

Date: April 17, 2018

Queen's Quay Terminal
207 Queen's Quay West, Suite
615
Toronto, Ontario M5J 1A7

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Project Name: AQUAVISTA - Bayside
Client: TRIDEL Corporation
To: TRIDEL Corporation
Attention: Chadi Loza
Fax number: -

Project No.: 8489D
SI No.: E 039
Page No.: 1 of 2+ 5 attached
Office: Toronto
From: Sunanda Perera
Radovan
Andulajevic

Distribution: Gin Hum –TRIDEL
Chadi Loza - TRIDEL
Christina Lee -KIRKOR
Al Medeiros –MCW
Michael Hunter-MCW
Mark Furtado-MCW
Sarfraz H. Jaffrey-MCW

Provide itemized labor, equipment and material costs for Work listed below. Do not proceed with any of the listed Work prior to issuance of signed Change Order.

Title: Additional EV Charging Stations.

Specification:

Spec	Issued	Items
Panel schedule	Yes	Add new panel 2P1RC1-EV as shown.

Electrical:

Drawing No.	Drawing Issued	Items
Electrical drawings have been revised to address the EV charging replacement from Type-1 to Type-2		
E1-01, E1-02	Yes	- Replace type-1 charging stations with type-2 (Total Qty-5). - Feeders and conduits to be added for this change.
E3-01-RC	Yes	- Add new service panel, transformer, breakers, and wiring necessary for the conversion of parking units as shown. - Coordinate with metering contractor for required metering addition.
E5-01	Yes	- Add new panel 2P1RC1-EV and transformer 'TX-RCE6' as shown. - Locate the panel '2P1RC1-EV' maintaining the working clearance in front of the panel. Update the exact location in as built drawings.

ME Schedule:

Drawing No.	Drawing Issued	Items
		N/A.

Reason for Issue – As per TRIDEL'S request.

End of SI-E039

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

400 AMP MAINS

MAIN BREAKER

JOB NUMBER: 8489D

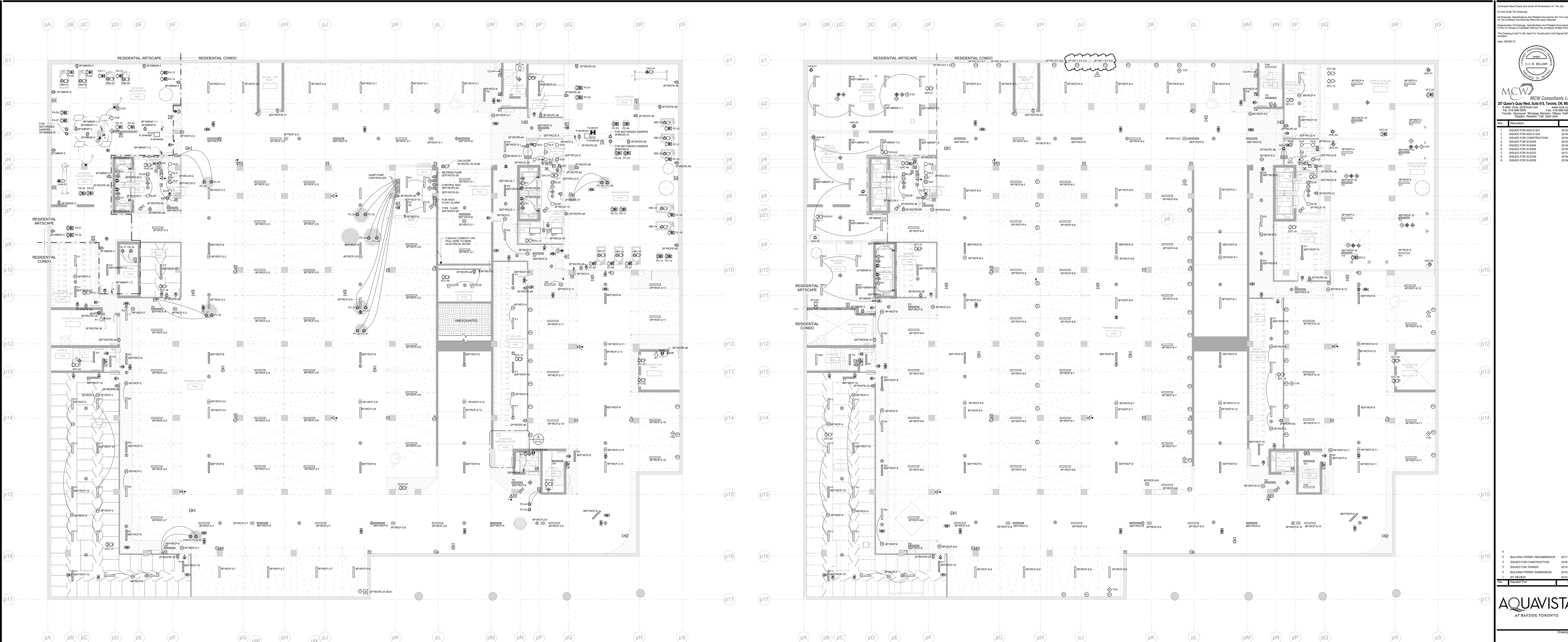
JOB NAME: Aquavista

400						AMP MAINS			2P1RC1-EV			JOB NAME: Aquavista				
MAIN BREAKER						LOAD PER PHASE			CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION		
DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	a	b	c								
RESENDITAL UNIT P2 LEVEL				40	1a	3600			2a	40				RESENDITAL UNIT P3 LEVEL		
					3b		3600		4b							
								3600		6c	40				RESENDITAL UNIT P3 LEVEL	
RESENDITAL UNIT P2 LEVEL				40	5c			3600	8a					RESENDITAL UNIT P3 LEVEL		
					7a	3600			3600							
								3600		10b	40				SPARE	
RESENDITAL UNIT P2 LEVEL				40	9b		3600		12c					SPARE		
					11c			3600								
	SPARE					40	13a				14a	15				METERING
				15b					16b							
					17c					18c						
									20a							
					19a				22b							
					21b				24c							
					23c											
						14400	10800	10800	PANEL TYPE: TYPE1-SPRINKLER PROOF							
						TOTAL WATT 36000			LOCATION: LEVEL P1 EAST ELEC RM							
						TOTAL AMP 100										



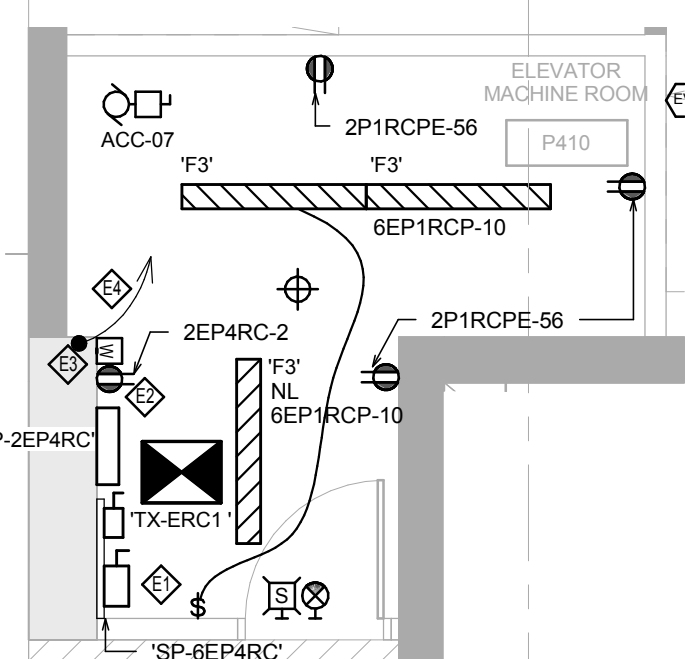
TOTAL WATT

TOTAL AMP



1 LEVEL P4 - ELECTRICAL
1:100

2 LEVEL P3 - ELECTRICAL
1:100



3 ELEVATOR MACH. ROOM P410
1:50

NOTES:

- ALL GARAGE LIGHT FIXTURES SHALL BE TYPE "TYP" UNLESS OTHERWISE NOTED.
- REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E-411)
- PROVIDE MINIMUM AWG WIRING FOR ALL LIGHT FIXTURES IN STAIRS AND IN COMMONS.
- ALL LIGHTING FIXTURES FED FROM NORMAL POWER WITHIN THE PARKING GARAGE SHALL BE CONTROLLED BY OCCUPANCY SENSORS. ALL LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THIS PARKING GARAGE SHALL BE:
- ALL EXIST SIGNS ON THIS DRAWING SHALL BE TYPE "TYP" REFER TO DWG. E-411 FOR CIRCUIT NUMBER.
- SWIMMER SYSTEM LOW SWITCH AND SUPERVISORY VALVE. REFER TO MPPENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.
- PROVIDE 10mm x 10mm x 3mm (THICK) COPPER GROUND FLUSH PLATES. REFER TO SPECIFICATION FOR DETAILS.
- 30 AWG COPPER GROUND WIRE UP TO GROUND BUS IN MAIN ELECTRICAL ROOM (P1 LEVEL). REFER TO DWG. E-501 FOR DETAILS.
- 30 AWG COPPER GROUNDING CONDUIT.
- EMERGENCY VALVE SWITCHES FOR HEATING COILS. PROVIDE LAMINATED IDENTIFICATION PLATE. LOCATE SWITCHES AT 1000MM AFF. PROVIDE SEE THROUGH TAMPER PROOF TYPE ENCLOSURE WITH LAMINATED IDENTIFICATION MARKING.

- FOR FUTURE CAR WASH CONTROLLER PROVIDE POWER 120V/208V 32 kW POWER CONNECTION. EXACT LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWING.
- DEVICE CONNECT TO FIRE ALARM SYSTEM. REFER TO SPECIFICATION FOR DETAILS.
- HEAT DETECTORS SHOWN IN THE MECHANICAL ROOM ARE FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETECTOR TO OPERATE PROPERLY. CONTRACTOR SHALL INCLUDE THE SUPPLY AND INSTALLATION OF AN ADDITIONAL HEAT DETECTOR. EXACT LOCATIONS OF ADDITIONAL DETECTORS SHALL BE AS DIRECTED ON SITE AFTER COMPLETE INSTALLATION. PROVIDE HEAT TEMPERATURE HEAT DETECTOR IN SOLAR ROOM.
- MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS CAN RUN WIRE BACK TO ELECTRICAL CAR CHARGING PANEL AT EAST ELECTRICAL ROOM (P10).
- PROVIDE LOOKABLE COVER MOUNTING HEIGHT 1000mm A.F.F.
- POWER RECEPTACLE FOR FILTRATION SYSTEM. EXACT LOCATION TO BE COORDINATED WITH FILTRATION SYSTEM SHOP DRAWING.

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Date: 08/28/12

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Toronto Vancouver Winnipeg Montreal Ottawa Halifax
Daphne Kelowna Trail Saint John

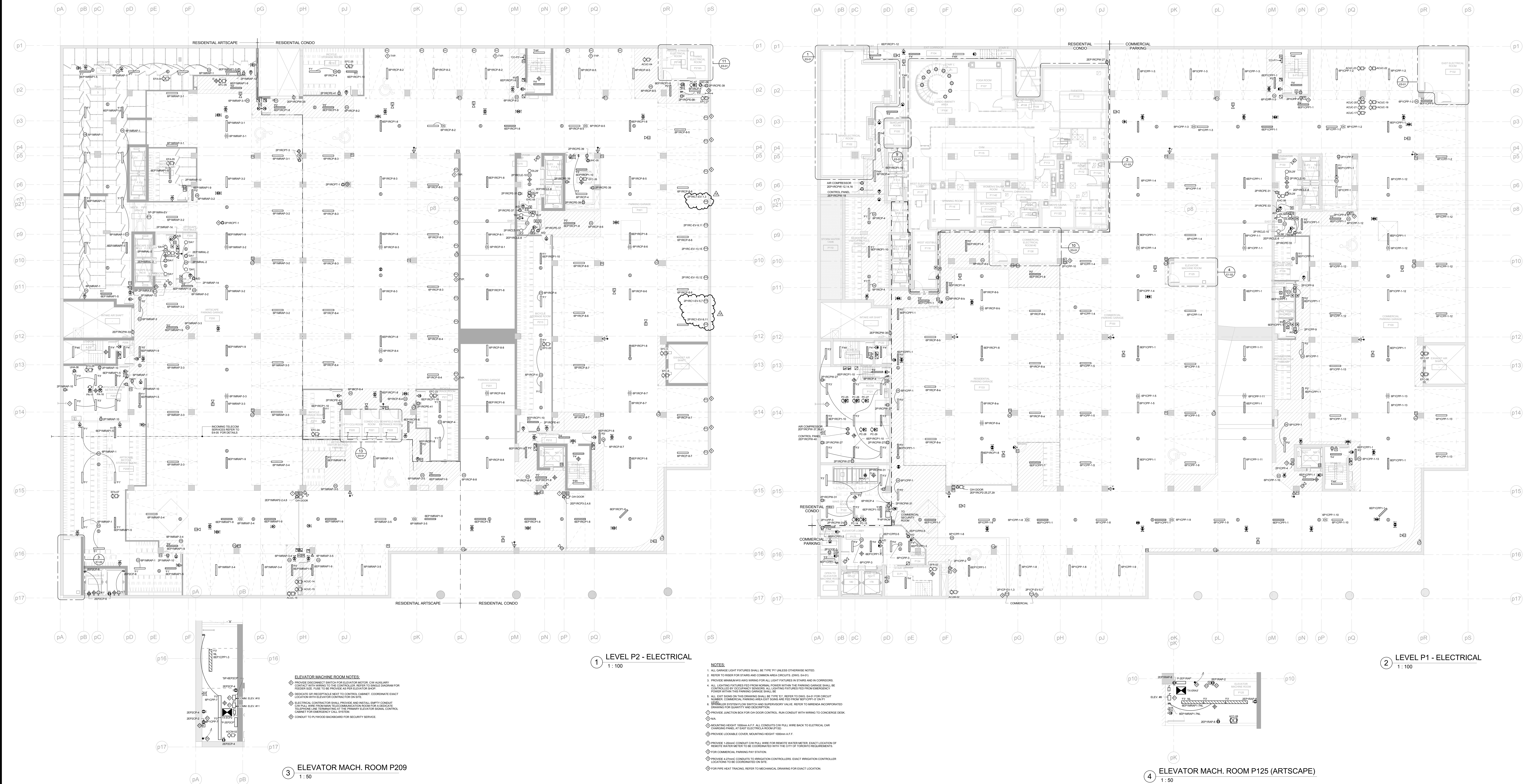
No.	Revision	Date
1	ISSUED FOR ADD E-003	2010/01/20
2	ISSUED FOR ADD E-003	2010/01/20
3	ISSUED FOR CONSTRUCTION	2010/01/20
4	ISSUED FOR CONSTRUCTION	2010/01/20
5	ISSUED FOR CONSTRUCTION	2010/01/20
6	ISSUED FOR CONSTRUCTION	2010/01/20
7	ISSUED FOR CONSTRUCTION	2010/01/20
8	ISSUED FOR CONSTRUCTION	2010/01/20
9	ISSUED FOR CONSTRUCTION	2010/01/20

