



September 20, 2024

**ADDENDUM NO. 3
NEW ELEVATOR
AT MURPHY ELEMENTARY SCHOOL
ROUND LAKE SCHOOL DISTRICT NO. 116
PROJECT NO. 23170**

Board of Education
Round Lake School District 116
884 West Nippersink Road
Round Lake, Illinois 60073

The Contractor/Bidder shall acknowledge in writing on his bid proposal form the receipt of this Addendum.

This Addendum shall be part of the Specifications and Drawings for this project and shall be part of the actual contract document to complete the work. When the Architect issues an Addendum, it is the Bidder's responsibility to copy and insert it into the bid documents they have obtained from the Architect or Owner.

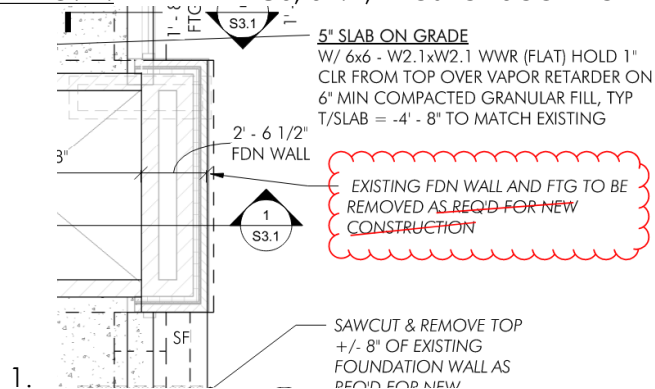
ADDENDUM ITEMS:

This Addendum shall be part of the Specifications & Requirements for this project and shall be part of the actual contract document to complete the work. There are four (4) items in this Addendum.

ITEM NO. 1: PROJECT MANUAL, 07 13 00 SHEET WATERPROOFING

1. Add spec section 07 13 00 SHEET WATERPROOFING.
2. Product to be used at the elevator shaft.

ITEM NO. 2: DRAWINGS, S1.1, PROJECT SCOPE CLARIFICATION



1. REVISE NOTE TO "EXISTING FOUNDATION AND FOOTING TO BE REMOVED"
2. Contractor to completely remove and dispose existing foundation and footing complete and install a new footing and foundation per the Structural Drawings.

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PAGE 2**

ITEM NO. 3: DRAWINGS, SHEET E1.0, FIRST FLOOR ELECTRICAL COMPOSITE PLAN

1. Change note to phone connection in the Electrical Riser Diagram from "Dedicated digital POTS line. Verify exact requirements with elevator manufacturer." to "Dedicated POTS or digital POTS line. Verify connection type with elevator manufacturer and owner. Verify exact requirements with elevator manufacturer."
2. Refer to attached drawing E1.0 and refer to highlighted items for updates.

ITEM NO. 4: DRAWINGS, SHEET E1.1, PARTIAL ELECTRICAL PLANS

1. Add electric strike, two (2) door contacts, and exterior card reader for exterior door on Partial First Floor Electrical Plan.
2. Add note to drawing to say "EC to provide rough-ins for access control devices. EC to sub-contract devices and wiring to NTI"
3. Add phone connection to elevator in Partial Upper Floor Electrical Plan with note to say "Dedicated POTS or digital POTS connection. Verify connection type with elevator manufacturer and owner. Verify Exact location prior to rough-in."
4. Move submersible pump "SP-1", Electric Finned Tube "EFT-1", 2 pole disconnect switch, duplex GFCI type receptacle, and simplex receptacle from the First Floor Electrical Plan to the Lower Floor Electrical Plan.
5. Refer to attached drawing E1.1 and refer to highlighted items for updates.

END OF ADDENDUM NO. 3

Attachments

VPT/rac

J:\1 D116\23170 New Elevator @ Murphy School\1 Spec\Addendum No. 3\23170AD3.docx

SECTION 07 13 00
SHEET WATERPROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Self-adhered modified bituminous sheet membrane.

1.02 RELATED REQUIREMENTS

- A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 03 30 00 - Cast-in-Place Concrete: Concrete substrate.
- C. Section 04 27 00 - Masonry Assemblies: Flashing/counterflashing installation.
- D. Section 07 62 00 - Sheet Metal Flashing and Trim: Metal counterflashing.
- E. Section 31 23 00 - Earthwork: Fill at waterproofing system.

1.03 REFERENCE STANDARDS

- A. ASTM D1777 - Standard Test Method for Thickness of Textile Materials.
- B. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension.
- C. ASTM D4491 - Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
- D. ASTM D4833/D4833M - Standard Test Method for Index Puncture Resistance of Geomembranes, and Related Products.
- E. ASTM D570 - Standard Test Method for Water Absorption of Plastics.
- F. ASTM D882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
- G. ASTM D903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
- H. ASTM D1621 - Standard Test Method for Compressive Properties Of Rigid Cellular Plastics.
- I. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
- J. ASTM D5295/D5295M - Standard Guide for Preparation of Concrete Surfaces for Adhered (Bonded) Membrane Waterproofing Systems.
- K. ASTM D5385/D5385M - Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes.
- L. ASTM E154/E154M - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.
- M. NRCA (WM) - The NRCA Waterproofing Manual.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data for membrane.
- C. Shop Drawings: Indicate special joint or termination conditions and conditions of interface with other materials.
- D. Manufacturer's Installation Instructions: Indicate special procedures.
- E. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Membrane Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least five years of documented experience.

