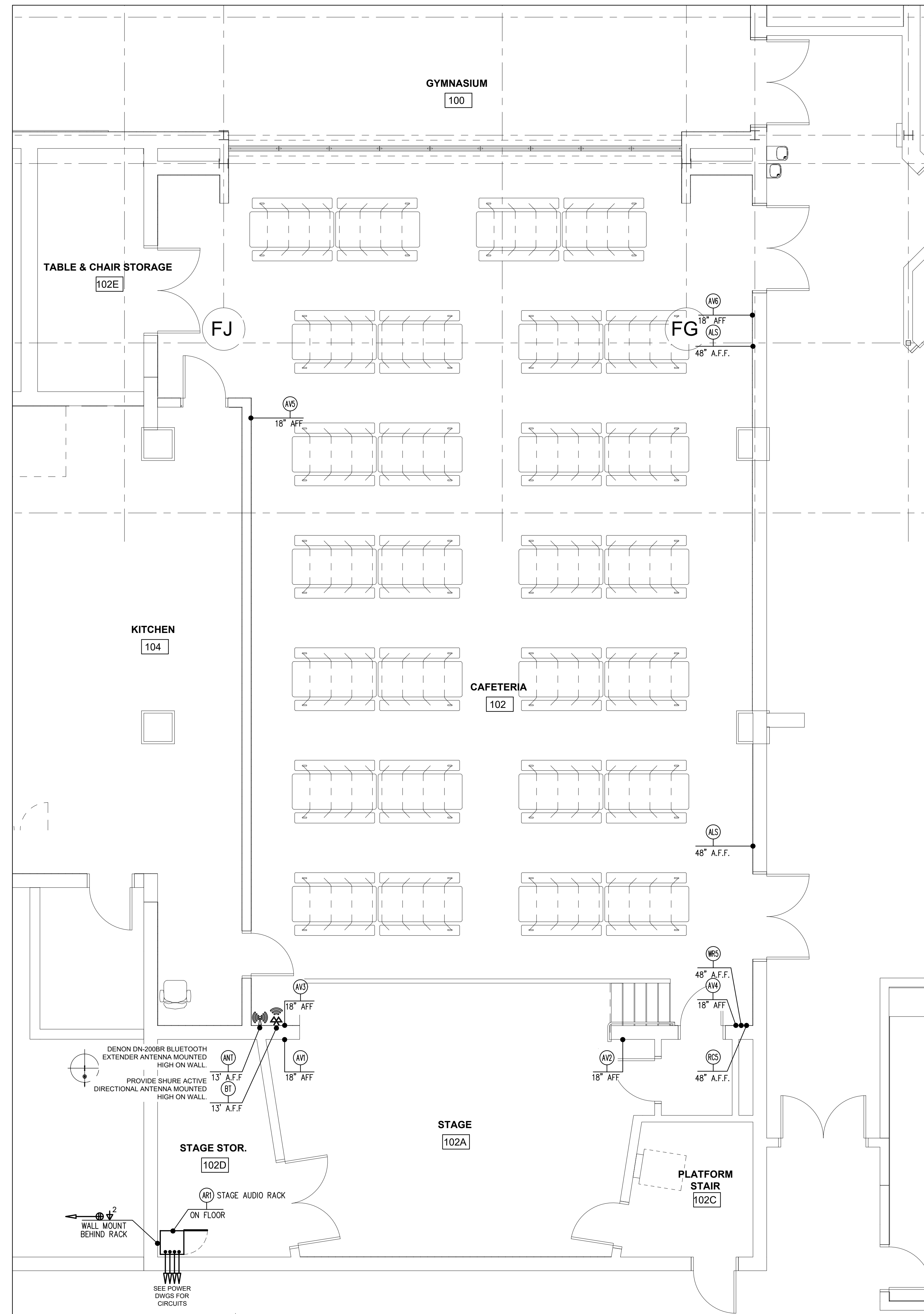
NOTE: NOT ALL CONNECTIONS SHOWN MAY BE USED ON THIS PROJECT AND SOME CONNECTIONS MAY NOT BE SHOWN ON THIS LEGEND. ALWAYS CONNECT WIRING AS RECOMMENDED BY THE MANUFACTURERS.



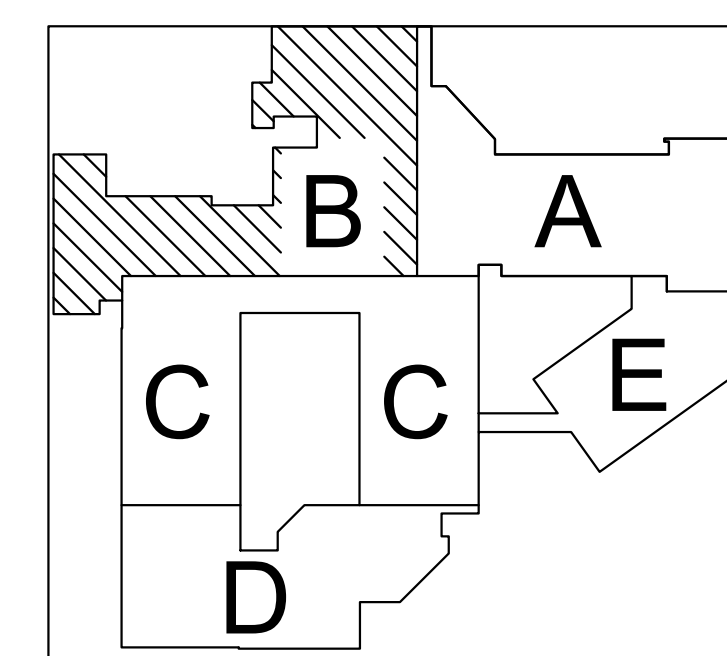
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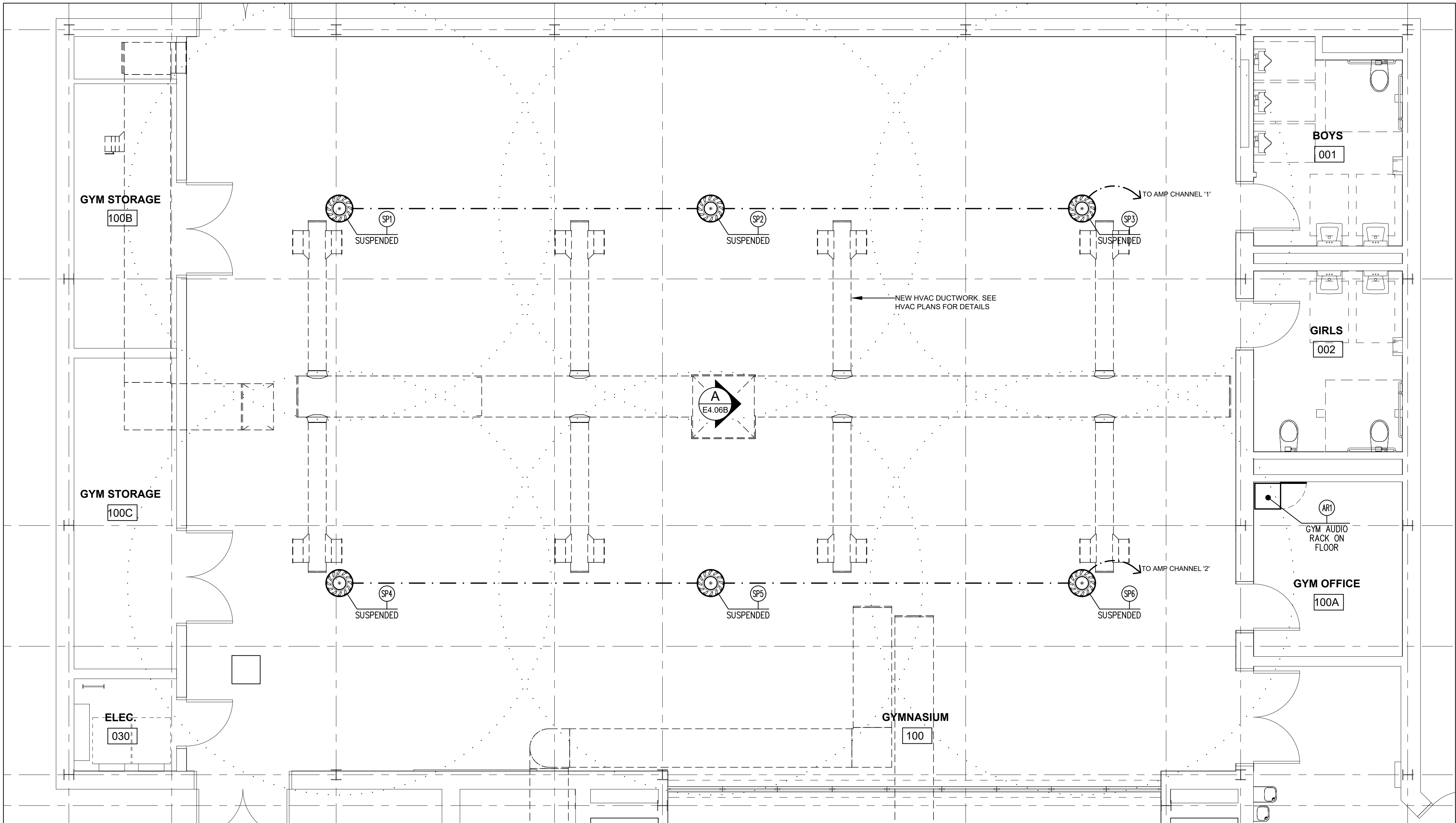


① **FLOOR PLAN - AREA 'B' - CAFETERIA AV SYSTEM - SPEAKER LAYOUT**
1/4" = 1'-0"

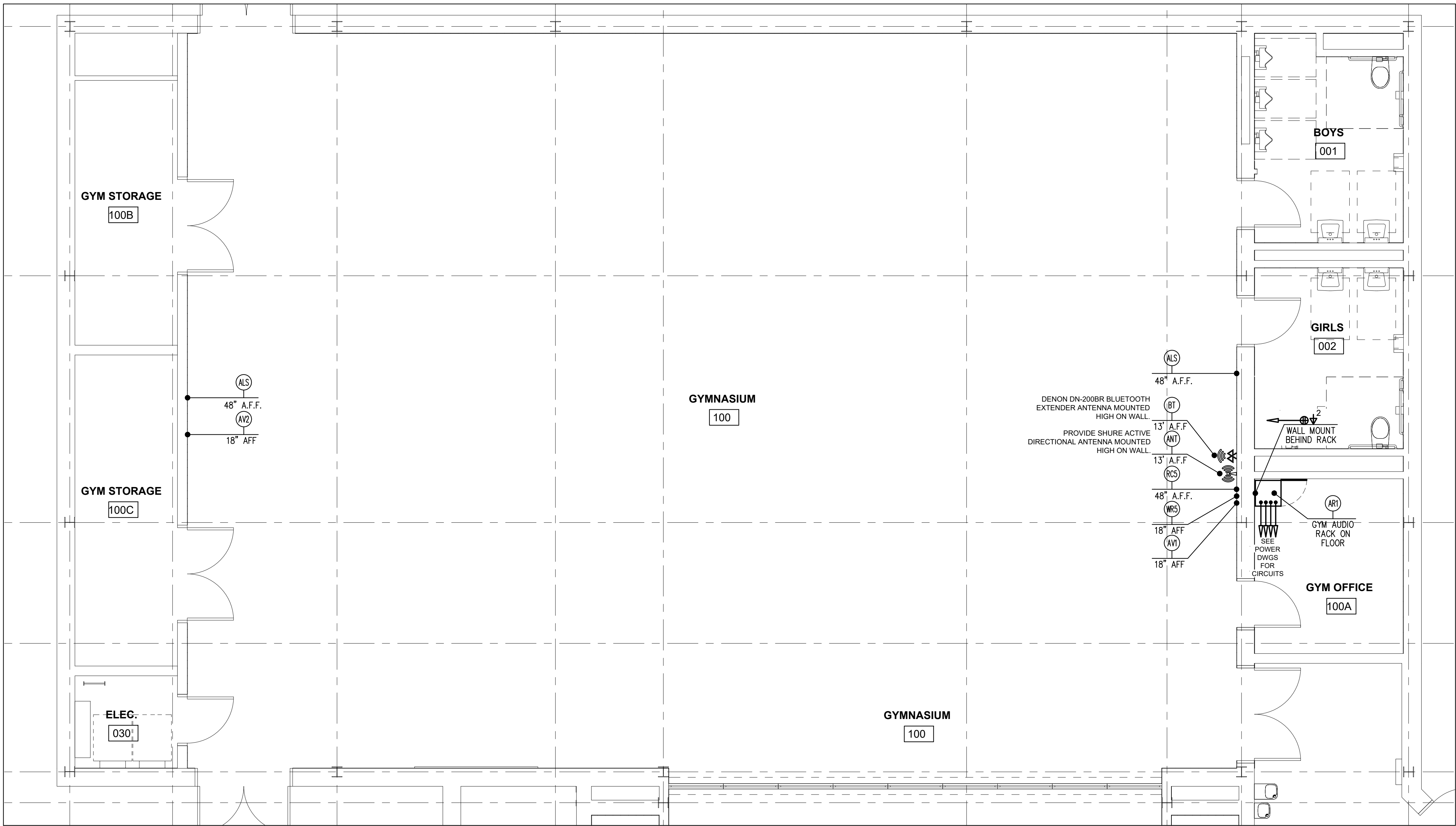


② FLOOR PLAN - AREA 'B' - CAFETERIA AV SYSTEM - DEVICE LAYOUT
1/4" = 1'-0"