No.	Revision	Date
1	ISSUED FOR ADD E-003	2010/01/20
2	ISSUED FOR ADD E-003	2010/01/20
3	ISSUED FOR CONSTRUCTION	2010/01/20
4	ISSUED FOR CONSTRUCTION	2010/01/20
5	ISSUED FOR CONSTRUCTION	2010/01/20
6	ISSUED FOR CONSTRUCTION	2010/01/20
7	ISSUED FOR CONSTRUCTION	2010/01/20
8	ISSUED FOR CONSTRUCTION	2010/01/20
9	ISSUED FOR CONSTRUCTION	2010/01/20

1	BUILDING PERMIT RE-SUBMISSION	2017-04-25
2	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-30
4	BUILDING PERMIT SUBMISSION	2015-06-12
5	W/ REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, Ont
As Indicated
Author
Checked By
Checker
S489D
08/28/12
Date
Drawing No.
E1-01



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Date: 03/06/15



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Toronto: Vancouver: Winnipeg: Montreal: Ottawa: Halifax:
Dorchester: Kelowna: Trail: Salt Lake City

No.	Revision	Date
1	ISSUED FOR ADD E-001	2015/01/16
2	ISSUED FOR ADD E-002	2015/01/16
3	ISSUED FOR ADD E-003	2015/01/16
4	ISSUED FOR CONSTRUCTION	2015/04/21
5	ISSUED FOR S.E-001	2015/06/25
6	ISSUED FOR S.E-002	2015/06/25
7	ISSUED FOR S.E-003	2015/06/25
8	ISSUED FOR S.E-004	2015/06/25
9	ISSUED FOR S.E-005	2015/06/25
10	ISSUED FOR S.E-006	2015/06/25
11	ISSUED FOR S.E-007	2015/06/25
12	ISSUED FOR S.E-008	2015/06/25

