June 10, 2026

ADDENDUM NO. 2 – RFB-463
Parking Garage Elevator Replacement at
Fairmont State University
Fairmont, WV

DOCUMENTS AMENDED

In accordance with AIA Document A701 Instructions to Bidders, Article 1, 1.1, the drawings and specifications for **Parking Garage Replacement at Fairmont State University**, as prepared by Tower Engineering and Williamson Shriver Architects, Inc., are hereby amended, and all changes (in either addition or deduction) which may result due to the following amendments shall be included in the bid.

GENERAL INFORMATION:

1. The last day for questions is **June 9, 2026,** at 2:00 p.m., with the last addendum being issued on June 10, 2026, if necessary.
2. Contact the Facilities Department (304-367-4110) for site visits at Fairmont State University.

QUESTION & ANSWERS:

1. Is there a specification or a basis of design for the new sump pump?
   Answer: Refer to the attached sheet H101r for more information.

2. Are there any additional details for the plumbing of the new sump pump?
   Answer: Refer to the attached sheet H101r for more information.

3. Under alternate #1 the ground floor door is being removed for the new elevator, is there any work with this door under the base bid?
   Answer: No work for Alternate No. 1 is included in the base bid scope. The contractor may be required to locate new work within the footprint of the elevator due to the location.

4. Is there any painting of the CMU outside the elevator doors? Is there a specification for the painting of the pit ladder?
   Answer: No painting of existing CMU will be required at the elevator doors.
   Answer: Paint shall be exterior-grade paint to withstand the moisture level located in the elevator pit.

5. Holeless dual telescoping cylinders cannot achieve the 66ft of travel (max out ~50ft). To achieve 66ft, need to go to roped hydraulic or traction elevator. Please advise.
   Answer: Traction Elevator is acceptable to achieve the required height.

6. Would a modernization of the two existing elevators be acceptable in lieu of total replacement?
   Answer: No.

7. Would a traction elevator (MRL) be acceptable for the alternate #1?
   Answer: Yes, comply with elevator requirements to achieve the required height.

8. Is the existing shaft designed for surface mounted fasteners to support new components?
   Answer: The existing shaft was designed to receive mounts compliant with existing elevator design requirements.

9. Are there any details or cuts of the existing shafts?
   Answer: Not at this time.

10. Are there any details or ratings for the existing hoist beam?
    Answer: Not at this time.

11. If we are to bid a holeless elevator, are we to extract the existing buried shaft and piston?
    Answer: Traction Elevator is acceptable.

12. What material are we to backfill the shaft hole with?
    Answer: Lean fill concrete.

13. Is the new elevator car to have glass on the backwall? Nothing stating in the documents. Please clarify and provide details/sizing if needed.
    Answer: Yes, new elevator to match the appearance of the existing elevator with a glass back wall.

14. Is the rear wall of the elevator cab to be glass?
    Answer: Yes.

15. Before we proceed further, could you please confirm whether the existing hydraulic piston(s) will be replaced as part of this project, or if the intent is to retain the current piston(s)?

    Answer: The intent is to replace the current piston(s).

16. Due to the travel height of the elevator, sourcing a direct replacement piston of the required length may be challenging and could significantly impact cost and lead time. If replacement is required, an alternative solution may be a twin-post hydraulic configuration; however, this option would involve additional equipment, installation configuration, and associated costs.

    Answer: Stay with the current design of piston replacement.

17. Please advise if we are to reuse existing sump pump discharge piping to new sump pump. If we are to replace pump discharge piping, please provide information to where we are to route piping on drawings as well as what the piping application is to be for work.

    Answer: Refer to revised H-101r included in this addendum.

18. Please advise if the controls for split system are to be stand alone controls or if they are to be tied into an existing bas system. If they are to be tied into bas system please provide a bod.

    Answer: Refer to revised H-101r included in this addendum.

BIDDING REQUIREMENTS:

1. None

CLARIFICATION:

1. None.

SPECIFICATIONS:

1. None.

DRAWINGS:

1. Drawing E-001
    - a. Replace sheet E-001 with E-001r included in this addendum.

2. Drawing E-101
    - a. Replace sheet E-101 with E-101r included in this addendum.

3. Drawing H-101
    - a. Replace sheet H-101 with H-101r included in this addendum.

END OF ADDENDUM

ELECTRICAL SYMBOL LEGEND

ELECTRICAL GENERAL NOTES

A. **BRANCH CIRCUITING:**
  1. ALL ELECTRICAL DEVICES HAVE BRANCH CIRCUIT NUMBERS AND PANELS INDICATED ADJACENT TO THE POWER CONNECTION SYMBOL ON THE PLANS. ALTHOUGH THE INTERCONNECTING BRANCH CIRCUITING IS NOT SHOWN, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRE AND CONDUIT REQUIRED FOR A COMPLETE AND OPERATION POWER DISTRIBUTION SYSTEM.
  2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL BRANCH CIRCUITING SHALL BE INSTALLED CONCEALED IN EMT, 3/4" MINIMUM.
  3. ALL CONDUIT SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS ALSO APPLY:
     a. THE CONDUIT FOR ALL HVAC EQUIPMENT SHALL BE AS SCHEDULED UNDER THE 'MECHANICAL EQUIPMENT SCHEDULE'.
  4. ALL BRANCH CIRCUIT WIRING SHALL BE #12AWG THHN COPPER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS APPLY:
     a. THE WIRE FOR ALL HVAC EQUIPMENT SHALL BE AS SCHEDULED UNDER THE 'MECHANICAL EQUIPMENT SCHEDULE'.
  5. THE MAXIMUM NUMBER OF CURRENT CARRYING WIRING (DOES NOT INCLUDE GROUND WIRE) IN ANY ONE CONDUIT SHALL NOT EXCEED SIX (6), UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS APPLY:
     a. CONDUIT RUNS TO WALL SWITCHES.

B. **GROUNDING:**
  1. PROVIDE A SEPARATE INSULATED GROUND WIRE IN EACH CONDUIT RUN. MINIMUM WIRE SIZE SHALL BE #12AWG. GROUND WIRE IS TYPICALLY NOT SHOWN.

C. **LOCATION OF ALL EQUIPMENT AND DEVICES:**
  1. OBTAIN WRITTEN APPROVAL OF LOCATIONS OF ALL ELECTRICAL DEVICES FROM THE OWNER AND THE ARCHITECT PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO MOVE ANY OR ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN, AT NO ADDITIONAL COST.
  2. COORDINATE THE LOCATION AND SERVICE REQUIREMENTS OF ALL HVAC AND PLUMBING EQUIPMENT WITH THE RESPECTIVE CONTRACTORS. INFORM THE ARCHITECT OF ANY CONFLICTS IMMEDIATELY.

D. **LIGHTING FIXTURE SCHEDULE:**
  1. REFERENCE SPECIFICATION SECTIONS 265100 (INTERIOR LIGHTING) FOR DETAILED LAMP, DRIVER AND FIXTURE SPECIFICATIONS.
  2. BID PRICES SHALL BE BASED ON INFORMATION IN ALL COLUMNS. WHERE A CONFLICT EXISTS, THE PRICE SHALL INCLUDE THE MORE EXPENSIVE OPTION. COORDINATE CONFLICTS WITH ENGINEER PRIOR TO SUBMITTING BID.
  3. THE LAMP COLUMN INDICATES THE NOMINAL LAMP WATTAGE, SHAPE, COLOR TEMPERATURE AND/OR DISTRIBUTION. LAMPS SHALL BE PROVIDED AS RECOMMENDED AND TESTED BY THE MANUFACTURER OF THE FIXTURE SPECIFIED. THE FIXTURE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LAMP-DRIVER COMPATIBILITY.
  4. NOMINAL LUMEN OUTPUT IS LISTED FOR LED FIXTURE TYPES. SUBMITTED FIXTURE SHALL BE CAPABLE OF PROVIDING LISTED LUMEN OUTPUT WITHIN 10% OF LISTED LUMEN OUTPUT.
  5. NO SUBSTITUTIONS SHALL BE ACCEPTED UNLESS LISTED.
  6. PRICING FOR LIGHT FIXTURE TYPES SHALL BE THROUGH LOCAL LIGHTING REP LISTED ONLY.
  7. UNLESS NOTED OTHERWISE, LED LIGHT FIXTURES SHALL HAVE A COLOR TEMPERATURE OF 3500K FOR INTERIOR LIGHTING

E. **SWITCHING:**
  1. CHECK ALL DRAWINGS FOR WALL SWITCHES. SWITCHES ARE SHOWN ON LIGHTING, POWER, AND SYSTEM PLANS.
  2. WHERE ONE OR MORE WALL SWITCHES APPEAR IN THE SAME GENERAL LOCATION, SWITCHES SHALL BE GROUPED AND INSTALLED IN ONE WALL BOX WITH ONE CONTINUOUS COMMON COVER PLATE, WHEREEVER POSSIBLE. WHERE GROUPING IS NOT POSSIBLE DUE TO SIZE OR TYPE OF DEVICE, GROUP DEVICES CLOSE TOGETHER AND AT THE EXACT SAME MOUNTING HEIGHT.
  3. ALL SWITCHES SHALL BE INSTALLED SUCH THAT ALL TOGGLES ARE IN THE DOWN POSITION WHERE THE LIGHTS THEY CONTROL ARE OFF.