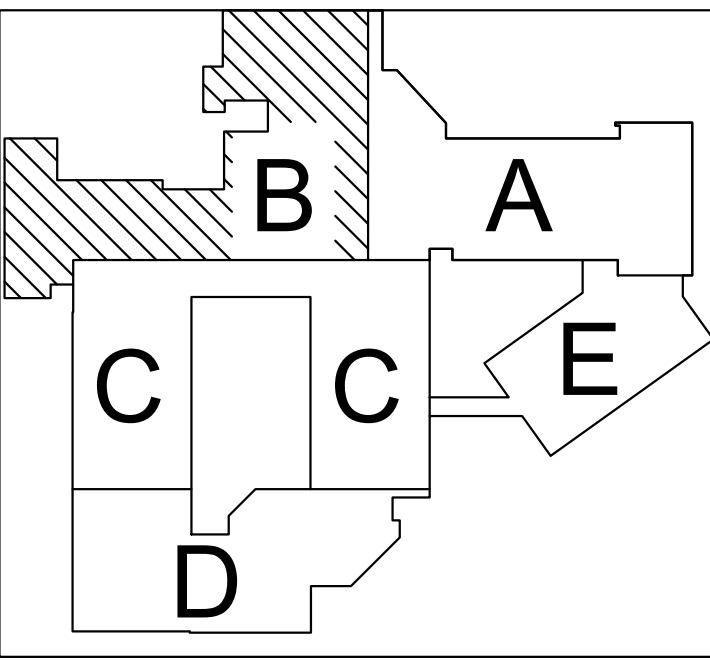




1 FLOOR PLAN - AREA 'B' - GYMNASIUM AV SYSTEM - SPEAKER LAYOUT
1/4" = 1'-0"



2 FLOOR PLAN - AREA 'B' - GYMNASIUM AV SYSTEM - DEVICE LAYOUT
1/4" = 1'-0"



phone: 215.829.0922 x###
CONTACT PERSON: PM Name

OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Client Contact Person

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:
Mary C. Howse Elementary

Project Address:
**641 Boot Road
West Chester, PA 19380**

Sheet Title:
GYMNASIUM - SOUND SYSTEM DETAILS

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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Release	Date	Comments	Δ
	03.24.2023	SCHEMATIC DESIGN	
	05.26.2023	DESIGN DEVELOPMENT	
	07.28.2023	60% CD ISSUE	
	09.19.2023	90% CD ISSUE	
	10.31.2023	BID SET	

BHA Job Number: 22-114
Scale: As indicated
Drawn By: DJ Seibert
Checked By: DJ Seibert
Approved By: RLM
Sheet No.

E4.02B

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OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Client Contact Person

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

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phone: 856.310.1491
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CONTACT PERSON: Jeff Machik, PE

Project:
Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

CAFETERIA - SOUND SYSTEM DETAILS

Seal

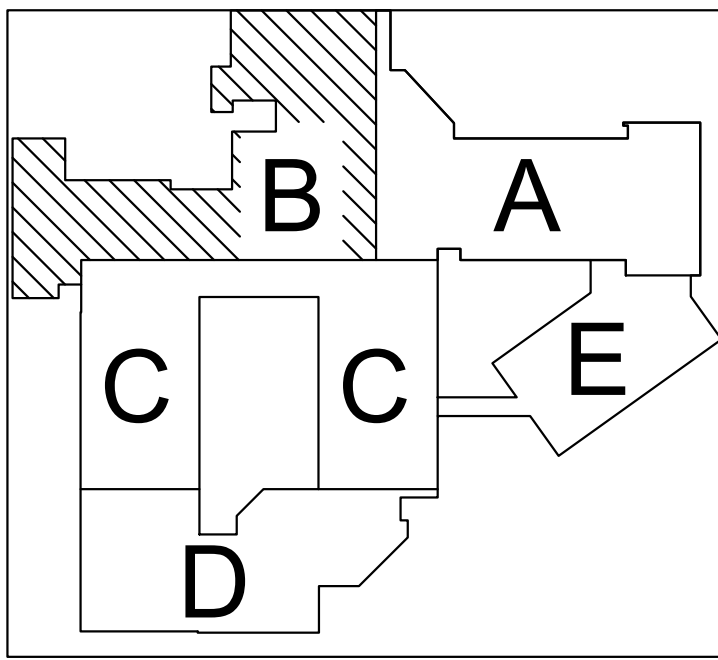
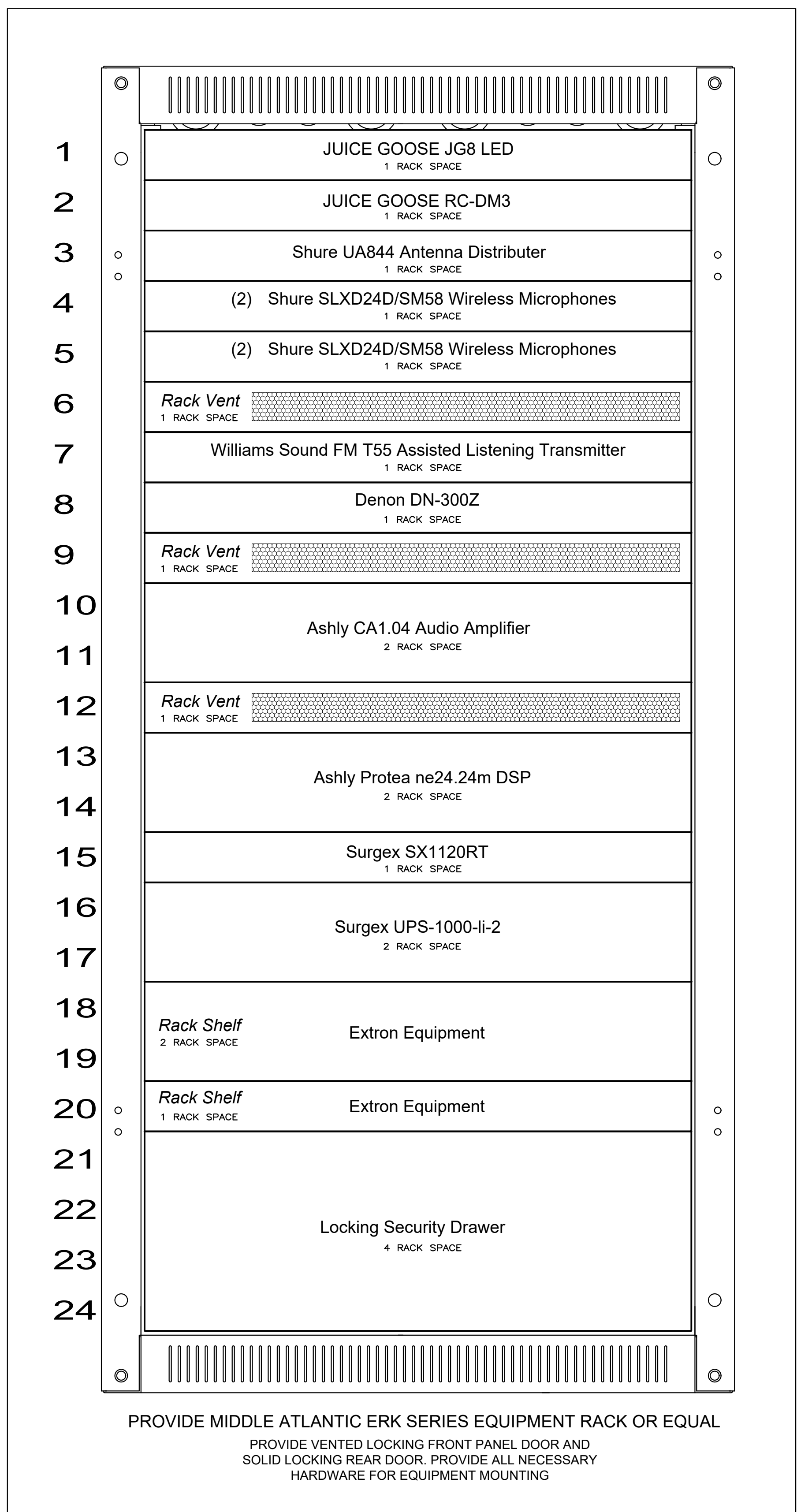
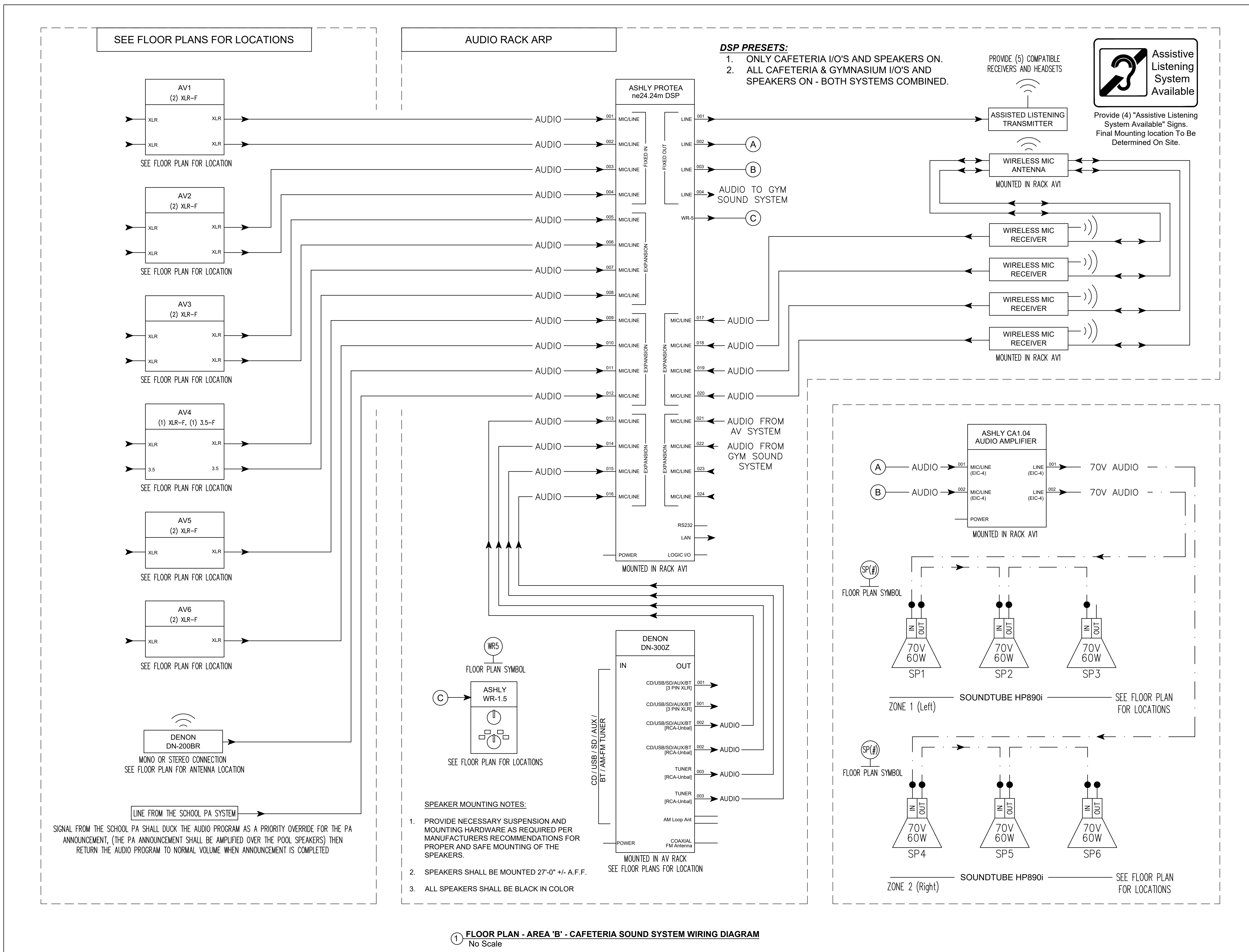
DUTY TO INSPECT CONSTRUCTION DOCUMENTS PRIOR
TO STARTING WORK:
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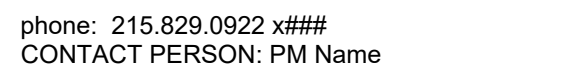
Release		
Date	Comments	△
03.24.2023	SCHEMATIC DESIGN	
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD ISSUE	
09.19.2023	90% CD ISSUE	
10.31.2023	BID SET	

BHA Job Number:	22-114
Scale:	As indicated
Drawn By:	DJ Seibert
Checked By:	DJ Seibert
Approved By:	RLM
Sheet No.	



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MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

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Drawn By:	DJ Seibert
Checked By:	DJ Seibert
Approved By:	RLM

Sheet No. _____

5.1015

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Provide (4) "Assistive Listening System Available" Signs.
Final Mounting location To Be Determined On Site.