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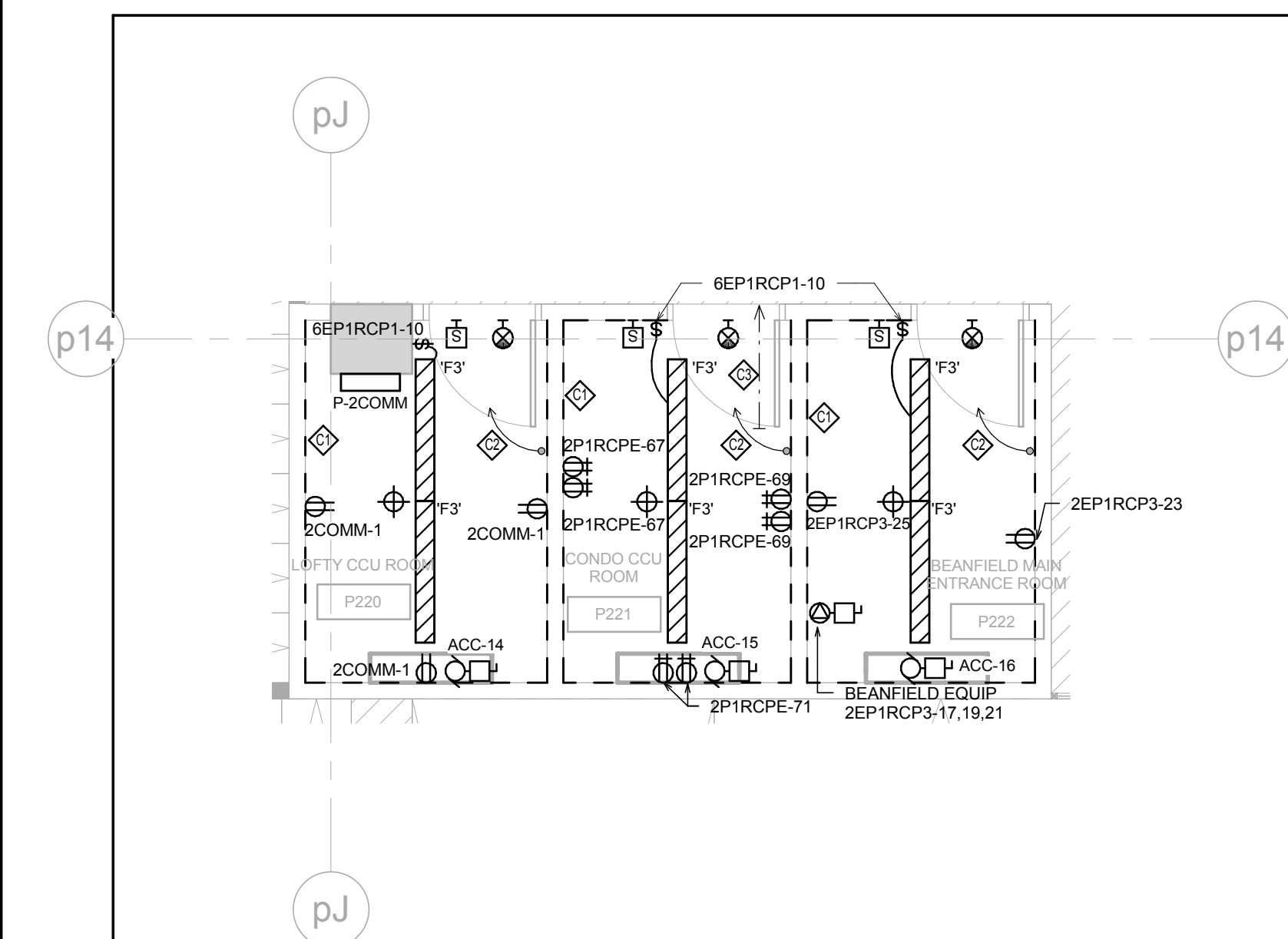
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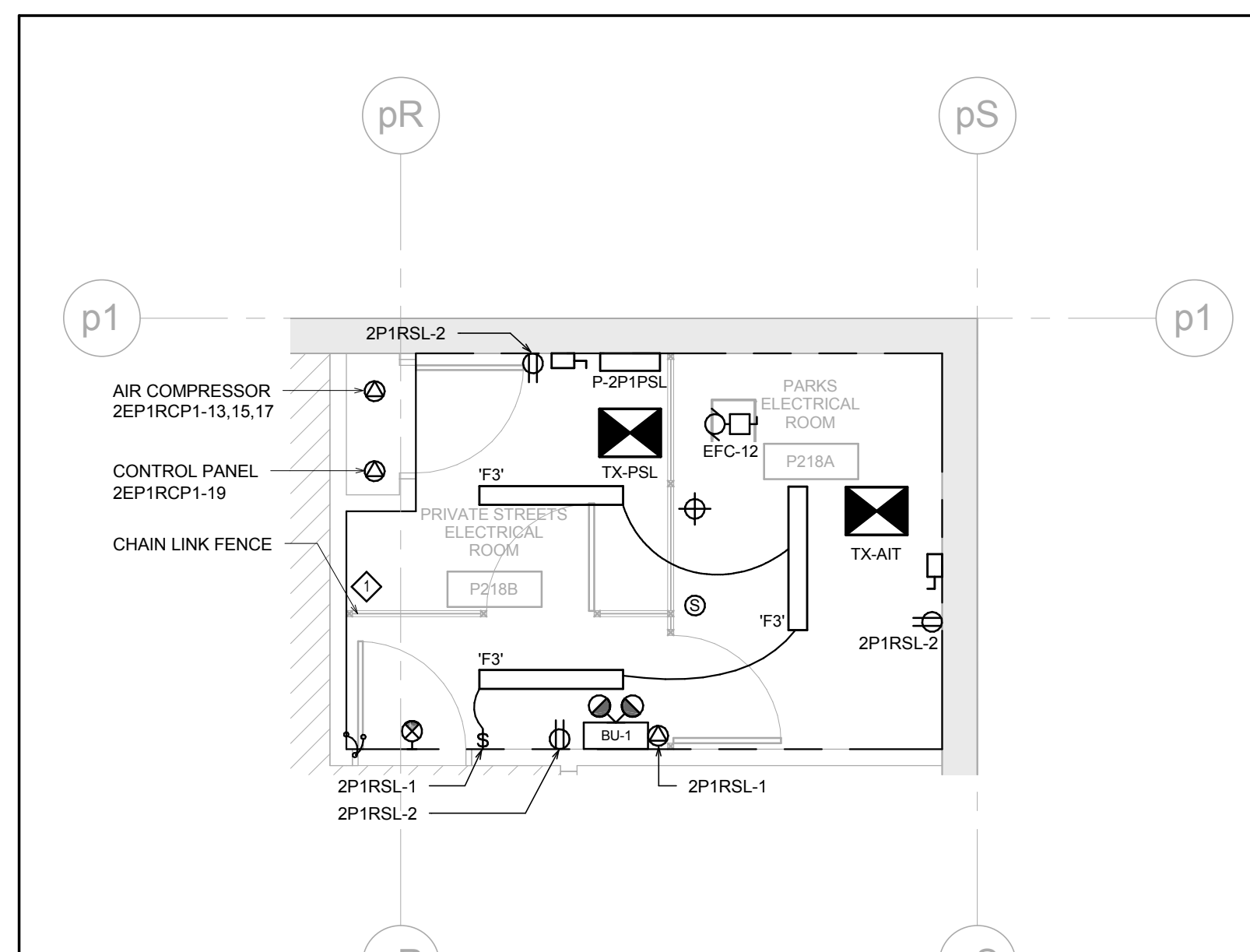
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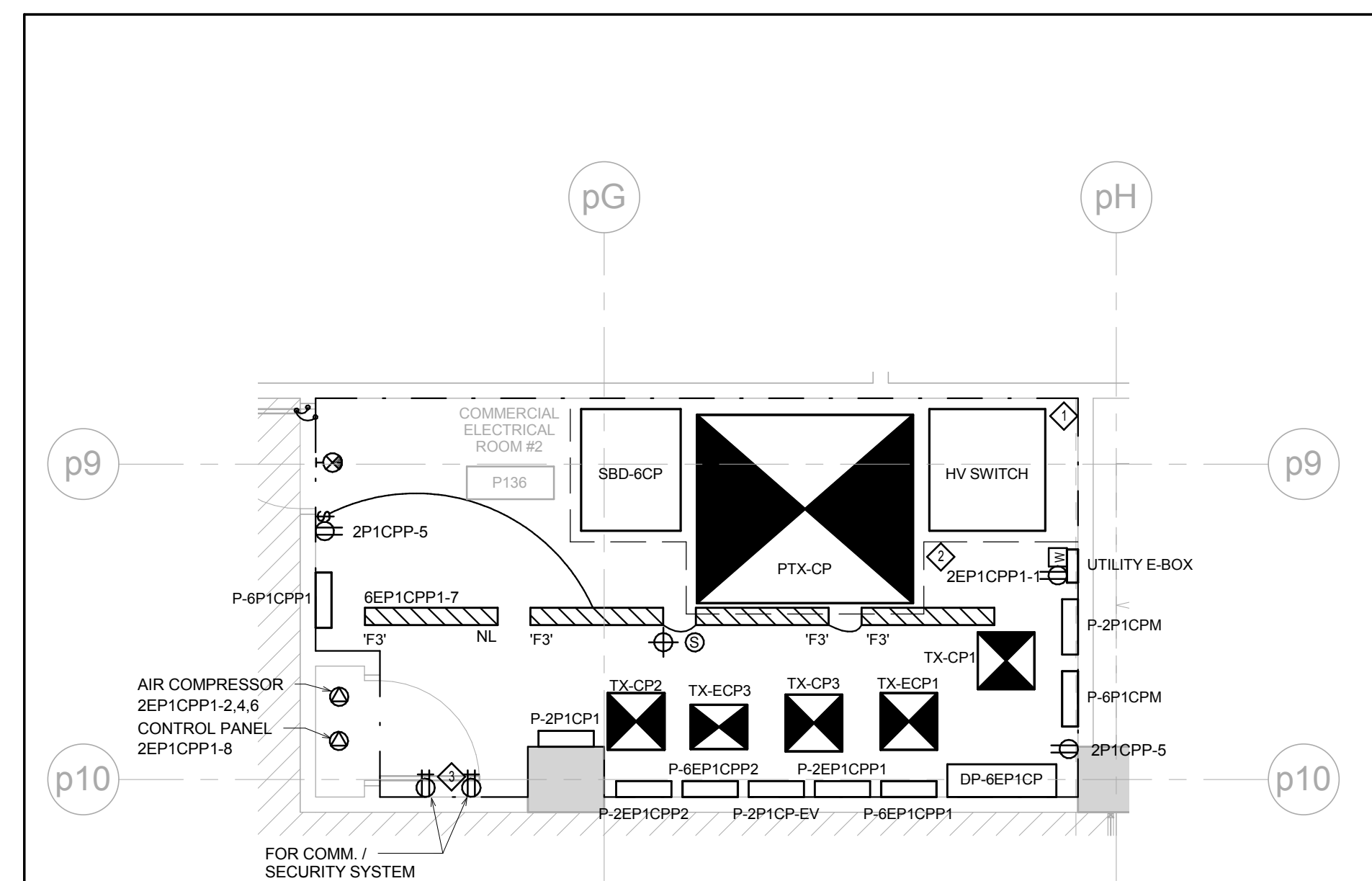
- NOTES:
- 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
 - 400V RATED 50mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.
 - RUN ONE (1) 20mm CONDUIT TO EACH OF THE FOLLOWING LOCATIONS:
 - DATA METER
 - WATER METER
 - WATER METER (BACKING)
 - LOCK FOR MAIN WATER METER
 - CASE FOR ELEVATOR PHONES
 - SECURITY ROOM
 - OWNER TO ARRANGE WITH APPROPRIATE UTILITY FOR DEDICATED PHONE LINES.

