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April 2, 2021

BID ADDENDUM No. 2

Re: Florida Union Free School District
District Wide Capital Improvements (Bond Phase II)
SED No.: 44-21-15-02-0-004-013
SED No.: 44-21-15-02-0-001-015
SED No.: 44-21-15-02-0-003-010
BBS File No. 20-176a-c

This addendum contains changes to the requirements of the contract drawings and/or project manual. Such changes shall be incorporated into the contract documents and shall apply to the work with the same meaning and force as if they had been included in the original documents. Wherever this addendum modifies a portion of a paragraph of project manual or any portion of the drawing, the remainder of the paragraph or drawing affected shall remain in force.

The conditions of the basic project manual shall govern all work described in this addendum. Wherever the conditions of work and the quality or quantity of materials or workmanship are not fully described in this addendum, the conditions of work, etc. included in the basic project manual for similar items of work shall apply to the work described in this addendum.

The "Conditions of the Contract" apply to all work described in this addendum.

The following changes shall be and are hereby made:

PROJECT MANUAL MODIFICATIONS

1. Bid Proposal Form:
 - a. Paragraph Tenth, Bid Security: Revise 'not less than ten percent (10%)' to read 'not less than five (5%)' to coincide with the Instructions to Bidders.

CONSTRUCTION DRAWING MODIFICATIONS

2. Drawing E0.01b – Electrical Notes and Legends:
 - a. Construction Drawing is hereby deleted and replaced with the attached.
3. Drawing E1.02b – Electrical/Mechanical Demolition Plans:
 - a. Construction Drawing is hereby deleted and replaced with the attached.
4. Drawing E4.01b – Electrical Proposed Power Plans:
 - a. Construction Drawing is hereby deleted and replaced with the attached.

Response to Contractors Written RFI's

J&J Sass Electric Inc., Dated 3-31-21

1. *Who is responsible for the site work (excavation restoration) for the light poles – The Electrical Contractor or Site Contractor?*
2. *Smoke detectors with the symbol E, R, RR, RL next to them – Are they new?*
3. *Who is providing the lighting controls – The Owner or the Electrical Contractor?*
4. *For the new recessed wall boxes, please show where the data cables are being terminated (IT Racks)?*
5. *Dwg. E4.01b, Detail 5 - Where is this RTU located?*

BBS Response:

1. Refer to Dwg. E2.01a, the Electrical Contractor shall trench and backfill (including compaction) for the placement of new conduit.
2. Refer to Dwg. E1.01b, the description for the device symbols is identified in the boxed notes adjacent to the Demolition Devices Legend.
3. All new lighting controls shall be provided and installed by the Electrical Contractor.
4. Data cables shall be terminated to IDF 3 located in Second Floor Storage Rm. 009. Refer to Construction Drawing Modifications herein for additional information.
5. Mechanical equipment is located on the roof above the second floor classrooms above the boiler room shown in Detail 4.

BBS Architects, Landscape Architects and Engineers, P.C.

ELECTRICAL CONSTRUCTION NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE N.E.C. APPLICABLE LOCAL CODES, STATE CODES, OWNERS WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEERS SPECIFICATIONS.
- THE VOLTAGE CHARACTERISTIC OF BUILDING IS 480Y/277V, 3-PHASE, 4-WIRE, GROUNDING NEUTRAL, WYE. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
- THE DRAWINGS SCHEMATICALLY SHOW THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND / OR OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DETOINED.
- CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT / ENGINEERS ATTENTION BEFORE BID SUBMITTAL. ANY FIELD CONDITION FOUND AFTER BID APPROVAL, WHICH HAMPERS AND/OR PRETS ANY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BID THE HIGHER SPECIFICATION FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE ALL LABOR, SERVICE, MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
- CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CAT-V, AN APPROVED ELECTRICAL INSPECTION AGENCY, ALARM AND FIRE PROTECTION COMPANIES.
- CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND DIRECTIVES OF THE OWNER.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SPECIFICATION SECTION 01700 OF THE PROJECT MANUAL.
- A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS, OUTLETS, MOTORS, AND APPURTENANCES.
- PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES.
- FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
- PULL / JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
- FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND / OR AS REQUIRED TO CONFORM WITH CODE REQUIREMENTS.
- FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES COMPLETE WITH MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION UNLESS OTHERWISE NOTED. NOTE ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE. UTILIZING CEILING FRAMING ALONE IS NOT ACCEPTABLE. NEW LIGHTING FIXTURES (OTHER THAN THEATRICAL EQUIPMENT) SHALL NOT BE DASHY CHANGED. REUSE OF AN EXISTING LIGHTING CIRCUIT INCLUDES HOME RUN WIRING OR WIRING UP TO THE SWITCH. ANY WIRING DOWNSTREAM OF THE SWITCH IS SUBJECT TO REMOVAL/REARRANGEMENT. ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE.
- NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD(S) SHALL BE LISTED/LABELLED FOR USE WITH THE EXISTING PANELBOARD(S).
- CONTRACTOR SHALL REFER TO ALL FURNITURE DRAWINGS BEFORE INSTALLING RECEPTABLES. THE MOUNTING HEIGHT OF THE RECEPTABLES IS 18" ABOVE FINISHED FLOOR UNLESS INDICATED ON THE DRAWINGS. COLOR, TYPE & FINISH OF ALL RECEPTABLES, DEVICES & FACE PLATES SHALL BE AS APPROVED BY ENGINEER AND ARCHITECT. CONTRACTOR SHALL PROVIDE A WIRE WEATHERPROOF GFCI RECEPTABLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTABLES FACTORY INSTALLED.
- ALL WIRING TO BE 1 #12 + 1 #12(N) + 1 #12(G) - 3/4"C. OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED). UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILING, VOIDS & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILING, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
- ALL CONNECTIONS AND / OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
- ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED.
- ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL.
- WIRING INSTALLED IN CEILING SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
- ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILING SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.
- CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.
- FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR UNDERGROUND.
- ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.
- WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES EXISTING EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE ELECTRICAL CONTRACTOR SHALL RELOCATE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.
- ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT TO THE CIRCUIT BREAKER. PROVIDE PRINT PANEL SCHEDULE. HAND WRITING NOT ALLOWED.
- ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR GROUPING PURPOSES ONLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOAD BALANCING.
- ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.
- WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE SCHOOL.
- WHERE THE CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 80A CIRCUIT BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A, 3P, 4W, 24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPRAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL, AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3 #6 + 1 #6(N) + 1 #10(G) - 1"C.
- SELECTED RECEPTABLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTABLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISIBLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.
- ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
- ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LAWS AND REGULATIONS.
- UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES AND NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS / DISCONNECTS NO LONGER REQUIRED.
- PROVIDE PROTECTIVE DUST COVERS ON SMOKE DETECTORS IN CONSTRUCTION AREAS. REMOVE COVERS UPON COMPLETION OF WORK.
- VERIFY AND MAINTAIN ALL PHASE ROTATIONS THROUGHOUT THE PROJECT.