1.06 FIELD CONDITIONS

- A. Maintain ambient temperatures above 40 degrees F for 24 hours before and during application and until liquid or mastic accessories have cured.

1.07 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Contractor to correct defective Work within period of five years after Date of Substantial Completion; remove and replace materials concealing waterproofing at no extra cost to Owner.
- C. Provide five year manufacturer warranty for waterproofing failing to resist penetration of water, except where such failures are the result of structural failures of building. Hairline cracking of concrete due to temperature change or shrinkage is not considered a structural failure.

PART 2 PRODUCTS

2.01 SHEET WATERPROOFING MATERIALS

- A. Self-Adhered Modified Bituminous Sheet Membrane:
 - 1. Thickness: 60 mil (0.060 inch).
 - 2. Sheet Width: 36 inches, minimum.
 - 3. Tensile Strength:
 - a. Film: 5,000 psi, minimum, measured in accordance with ASTM D882 and at grip-separation rate of 2 inches per minute.
 - b. Membrane: 325 psi, minimum, measured in accordance with ASTM D412 Method A, using die C and at spindle-separation rate of 2 inches per minute.
 - 4. Elongation at Break: 300 percent, minimum, measured in accordance with ASTM D412.
 - 5. Low Temperature Flexibility: Unaffected when tested in accordance with ASTM D1970/D1970M at minus 20 degrees F, 180 degree bend on 1 inch mandrel.
 - 6. Peel Strength: 7 pounds per inch, minimum, when tested according to ASTM D903.
 - 7. Puncture Resistance: 48 pounds, minimum, measured in accordance with ASTM E154/E154M.
 - 8. Water Absorption: 0.2 percent increase in weight, maximum, measured in accordance with ASTM D570, 24 hour immersion.
 - 9. Hydrostatic Resistance: Resists the weight of 200 feet (minimum) when tested according to ASTM D5385/D5385M.
 - 10. Adhesives, Sealants, Tapes, and Accessories: As recommended by membrane manufacturer.
 - 11. Products:
 - a. Carlisle Coatings & Waterproofing Incorporated: 860 / 861 www.carlisleccw.com/sle.
 - b. GCP Applied Technologies; Bituthene 4000: www.gcpat.com/sle.
 - c. Soprema; Colphene 3000: soprema.us.
 - d. W. R. Meadows, Inc; MEL-ROL LOW TEMP: www.wrmeadows.com/#sle.
 - e. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Surface conditioner: As recommended by membrane manufacturer.

2.02 ACCESSORIES

- A. Sealant for Cracks and Joints In Substrates: Resilient elastomeric joint sealant compatible with substrates and waterproofing materials.
- B. Protection Board: Provide type capable of preventing damage to waterproofing due to backfilling and construction traffic.
 - 1. Multi-layer internally-reinforced asphaltic panels, 1/8 inch thick, nominal, complying with ASTM D6506, class B.
 - 2. Puncture Resistance - Comply with one of the following:
 - a. ASTM D6506: 70 lbf.
 - b. (ASTM D4833/D4833M): 130 lbs.
 - 3. Products:
 - a. Carlisle Coatings & Waterproofing Inc.; CCW 200V: www.carlisleccw.com/sle.
 - b. Soprema; As recommended by manufacturer; www.soprema.us.
 - c. W.R. Meadows, Inc; Protection Course PC-2: www.wrmeadows.com/sle.
 - d. Substitutions: See Section 01 60 00 - Product Requirements.
- C. Drainage Panel: Drainage layer with geotextile filter fabric on earth side.

1. Composition: Dimpled polystyrene, polyethylene, or polypropylene core; polypropylene filter fabric.
2. Thickness: As indicated on drawings.
3. Compressive Strength (ASTM D1621): 15,000 psf minimum.
4. Thickness (ASTM D1777): 0.25 inches minimum.
5. Drainage Capacity - Comply with the following:
 - a. ASTM D4491: 140 gpm/sq ft. minimum.
6. Products:
 - a. Carlisle Coatings & Waterproofing Inc.; MiraDRAIN 6000: www.carlisleccw.com/sle.
 - b. GCP Applied Technologies; Hydroduct 200: www.gcpat.com/sle.
 - c. Soprema; Sopradrain Eco-2; www.soprema.us.
 - d. W.R. Meadows, Inc; Mel-Drain 5035: www.wrmeadows.com/sle.
 - e. Substitutions: See Section 01 60 00 - Product Requirements.
- D. Joint Tape: As recommended by manufacturer.
- E. Cant Strips: Premolded composition material.
- F. Flexible Flashings: Type recommended by membrane manufacturer.
- G. Counterflashings: Stainless steel as specified in Section 07 62 00 and as indicated on drawings.
- H. Termination Bars: Stainless steel; compatible with membrane and adhesives.
- I. Adhesives: As recommended by membrane manufacturer.
- J. Thinner and Cleaner: As recommended by adhesive manufacturer, compatible with sheet membrane.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions are acceptable prior to starting work.
- B. Verify substrate surfaces are durable; free of matter detrimental to adhesion or application of waterproofing system.
- C. Verify that items penetrating surfaces to receive waterproofing are securely installed.