13 CCU ROOMS & BEANFIELD ENTRANCE ROOM - LEVEL P2
1:50



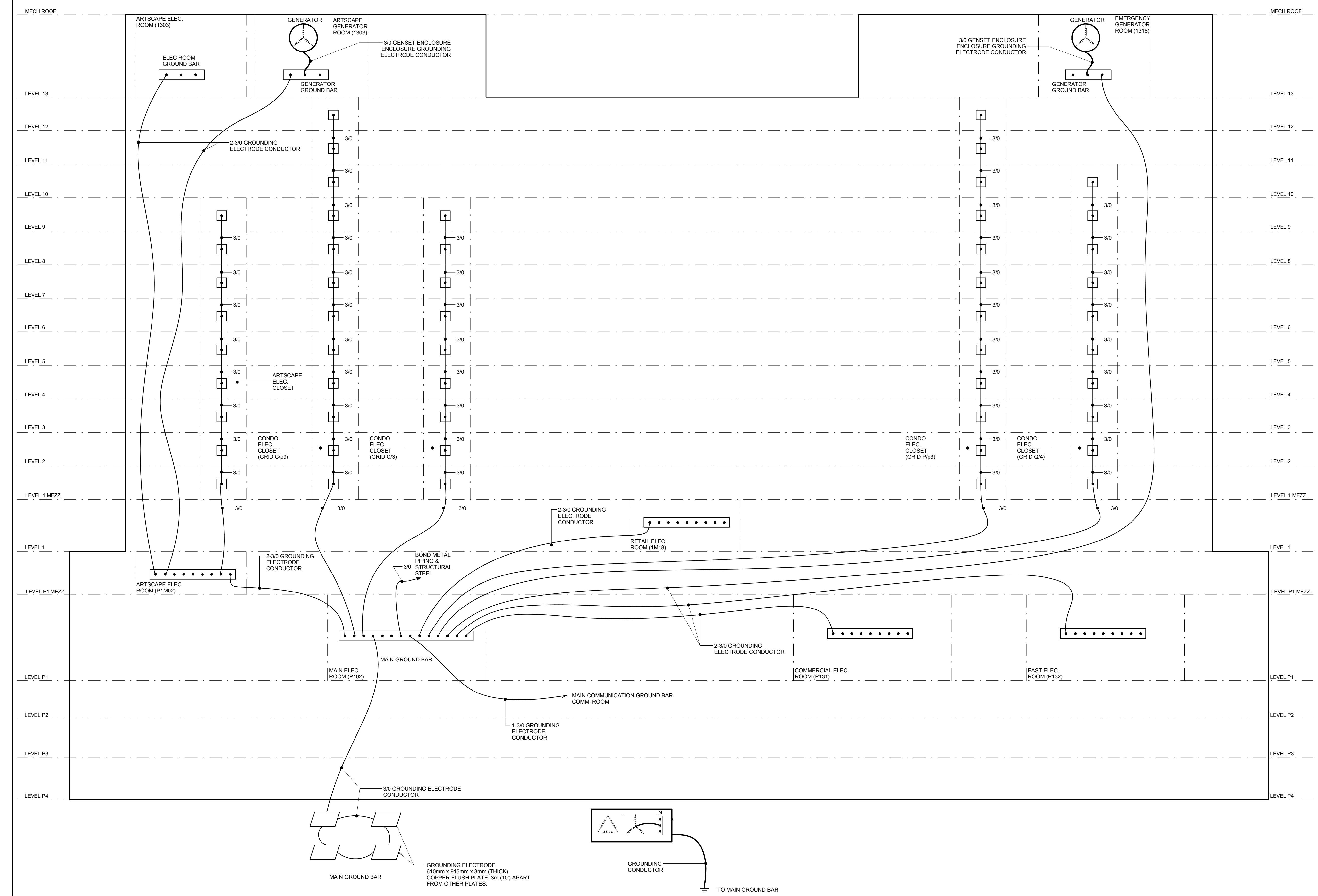
- NOTES:
- GROUND BUS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.