F. CUTTING AND PATCHING:
  1. ALL OPENINGS IN EXISTING STRUCTURAL ELEMENTS, REQUIRED FOR COMPLETION OF THE CONTRACT (SUCH AS FLOORS, WALLS, CEILINGS, AND ROOFS), SHALL BE CUT AND/OR PATCHED BY THE ELECTRICAL CONTRACTOR.

G. EXISTING FIRE ALARM SYSTEM:
  1. THE EXISTING FIRE ALARM SYSTEM (*SIMPLEX, INSTALLED IN 2004*) SHALL REMAIN. ALL RELOCATED AND NEW DEVICES SHOWN ON DRAWINGS SHALL BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL CONNECTIONS REQUIRED TO INTEGRATE NEW DEVICES TO THE EXISTING SYSTEM. PROVIDE A MINIMUM OF 8 HOURS OF TECHNICIAN LABOR FROM LOCAL MANUFACTURER'S REPRESENTATIVE TO CONNECT DEVICES AND PROGRAM DEVICES INTO SYSTEM.

H. **EXISTING PANELBOARD SCHEDULES:**
  1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TYPE-WRITTEN PANELBOARD DIRECTORIES IN ALL EXISTING PANELBOARDS WHERE CIRCUITS HAVE BEEN ADDED OR DELETED. THE INFORMATION FOR EACH CIRCUIT SHALL INCLUDE TYPE OF LOAD AND LOCATION OF CIRCUITING. THE ROOM NUMBERS USED TO CREATE THESE PANELBOARD DIRECTORIES WILL BE BASED ON THE AS-BUILT ROOM NUMBERS, IF DIFFERENT THAN THE ROOM NUMBERS ON DRAWINGS. COORDINATE THE ROOM NUMBERS WITH OWNER AND ARCHITECT PRIOR TO CREATING DIRECTORIES. AFTER ALL DIRECTORIES HAVE BEEN INSTALLED IN PANELBOARDS, THE CONTRACTOR WILL PROVIDE ALL DIRECTORIES ON A FLASH DRIVE LISTING SOFTWARE USED TO CREATE THE FILES FOR USE BY THE OWNER.

I. EXISTING CIRCUIT NUMBERS:
  1. THE CIRCUIT NUMBERS SHOWN ON THE DRAWINGS ARE BASED ON THE ORIGINAL CONTRACT DOCUMENTS AND EXISTING PANELBOARD SCHEDULES. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUIT NUMBERS IN FIELD PRIOR TO COMMENCING WORK.

GENERAL ABBREVIATIONS

A	AMPERE	OC	ON CENTER
AC	ABOVE COUNTER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AFF	ABOVE FINISHED FLOOR	OEM	ORIGINAL EQUIPMENT MANUFACTURER
AWG	AMERICAN WIRE GAUGE	P	POLE
C	CONDUIT	PB	PUSH BUTTON
CB	CIRCUIT BREAKER	PH	PHASE
CKT	CIRCUIT	PNL	PANELBOARD
CLG	CEILING	POS	POSITION
CONN	CONNECTION	PRI	PRIMARY
CU	COPPER	PWR	POWER
DISC	DISCONNECT	REC	RECESSED
DWG	DRAWING	RECPT	RECEPTACLE
E	EMERGENCY OR EMERGENCY SYSTEM	REQ	REQUIRED
EMT	ELECTRIC METALLIC TUBING	RMC	RIGID GALVANIZED METAL CONDUIT
EQUIP	EQUIPMENT	SCCR	SHORT CIRCUIT CURRENT RATING
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
EX	EXISTING	SEC	SECONDARY
FA	FIRE ALARM	SM	SURFACE MOUNTED
FBO	FURNISHED BY OTHERS WITH ALL RELATED ELECTRICAL WORK BY ELECTRICAL CONTRACTOR	SPD	SURGE PROTECTIVE DEVICE
		SW	SWITCH
FDR	FEEDER	SWBD	SWITCHBOARD
FH	FUME HOOD	TELE	TELEPHONE
FT	FEET	THRU	THROUGH
FTL	FEED THROUGH LUGS	TL	TWIST LOCK
GND	GROUND OR GROUNDED	TP	TAMPER PROOF
GRD	GROUND OR GROUNDED	TV	TELEVISION
HP	HORSEPOWER	TYP	TYPICAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UC	UNDER COUNTER
IN	INCH	UNO	UNLESS NOTED OTHERWISE
JB	JUNCTION BOX	V	VOLT
KW	KILOWATT	W	WATT
LTG	LIGHTING	W/	WITH
MSF	MAIN SWITCH AND FUSE	W/O	WITHOUT
MCB	MAIN CIRCUIT BREAKER	WP	WEATHER PROOF ENCLOSURE
MFR	MANUFACTURER	X	EXISTING TO REMAIN
MH	MANHOLE	XA	EXISTING TO BE REMOVED COMPLETELY
MLO	MAIN LUG ONLY	XP	EXPLOSION PROOF
MTD	MOUNTED	XR	RELOCATED EXISTING EQUIPMENT
MTG	MOUNTING	XRN	EXISTING TO BE REMOVED AND REPLACED WITH NEW DEVICE
NA	NOT APPLICABLE		
NIC	NOT IN THIS CONTRACT	XRR	EXISTING TO BE REMOVED AND RELOCATED
NO	NUMBER	Y	STAR OR WYE DISTRIBUTION SYSTEM
NTS	NOT TO SCALE		

CONTRACTOR ABBREVIATIONS

EC	ELECTRICAL CONTRACTOR	HC	HVAC CONTRACTOR
GC	GENERAL CONTRACTOR	PC	PLUMBING CONTRACTOR

GENERAL DRAWING SYMBOLS

#/DWG — DETAIL INDICATOR. '#' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION. 'DWG' DENOTES DRAWING NUMBER WHERE DETAIL IS DRAWN.

#/DWG — ELEVATION/VIEW INDICATOR. '#' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION. 'DWG' DENOTES DRAWING NUMBER WHERE DETAIL IS DRAWN.

\# — REVISION INDICATOR. '#' DENOTES REVISION LEVEL.

\# — CODED NOTE. '#' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION.

POWER

CEILING MTD	FLOOR MTD	WALL MTD	
J		J	JUNCTION BOX. MOUNT 18" AFF UNO.
			DUPLEX OUTLET RECEPTACLE. MOUNT 18" AFF UNO

1 / 1L1

NOMENCLATURE:
- '1' DENOTES CIRCUIT NUMBER. TWO NUMBERS SEPARATED BY A SLASH (e.g. 31/33) INDICATES A 2-POLE CIRCUIT TO BE CONNECTED TO POSITIONS 31 AND 33 IN THE PANELBOARD. THREE NUMBERS SEPARATED BY A SLASH (e.g. 31/33/35) INDICATES A 3-POLE CIRCUIT IN THE PANELBOARD. NUMBERS SEPARATED BY COMMAS, INDICATES INDIVIDUAL SINGLE-POLE CIRCUITS (e.g. 31,33,35).
- '1L1' DENOTES PANELBOARD.
- 'GFI' DENOTES GROUND FAULT INTERRUPTING RECEPTACLE.
- 'SP' DENOTES RECEPTACLE FOR SUMP PUMP.

1

NON-FUSED SAFETY DISCONNECT SWITCH. MOUNT 6'-0" AFF TO TOP OF ENCLOSURE UNO.

FUSED SAFETY DISCONNECT SWITCH. MOUNT 6'-0" AFF TO TOP OF ENCLOSURE UNO.