DEMOLITION NOTES

- THE ITEMS SPECIFICALLY SHOWN ON THE DEMOLITION DRAWINGS ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL TO REMOVAL, STORAGE AND REINSTALLATION
- MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDING, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTABLES, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRICAL CONTRACTORS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES SCHEDULED FOR DEMOLITION, OF ANY VOLTAGE OR FUNCTION, ARE SAFE AND ADVISE THE OTHER CONTRACTORS.
- AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE.
- THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL, EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED.
- REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNERS INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE DISPOSED OF PER REGULATIONS.
- RETAIN EXISTING RECEPTABLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
- LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL. NON ELECTRIC CONTRACTOR DEMOLITION ELECTRICAL CONTRACTOR IS RESPONSIBLE TO SAFE OFF LIGHTING CIRCUITS FOR REMOVAL, BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNERS INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL DISPOSAL.
- THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4" EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.
- IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC VOLTAGES OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECONNECT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NORMALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTORS CONTRACT.
- IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
- ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURERS CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTORS BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTORS RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

FIRE STOP NOTES

- ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.
- THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-655 TROWEL ABLE COMPOUND, AS SUITABLE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.
- FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.
- ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

PUBLIC ADDRESS / SPEAKER SYSTEM LEGEND

SYMBOL	DESCRIPTION
	WALL MOUNTED P.A. SPEAKER
	RECESSED CEILING MOUNTED PUBLIC ADDRESS SPEAKER

LIGHTING LEGEND

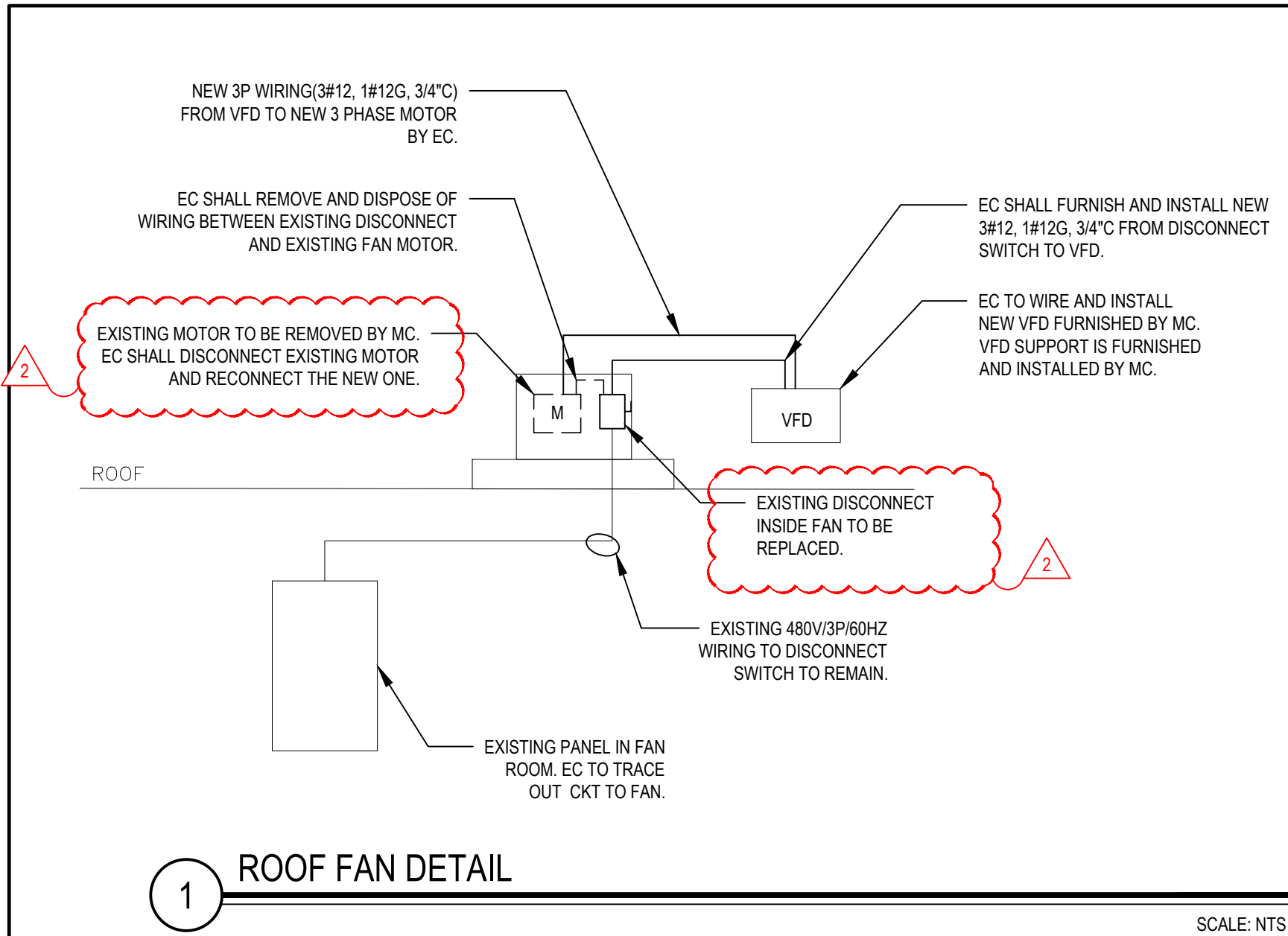
SYMBOL	DESCRIPTION
	2'x4' GRID LAY-IN LED CONTEMPORARY ARCHITECTURAL TROFFER
	2'x4' GRID LAY-IN LED CONTEMPORARY ARCHITECTURAL TROFFER WITH BATTERY BACKUP
	2'x2' GRID LAY-IN LED CONTEMPORARY ARCHITECTURAL TROFFER
	2'x2' GRID LAY-IN LED CONTEMPORARY ARCHITECTURAL TROFFER WITH BATTERY BACKUP
	1'x4' GRID LAY-IN LED CONTEMPORARY ARCHITECTURAL TROFFER
	1'x4' GRID LAY-IN LED CONTEMPORARY ARCHITECTURAL TROFFER WITH BATTERY BACKUP
	2'x4' SURFACE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER
	2'x4' SURFACE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER WITH BATTERY BACKUP
	2'x2' SURFACE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER
	2'x2' SURFACE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER WITH BATTERY BACKUP
	1'x4' SURFACE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER
	1'x4' SURFACE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER WITH BATTERY BACKUP
	1'x4' CABLE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER
	1'x4' CABLE MOUNT LED CONTEMPORARY ARCHITECTURAL TROFFER WITH BATTERY BACKUP
	LED DOWNLIGHT
	LED DOWNLIGHT WITH BATTERY BACKUP
	EXTERIOR BUILDING MOUNTED WALLPACK
	EXTERIOR LIGHT POLE
	EMERGENCY LED LIGHT FIXTURE W/ 90-MINUTE BATTERY
	SUBSRPT YG - PROVIDE W/ POLYCARBONATE VANDAL GUARD
	LED EXIT LIGHT W/ 90-MINUTE EMERGENCY BATTERY, DIRECTIONAL ARROWS AS INDICATED, IF REQUIRED.

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL. PROVIDE BUILDING GRAPHIC MAP WITHIN SIGHT OF PANEL.
	SMOKE DETECTOR WITH BASE
	WALL MOUNT SPEAKER / STROBE NOTIFICATION DEVICE.
	WALL MOUNT SPEAKER NOTIFICATION DEVICE.
	WALL MOUNT STROBE NOTIFICATION DEVICE.
	FIRE ALARM RELAY SHUTDOWN