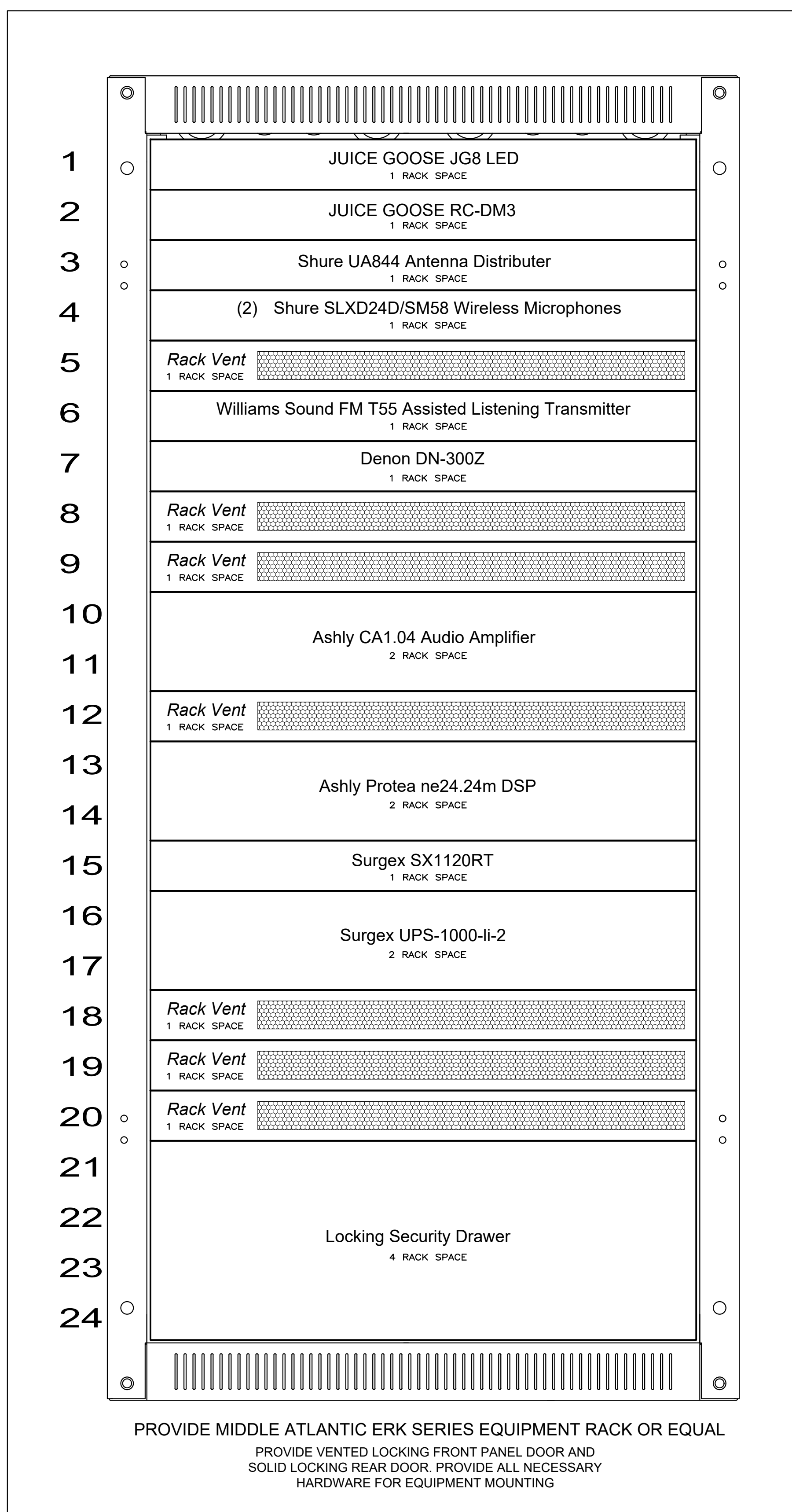
SPEAKER MOUNTING NOTES:

PROVIDE NECESSARY SUSPENSION AND MOUNTING HARDWARE AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS FOR PROPER AND SAFE MOUNTING OF THE SPEAKERS.

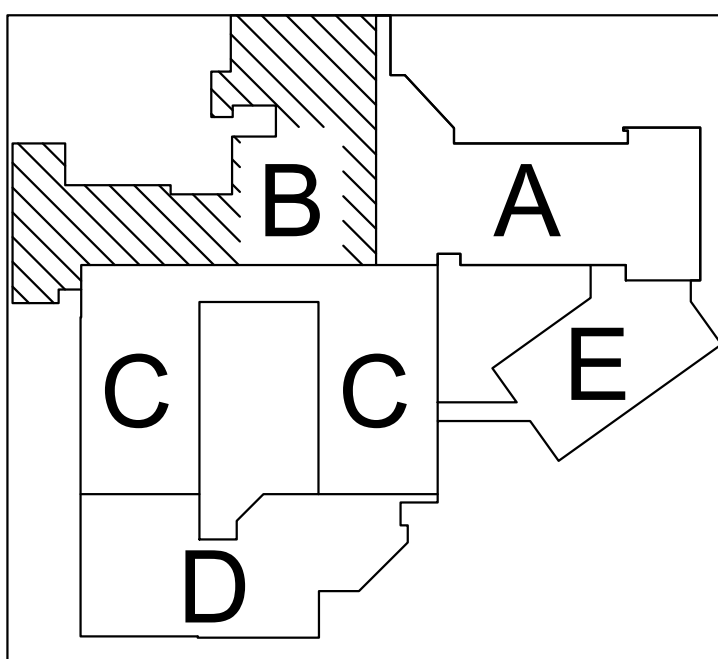
SPEAKERS SHALL BE MOUNTED 27'-0" +/- A.F.F.

ALL SPEAKERS SHALL BE BLACK IN COLOR

SEE FLOOR PLANS FOR LOCATIONS

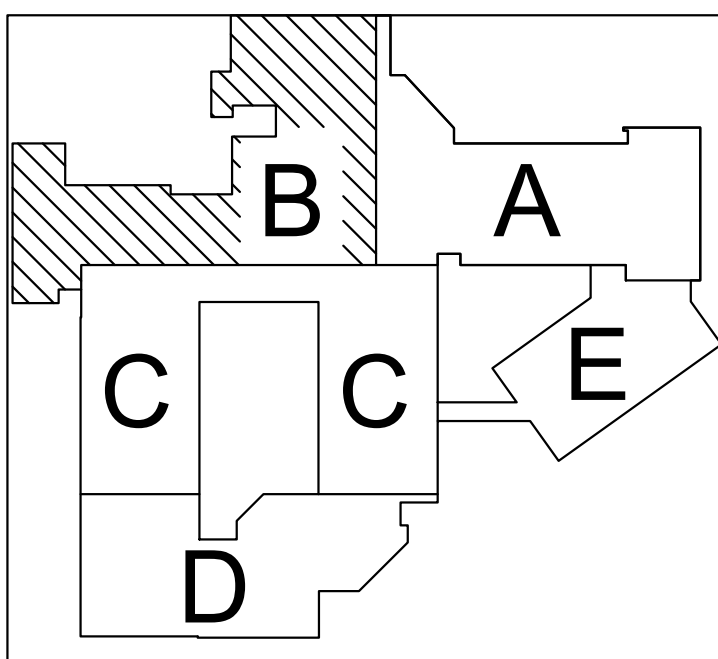
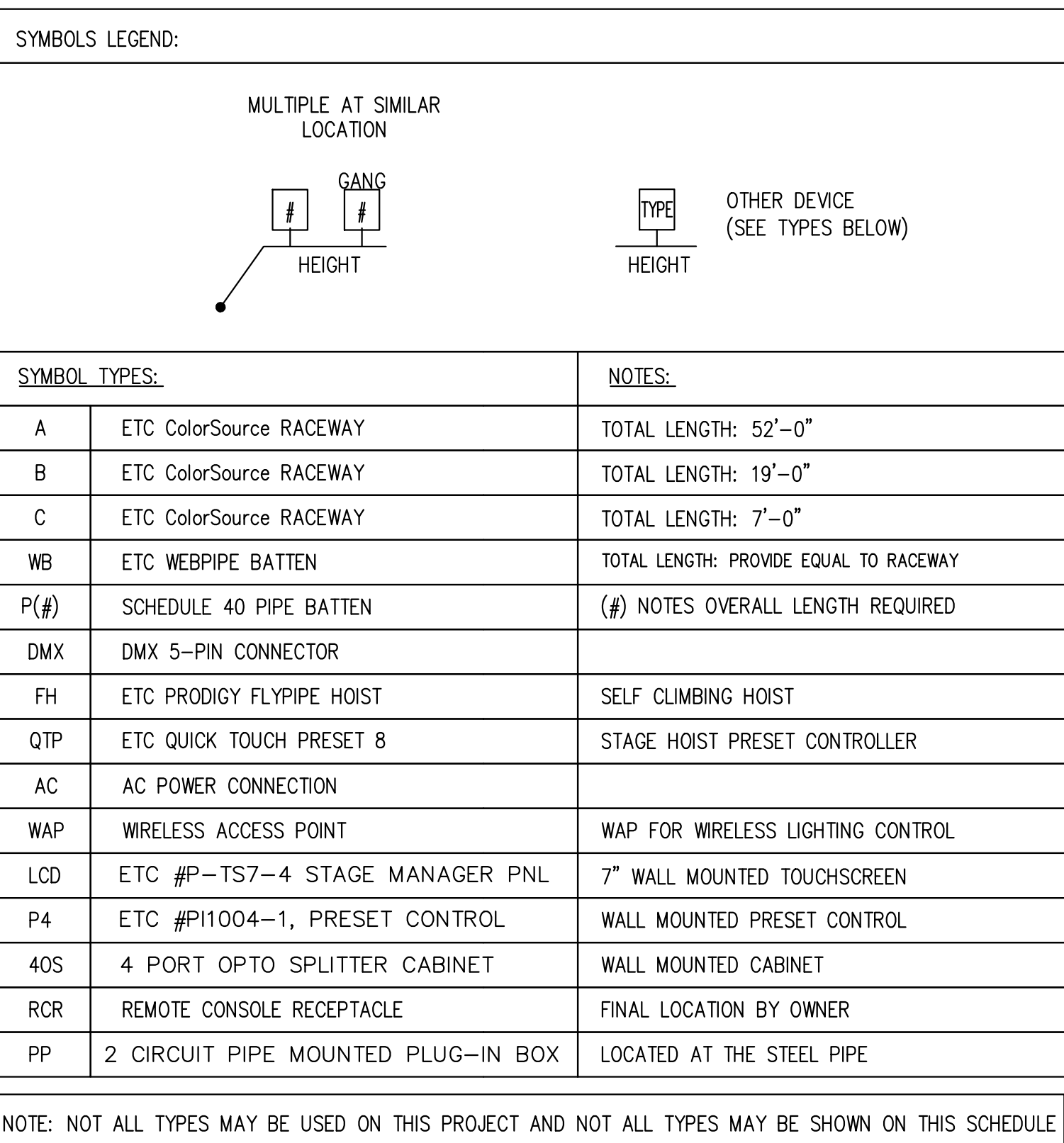
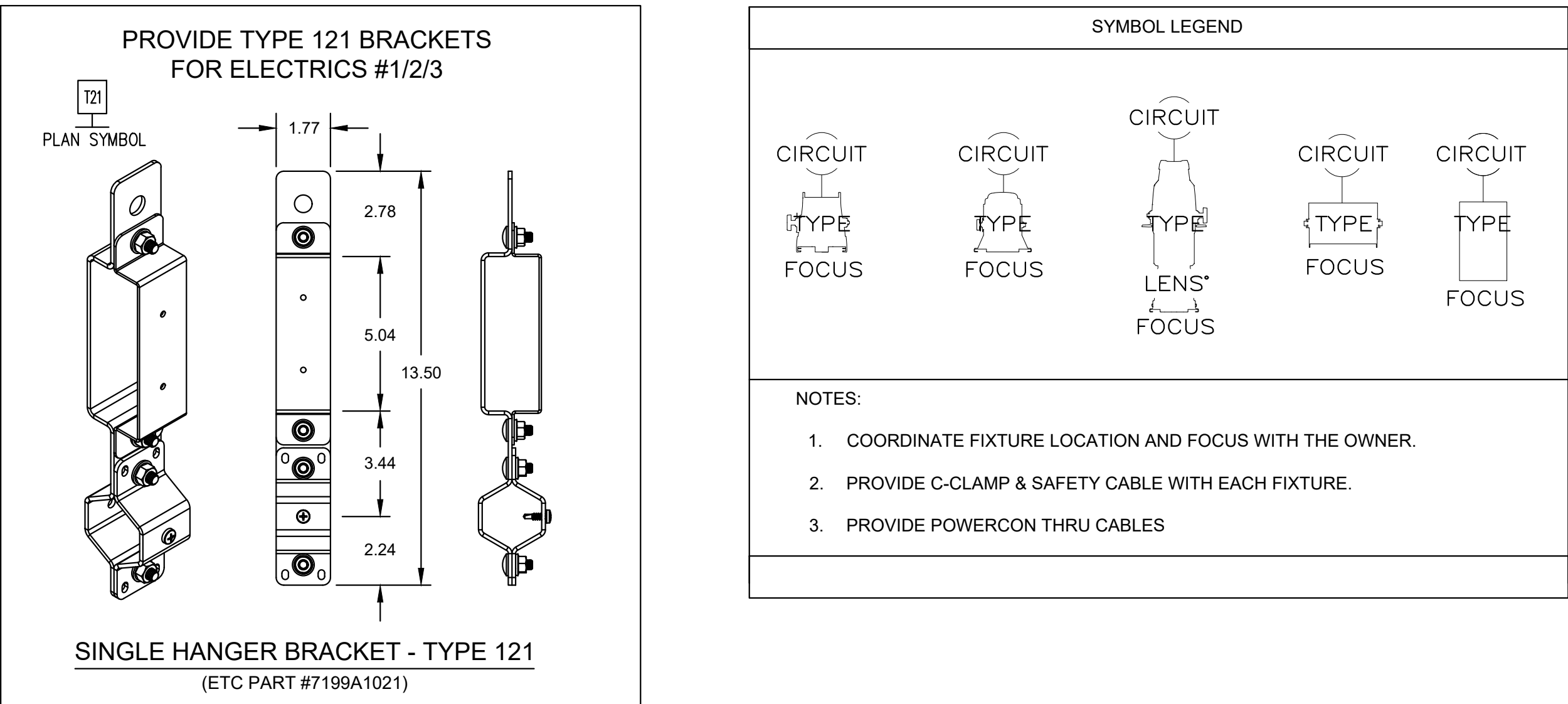
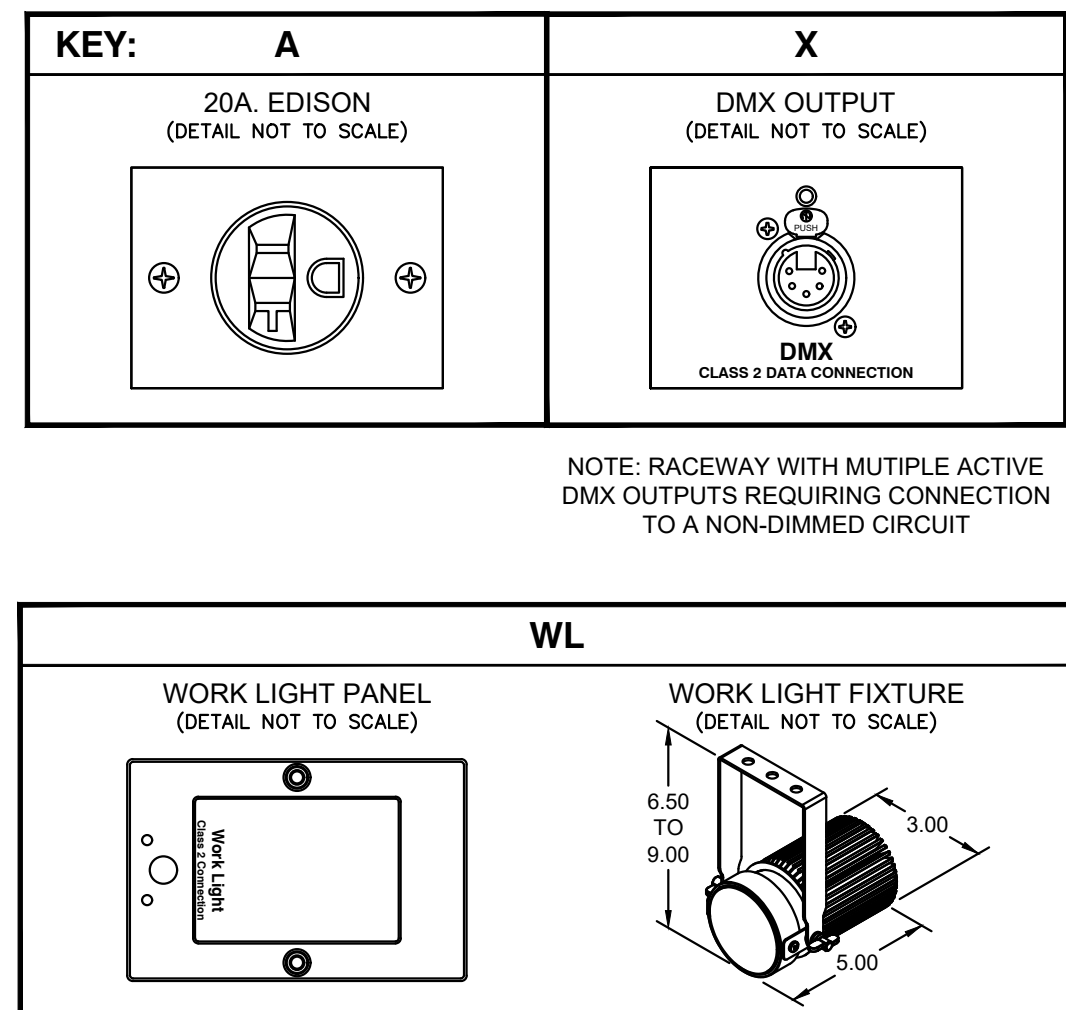