100/3/80

NOMENCLATURE:
- '*3R*' DENOTES NEMA RATING.

FUSE SIZE
NUMBER OF POLES
SWITCH RATING

PANELBOARD. EXISTING

EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.

UH-01
1
1H1
a

NOMENCLATURE:
EQUIPMENT TAG (REFER TO SCHEDULE)
POSITION NUMBER IN PANELBOARD
- TWO NUMBERS SEPARATED BY A COMMA (e.g. 31,33) INDICATES A 2-POLE CIRCUIT TO BE CONNECTED TO POSITIONS 31 AND 33 IN THE PANELBOARD. THREE NUMBERS SEPARATED BY A COMMA (e.g. 31,33,35) INDICATES A 3-POLE CIRCUIT IN THE PANELBOARD.

PANELBOARD THE EQUIPMENT SHALL BE CONNECTED TO
REFERENCE TO EQUIPMENT CONNECTION DETAIL

LIGHTING

CEILING MOUNTED	WALL MOUNTED	
		INDIVIDUAL LIGHTING FIXTURE. WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT UNO.
		STRIP LIGHT. WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT UNO.

G01 *a* *1* *1H1*

NOMENCLATURE:
- 'G01' DENOTES FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE).
- '1' DENOTES CIRCUIT NUMBER.
- '1H1' DENOTES PANELBOARD.
- 'a' DENOTES SWITCH CONTROL.

NOTES:
1. ADJACENT FIXTURES WITHOUT TAGS TO BE SAME TYPE AS TAGGED FIXTURES.
2. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHTING FIXTURE DESCRIPTIONS.
3. WHERE POSSIBLE, LIGHTING FIXTURES ARE SHOWN AS ACTUAL SIZE AND CONFIGURATION.

LIGHTING CONTROLS

$ — WALL SWITCH. MOUNT 48" AFF TO TOP OF BOX UNO.

FIRE ALARM SYSTEM

CEILING MOUNTED	WALL MOUNTED	
PD	PD	PHOTOELECTRIC TYPE SMOKE DETECTOR. WALL MOUNT AT 8" BELOW CEILING OR CEILING MOUNT UNO.
CZ		CONTROL ZONE ADDRESSABLE MODULE.

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION							MANUFACTURER / MODEL SERIES			LOCATIONS USED
	GENERAL	COLOR	MOUNTING	LUMEN OUTPUT	DRIVER TYPE	LOAD	VOLTAGE	LAFACE & McGOVERN	REPCO ii	ARCHITECTURAL LIGHTING SALES	
G01	1x4 VAPORTITE LED FIXTURE WITH GASKETING	WHITE	SURFACE	LED 4000 LUMENS	DIMMING 0-10V	50W	120/277	LITHONIA XVML	COLUMBIA LXEM4	METALUX VT3	ELEV. PIT
G02	4' LONG STRIP LIGHT FIXTURE WITH STEEL HOUSING AND ROUND DIFFUSE LENS.	WHITE	PENDANT OR SURFACE	LED 4000 LUMENS	DIMMING 0-10V	45W	120/277	LITHONIA ZL1D	COLUMBIA LCL	METALUX SNLED	ELEV. MACHINE ROOM

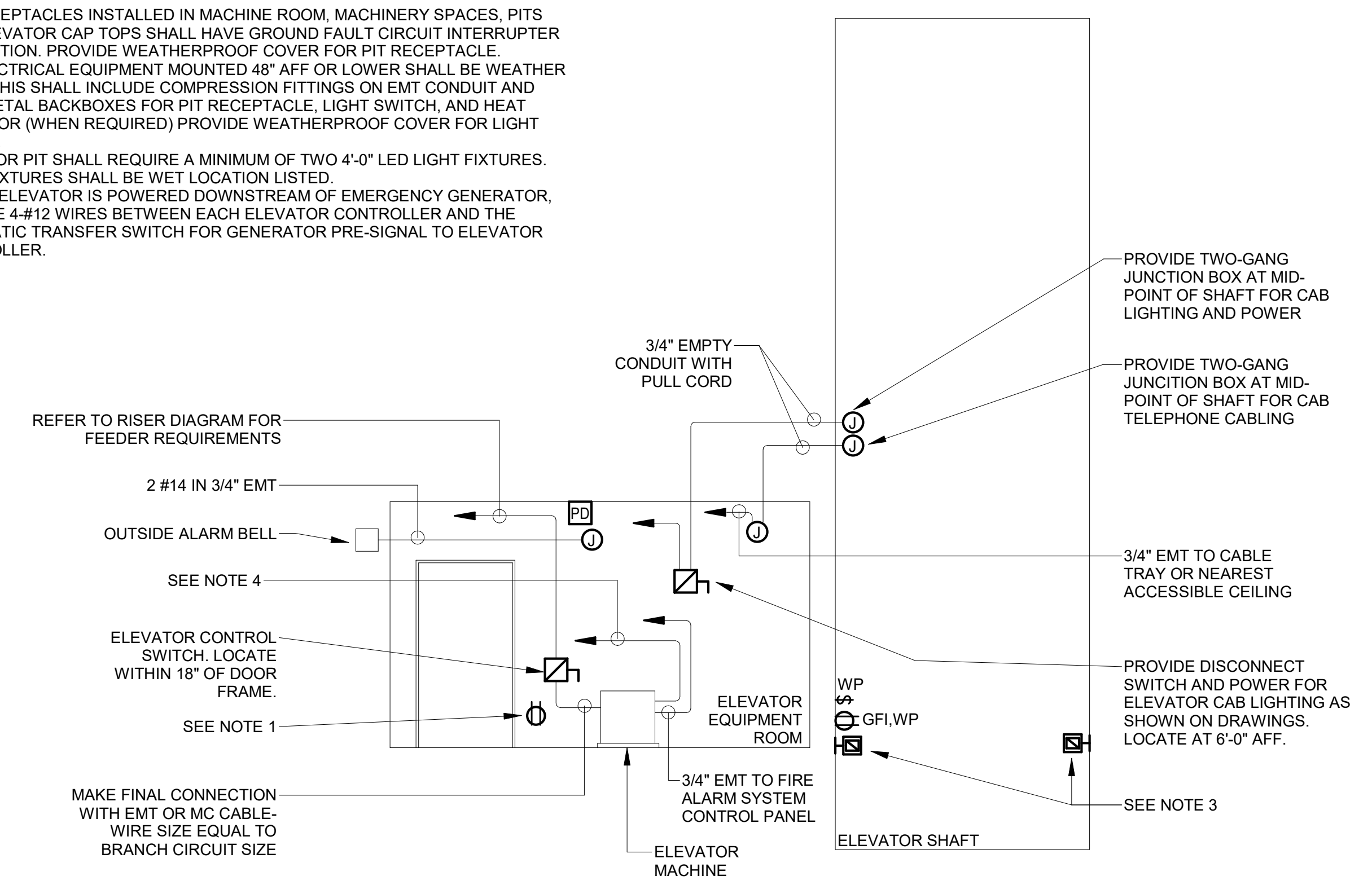
MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT TAG	DESCRIPTION	LOAD	VOLTAGE	PHASE	BRANCH CIRCUIT PROTECTION	CONDUCTORS		GROUND SIZE	CONDUIT SIZE	CONNECTED TO:	
						QTY	SIZE			PANEL	CIRCUIT
CU-1	CONDENSING UNIT	18 MCA	208 V	1	30A/2P	2	10AWG	10AWG	3/4"	RP	29,31
CU-2	CONDENSING UNIT (ALTERNATE BID #1)	18 MCA	208 V	1	30A/2P	2	10AWG	10AWG	3/4"	RP	33,35
SFC-1	SPLIT FAN COIL	1 A	208 V	1	30A/2P	2	10AWG	10AWG	3/4"	RP	29,31
SFC-2	SPLIT FAN COIL (ALTERNATE BID #1)	1 A	208 V	1	30A/2P	2	10AWG	10AWG	3/4"	RP	33,35