WIRING DEVICES LEGEND

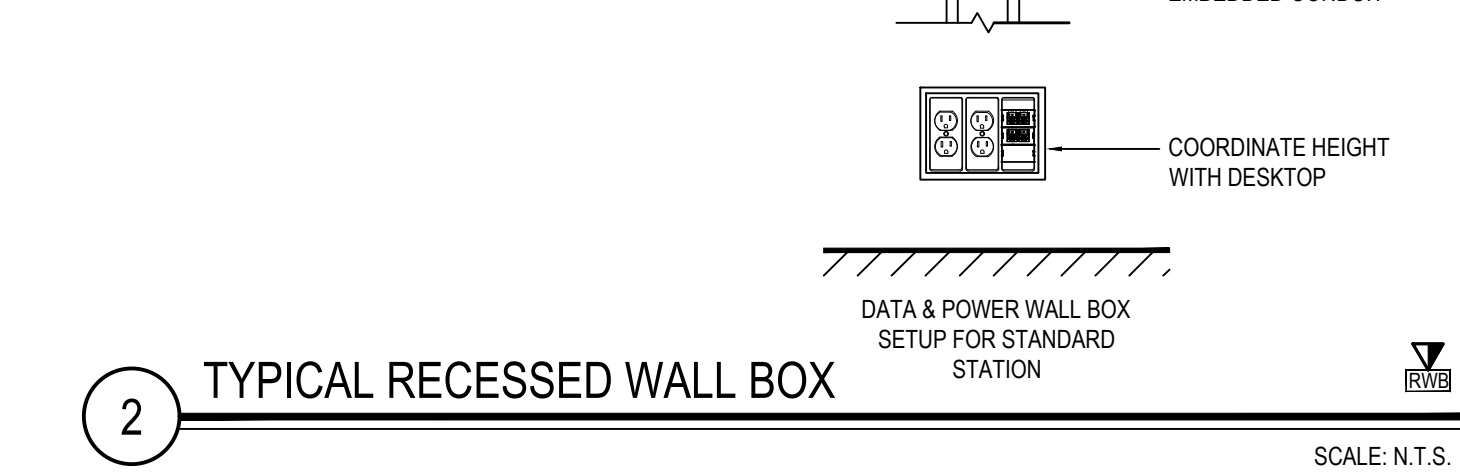
SYMBOL	DESCRIPTION
	TAMPER-RESISTANT DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT DOUBLE DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT GROUND FAULT INTERRUPTED DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT SINGLE ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT SPECIAL PURPOSE SINGLE ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, 250V, NEMA 5-20R.
	TAMPER-RESISTANT USB CHARGER DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	FIRE RATED POWER FEED POKE-THROUGH.
	FLOOR BOX.
	MULTIPLE SERVICE WALL BOX.
	JUNCTION BOX, SIZE AS REQUIRE.
	MOTOR, HORSEPOWER AS INDICATED.
	UN-FUSED DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH.
	HAND DRYER.
	PANEL.
	TRANSFORMER.
	SWITCH: UPPER CASE LETTER INDICATES SWITCHING DESIGNATION (NONE) = SINGLE POLE, 20 A, HEAVY DUTY SPEC GRADE SWITCH K = KEY SWITCH D = DIMMER SWITCH 3 = THREE WAY SWITCH 4 = FOUR WAY SWITCH MC = MOMENTARY CONTACT SWITCH LV = LOW VOLTAGE BUTTON SWITCH EF = COMMERCIAL GRADE EXHAUST FAN SWITCH 2P = TWO POLE, 20A, HEAVY DUTY SPEC GRADE SWITCH
	CEILING MOUNTED OCCUPANCY/VACANCY/DAYLIGHT SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY, COMPLETE W/ POWER PACK(S) AS REQUIRED.
	WALL MOUNTED OCCUPANCY/VACANCY, LOW VOLTAGE, DUAL TECHNOLOGY, COMPLETE W/ POWER PACK(S) AS REQUIRED.
	DUAL TECHNOLOGY SINGLE LEVEL OCCUPANCY SENSING WALL SWITCH.
	PHOTOCCELL.
	ROOM CONTROLLER.
	SINGLE POLE CIRCUIT 2-412, #12G, 3/2C UNLESS OTHERWISE NOTED
	TWO POLE CIRCUIT 3-412, #12G, 3/2C UNLESS OTHERWISE NOTED
	THREE POLE CIRCUIT 4-412, #12G, 3/2C UNLESS OTHERWISE NOTED



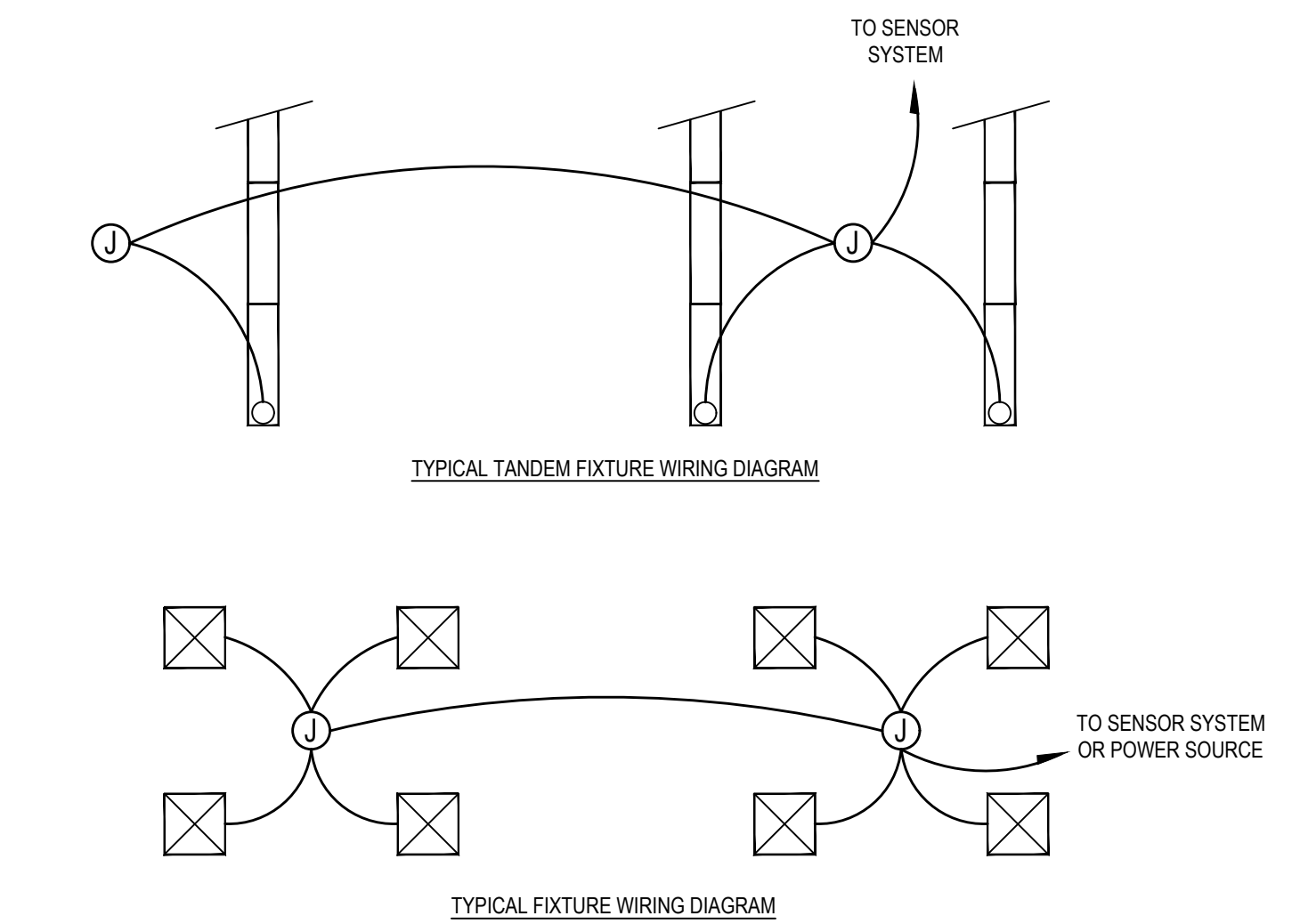
ROOF FAN DETAIL

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	HBLUC83A	RECESSED WALL BOX 3 GANG DRY WALL	HUBBELL
1	HBLTR13UI	WALL BOX TRIM RING	HUBBELL
2	IM2KIW	2 PORT KEYSTONE MODULE 1 UNIT	HUBBELL
4	HXJ6B/HXJ6Y	CAT 6 RJ45 CONNECTOR (2 BL DATA2 YEL VOICE)	HUBBELL
2	HBL32018UA	DUPLEX DECORATOR FACEPLATE	HUBBELL
2	DR20ALTR	TAMPER RESISTANT DUPLEX OUTLET	HUBBELL
1	HBL1PFB0A	3 UNIT 15TATION FACEPLATE	HUBBELL
1	IMBW	BLANK MODULE - 1 UNIT	HUBBELL