2 FLOOR PLAN - AREA 'B' - GYMNASIUM SOUND SYSTEM RACK ELEVATION
No Scale



NOT FOR CONSTRUCTION

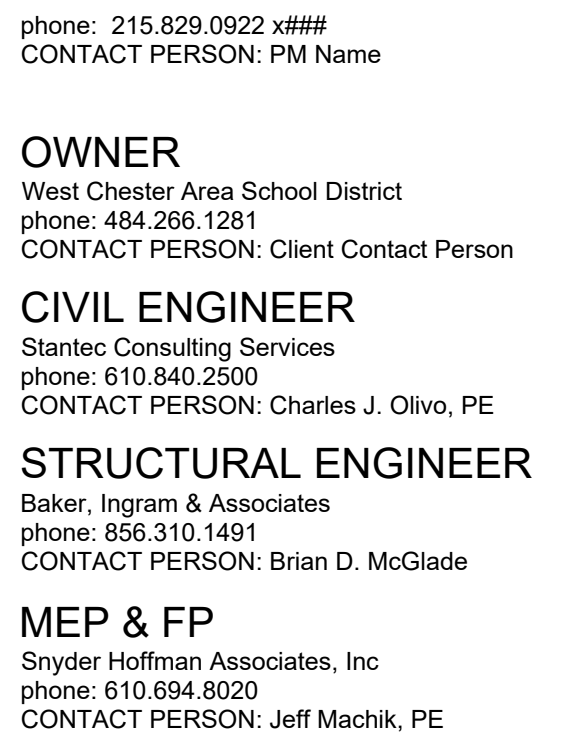
E4.04B



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E4.05B

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Sheet Title:

CAFETERIA & STAGE
ELEVATIONS AND
DETAILS

DUTY TO INSPECT CONSTRUCTION DOCUMENTS PRIOR
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[illegible]

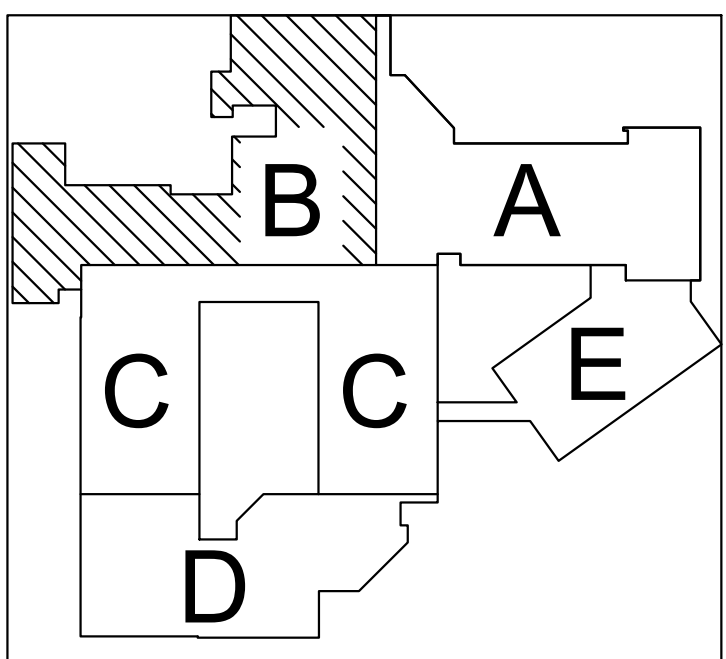
BHA Job Number:	22-114
Scale:	As indicated
Drawn By:	DJ Seibert
Checked By:	DJ Seibert
Approved By:	RLM
Sheet No.	

E4.06B

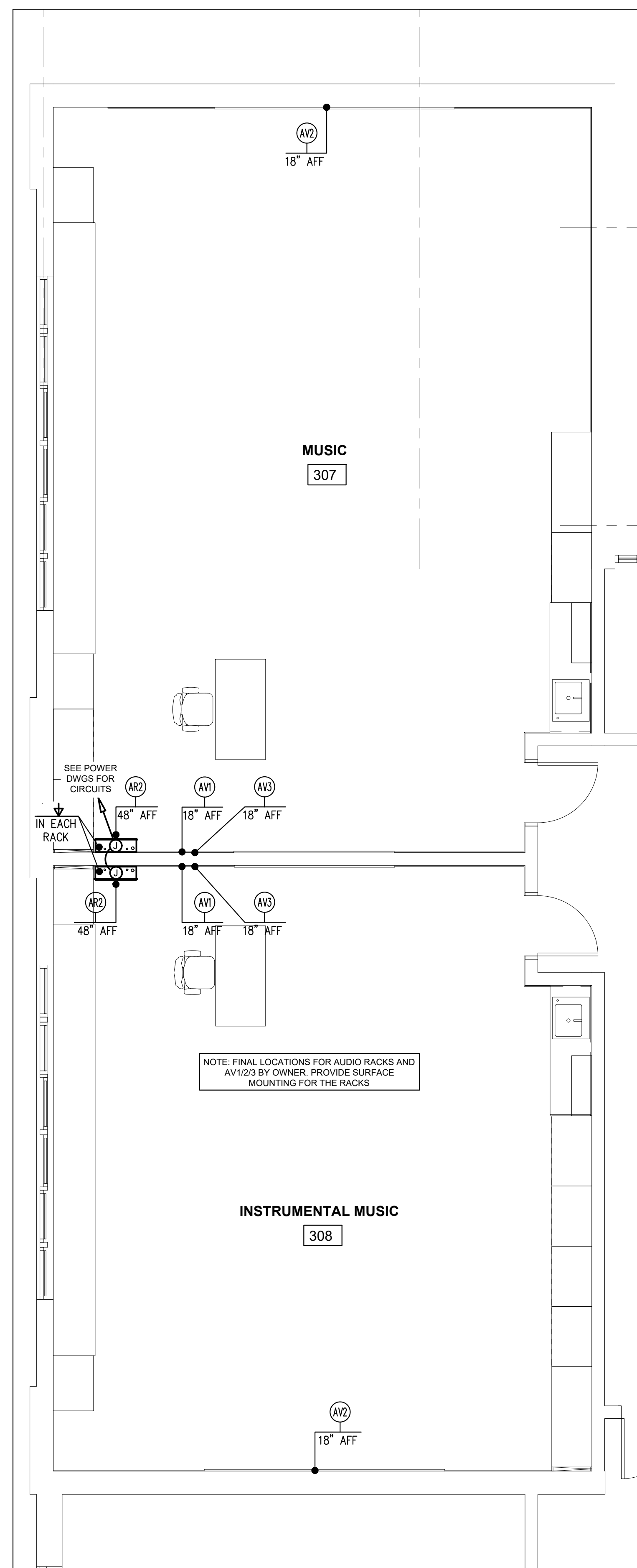
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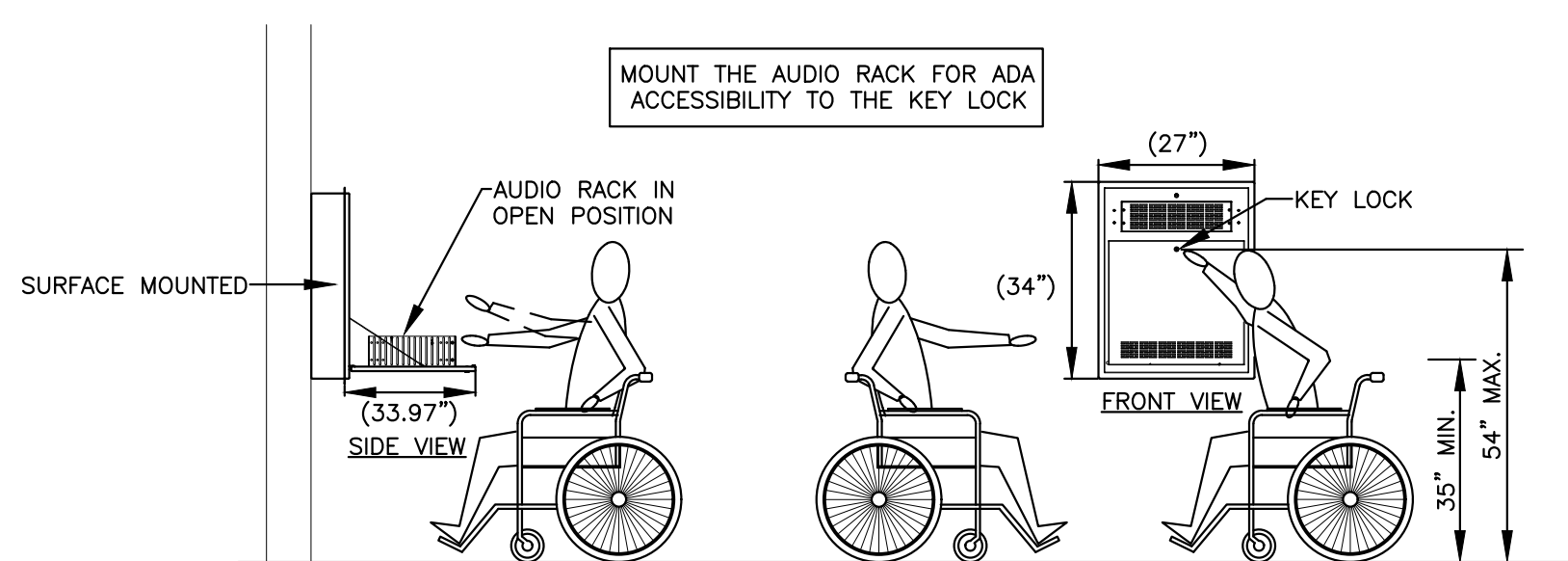
SENSOR IQ 24 3 Ø RELAY PANEL:																			
JOB NUMBER: 21130				JOB NAME: Mary Howse Elemen				DATE: 7.27.2023				REVISION:				PROJECT NOTE: None			
SLOT	RELAY / DIMMER	AMP	DESCRIPTION	FIXTURE		LOAD PHASING				FIXTURE		DESCRIPTION	AMP	RELAY / DIMMER	SLOT				
				QTY	LOAD	A	B	C	LOAD	QTY									
1	1P RELAY/BREAKER	20	Stage Electric #1 - LED Stage Lights	6	90	540	540				90	6	Stage Electric #1 - LED Stage Lights	20	1P RELAY/BREAKER	1			
3	1P RELAY/BREAKER	20	Stage Electric #2 - LED Stage Lights	6	90			540	540		90	6	Stage Electric #2 - LED Stage Lights	20	1P RELAY/BRE/FAKER	4			
5	1P RELAY/BREAKER	20	FOH Electric #1 - LED Stage Lights	2	166					332	332	166	2	FOH Electric #1 - LED Stage Lights	20	1P RELAY/BREAKER	6		
7	1P RELAY/BREAKER	20	FOH Electric #1 - LED Stage Lights	2	166	332	332					166	2	FOH Electric #2 - LED Stage Lights	20	1P RELAY/BREAKER	8		
9	1P RELAY/BREAKER	20	FOH Electric #2 - LED Stage Lights	2	166				332	540		90	6	Stage Work Lights	20	1P RELAY/BREAKER	10		
11	1P RELAY/BREAKER	20								0	0				20	1P RELAY/BREAKER	12		
13	1P RELAY/BREAKER	20				0	0								20	1P RELAY/BREAKER	14		
15	1P RELAY/BREAKER	20						0	0			0	0		20	1P RELAY/BREAKER	16		
17	1P RELAY/BREAKER	20	SPARE	SPARE	0	0				0	0	0	0	SPARE	SPARE	20	1P RELAY/BREAKER	18	
19	1P RELAY/BREAKER	20	SPARE	SPARE	0	0	0	0				0	0	SPARE	SPARE	20	1P RELAY/BRE/FAKER	20	
21	1P RELAY/BREAKER	20	Projector Receptacle	1	360			360	0					Space	20	1P RELAY/BREAKER	22		
23	1P RELAY/BREAKER	20	Projection Screen Power	1	800					800	0			Space	20	1P RELAY/BREAKER	24		
				TOTAL WATTS		1744		2312		1464									
				TOTAL AMPS		14.53		19.27		12.20									
ADDRESSING:															RACK CONTENTS:				
UNIVERSE: 1															IQ24 120V 3PHASE ENCLOSURE W/O BREAKERS (7131A1031)				
ADDRESS: 1															120V 3P MAIN LUG				
CIRCUIT BREAKER /RELAY COUNT																			
SNSR IQ CB W/RELAY 20A 1P 120V-TESTED (CB852-2)															24				