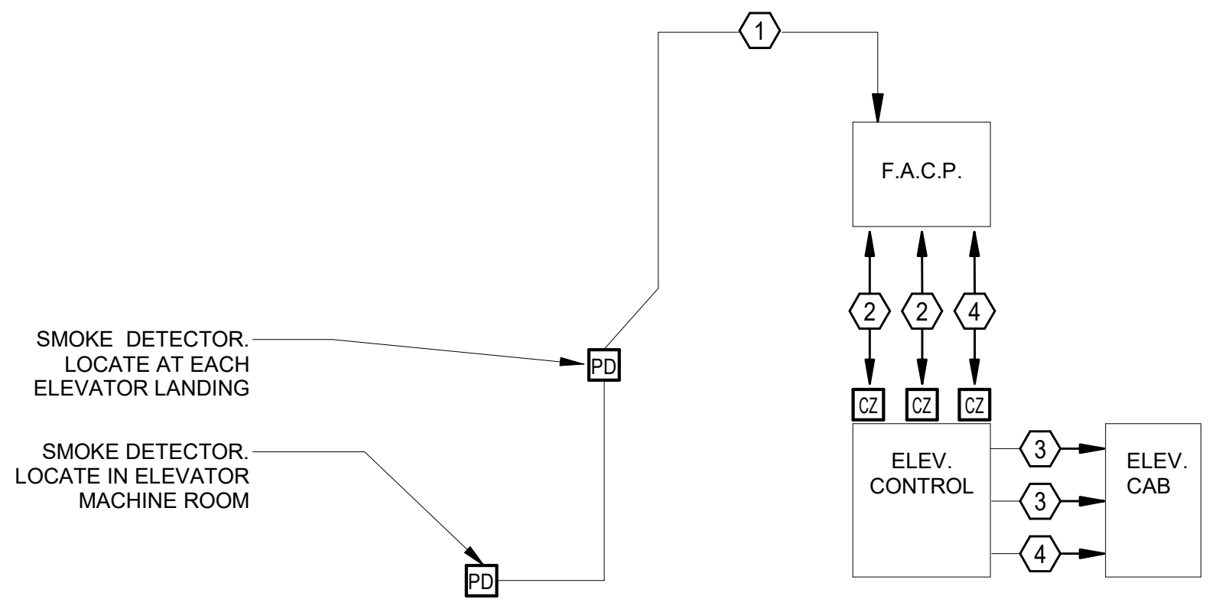
1

ELEVATOR INTERCONNECTION DETAIL - NOTES:

1. ALL RECEPTACLES INSTALLED IN MACHINE ROOM, MACHINERY SPACES, PITS AND ELEVATOR CAP TOPS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION. PROVIDE WEATHERPROOF COVER FOR PIT RECEPTACLE.
2. ALL ELECTRICAL EQUIPMENT MOUNTED 48" AFF OR LOWER SHALL BE WEATHER TIGHT. THIS SHALL INCLUDE COMPRESSION FITTINGS ON EMT CONDUIT AND CAST METAL BACKBOXES FOR PIT RECEPTACLE, LIGHT SWITCH, AND HEAT DETECTOR (WHEN REQUIRED) PROVIDE WEATHERPROOF COVER FOR LIGHT SWITCH.
3. ELEVATOR PIT SHALL REQUIRE A MINIMUM OF TWO 4'-0" LED LIGHT FIXTURES. LIGHT FIXTURES SHALL BE WET LOCATION LISTED.
4. WHERE ELEVATOR IS POWERED DOWNSTREAM OF EMERGENCY GENERATOR, PROVIDE 4-#12 WIRES BETWEEN EACH ELEVATOR CONTROLLER AND THE AUTOMATIC TRANSFER SWITCH FOR GENERATOR PRE-SIGNAL TO ELEVATOR CONTROLLER.



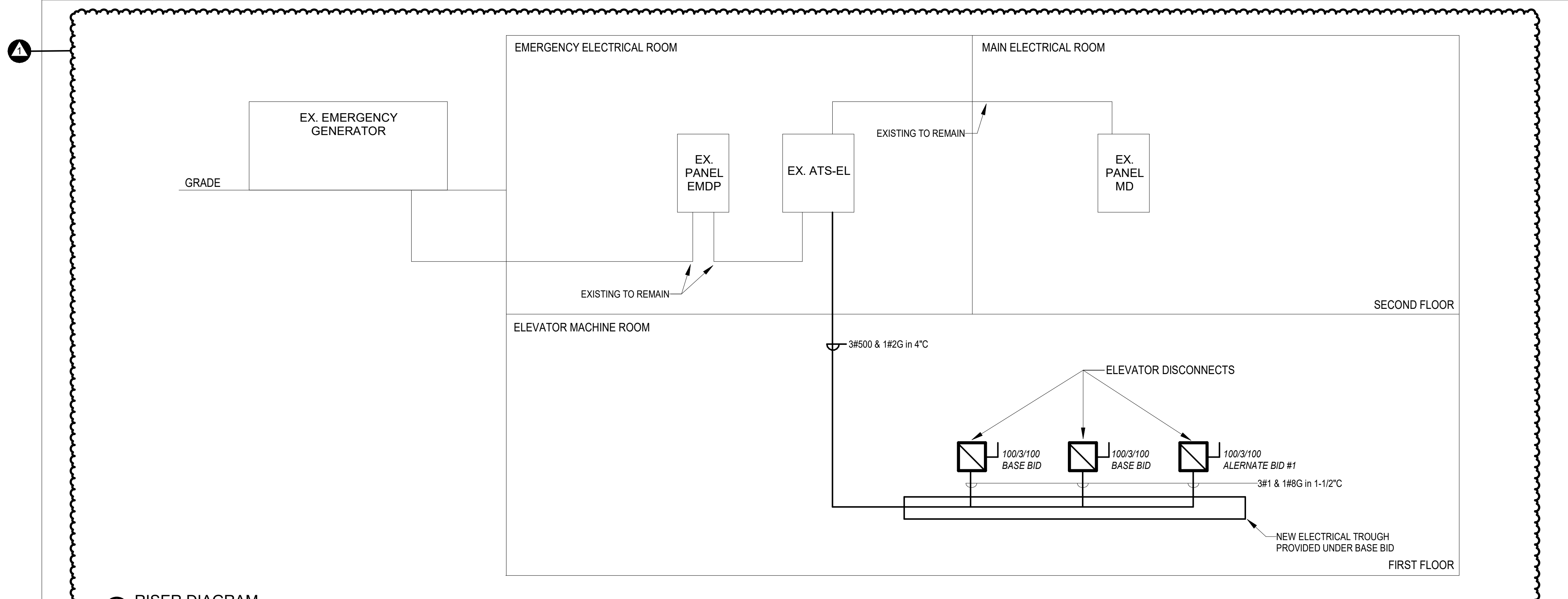
① ELEVATOR INTERCONNECTION DETAIL
NOT TO SCALE



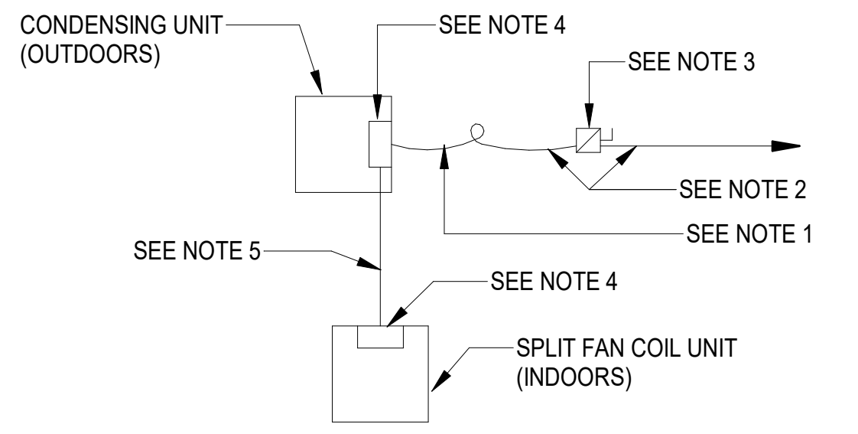
CODED NOTES: (ELEVATOR COMPLIANCE DETAIL - CODE ASME A17.1)

1. SMOKE DETECTORS (SYSTEM TYPE) IN CONTRACT SIGNAL FIRE ALARM PANEL FOR NOTIFICATION.
2. FIRE ALARM CONTROL PANEL SHALL SIGNAL ELEVATOR CONTROLLER THROUGH ADDRESSABLE CONTROL RELAY FOR PRIMARY ELEVATOR RECALL. IF PRIMARY RECALL FLOOR IS IN ALARM, FIRE ALARM CONTROL PANEL SHALL SIGNAL ELEVATOR CONTROLLER THROUGH ADDRESSABLE CONTROL RELAY FOR SECONDARY RECALL. CONTROL RELAYS SHALL BE MOUNTED WITHIN 5'-0" OF ELEVATOR CONTROLLER. ALL FIRE ALARM CABLING SHALL BE SUPERVISED.
3. ELEVATOR CONTROLLER SIGNALS CAB, IF DESIGNATED FLOOR DETECTOR IS IN ALARM THEN CAB RETURNS TO ALTERNATE LEVEL AS APPROVED BY THE ENFORCING AUTHORITY. IF THE SMOKE DETECTOR IS IN ALARM AT OR BELOW THE LOWEST LANDING RECALL, CAB SHALL BE SENT TO THE UPPER LEVEL OF RECALL.
4. THE CAB ELEVATOR WARNING LIGHT SHALL BE ACTIVATED UPON ACTIVATION OF THE ELEVATOR MACHINE ROOM INITIATING DEVICE (REFER TO NFPA 72 21.3.14.3).