11 PARKS ELECTRICAL ROOM - LEVEL P2
1:50

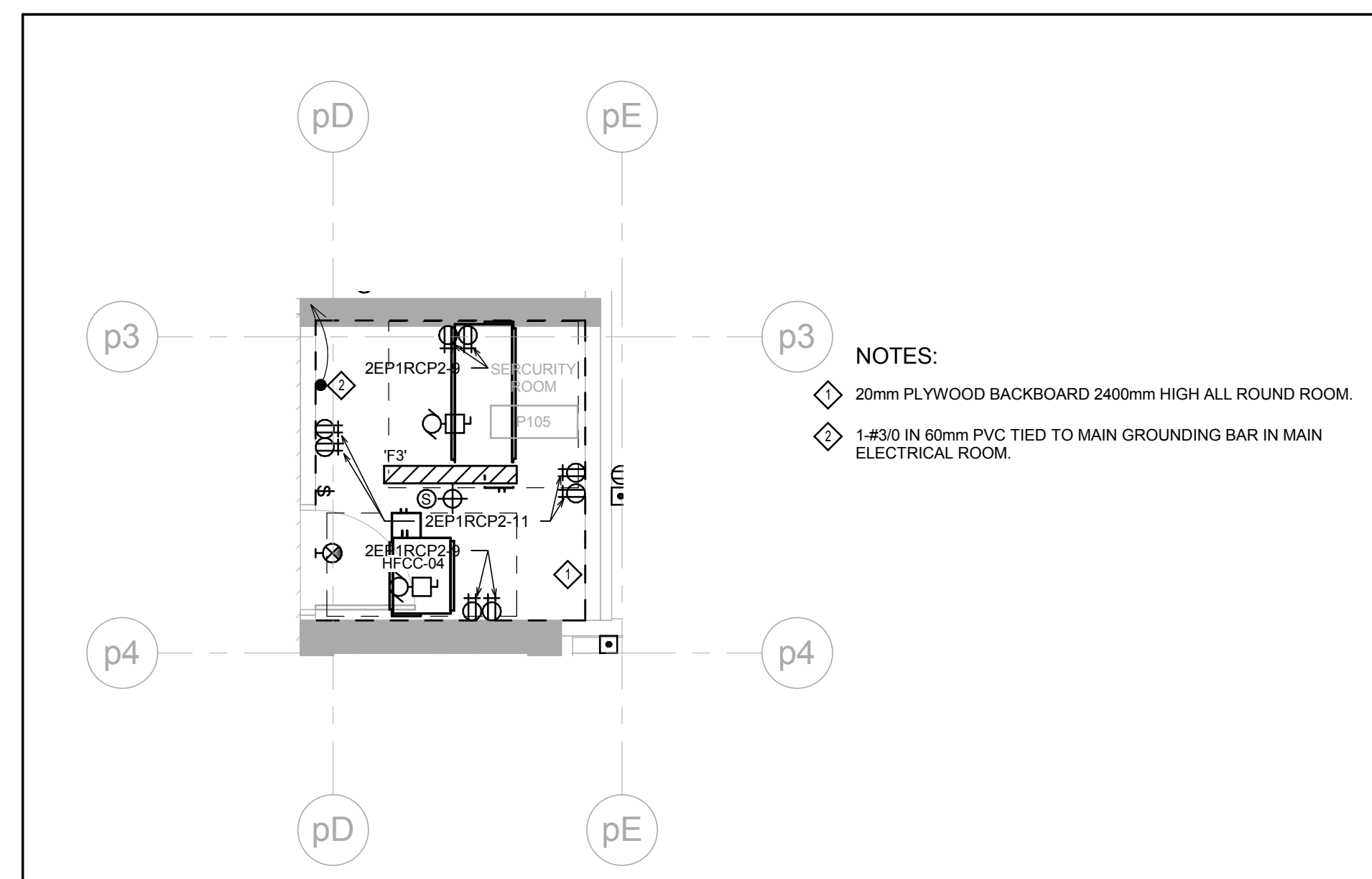


- NOTES:
- GROUND BUS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
 - PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
 - PROVIDE 1000mm X 2400mm X 19mm PLYWOOD BACKBOARD. REFER TO COMMUNICATION / SECURITY RISER FOR CONDUIT DETAIL.

10 COMMERCIAL ELECTRICAL ROOM - LEVEL P1
1:50

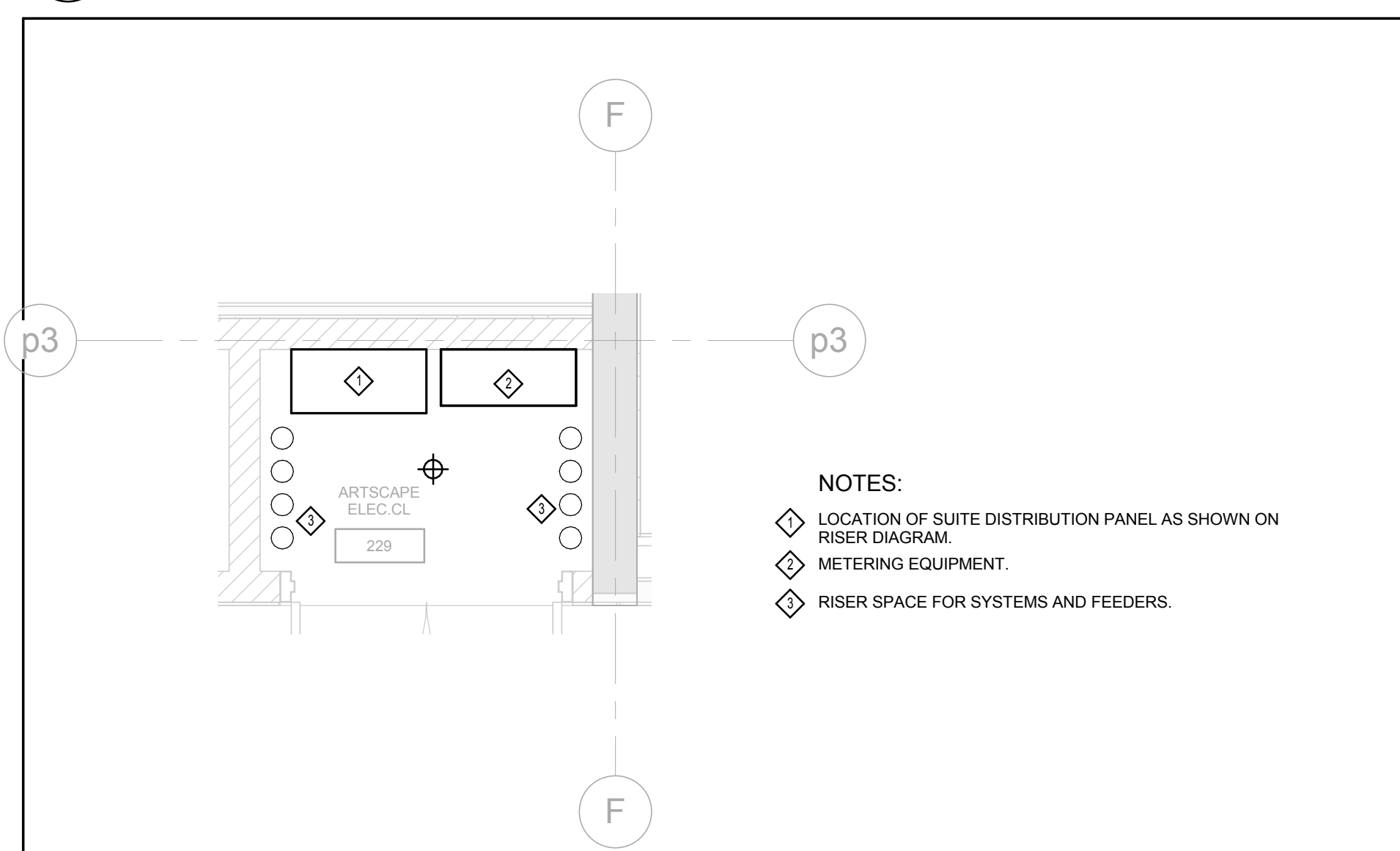


12 GROUNDING RISER DIAGRAM
N.T.S.



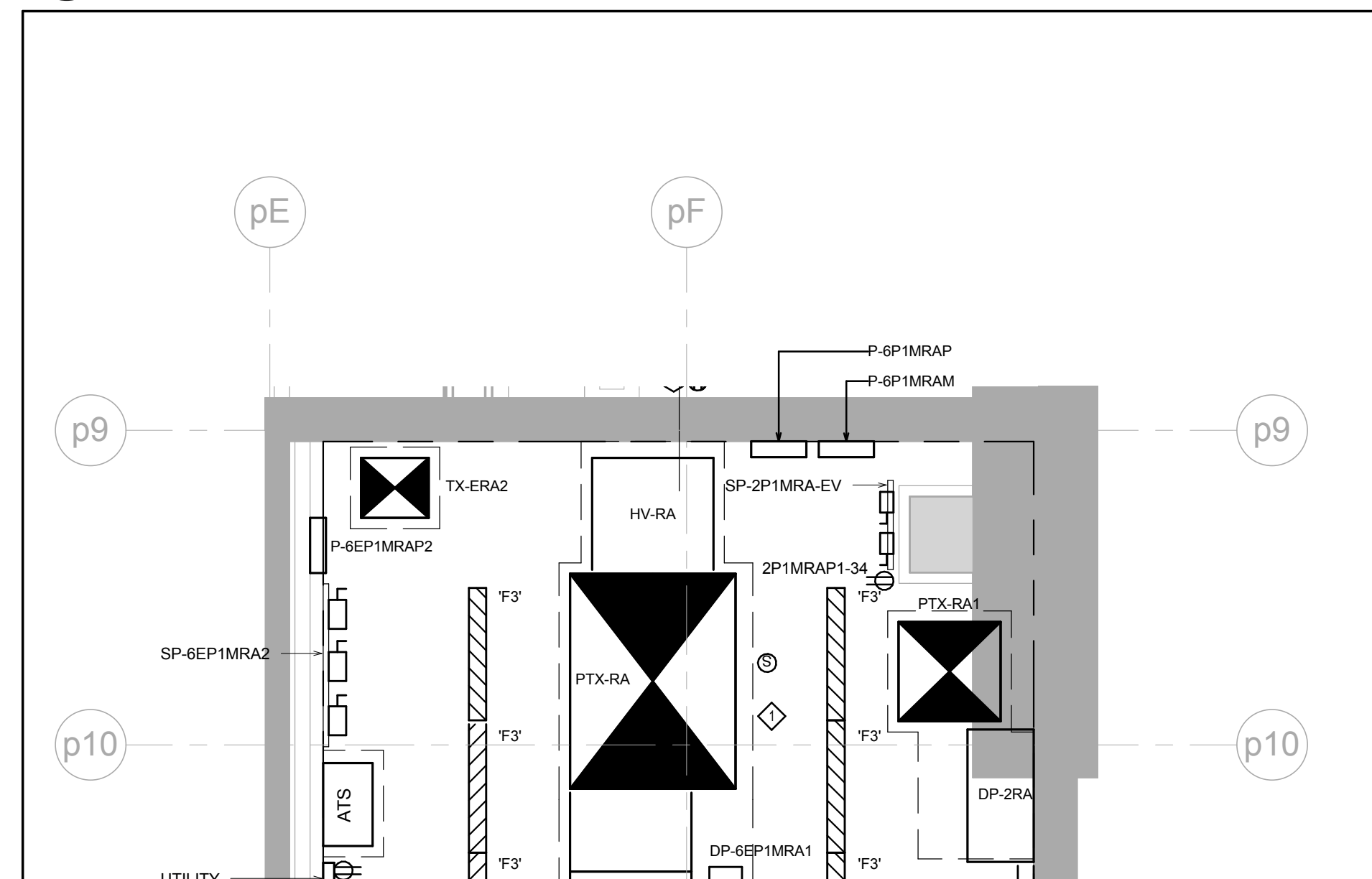
- NOTES:
- 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
 - 400V RATED 50mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.