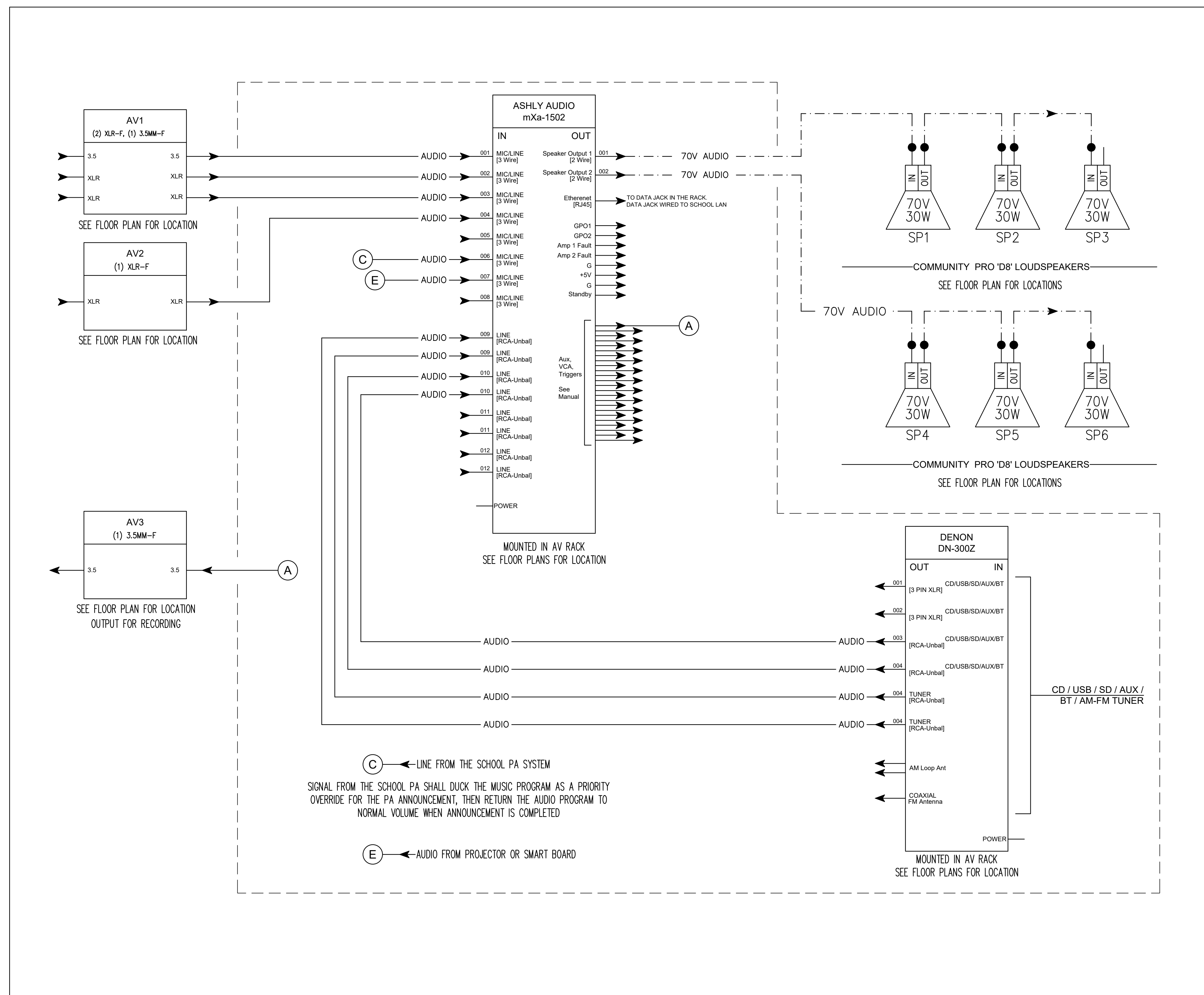
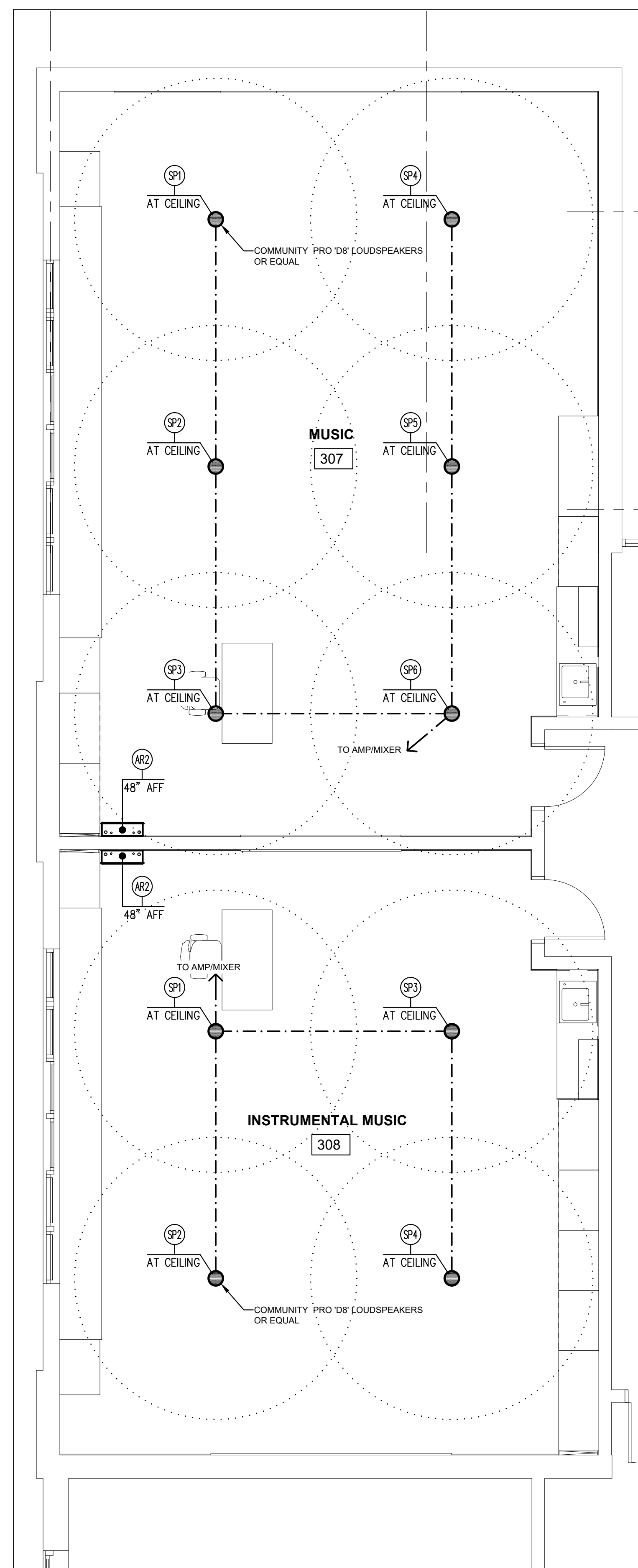
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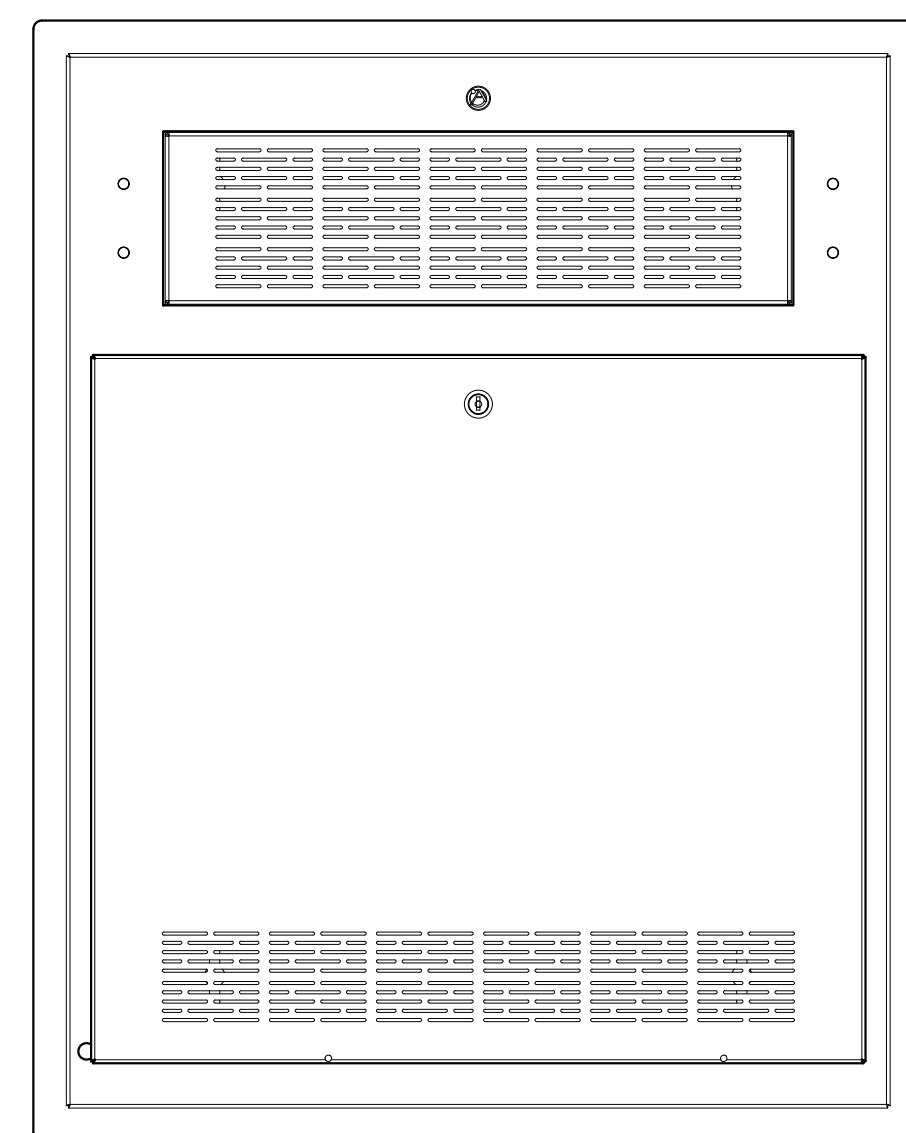
① **FLOOR PLAN - AREA 'B' - INSTRUMENTAL MUSIC & MUSIC CLASSROOM SOUND SYSTEMS**
1/4" = 1'-0"