3.02 PREPARATION

- A. Protect adjacent surfaces from damage not designated to receive waterproofing.
- B. Clean and prepare surfaces to receive waterproofing in accordance with manufacturer's instructions; vacuum substrate clean.
- C. Do not apply waterproofing to surfaces unacceptable to membrane manufacturer.
- D. Fill nonmoving joints and cracks with a filler compatible with waterproofing materials.
- E. Seal moving cracks with sealant and nonrigid filler, using procedures recommended by sealant and waterproofing manufacturers.
- F. Surfaces for Adhesive Bonding: Apply surface conditioner at a rate recommended by manufacturer, and protect conditioner from rain or frost until dry.
- G. Concrete Surfaces for Adhesive Bonding: Prepare concrete substrate in accordance with ASTM D5295/D5295M.
 1. Remove substances that inhibit adhesion including form release agents, curing compounds admixtures, laitance, moisture, dust, dirt, grease and oil.
 2. Repair surface defects including honeycombs, fins, tie holes, bug holes, sharp offsets, rutted cracks, ragged corners, deviations in surface plane, spalling and delaminations, as described in reference standard.
 3. Remove and replace areas of defective concrete; see Section 03 30 00.
 4. Prepare concrete for adhesive bonded waterproofing using mechanical or chemical methods described in referenced standard.
 5. Test concrete surfaces as described in referenced standards, and verify surfaces are ready to receive adhesive bonded waterproofing membrane system.

3.03 INSTALLATION - MEMBRANE

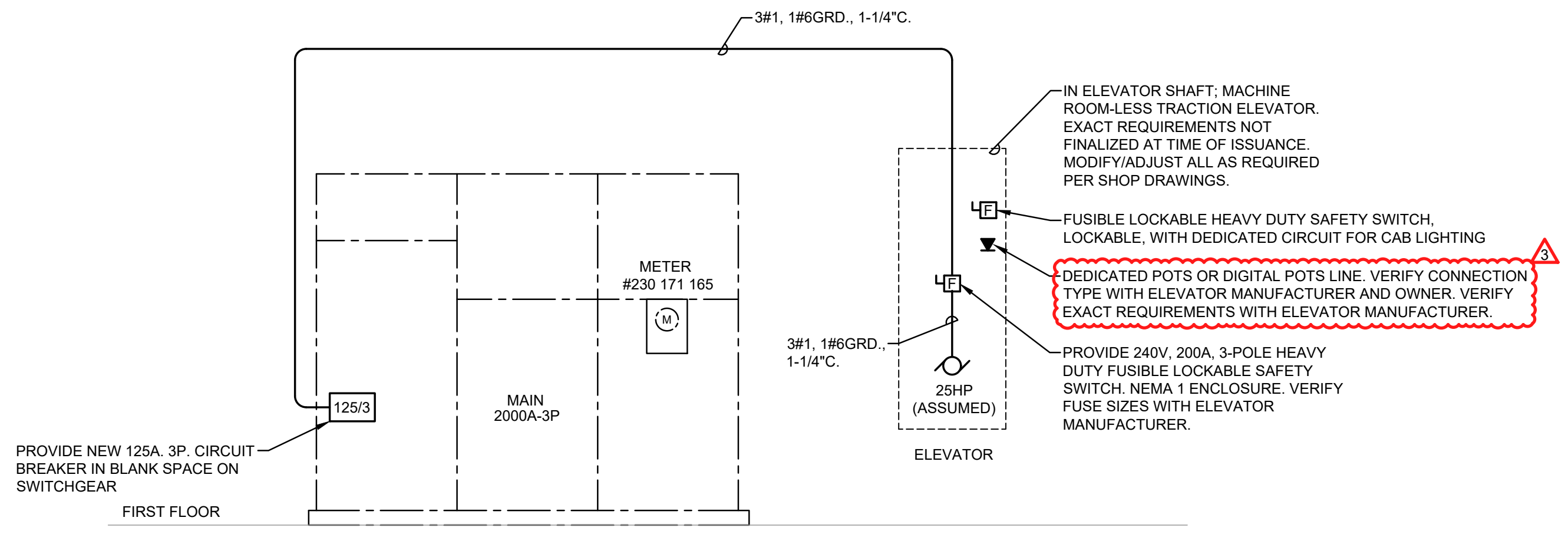
- A. Install membrane waterproofing in accordance with manufacturer's instructions and NRCA (WM) applicable requirements.
- B. Roll out membrane, and minimize wrinkles and bubbles.
- C. Overlap edges and ends, minimum 3 inches, seal permanently waterproof by method recommended by manufacturer, and apply uniform bead of sealant to joint edge.
- D. Reinforce membrane with multiple thickness of membrane material over joints, whether joints are static or dynamic.
- E. Weather lap joints on sloped substrate in direction of drainage, and seal joints and seams.
- F. Flexible Flashings: Seal items watertight that penetrate through waterproofing membrane with flexible flashings.
- G. Seal membrane and flashings to adjoining surfaces.

3.04 INSTALLATION - DRAINAGE PANEL AND PROTECTION BOARD

- A. Place drainage panel directly against membrane, butt joints, place to encourage drainage downward; scribe and cut boards around projections, penetrations, and interruptions.
- B. Place protection board directly against drainage panel; butt joints, and scribe and cut boards around projections, penetrations, and interruptions.
- C. Adhere protection board to substrate with compatible adhesive.