- NOTES:
- REFER TO DRAWINGS FOR QUANTITY
 - COORDINATE HEIGHT WITH HSA DESKTOP HEIGHT
 - INSTALL CONDUIT AS NEEDED

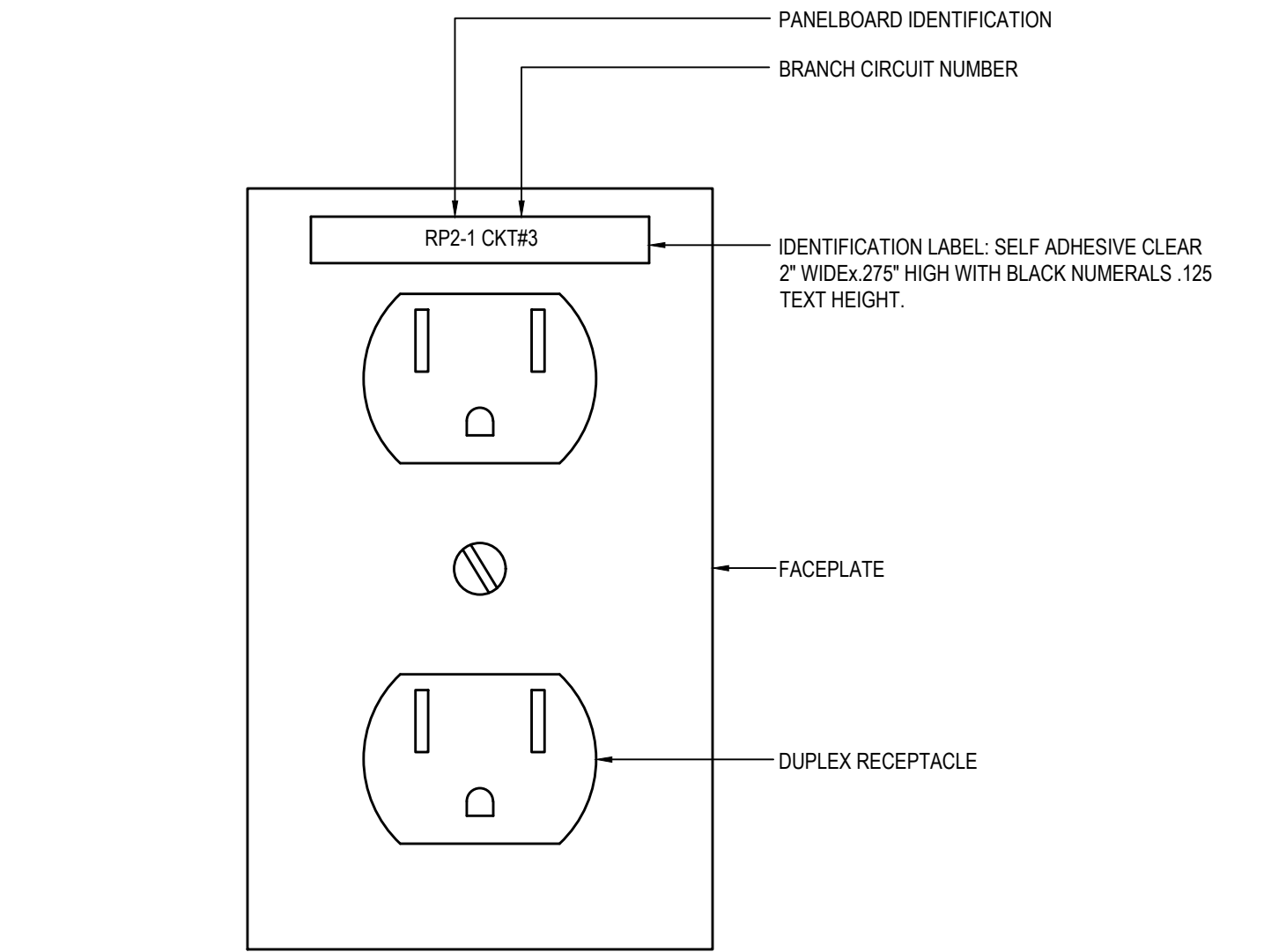


TYPICAL RECESSED WALL BOX



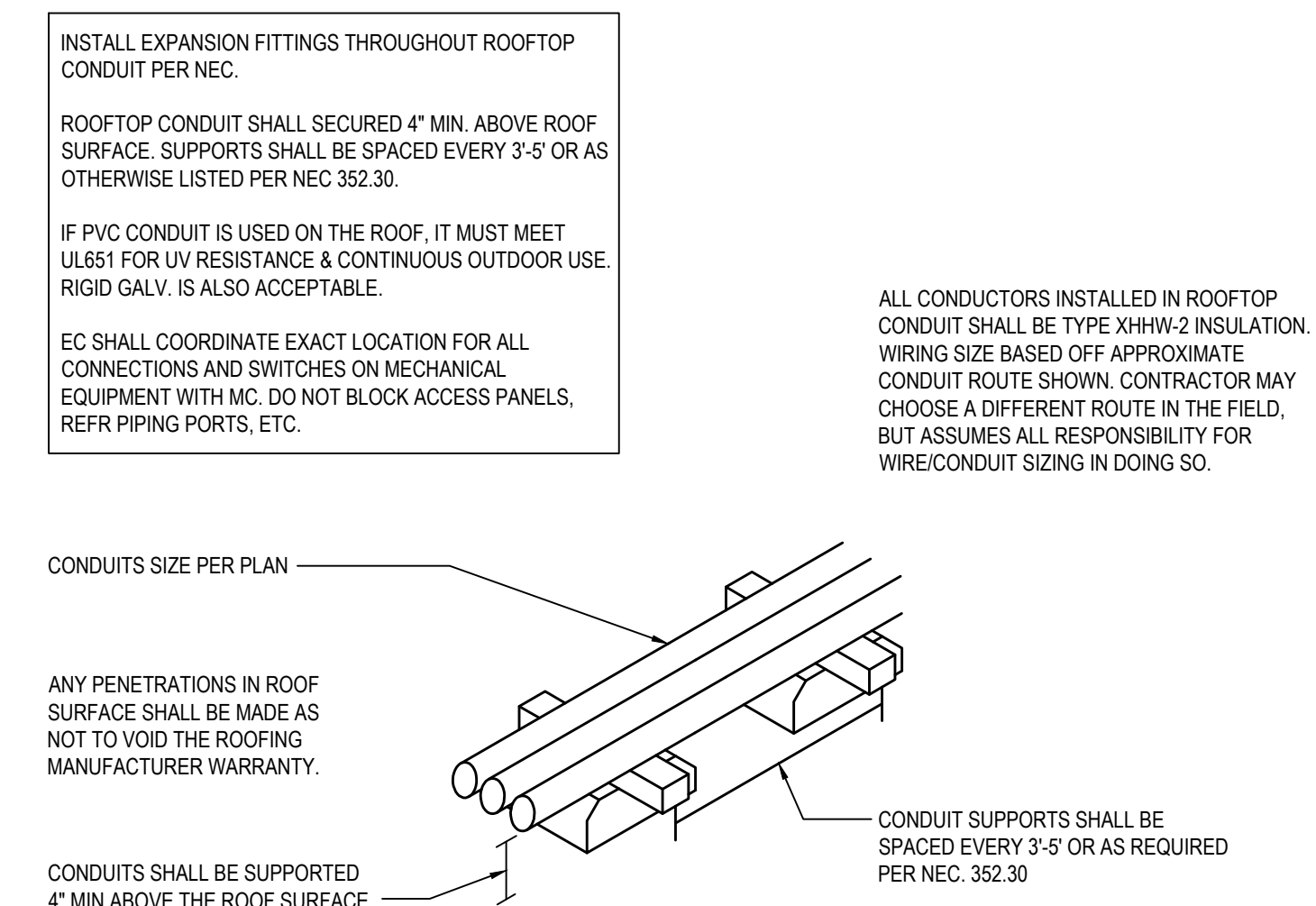
LIGHTING FIXTURE SCHEDULE

SCALE: N.T.S.