② **ATLAS AWR3W AUDIO RACK MOUNTING DETAIL**
No Scale



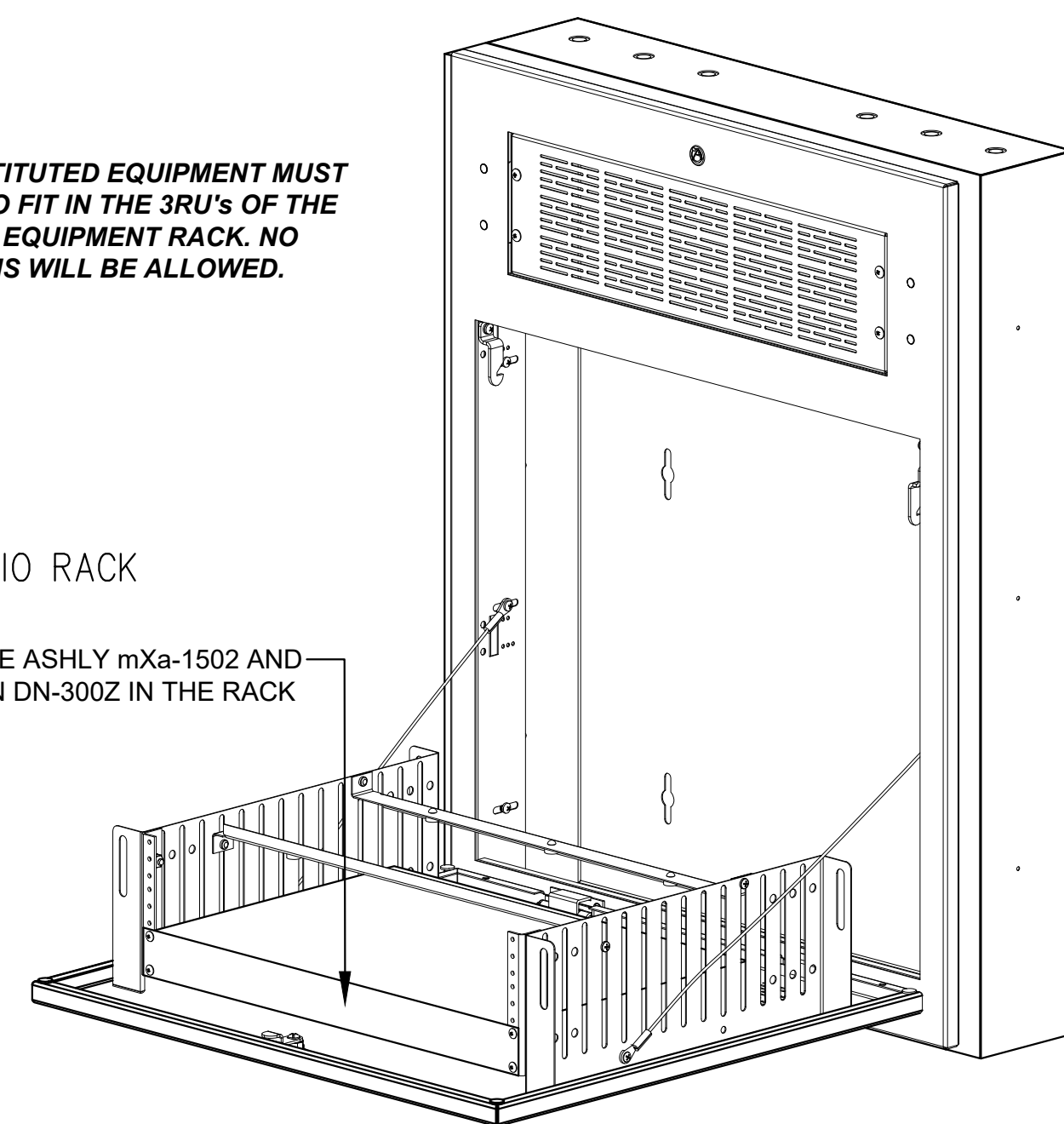
③ **INSTRUMENTAL MUSIC & MUSIC CLASSROOM SOUND SYSTEMS WIRING DIAGRAM**
No Scale



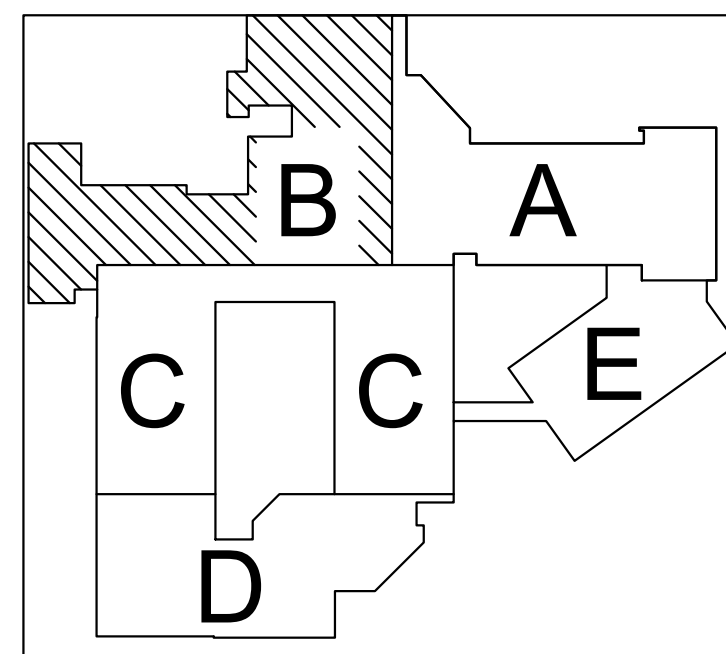
NOTE:
**ANY SUBSTITUTED EQUIPMENT MUST
BE ABLE TO FIT IN THE 3RU's OF THE
RECESSED EQUIPMENT RACK. NO
EXCEPTIONS WILL BE ALLOWED.**



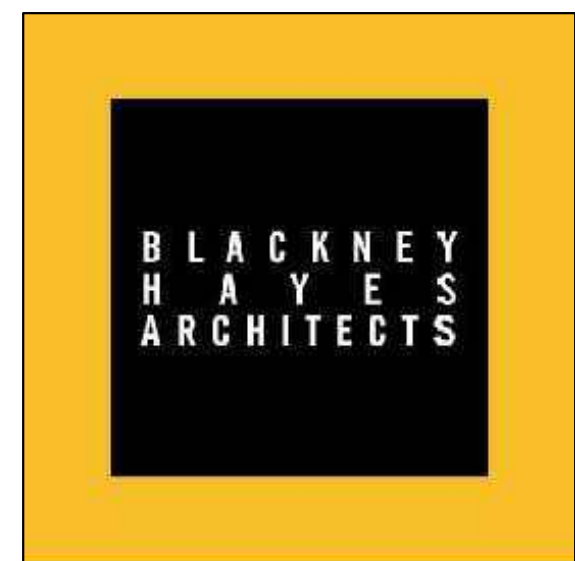
INSTALL THE ASHLY mXa-1502 AND—
THE DENON DN-300Z IN THE RACK



4 INSTRUMENTAL MUSIC & MUSIC CLASSROOM SOUND SYSTEM AV RACK DETAIL
No Scale



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phone: 215.829.0922 x####
CONTACT PERSON: PM Name

OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Client Contact Person

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

MUSIC ROOMS - SOUND SYSTEMS

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK :
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for inspecting the completeness of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts of scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarification or change in writing to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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Release		
Date	Comments	Δ
03.24.2023	SCHEMATIC DESIGN	
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD ISSUE	
09.19.2023	90% CD ISSUE	
10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

Drawn By: DJ Seibert

Checked By: DJ Seibert

Approved By: RLM

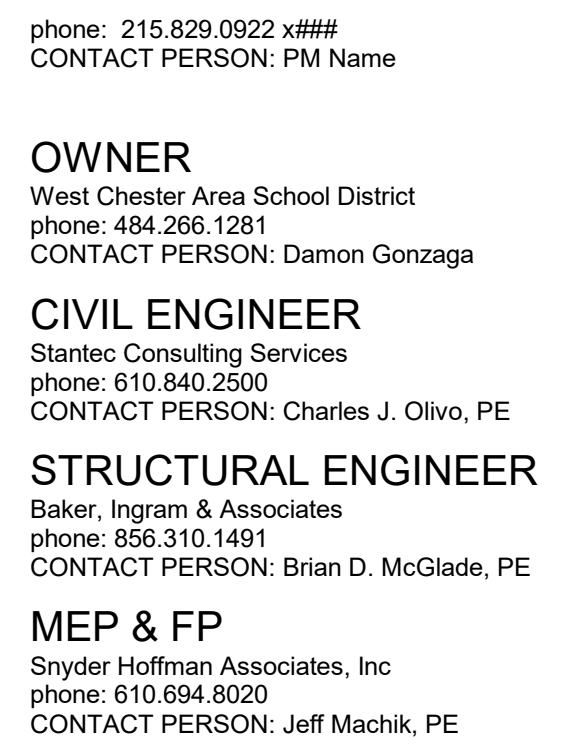
Sheet No _____

E4.07B

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OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project Address:
641 Boot Road
West Chester, PA 19380

DETAILS AND DIAGRAMS - ELECTRICAL

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EXTERIOR LIGHTING SHALL BE CONTROLLED VIA A LIGHTING CONTROL PANEL WITH EMERGENCY RELAYS FOR EGRESS LIGHTING ABOVE DOORS. ALL EXTERIOR LIGHTING SHALL BE FOR DUSK TO DAWN OPERATION CONTROLLED BY A PHOTOCENSOR ON THE ROOF. LIGHTING CONTROL PANEL SHALL HAVE INTEGRAL TIMECLOCK. EXTERIOR POLE LIGHTING SHALL BE CONTROLLED VIA WIRELESS NEDAP LIGHTING CONTROL TO DIM DOWN TO 50% AT TIME SET BY OWNER AND RAMP UP WHEN MOTION IS SENSED.

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E6.03

Branch Panel: PC1C										
Location: CORRIDOR C100B				Volts: 120/208 Wye			A.I.C. Rating: 22,000			
Supply From: DP1C				Phases: 3			Mains Type: MLO			
Mounting: Recessed				Wires: 4			Mains Rating: 225 A			
Enclosure: Type 1							MCB Rating:			
CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	1	20 A	Rcpts - 311	540 / 1080			Rcpts - 310, 312	20 A	1	2
3	1	20 A	LTG - 310, 311		804 / 1080		Rcpts - 313, 315	20 A	1	4
5	1	20 A	LTG - 313, 315			840 / 960	LTG - 312, 314	20 A	1	6
7	1	20 A	CT Charging Cart - 310	1500 / 1080			Teach Rcpts - 313	20 A	1	8
9	1	20 A	CT Charging Cart - 311		1500 / 1080		Teach Rcpts - 314	20 A	1	10
11	1	20 A	CT Charging Cart - 312			1500 / 1080	Teach Rcpts - 315	20 A	1	12
13	1	20 A	Teach Rcpts - 310	1080 / 1104			UV-15 - 315	15 A	1	14
15	1	20 A	Teach Rcpts - 311		1080 / 1104		UV-8 - 310	15 A	1	16
17	1	20 A	Teach Rcpts - 312			1080 / 1104	UV-9 - 312	15 A	1	18
19	1	15 A	UV-10 - 314	1104 / 1500			CT Charging Cart - 313	20 A	1	20
21	1	15 A	UV-13 - 311		1104 / 1500		CT Charging Cart - 314	20 A	1	22
23	1	20 A	UV-14 - 313			1104 / 1500	CT Charging Cart - 315	20 A	1	24
25	1	20 A	Spare	0 / 0			Spare	20 A	1	26
27	1	20 A	Spare		0 / 0		Spare	20 A	1	28
29	1	20 A	Spare			0 / 0	Spare	20 A	1	30
31	1	20 A	Spare	0 / 0			Spare	20 A	1	32
33	1	20 A	Spare		0 / 0		Spare	20 A	1	34
35	1	20 A	Spare			0 / 0	Spare	20 A	1	36
37	1	20 A	Spare	0 / 0			SPD	30 A	3	38
39	1	20 A	Spare		0 / 0		--	--	--	40
41	1	20 A	Spare			0 / 0	--	--	--	42
				8988 VA	9252 VA	9168 VA				
				75 A	77 A	77 A				
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals			
HVAC				6624 VA	100.00%	6624 VA				
Lighting				2634 VA	100.00%	2634 VA	Total Conn. Load: 27408 VA			
Other				0 VA	0.00%	0 VA	Total Est. Demand: 23318 VA			
Receptacle				18180 VA	77.50%	14090 VA	Total Conn. Current: 76 A			
							Total Est. Demand... 65 A			
Notes:										
Provide Bolt-on Breakers, Full Rated Copper Buses, and Equipment Ground Bars.										
Provide Leviton Cat # 32120-DY3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivalent SPD by Equipment Manufacturer										