9 SECURITY ROOM P105
1:50



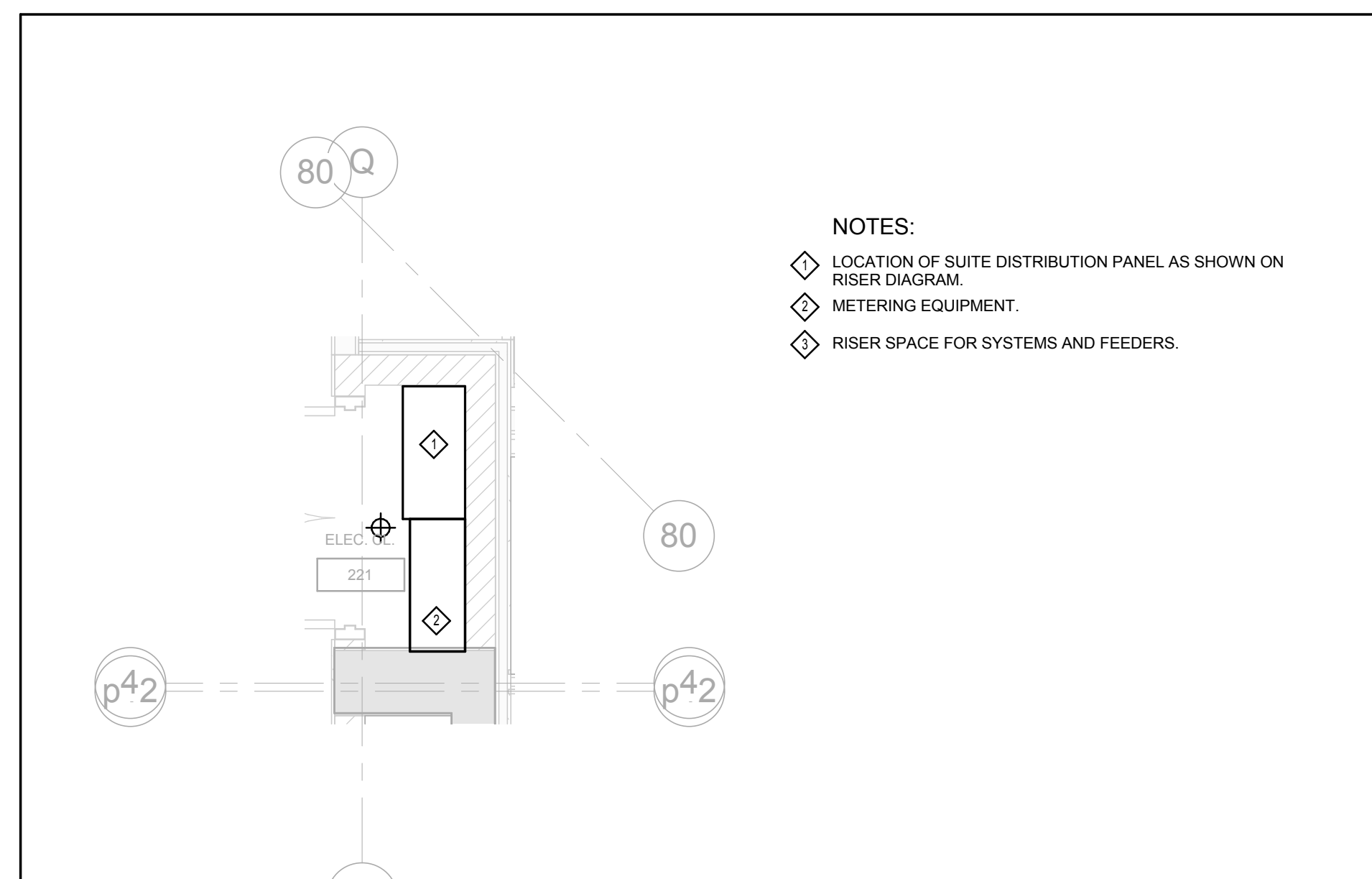
- NOTES:
- LOCATION OF SLUTE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
 - METERING EQUIPMENT.
 - RISER SPACE FOR SYSTEMS AND FEEDERS.