RECEPTACLE IDENTIFICATION LABEL

SCALE: N.T.S.



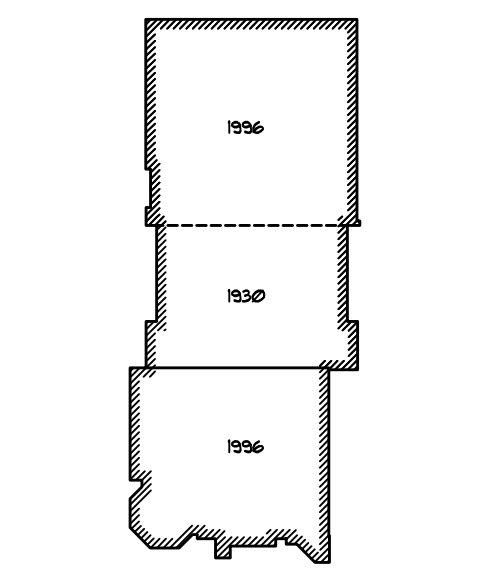
ROOFTOP CONDUIT SUPPORT DETAIL

SCALE: N.T.S.

REV.	DATE	ITEM
02	04/01/21	BID ADD. NO. 02

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KEY PLAN

NOT TO SCALE

FLORIDA UNION FREE SCHOOL DISTRICT
BOND PHASE 2
S.S. SEWARD INSTITUTE
ORANGE COUNTY, TOWN OF WARWICK, VILLAGE OF FLORIDA, NEW YORK 10321

PROJECT
DRAWING BY: MG
CHECK BY: DG

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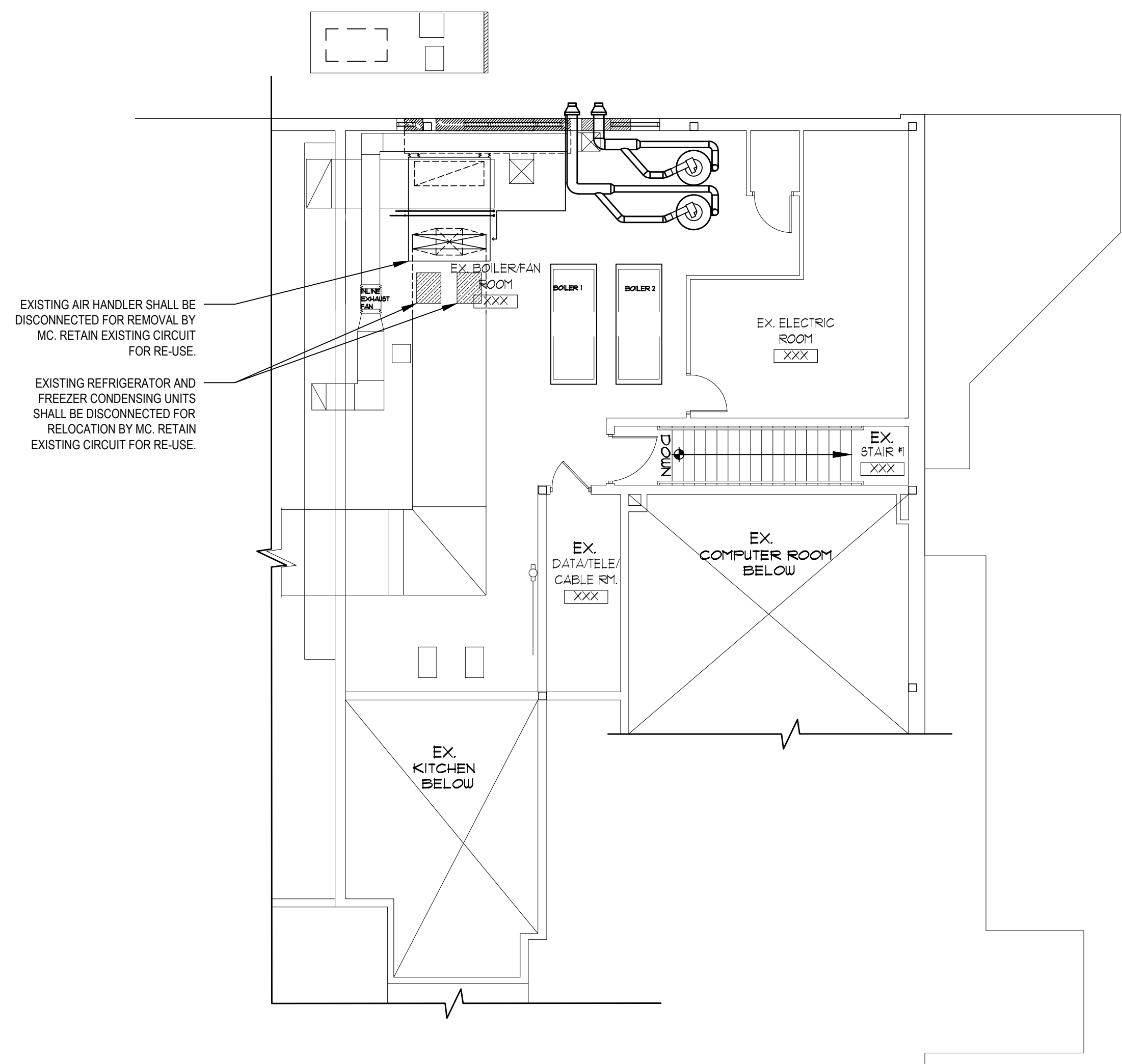
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SED No:	44-21-15-02-0-001-015
DISTRICT	FLORIDA U.F.S.D. S.S. SEWARD INSTITUTE
PROJECT	BOND PHASE 2
DWG TITLE	ELECTRICAL NOTES AND LEGENDS
SCALE	AS NOTED
DATE	DECEMBER 1, 2020
BID PICK-UP	March 15, 2021
FILE No:	20-1768