Branch Panel: PD1B										
Location: CORRIDOR C100B				Volts: 120/208 Wye			A.I.C. Rating: 10,000			
Supply From: DP1D				Phases: 3			Mains Type: MLO			
Mounting: Recessed				Wires: 4			Mains Rating: 225 A			
Enclosure: Type 1							MCB Rating:			
CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	1	20 A	LTG - C100B	371 / 828			LTG - 203C, 205, 207	20 A	1	2
3	1	20 A	Rcpts - 207		540 / 960		LTG - 206, 208	20 A	1	4
5	1	20 A	Rcpts - 205			720 / 900	Rcpts - 205	20 A	1	6
7	1	20 A	Rcpts - C100B, C100F	900 / 1080			Rcpts - 203C	20 A	1	8
9	1	15 A	UV-36 - 203		1104 / 1620		UV-20 - 206	20 A	1	10
11	1	20 A	Rcpts - 206, 208			1080 / 1620	UV-24 - 207	20 A	1	12
13	1	15 A	UV-21 - 208	1104 / 1080			Teach Rcpts - 206	20 A	1	14
15	1	20 A	Teach Rcpts - 207		1080 / 1500		CT Charging Cart - 207	20 A	1	16
17	1	20 A	Teach Rcpts - 208			1080 / 1500	CT Charging Cart - 208	20 A	1	18
19	1	20 A	CT Charging Cart - 206	1500 / 0			Spare	20 A	1	20
21	1	20 A	Spare		0 / 0		Spare	20 A	1	22
23	1	20 A	Spare			0 / 0	Spare	20 A	1	24
25	1	20 A	Spare	0 / 0			Spare	20 A	1	26
27	1	20 A	Spare		0 / 0		Spare	20 A	1	28
29	1	20 A	Spare			0 / 0	Spare	20 A	1	30
31	1	20 A	Spare	0 / 0			Spare	20 A	1	32
33	1	20 A	Spare		0 / 0		Spare	20 A	1	34
35	1	20 A	Spare			0 / 0	Spare	20 A	1	36
37	1	20 A	Spare	0 / 0			SPD	30 A	3	38
39	1	20 A	Spare		0 / 0		--	--	--	40
41	1	20 A	Spare			0 / 0	--	--	--	42
				6863 VA	6804 VA	6900 VA				
				57 A	57 A	58 A				
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals			
HVAC				5448 VA	100.00%	5448 VA				
Lighting				2159 VA	100.00%	2159 VA	Total Conn. Load: 20567 VA			
Receptacle				12960 VA	88.58%	11480 VA	Total Est. Demand: 19067 VA			
							Total Conn. Current: 57 A			
							Total Est. Demand... 53 A			
Notes:										
Provide Bolt-on Breakers, Full Rated Copper Buses, and Equipment Ground Bars.										
Provide Leviton Cat # 32120-DY3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivalent SPD by Equipment Manufacturer										

Branch Panel: DP1D										
Location: ELEC. 011				Volts: 120/208 Wye			A.I.C. Rating: 22,000			
Supply From: SWA				Phases: 3			Mains Type: MLO			
Mounting: Surface				Wires: 4			Mains Rating: 600 A			
Enclosure: Type 1							MCB Rating:			
CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	3	175 A	PD1A	8220 / 6863			PD1B	150 A	3	2
3	--	--	--		9520 / 6804	10251 / ...	--	--	--	4
5	--	--	--				--	--	--	6
7	3	150 A	PD1C	8644 / ...			PD1D	175 A	3	8
9	--	--	--		8544 / ...		--	--	--	10
11	--	--	--			8544 / ...	--	--	--	12
13	3	90 A	RTU-2 - Roof	8719 / 0			Spare	100 A	3	14
15	--	--	--		8719 / 0		--	--	--	16
17	--	--	--			8719 / 0	--	--	--	18
19	1	--	Space	0 / 0			Spare	30 A	3	20
21	1	--	Space		0 / 0		--	--	--	22
23	1	--	Space			0 / 0	--	--	--	24
25	1	--	Space	0 / 0			SPD	30 A	3	26
27	1	--	Space		0 / 0		--	--	--	28
29	1	--	Space			0 / 0	--	--	--	30
				42900 VA	43929 VA	44842 VA				
				357 A	367 A	375 A				
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals			
HVAC				48127 VA	100.00%	48127 VA				
Lighting				11065 VA	100.00%	11065 VA	Total Conn. Load: 131670 VA			
Other				2160 VA	100.00%	2160 VA	Total Est. Demand: 103310 VA			
Power				3600 VA	100.00%	3600 VA	Total Conn. Current: 365 A			
Receptacle				66720 VA	57.49%	38360 VA	Total Est. Demand... 287 A			
Notes:										
Provide Bolt-on Breakers, Full Rated Copper Buses, and Equipment Ground Bars										
Provide Leviton Cat # 32120-DY3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivalent SPD by Equipment Manufacturer										

Branch Panel: PD1C										
Location: CORRIDOR C100E				Volts: 120/208 Wye			A.I.C. Rating: 10,000			
Supply From: DP1D				Phases: 3			Mains Type: MLO			
Mounting: Recessed				Wires: 4			Mains Rating: 225 A			
Enclosure: Type 1							MCB Rating:			
CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	1	20 A	LTG - 115	480 / 940			LTG - 116, 118	20 A	1	2
3	1	20 A	Rcpts - 116, 118		1080 / 1080		Rcpts - 117, 119	20 A	1	4
5	1	20 A	Rcpts - 115			540 / 636	LTG - C100B, C110E, C100F	20 A	1	6
7	1	20 A	LTG - 117, 119	960 / 1500			CT Charging Cart - 115	20 A	1	8
9	1	20 A	UV-32 - 119		1620 / 1080		Teach Rcpts - 118	20 A	1	10
11	1	15 A	UV-30 - 118			1104 / 1500	CT Charging Cart - 116	20 A	1	12
13	1	20 A	Teach Rcpts - 117	1080 / 1080			Rcpts - C100E, Exterior	20 A	1	14
15	1	20 A	Teach Rcpts - 115		1080 / 1104		UV-33 - 117	15 A	1	16
17	1	20 A	Teach Rcpts - 119			1080 / 1080	Teach Rcpts - 116	20 A	1	18
19	1	20 A	UV-31 - 116	1104 / 1500			CT Charging Cart - 117	20 A	1	20
21	1	20 A	CT Charging Cart - 118		1500 / 0		Spare	20 A	1	22
23	1	15 A	UV-34 - 115			1104 / 1500	CT Charging Cart - 119	20 A	1	24
25	1	20 A	Spare	0 / 0			Spare	20 A	1	26
27	1	20 A	Spare		0 / 0		Spare	20 A	1	28
29	1	20 A	Spare			0 / 0	Spare	20 A	1	30
31	1	20 A	Spare	0 / 0			Spare	20 A	1	32
33	1	20 A	Spare		0 / 0		Spare	20 A	1	34
35	1	20 A	Spare			0 / 0	Spare	20 A	1	36
37	1	20 A	Spare	0 / 0			SPD	30 A	3	38
39	1	20 A	Spare		0 / 0		--	--	--	40
41	1	20 A	Spare			0 / 0	--	--	--	42
				8644 VA	8544 VA	8544 VA				
				72 A	71 A	71 A				
Load Classification			Connected Load	Demand Factor	Estimated...		Panel Totals			
Lighting			6036 VA	100.00%	6036 VA		Total Conn. Load: 25732 VA			
Receptacle			3016 VA	100.00%	3016 VA		Total Est. Demand: 22392 VA			
			16680 VA	79.98%	13340 VA		Total Conn. Current: 71 A			
							Total Est. Demand: 62 A			
Notes:										
Provide Bolt-on Breakers, Full Rated Copper Buses, and Equipment Ground Bars.										
Provide Leviton Cat # 31210-DY3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivalent SPD by Equipment Manufacturer										



OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

Mary C. Howse
Elementary

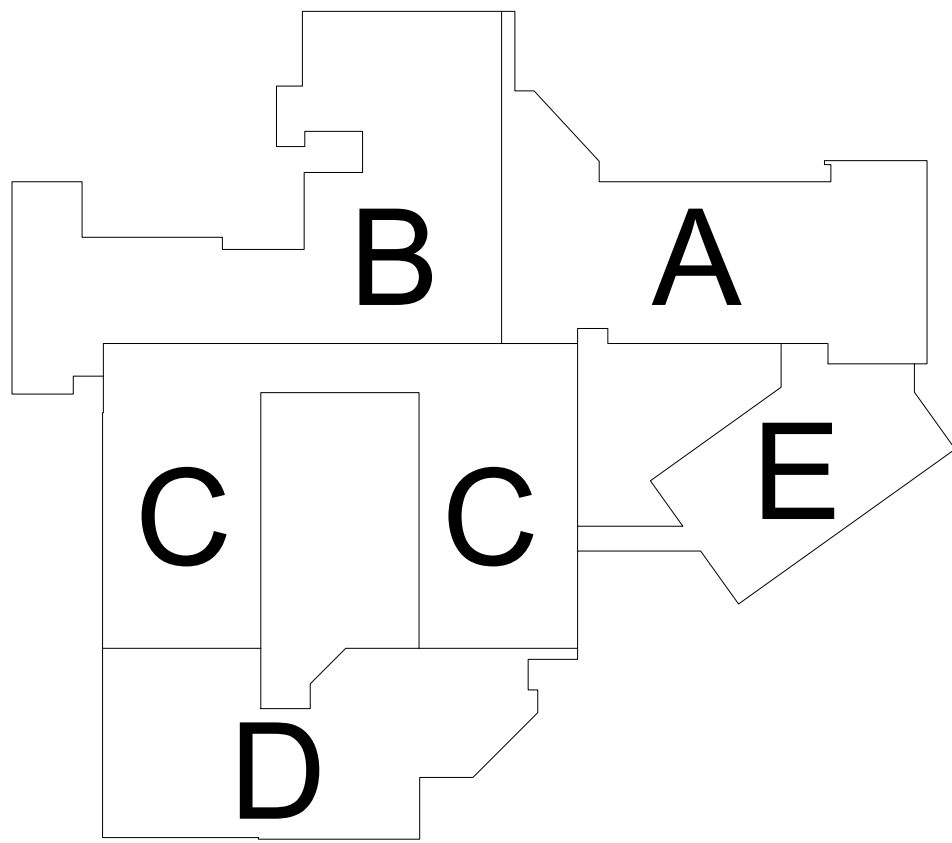
OVERALL DEMOLITION
ROOF PLAN -
ELECTRICAL

STARTING WORK
Any person or persons, in whole or in part, who on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the project. It is the responsibility of the person or persons representing that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, to begin work, submit all requests for clarification or additional information to the Architect in writing. **All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.**

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[illegible]

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OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

LIGHTING FIXTURE SCHEDULE NOTES:

1. FINISH AS SELECTED BY ARCHITECT DURING SHOP DRAWING SUBMISSION. ASSUME PREMIUM FINISH.
2. REFER TO INTERIOR LUMINAIRE SCHEDULE FOR INFORMATION ON BUILDING MOUNTED FIXTURES.



- GENERAL SITE LIGHTING NOTES:
1. REFER TO E0.00 FOR LEGEND AND GENERAL NOTES.
 2. PERFORM A PA ONE-CALL PRIOR TO CONDUCTING ANY SITEWORK.
 3. ALL CIRCUITS SHALL BE A MINIMUM (2) #10, (1) #10 GROUND IN 1" CONDUIT AND A MINIMUM OF 24" BELOW GRADE.
 4. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION ON BUILDING MOUNTED FIXTURES.

[illegible]

BHA Job Number: 22-114

Scale: As indicated

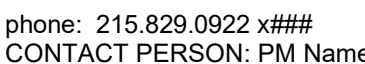
Drawn By: DJG

Checked By: DAN

Approved By: RLM

Sheet No.