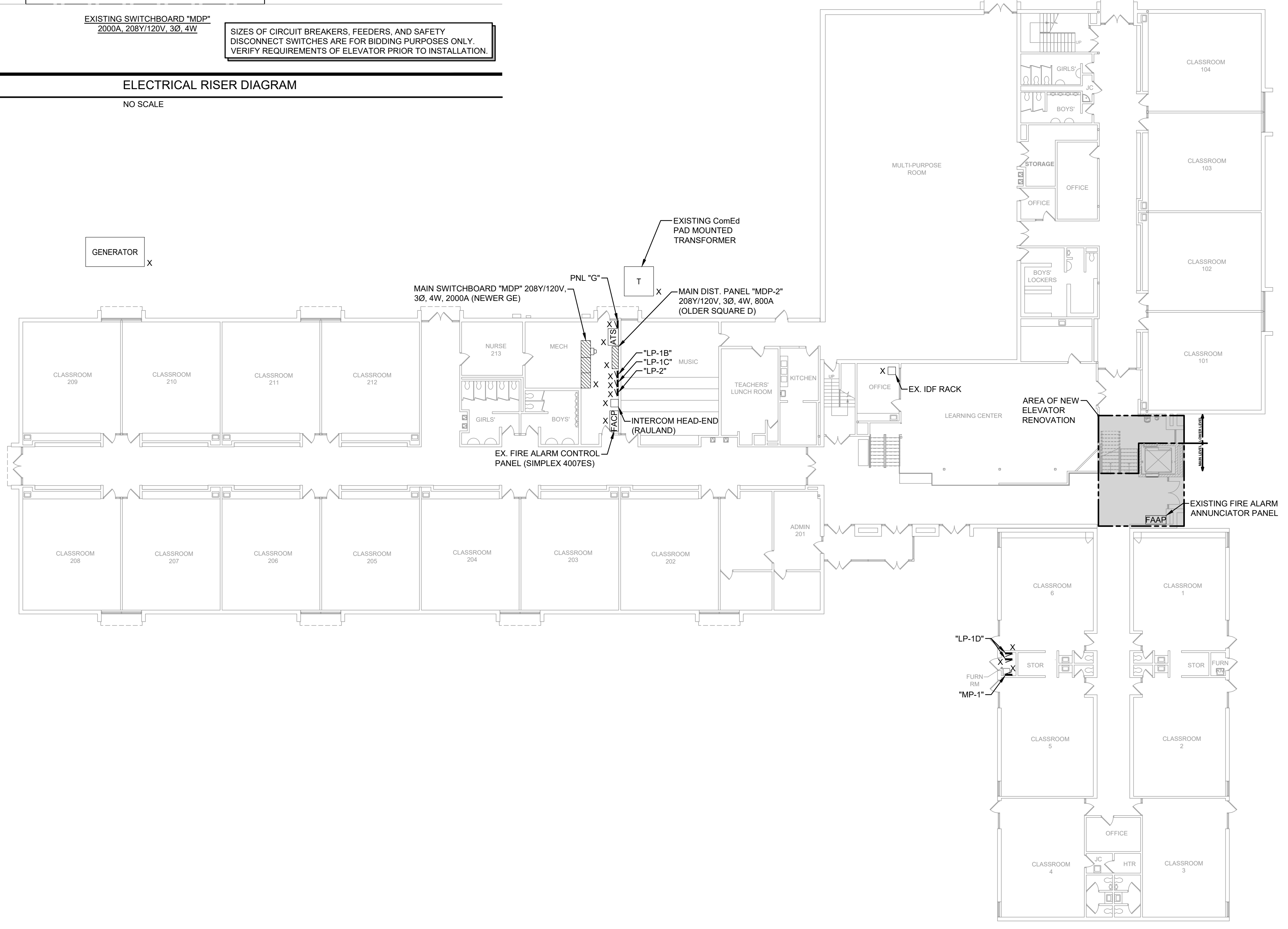
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ELECTRICAL RISER DIAGRAM
NO SCALE

SIZES OF CIRCUIT BREAKERS, FEEDERS, AND SAFETY DISCONNECT SWITCHES ARE FOR BIDDING PURPOSES ONLY. VERIFY REQUIREMENTS OF ELEVATOR PRIOR TO INSTALLATION.

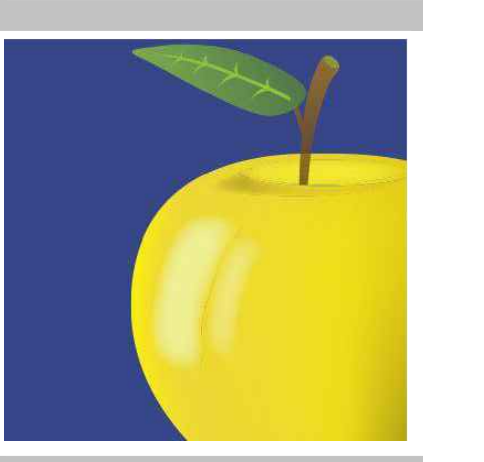


FIRST FLOOR ELECTRICAL COMPOSITE PLAN
1/16" = 1'-0"