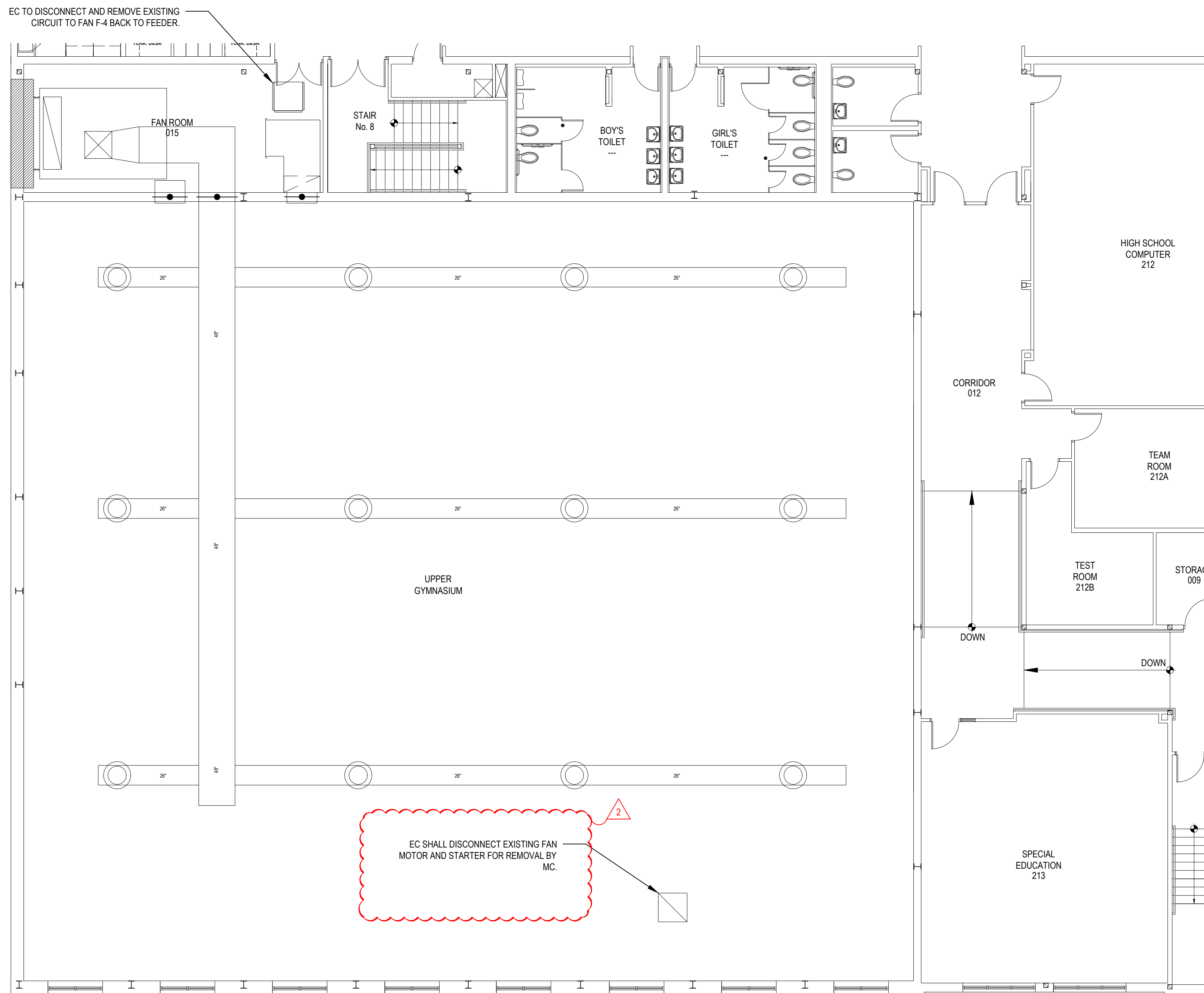
E0.01 of B



1 MACHINE ROOM DEMOLITION PLAN

@MEZZANINE

SCALE: 1/8" = 1'-0"



2 FANS DEMOLITION PLAN

@MEZZANINE

SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM
02	04/01/21	BID ADD. NO. 02