SE1.01



OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

CIVIL ENGINEER
Stantec Consulting Services
phone: 610.840.2500
CONTACT PERSON: Charles J. Olivo, PE

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

SITE PLAN - POWER

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

STARTING WORK: Each party who relies in part or whole on the content of these Construction Documents shall, before beginning work, read and interpret the documents with respect to the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflict, omissions, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and that they understand the project's design, standards, product requirements and code requirements and that they are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

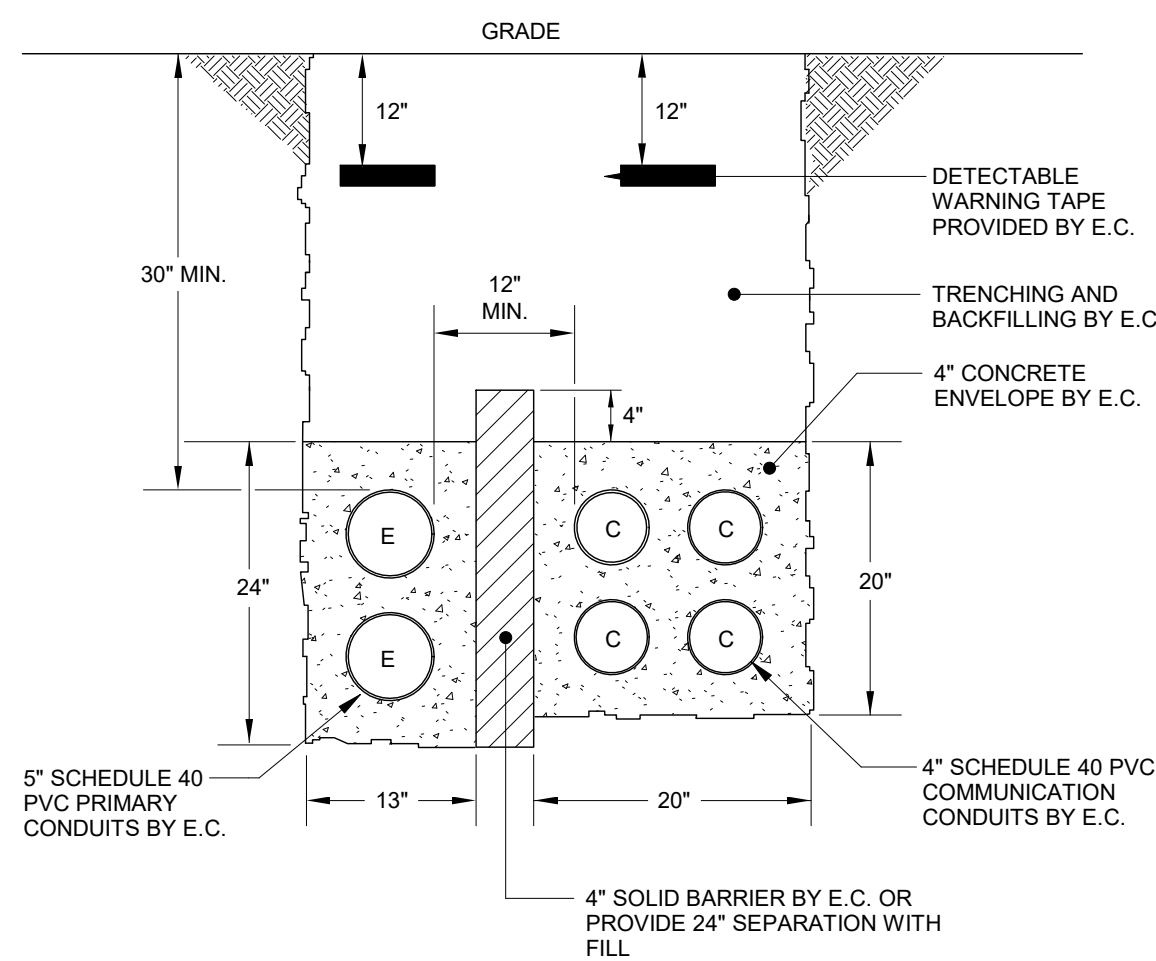
Drawn By: DJG

Checked By: DAN

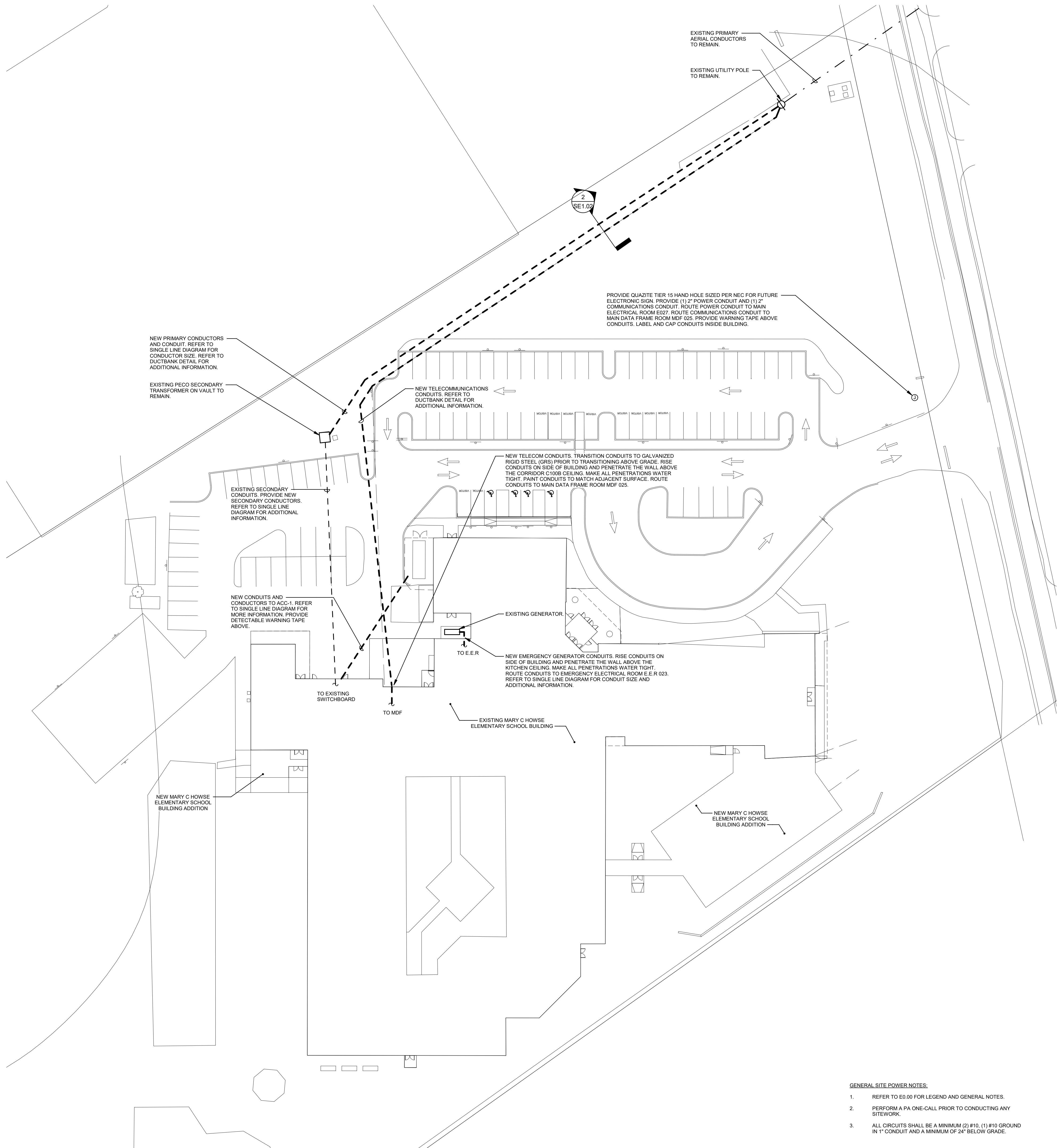
Sheet No.

SE1.02

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② SECTION A
NO SCALE



① **SITE PLAN - POWER**
1" = 30'-0"

GENERAL SITE POWER NOTES:

1. REFER TO E0.00 FOR LEGEND AND GENERAL NOTES.
2. PERFORM A PA ONE-CALL PRIOR TO CONDUCTING ANY SITEMARK.
3. ALL CIRCUITS SHALL BE A MINIMUM (2) #10, (1) #10 GROUND IN 1" CONDUIT AND A MINIMUM OF 24" BELOW GRADE.

NOT FOR CONSTRUCTION



OWNER
West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

STRUCTURAL ENGINEER
Baker, Ingram & Associates
phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

MEP & FP
Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

SITE DEMOLITION PLAN - ELECTRICAL

Seal

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning construction, investigate and verify by inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and shall not rely on the documents for design, code, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. The Architect does not warrant or hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

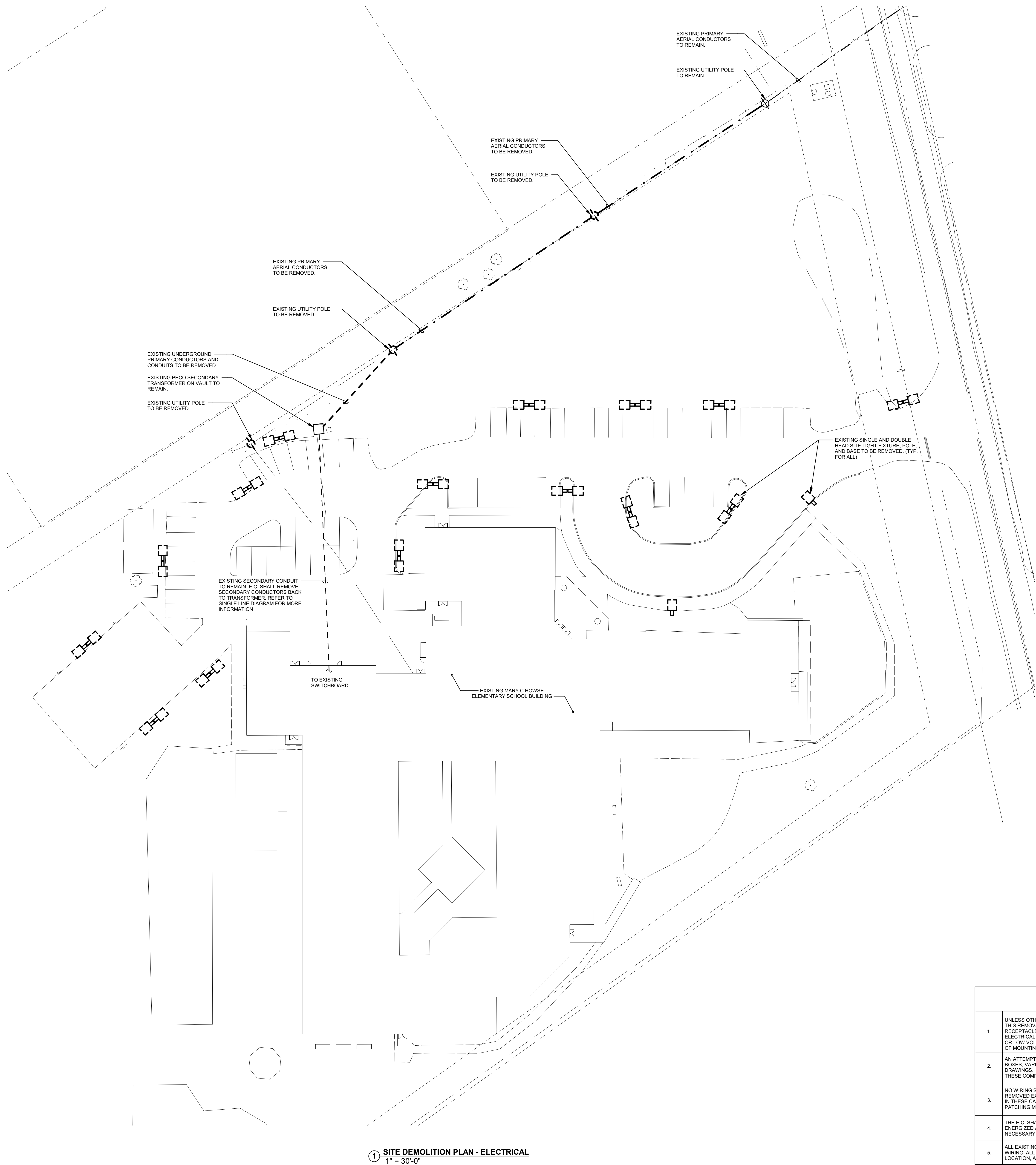
Warning: Actual conditions may vary from conditions shown on this drawing. Confirm all information in the field before proceeding with any work and notify the Architect in writing if a variation is discovered.

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DEMOLITION NOTES

UNLESS OTHERWISE INDICATED OR NOTED, ALL ELECTRICAL ITEMS SHOWN ARE TO BE REMOVED. THIS REMOVAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS: LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE OUTLETS AND JACKS, AND ALL OTHER ELECTRICAL ITEMS SHOWN ON THIS DRAWING. THIS INCLUDES ANY ASSOCIATED BRANCH CIRCUIT OR LOW VOLTAGE WIRING BACK TO ITS SOURCE. THE E.C. IS ALSO RESPONSIBLE FOR THE REMOVAL OF MOUNTING DEVICES, HANGERS, ETC. ASSOCIATED WITH THIS EQUIPMENT.

AN ATTENTION HAS BEEN MADE TO SHOW ALL THE LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE TAGS, AND ALL ELECTRICAL ITEMS ON THE DEMOLITION DRAWINGS. HOWEVER, THE E.C. SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY AND ALL OF THESE COMPONENTS THAT EXIST IN THE FIELD AND ARE IN THE WAY OF THE NEW CONSTRUCTION.

NO WIRING SHALL BE ABANDONED IN PLACE. IT SHALL BE REMOVED. ALL CONDUIT SHALL BE REMOVED UNLESS WHERE IT IS TO BE REUSED FOR THE NEW CONSTRUCTION. IN THESE CASES CUT THE ENDS OF THE CONDUIT FLUSH WITH THE WALL OR FLOOR AND FILL WITH PATCHING MATERIALS TO MATCH ADJACENT SURFACES.

THE E.C. SHALL BE RESPONSIBLE FOR RECONNECTING ANY EXISTING DEVICE WHICH IS TO REMAIN ENERGIZED AND HAS BEEN DISCONNECTED DUE TO THE DEMOLITION. PROVIDE ALL WIRING AND DEVICES NECESSARY TO RECONNECT.

ALL EXISTING EXTERIOR CAMERA LOCATIONS SHALL REMAIN AND BE REWIRED WITH NEW CAT 6A WIRING. INTERIOR CAMERA LOCATIONS SHALL BE DISCONNECTED, LABELED, STORED IN A SAFE LOCATION, AND RECONNECTED WITH NEW CAT 6A WIRING IN THEIR EXISTING LOCATIONS.

1 SITE DEMOLITION PLAN - ELECTRICAL
1" = 30'-0"

NOT FOR CONSTRUCTION