② ELEVATOR POWER COMPLIANCE
NOT TO SCALE



③ RISER DIAGRAM
NOT TO SCALE



NOTES:
1. PROVIDE FLEXIBLE CONDUIT IN ACCORDANCE WITH SPECIFICATION.
2. PROVIDE WIRING IN ACCORDANCE WITH EQUIPMENT SCHEDULE.
3. PROVIDE A FUSED DISCONNECT SWITCH WITH A RATING TO MATCH EQUIPMENT AND FUSED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION. INSTALL ADJACENT TO EQUIPMENT IN ACCORDANCE WITH NEC REQUIREMENTS.
4. CONNECT TO INTEGRAL DISCONNECT SWITCH OR CONTROL PANEL IN UNIT.
5. PROVIDE 2-#12 AND 1-#12 GRD. IN 3/4" EMT CONDUIT FROM CONTROL PANEL ON ROOF-MOUNTED CONDENSING UNIT TO SPLIT FAN COIL UNIT MOUNTED INSIDE BUILDING. OORDINATE CONNECTIONS WITH DIVISION 23 CONTRACTOR.

④ EQUIPMENT CONNECTION (Split Fan Coil Units)
NOT TO SCALE

TOWER
ENGINEERING
115 Evergreen Heights Drive, Suite 400, Pittsburgh, Pennsylvania 15229
Phone: (412) 931-8888 Fax: (412) 939-2525
Project Number: 2025004

T STEFFANIE BAKO
20911
5/27/2026

PARKING GARAGE ELEVATOR REPLACEMENT AT
FAIRMONT STATE UNIVERSITY

Fairmont State University
Fairmont, WV 26554

No.	Description
1	ADDENDUM #2

ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS, & DETAILS

Date 05/27/26
Drawn By JS

E001r

6/10/2026 1:59:47 PM

GENERAL NOTES - SHEET E101

A. WHERE THERE ARE EXISTING BACKBOXES AND/OR CONDUIT DROPS WITHIN EXISTING-TO-REMAIN WALLS, THE EXISTING CONDUIT DROP MAY REMAIN FOR REUSE IF CONDUIT IS THE SAME SIZE AS THE SCHEDULED NEW CONDUIT.
B. WHERE BLANK COVER PLATES ARE REQUIRED BY GENERAL AND/OR CODED NOTES, PROVIDE PLATES THAT MEET THE FOLLOWING REQUIREMENTS: FABRICATED FROM FLAT STAINLESS STEEL WITH BEVELED EDGES AND A FINE BRUSHED FINISH TO MATCH RECEPTACLE FACEPLATES. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS.
C. FOR CIRCUITS THAT ARE REMOVED DUE TO CONSTRUCTION, LABEL THE ABANDONED CIRCUIT AS SPARE AND TURN OFF.
D. WHERE ELECTRICAL DEVICES ARE SHOWN TO BE REMOVED, EC TO MAINTAIN CONTINUITY OF EXISTING CIRCUITING TO OTHER DEVICES SHOWN TO REMAIN.
E. UNLESS NOTED OTHERWISE, EXISTING DEVICES DESIGNATED AS 'XA' SHALL BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED WIRE, CONDUIT AND BOXES BACK TO SOURCE.
F. WHERE NEW CIRCUIT BREAKERS ARE REQUIRED, MANUFACTURER AND AIC RATING SHALL MATCH EXISTING EQUIPMENT.

CODED NOTES - SHEET E101

1 EXISTING FIRE ALARM CONTROL MODULES FOR PRIMARY AND SECONDARY RECALL AND FIREMAN'S HAT SIGNAL TO REMAIN.

2 DISCONNECT AND REMOVE EXISTING (3) FUSED DISCONNECT SWITCHES FOR ELEVATOR MACHINE. REMOVE THE TROUGH, ALL WIRE, AND CONDUIT BACK TO ATS. REFER TO RISER DIAGRAM FOR MORE INFORMATION.

3 DISCONNECT AND REMOVE EXISTING (3) DISCONNECT SWITCHES FOR THE EXISTING ELEVATOR CAB LIGHTING. REMOVE ALL WIRE AND CONDUIT BACK TO SOURCE OF ORIGIN.

4 PROVIDE (3) NEW 20A/1P CIRCUIT BREAKERS IN THE EXISTING BUSSED SPACE OF PANELBOARD ERP. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER (EATON) AND AIC RATING (FIELD VERIFY) TO MATCH EXISTING.

1

5 UNDER BASE BID, PROVIDE (6) NEW 20A/1P & (2) NEW 30A/2P CIRCUIT BREAKERS IN THE EXISTING BUSSED SPACE OF PANELBOARD RP. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER (EATON) AND AIC RATING (FIELD VERIFY) TO MATCH EXISTING.

6 UNDER BASE BID PROVIDE A 30A/1P NON-FUSED DISCONNECT SWITCH FOR TWO OF THE ELEVATOR CAB LIGHTING. PROVIDE (2)#12 AND (1)#12G IN A 3/4" EMT CONDUIT FROM A NEW 20A/1P CIRCUIT BREAKER IN PANELBOARD ERP.

7 UNDER BASE BID PROVIDE A NEW ELECTRICAL TROUGH WITH A 100A/3P DISCONNECT SWITCH WITH 100A FUSES FOR TWO ELEVATOR MACHINES. REFER TO THE RISER DIAGRAM 3/E001 FOR ADDITIONAL INFORMATION. TROUGH SHALL BE SIZED PER NEC REQUIREMENTS.

8 ELEVATOR CONTROLS SHALL BE ARRANGED SUCH THAT, UPON LOSS OF NORMAL POWER AND ACTIVATION OF EMERGENCY POWER, ONLY ONE ELEVATOR SHALL OPERATE AT A TIME.

9 EXISTING SPIT FAN COIL UNIT TO BE REMOVED AND REPLACED WITH NEW BY HC. DISCONNECT POWER TO EXISTING EQUIPMENT AND REMOVE ASSOCIATED DISCONNECT SWITCH. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CONDUIT & CONDUCTOR REQUIREMENTS FOR REPLACEMENT MECHANICAL EQUIPMENT.

10 EXISTING CONDENSING UNIT TO BE REMOVED AND REPLACED WITH NEW BY HC. DISCONNECT POWER TO EXISTING EQUIPMENT AND REMOVE ASSOCIATED DISCONNECT SWITCH. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CONDUIT & CONDUCTOR REQUIREMENTS FOR REPLACEMENT MECHANICAL EQUIPMENT.