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PROJECT

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ORANGE COUNTY, TOWN OF WARWICK, VILLAGE OF FLORIDA, NEW YORK 10321

DWG TITLE

ELECTRICAL
MECHANICAL DEMOLITION PLANS

DRAWING BY: MG

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PROJECT BOND PHASE 2

DWG TITLE ELECTRICAL
MECHANICAL POWER PLANS

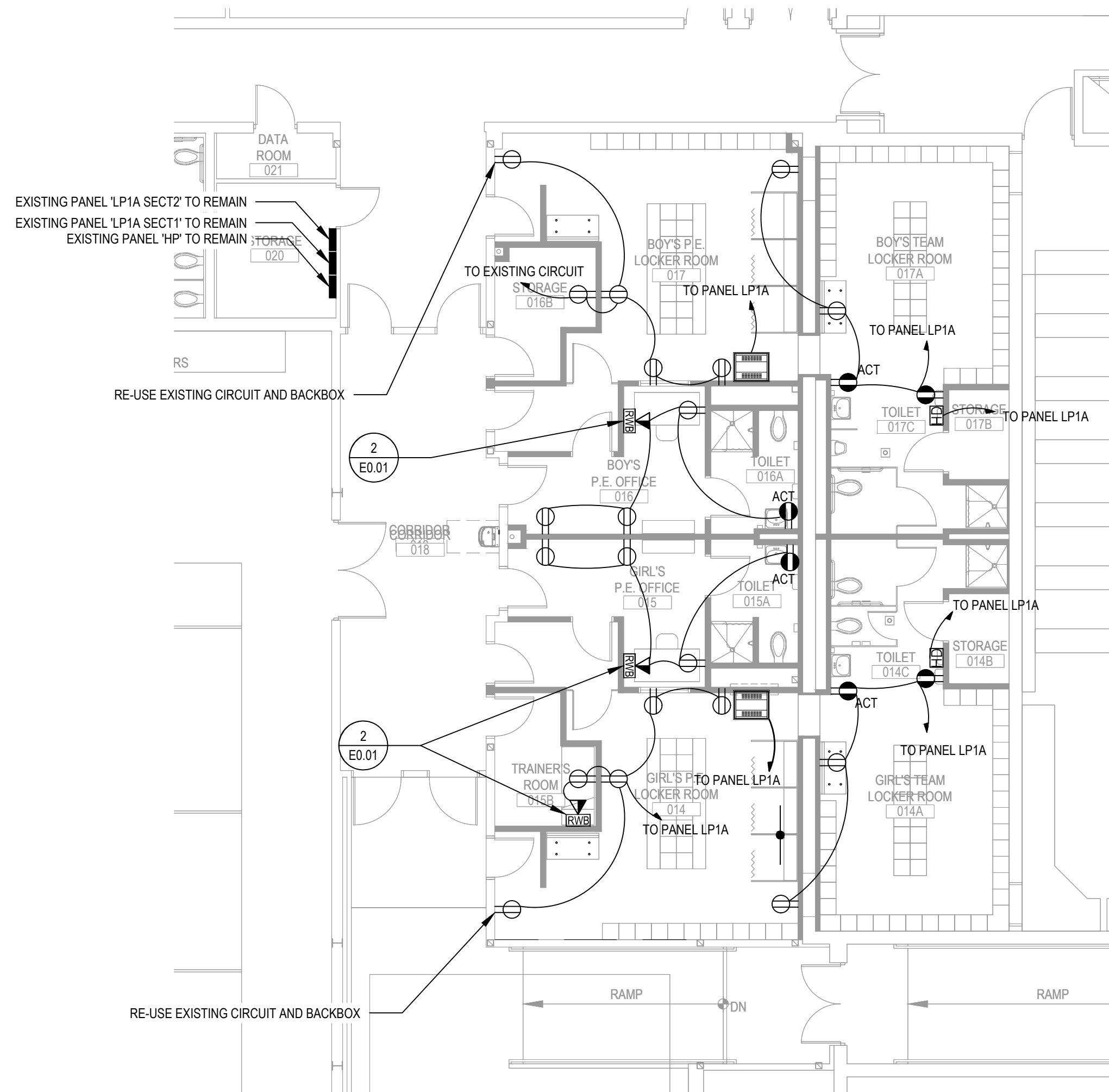
SCALE: AS NOTED

DATE: DECEMBER 1, 2020

BID PICK-UP: March 15, 2021

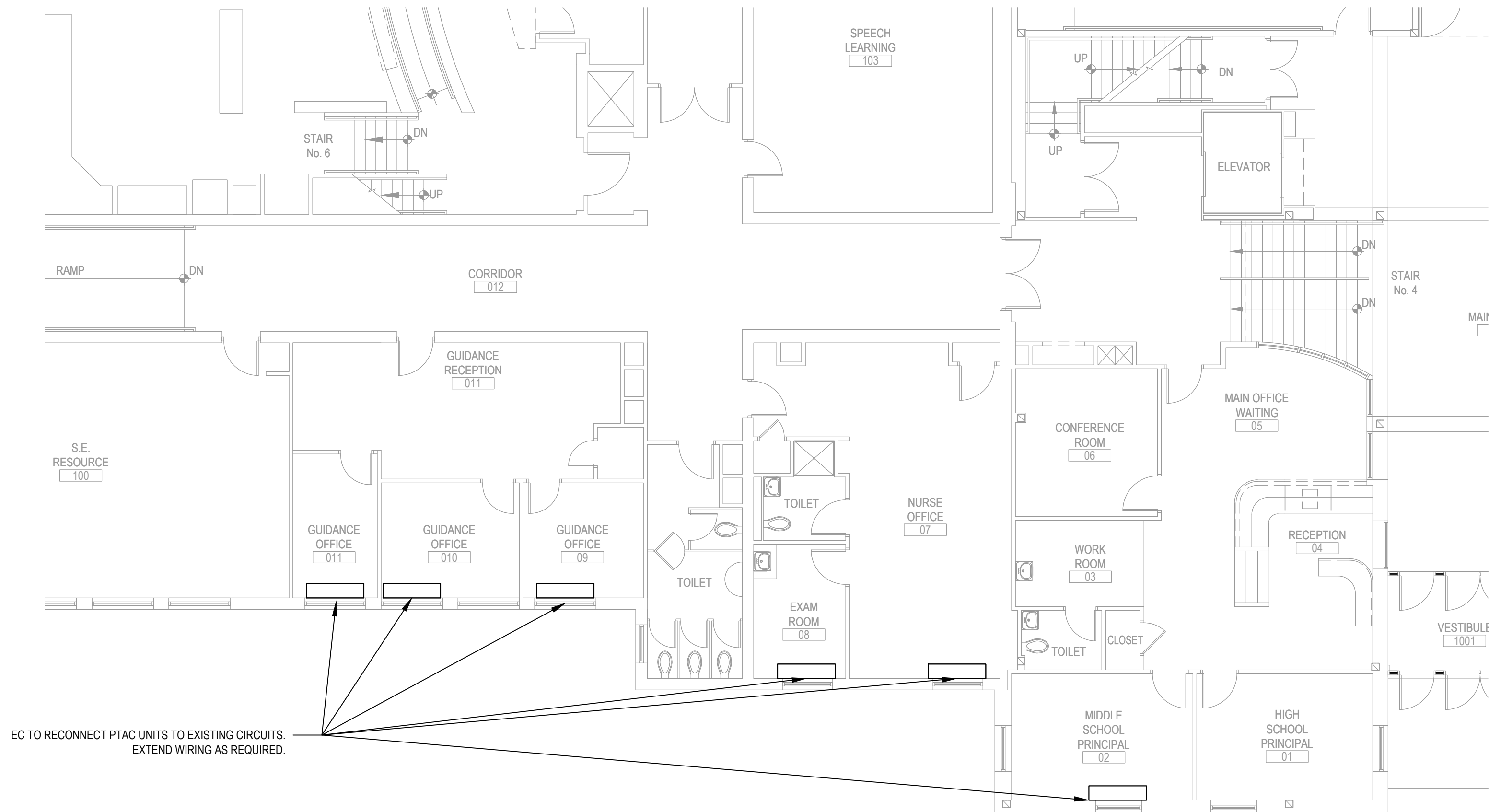
FILE No: 20-1768

E1.02 of B



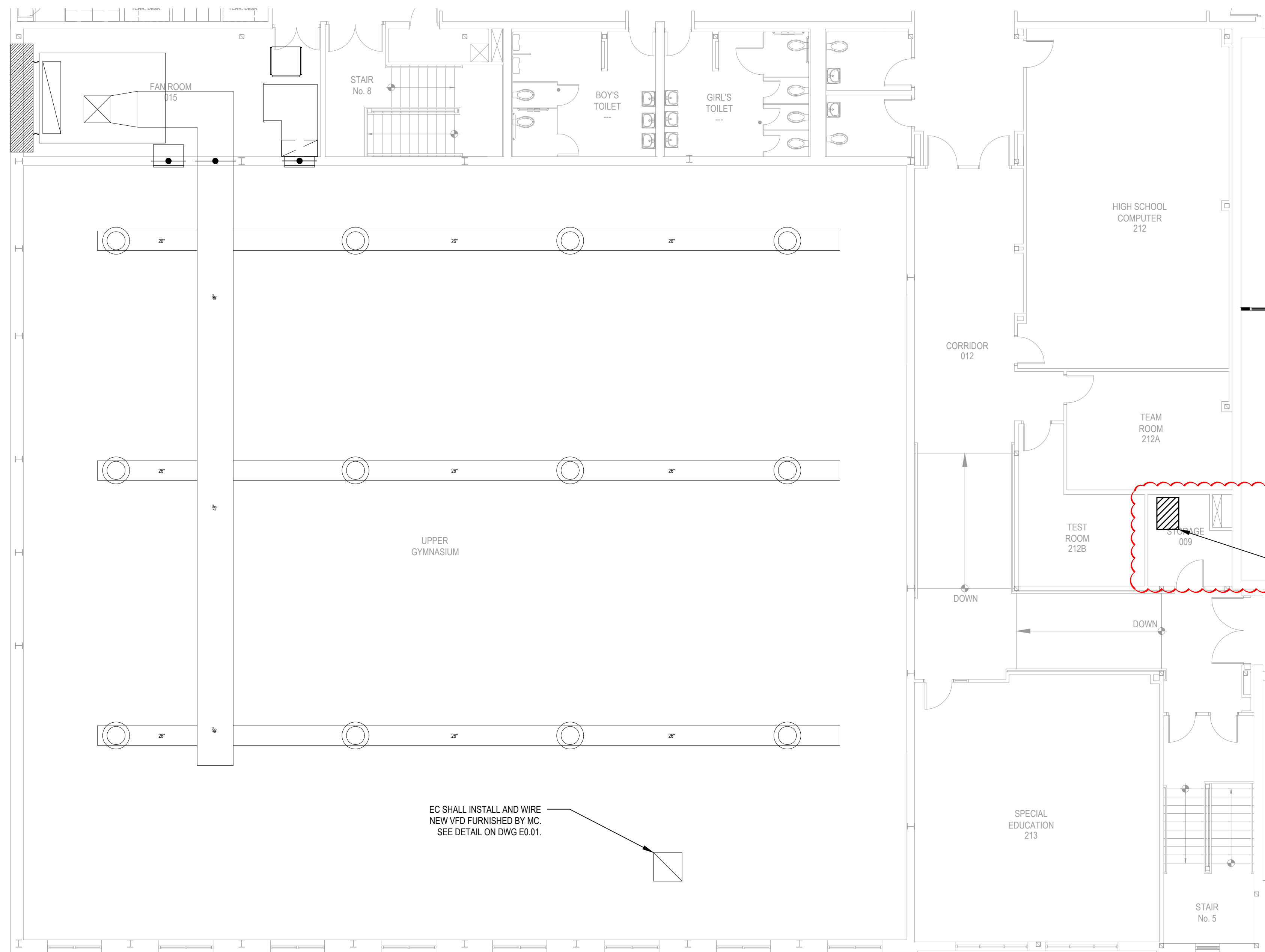
1 LOCKER ROOM PROPOSED POWER PLAN

SCALE: 1/8" = 1'-0"