NEW ELEVATOR

at
WJ MURPHY ELEMENTARY SCHOOL
220 GREENWOOD DR.
ROUND LAKE PARK, IL 60073

for the
COMMUNITY UNIT SCHOOL DISTRICT 116
442 N. Cedar Lake Rd.
Round Lake, IL 60073
847-270-9000



Mechanical/Electrical:
CS2 Design Group, LLC
837 Oakton Street
Elk Grove Village, IL 60007
p: 847.981.1880

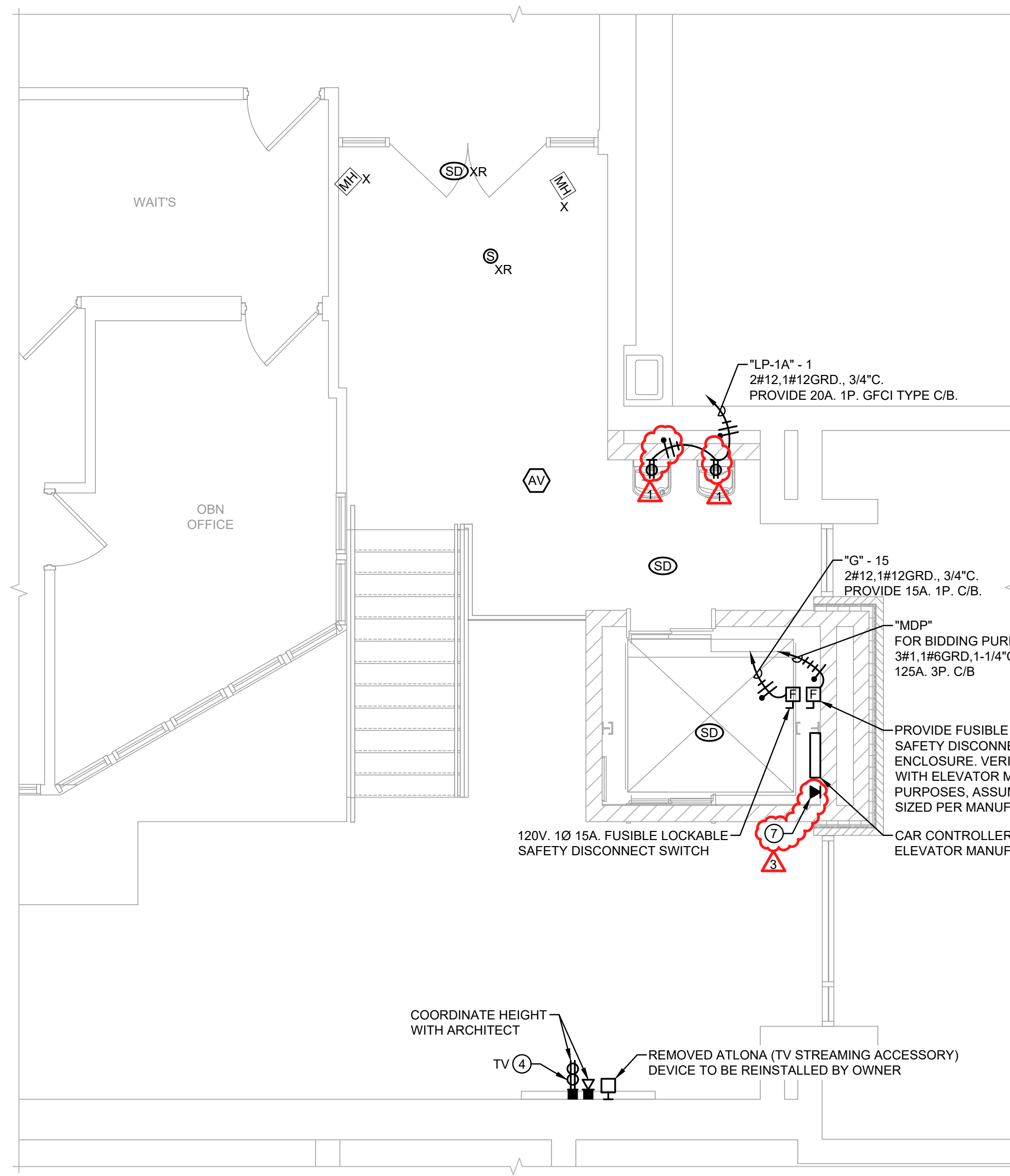
ISSUED FOR BID

REVISIONS	
No.	Date
AD3	09/19/2024

Project Number:
23170
Issue Date:
Aug. 30, 2024
Drawn by:
cs2
Sheet Title:
FIRST FLOOR ELECTRICAL COMPOSITE PLAN
Sketch Number:
Sheet Number:

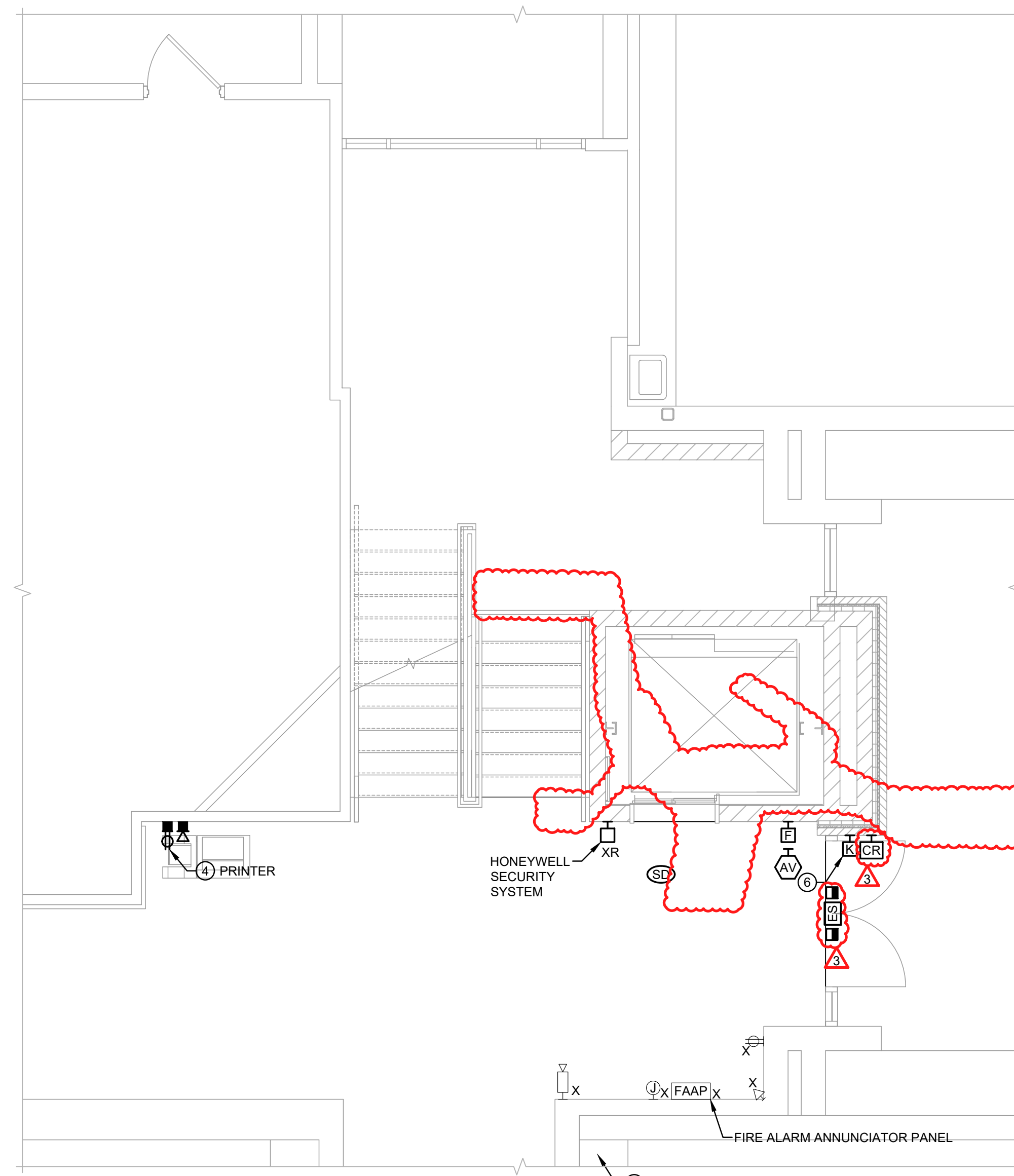
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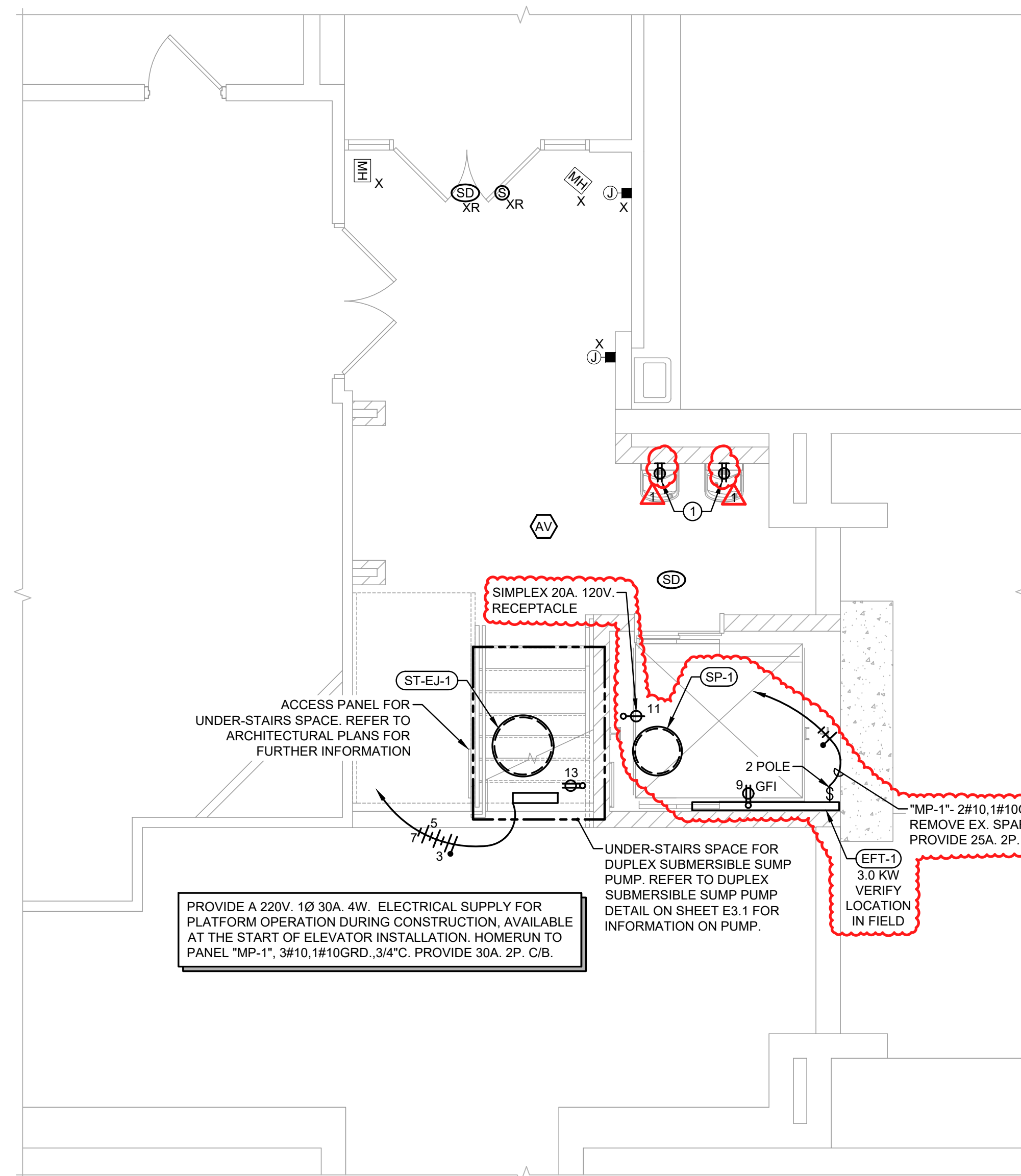