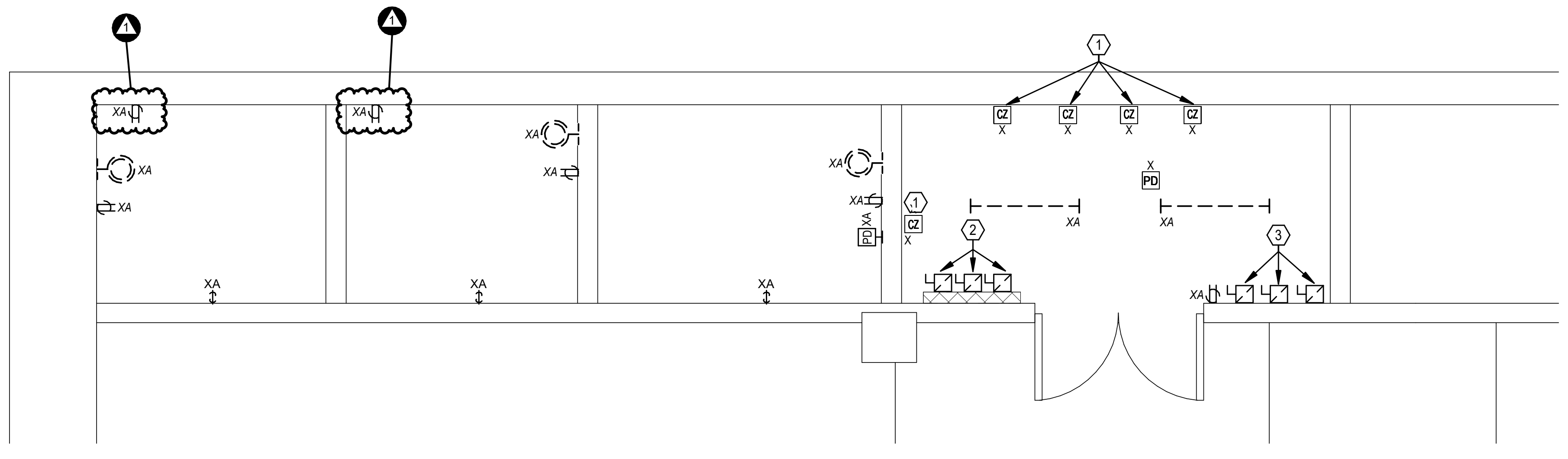
1

11 ALL ELECTRICAL DEVICES SHOWN IN ELEVATOR PIT ARE TO BE UNDER ALTERNATE BID #1 INCLUDING BUT NOT LIMITED TO RECEPTACLES, LIGHT FIXTURES, AND LIGHTING DEVICES.

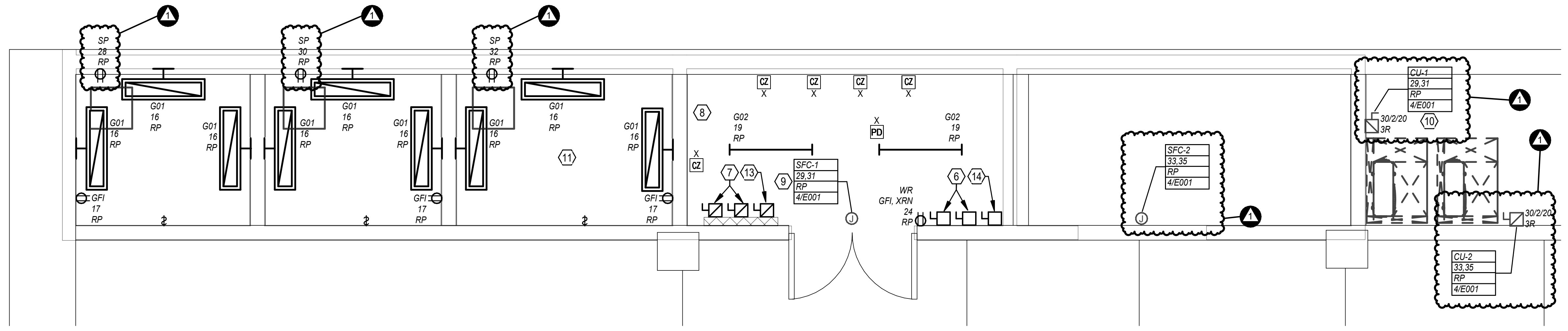
12 UNDER ALTERNATE BID #1, PROVIDE (1) NEW 20A/1P CIRCUIT BREAKER IN THE EXISTING BUSSED SPACE OF PANELBOARD RP. NEW CIRCUIT BREAKER SHALL BE OF THE SAME MANUFACTURER (EATON) AND AIC RATING (FIELD VERIFY) TO MATCH EXISTING.

13 UNDER ALTERNATE BID #1 PROVIDE A 100A/3P DISCONNECT SWITCH WITH A 100A FUSE FOR THE THIRD ELEVATOR MACHINE. REFER TO THE RISER DIAGRAM 3/E001 FOR ADDITIONAL INFORMATION.

14 UNDER ALTERNATE BID #1 PROVIDE A 30A/1P NON-FUSED DISCONNECT SWITCH FOR THE THIRD ELEVATOR CAB LIGHTING. PROVIDE (2)#12 AND (1)#12G IN A 3/4" EMT CONDUIT FROM A NEW 20A/1P CIRCUIT BREAKER IN PANELBOARD ERP.



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



② FIRST FLOOR ELECTRICAL PLAN
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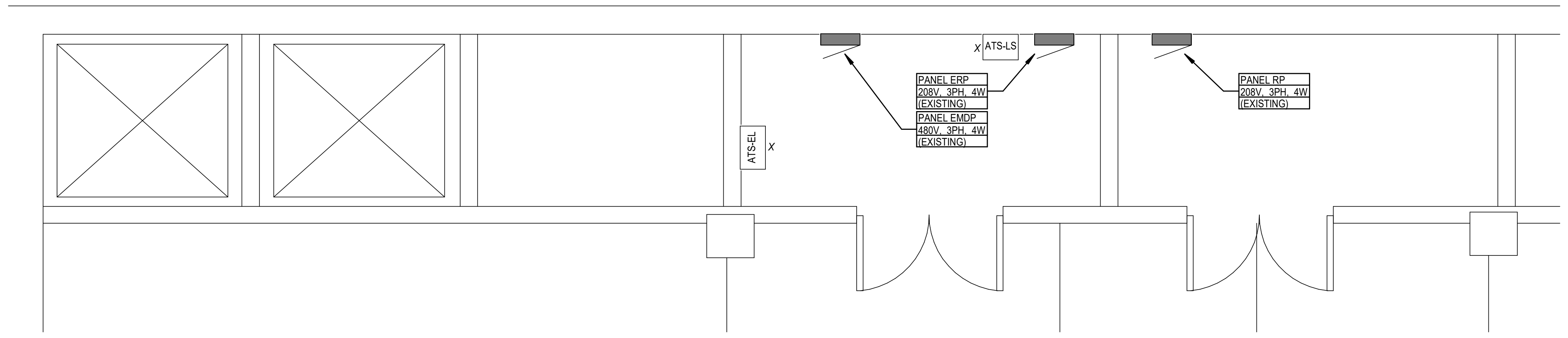
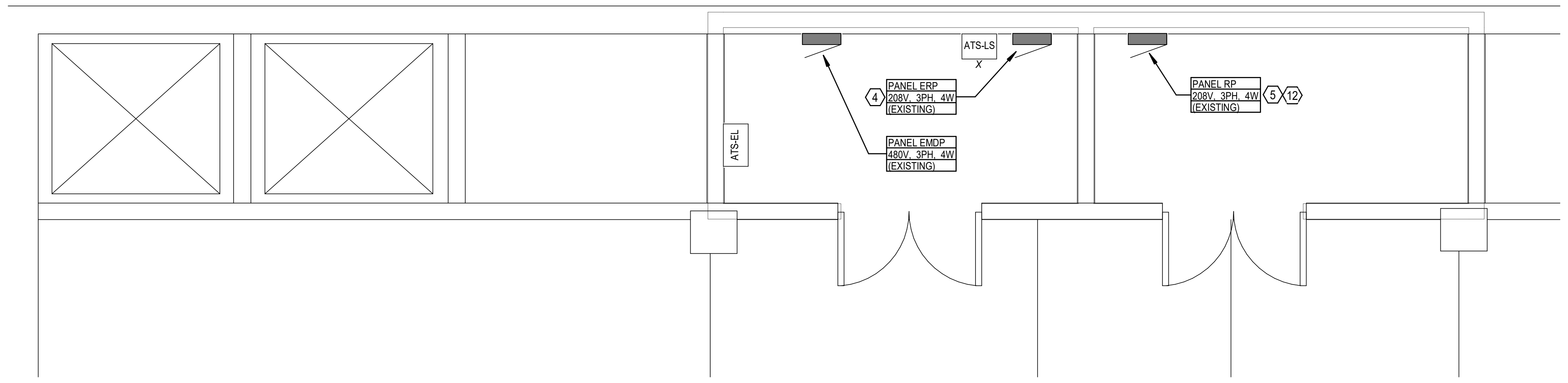
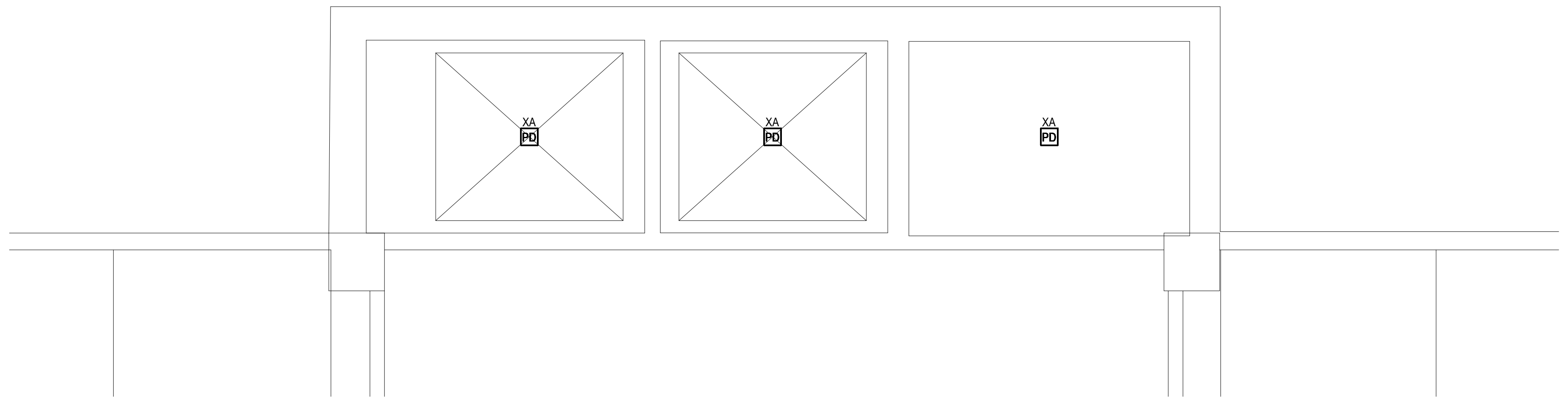