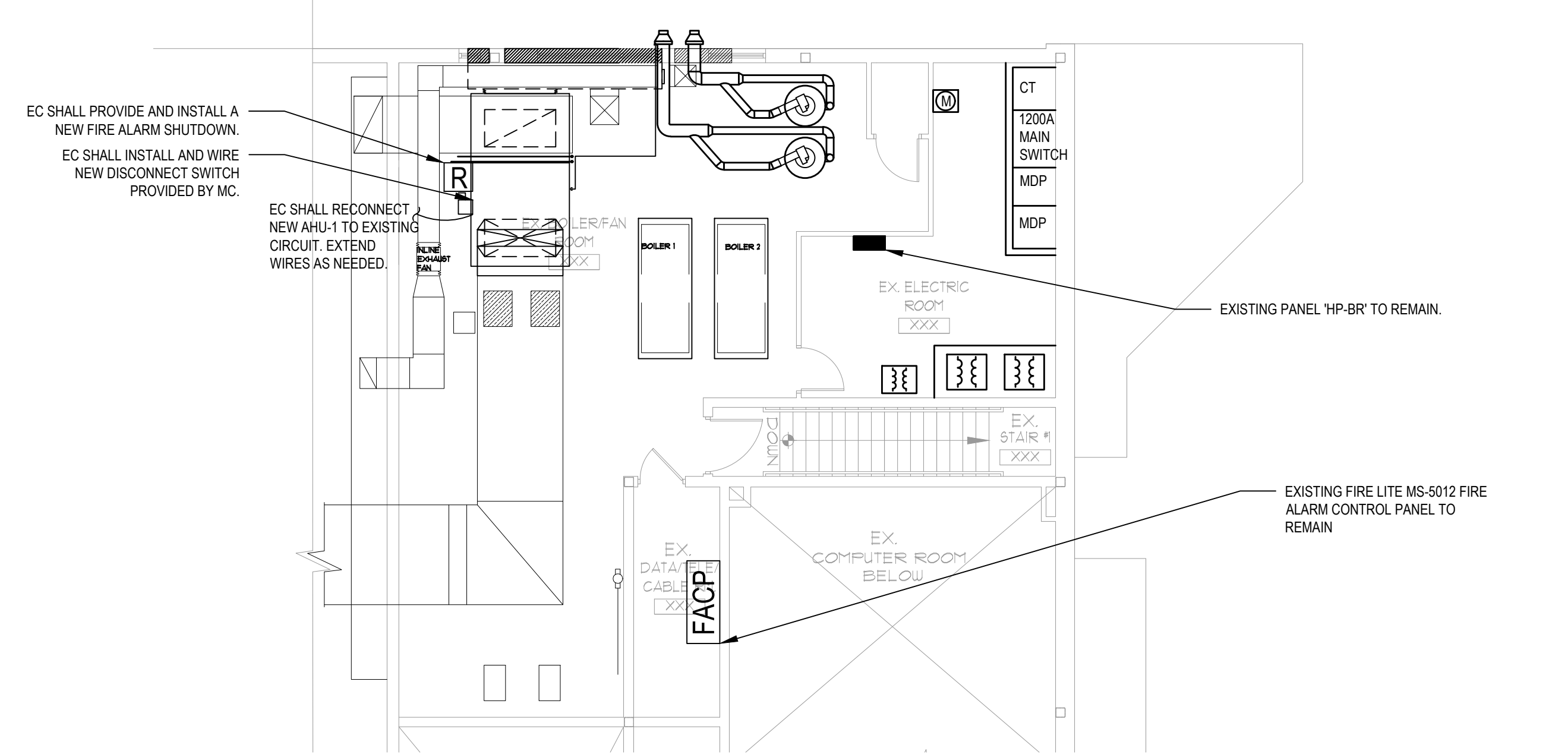
2 MAIN OFFICE PTAC UNITS PROPOSED POWER PLAN

SCALE: 1/8" = 1'-0"



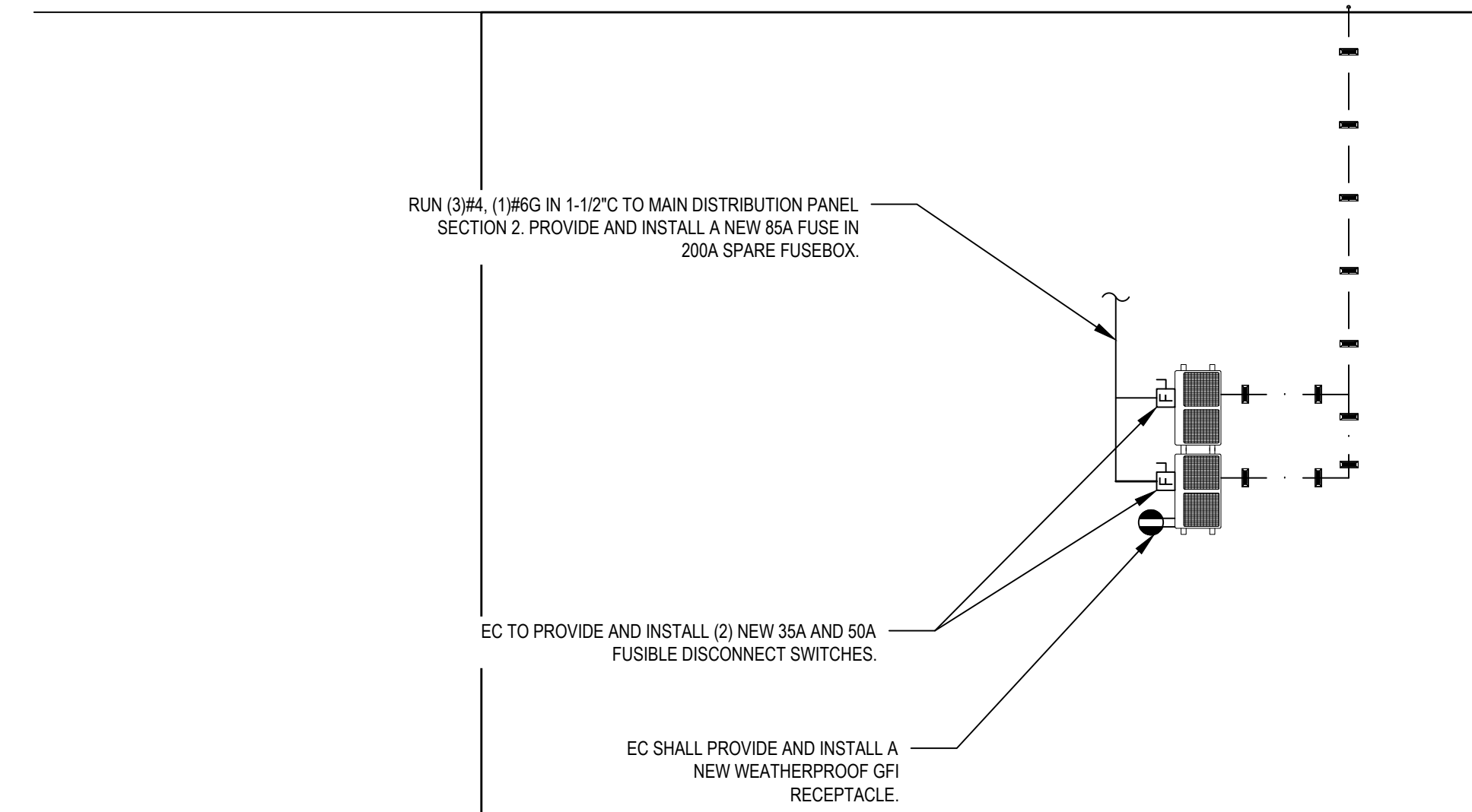
3 ROOF VFD PROPOSED POWER PLAN

SCALE: 1/8" = 1'-0"



4 AHU PROPOSED POWER PLAN

SCALE: 1/8" = 1'-0"

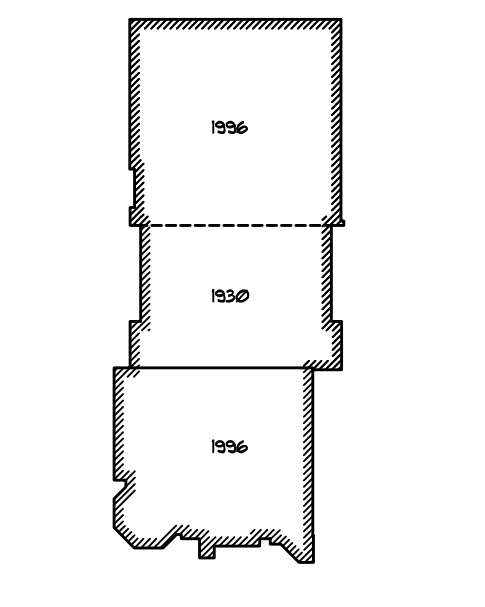


5 RTU PROPOSED POWER PLAN

SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM
02	04/01/21	BID ADD. NO. 02

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DWG TITLE
ELECTRICAL
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