3 PARTIAL UPPER FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"

HOMERUN ALL CIRCUITS TO PANEL "1-P-1A" UNLESS DENOTED OTHERWISE. CIRCUIT NUMBERS ARE FOR REFERENCE PURPOSES ONLY. REPURPOSE SPARE CIRCUIT BREAKERS WHERE AVAILABLE.



2 PARTIAL FIRST FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"



1 PARTIAL LOWER FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"

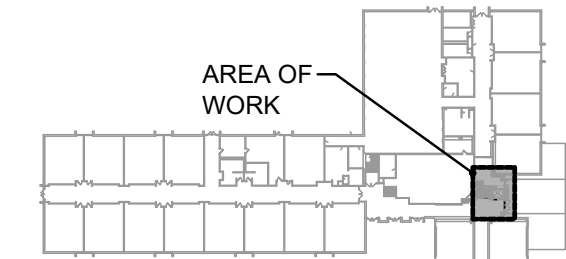
DRAWING NOTES:

- CONNECT NEW RECEPTACLE TO EXISTING ELECTRIC WATER COOLER POWER BRANCH CIRCUIT SERVING PREVIOUS COOLER LOCATION. CONTRACTOR SHALL RELOCATE EXISTING JUNCTION BOXES, EXTEND CONDUIT AND WIRING AS REQUIRED TO ACCOMMODATE RENOVATIONS. REMOVE 20A, 1P, CIRCUIT BREAKER SERVING UNIT WITH GFCI TYPE. FIELD VERIFY EXISTING CONDITIONS.
- 2#12, 1#12GRD, 3/4". HOMERUN TO GENERATOR PANEL "G". REMOVE UNUSED 20A, 1P, C/B AND PROVIDE A 15A, 1P, IN PLACE AND CONNECT TO NEW 15A, 1P, C/B. CIRCUIT NUMBERS ARE FOR REFERENCE PURPOSES ONLY.
- 3 CONDUITS GOING INTO WALL AND IS NOT SEEN ON THE CORRIDOR SIDE AS PART OF THIS BID. CONTRACTOR TO INCLUDE THE COST TO MODIFY EXISTING CONDUIT BENEATH FINISHED FLOOR TO INSTALL NEW ELEVATOR AND ACCOMMODATE NEW RENOVATIONS AS REQUIRED. ASSUME 30 LINEAR FEET OF 3/4" CONDUIT WITH SEVEN (7) #12 AWG. FIELD VERIFY.
- CONNECT NEW RECEPTACLE TO EXISTING POWER BRANCH CIRCUIT SERVING PREVIOUS EQUIPMENT LOCATION. REFER TO TAGGED EQUIPMENT FOR BRANCH CIRCUIT NUMBER TO CONNECT TO. CONTRACTOR SHALL RELOCATE EXISTING JUNCTION BOXES, EXTEND CONDUIT AND WIRING AS REQUIRED TO ACCOMMODATE RENOVATIONS. FIELD VERIFY EXISTING CONDITIONS.
- CONNECT NEW RECEPTACLE TO EXISTING ELECTRIC WATER COOLER POWER BRANCH CIRCUIT ON SERVING PREVIOUS COOLER LOCATIONS ON LOWER FLOOR. CONTRACTOR SHALL RELOCATE EXISTING JUNCTION BOXES, EXTEND CONDUIT AND WIRING AS REQUIRED TO ACCOMMODATE RENOVATIONS. FIELD VERIFY EXISTING CONDITIONS.
- THE KNOX BOX MUST BE MONITORED AND PROGRAMMED TO SUPERVISORY. E.C. SHALL REPLACE THE EXISTING KNOX BOX WITH A NEW KNOX BOX THAT INCLUDES A BUILT-IN TAMPER SWITCH. FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR MOUNTING AND WIRING. CONNECT THE TAMPER SWITCH WIRING AS PER THE MANUFACTURER'S GUIDELINES AND ENSURE IT INTERFACES WITH THE APPROPRIATE ALARM MONITORING SYSTEM. CONDUCT THOROUGH TESTING TO ENSURE THAT THE TAMPER SWITCH FUNCTIONS CORRECTLY AND SENDS SIGNALS TO THE ALARM MONITORING SYSTEM AS INTENDED.
- DEDICATED POTS OR DIGITAL POTS CONNECTION. VERIFY CONNECTION TYPE WITH ELEVATOR MANUFACTURER AND OWNER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