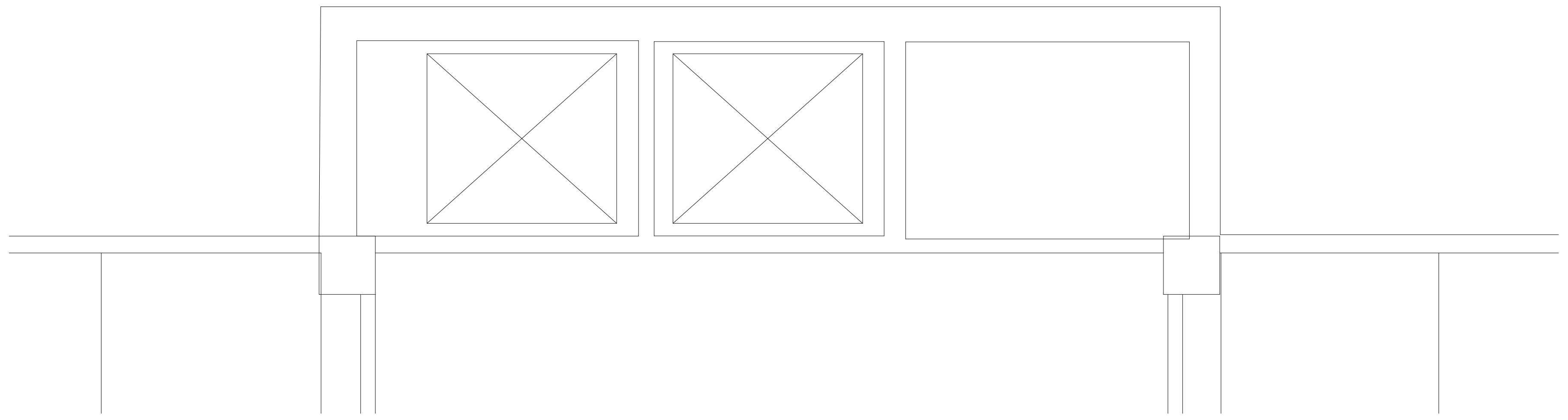
③ SECOND FLOOR ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



④ SECOND FLOOR ELECTRICAL PLAN
1/4" = 1'-0"



⑤ SIXTH FLOOR ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



⑥ SIXTH FLOOR ELECTRICAL PLAN
1/4" = 1'-0"

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TOWER
ENGINEERING
115 Evergreen Heights Drive, Suite 400, Pittsburgh, Pennsylvania 15229
Phone: (412) 931-8888 Fax: (412) 939-2525
Project Number: 2025004

T STEFFANIE BAKO
20911
5/27/2026

PARKING GARAGE ELEVATOR REPLACEMENT AT FAIRMONT STATE UNIVERSITY

Fairmont State University
Fairmont, WV 26554

No.	Description
1	ADDENDUM #2

ELECTRICAL PLANS

Date 05/27/26
Drawn By JS

E101r

HVAC SYMBOLS & ABBREVIATIONS

PIPING SYMBOLS

CD	COIL CONDENSATE DRAIN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	PIPING TURNED UP
	PIPING TURNED DOWN
	90° RISE OR DROP IN PIPE
	45° RISE OR DROP IN PIPE
	PIPE TAKEOFF FROM TOP OF MAIN
	PIPE TAKEOFF FROM BOTTOM OF MAIN
	PIPE TAKEOFF FROM SIDE OF MAIN

GENERAL DRAWING SYMBOLS

	POINT OF CONNECTION - NEW TO EXISTING
◑	DEMOLITION LIMIT
NO	CODED NOTE 'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
ID-NO	EQUIPMENT TAG (REFER TO APPROPRIATE SCHEDULE) 'ID' DENOTES EQUIPMENT TYPE (I.E. EF=EXHAUST FAN) 'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
NO D1 D2	SECTION INDICATOR 'NO' DENOTES SEQUENTIAL ALPHABETIC DESIGNATION 'D1' DENOTES DRAWING ON WHICH SECTION CUT 'D2' DENOTES DRAWING ON WHICH SECTION IS LOCATED
NO DWG	DETAIL INDICATOR 'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION 'DWG' DENOTES DRAWING ON WHICH DETAIL IS LOCATED
NO/DWG	ELEVATION/VIEW INDICATOR 'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION 'D' DENOTES DRAWING ON WHICH ELEVATION/VIEW IS LOCATED
#	REVISION INDICATOR 'NO' DENOTES REVISION LEVEL

ABBREVIATIONS

ALT	ALTERNATE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATC	AUTOMATIC TEMPERATURE CONTROL
BAS	BUILDING AUTOMATION SYSTEM
BLDG	BUILDING
BTUH	BRITISH THERMAL UNITS/HOUR
CD	COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
CONN	CONNECTION
CP	CONTROL PANEL
CU	CONDENSING UNIT
°F	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DX	DIRECT EXPANSION
FLA	FULL LOAD AMPS
FT	FEET
FURN	FURNISH
GC	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATING & AIR CONDITIONING
IN	INCH
LBS	POUNDS
MANUF.	MANUFACTURER
MBH	1000 BTUH
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
NO.	NUMBER
PH	PHASE
REFRIG.	REFRIGERANT
RS	REFRIGERANT SUCTION
SFC	SPLIT FAN COIL UNIT
T	THERMOSTAT
TEMP	TEMPERATURE
TYP	TYPICAL
V	VOLTAGE