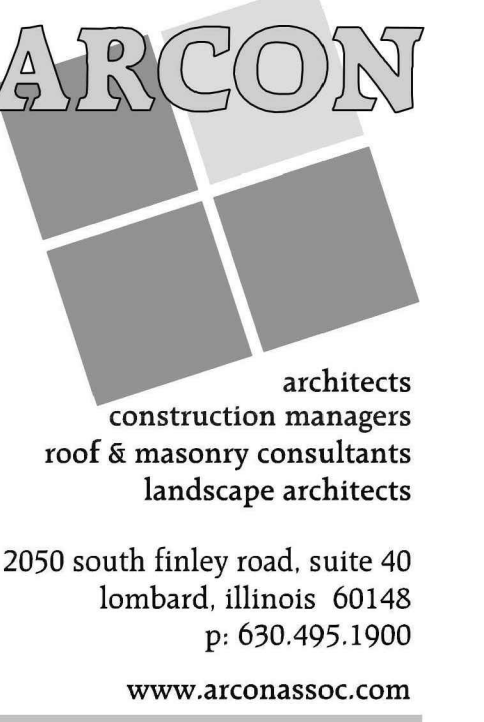
EC TO PROVIDE ROUGH-INS FOR ACCESS CONTROL DEVICES. EC TO SUB-CONTRACT DEVICES AND WIRING TO NTI.

GENERAL NOTES:

- THE MINIMUM WIRE SIZE SHALL BE # 12 AWG. PROVIDE DEDICATED NEUTRALS. NO COMMON NEUTRALS ARE PERMITTED.
- THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS SHALL BE 3/4" 1/2" CONDUIT SHALL BE ACCEPTABLE FOR BRANCH WIRING FOR SINGLE CIRCUITS ONLY. ALL BRANCH CIRCUITS CIRCUITS SHALL TERMINATE AT 20A-1P CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS SPECIFICALLY INDICATED OTHERWISE.
- THE CONTRACTOR SHALL UPSIZE CONDUCTORS AND CONDUITS (OVER 75'-0" IN LENGTH) TO COMPENSATE FOR VOLTAGE DROP.
- THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES AND SEALANT AS REQUIRED THRU PARTITIONS TO ACCOMMODATE ANY CONDUITS / RACEWAYS, CABLING, ETC... ALL PENETRATIONS THRU RATED WALL ASSEMBLY(ES) MUST MEET THE UL RATING OF THE WALL SYSTEM(S).
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION REGARDING MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL ELECTRICAL DEVICES BEFORE ROUGH-IN.
- THE CONTRACTOR SHALL VERIFY EXACT EQUIPMENT LOCATIONS, LOAD INFORMATION, VOLTAGE, AMPERAGE, CONNECTION TYPE, ETC... WITH EQUIPMENT BEING SUPPLIED PRIOR TO ROUGH-IN.
- ALL WALL-MOUNTED ELECTRICAL DEVICES (RECEPTACLES, OUTLETS, LIGHT SWITCHES, ETC...) TO BE WHITE IN COLOR WITH STAINLESS STEEL FACEPLATE(S).
- ALL EQUIPMENT / ITEMS INDICATED ON PLANS ARE NEW UNLESS SPECIFICALLY INDICATED OTHERWISE.



KEYPLAN
 NOT TO SCALE



NEW ELEVATOR

at
WJ MURPHY ELEMENTARY SCHOOL
220 GREENWOOD DR.
ROUND LAKE PARK, IL 60073

for the
COMMUNITY UNIT SCHOOL DISTRICT 116
442 N. Cedar Lake Rd.
Round Lake, IL 60073
847-270-9000



Mechanical/Electrical:
CS2 Design Group, LLC
837 Oakton Street
Elk Grove Village, IL 60007
p: 847.981.1880

ISSUED FOR BID

REVISIONS

No.	Date
AD1	09/09/2024
AD3	09/19/2024

Project Number:
 23170

Issue Date:
 Aug. 30, 2024

Drawn by:
 cs2

Sheet Title:
 PARTIAL ELECTRICAL PLANS

Sketch Number:

Sheet Number:

E1.1