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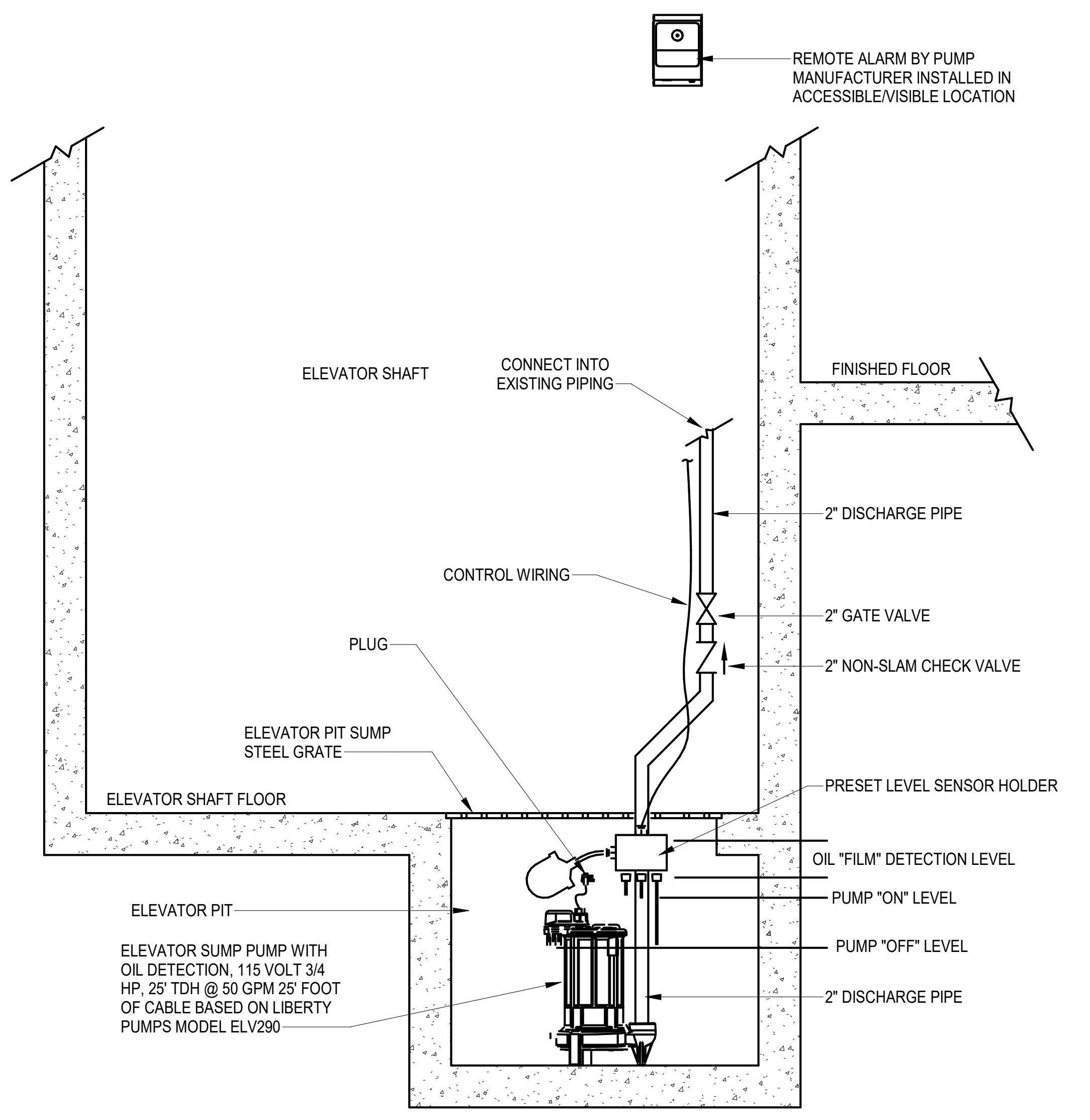


SUMP PUMP SPECIFICATION

A. TYPE: SUBMERSIBLE, UL 778

B. CASING: CAST IRON OR 304 STAINLESS STEEL, MECHANICAL SEALS IN SEPARATE OIL-FILLED COMPARTMENT.

C. FASTENERS: ALL NON-CORROSIVE STAINLESS STEEL

D. BEARINGS: PERMANENTLY LUBRICATED.

E. PUMP MOTOR: 25 FEET TDH @ 50 GPM, 3/4 HP, 115v, SINGLE PHASE, THERMAL OVERLOAD PROTECTION.

F. POWER CORD: 25 FOOT MATING CABLE, QUICK-DISCONNECT, UL APPROVED. CONTRACTOR TO SUPPLY LONGER CORD IF NECESSARY

G. DISCHARGE PIPING: 2". PROVIDE CHECK VALVE AS REQUIRED.

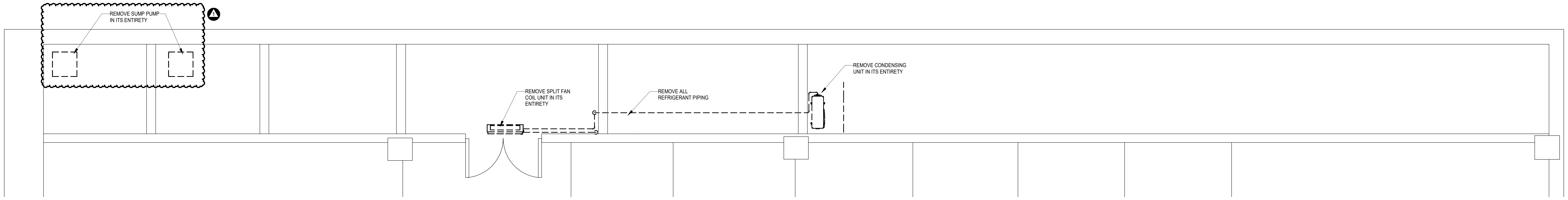
H. CONTROL PANEL: FURNISH 4X ENCLOSURE WITH STAINLESS STEEL HINGED HARDWARE AND 8-PIN TWIST LOCK RECEPTACLE. INCLUDE THE FOLLOWING:

1. DUAL FLOATS.
2. HIGH DECIBEL ALARM HORN WITH ILLUMINATED RED LIGHT.
3. HIGH WATER WARNING LIGHT.
4. 115V PLUG-IN
5. ALARM SILENCING BUTTON.
6. REMOTE MONITORING CONTACT.

I. MODEL: ELV290 "OIL-TECTOR" MANUFACTURED BY LIBERTY PUMPS

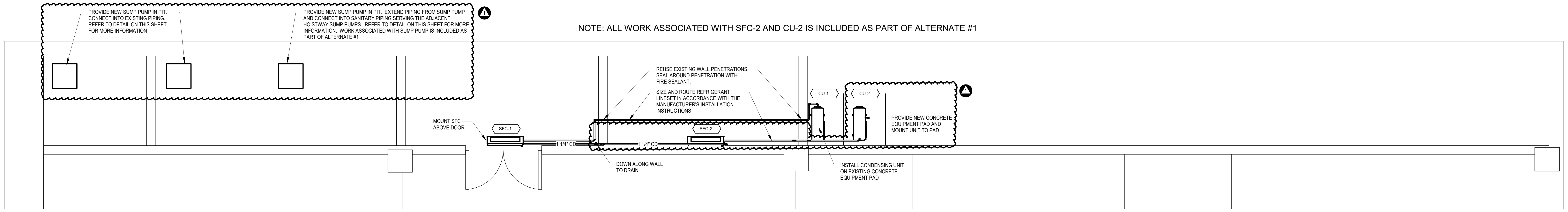
NOTES:
1. FLEXIBLE CORDLENGTHS OVER 6'-0" SHALL BE INSTALLED IN CONDUITS.

③ ELEVATOR SUMP PUMP DETAIL
NOT TO SCALE



① FIRST FLOOR HVAC DEMOLITION
1/4" = 1'-0"

NOTE: ALL WORK ASSOCIATED WITH SFC-2 AND CU-2 IS INCLUDED AS PART OF ALTERNATE #1



② FIRST FLOOR HVAC NEW
1/4" = 1'-0"

SPLIT FAN COIL UNIT SCHEDULE (DX COOLING WITH REMOTE CONDENSING UNIT)																
UNIT NO.	AREA SERVED	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	FAN COIL DATA				REMOTE CONDENSING UNIT DATA								REMARKS
				V	PH	MANUF.	MODEL	UNIT NO.	UNIT FLA	UNIT MCA	UNIT MOCP	V	PH	MANUF.	MODEL	
SFC-1	ELEVATOR EQUIPMENT ROOM	15	19.4	208	1	MITSUBISHI	MSZ-FS15NA	CU-1	81	18	20	208	1	MITSUBISHI	MUZ-FS15NAH	1 - 4
SFC-2	ELEVATOR EQUIPMENT ROOM	15	19.4	208	1	MITSUBISHI	MSZ-FS15NA	CU-2	81	18	20	208	1	MITSUBISHI	MUZ-FS15NAH	1 - 4

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REMARKS
1. INTEGRAL CONDENSATE PUMP
2. INTEGRAL DISCONNECT ON FAN COIL
3. AUTOMATIC RESTART AFTER POWER FAILURE
4. WALL MOUNTED UNIT

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Project Number: 2025004

JAMES N. KOSINSKI
16993
05/27/2026

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FAIRMONT STATE UNIVERSITY

Fairmont State University
Fairmont, WV 26554

No.	Description
1	ADDENDUM #2

HVAC PLANS

Date 05/27/26
Drawn By RCH

H101r