8 TYPICAL ELECTRICAL CLOSET - ARTSCAPE
1:25



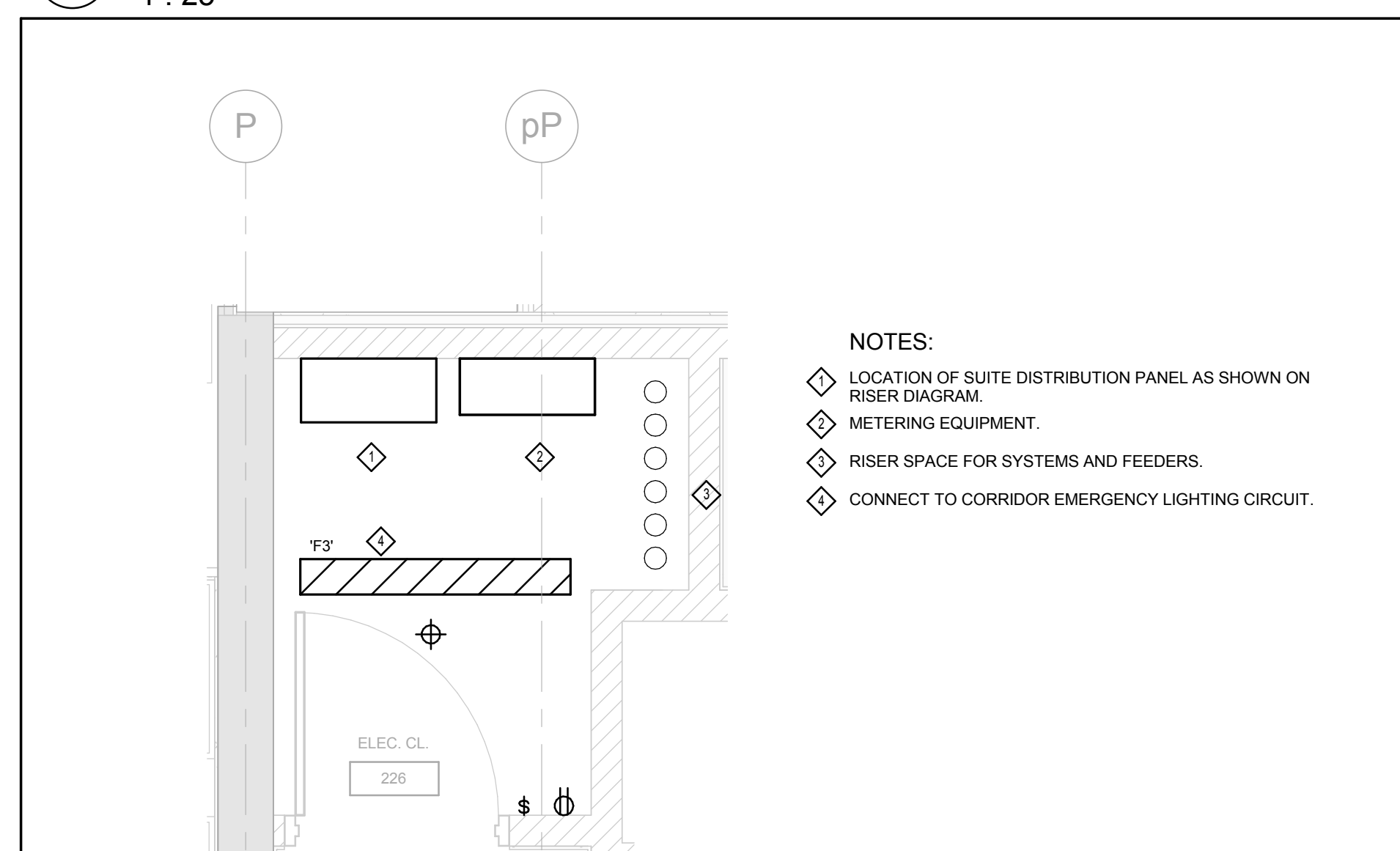
- NOTES:
- GROUND BUS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
 - PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
 - PROVIDE 1000mm X 2400mm X 19mm PLYWOOD BACKBOARD. REFER TO COMMUNICATION / SECURITY RISER FOR CONDUIT DETAIL.

7 ARTSCAPE ELECTRICAL ROOM - LEVEL P1 MEZZANINE
1:50



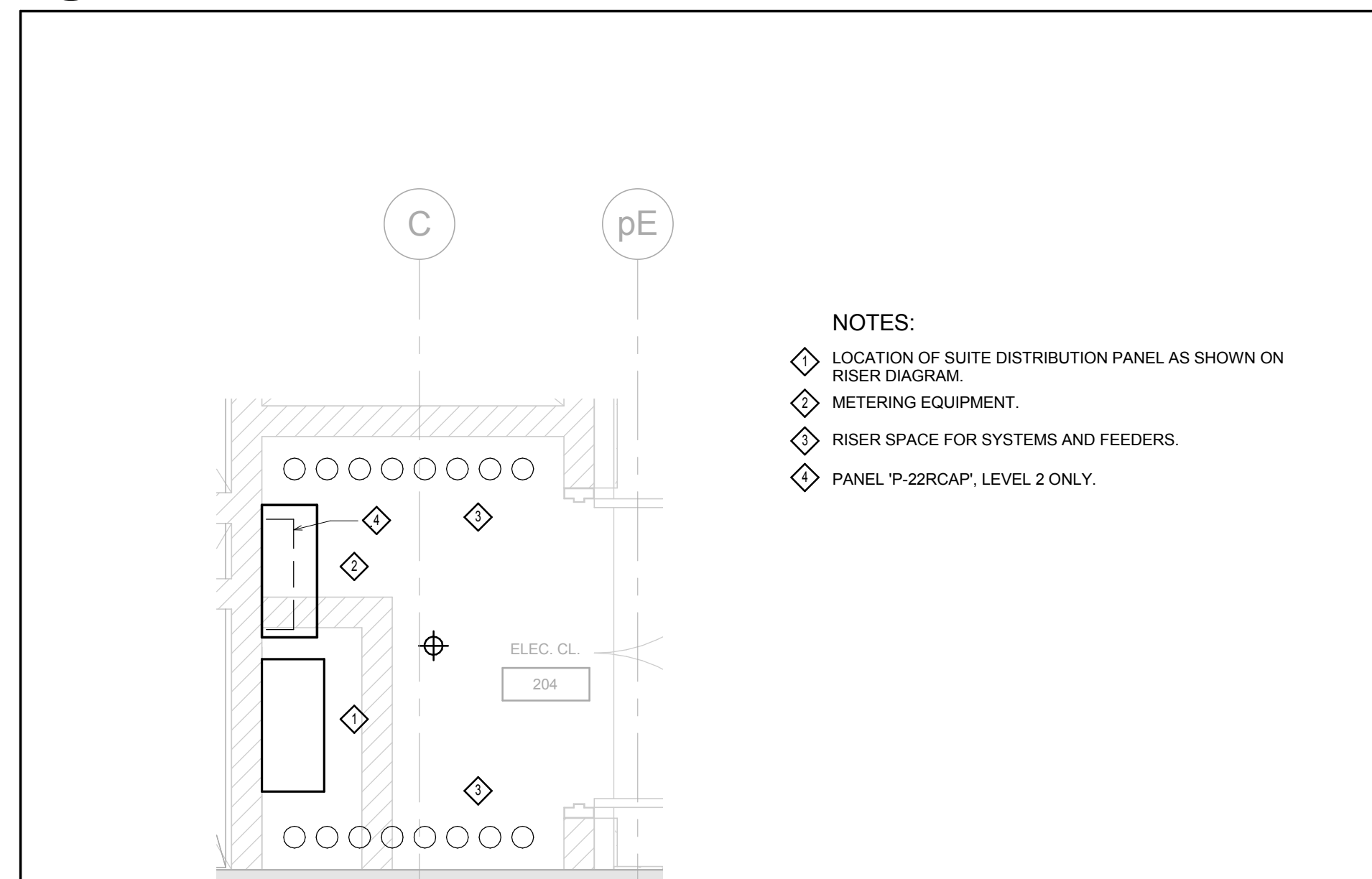
- NOTES:
- LOCATION OF SLUTE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
 - METERING EQUIPMENT.
 - RISER SPACE FOR SYSTEMS AND FEEDERS.

6 TYPICAL ELECTRICAL CLOSET - 4 - CONDO
1:25



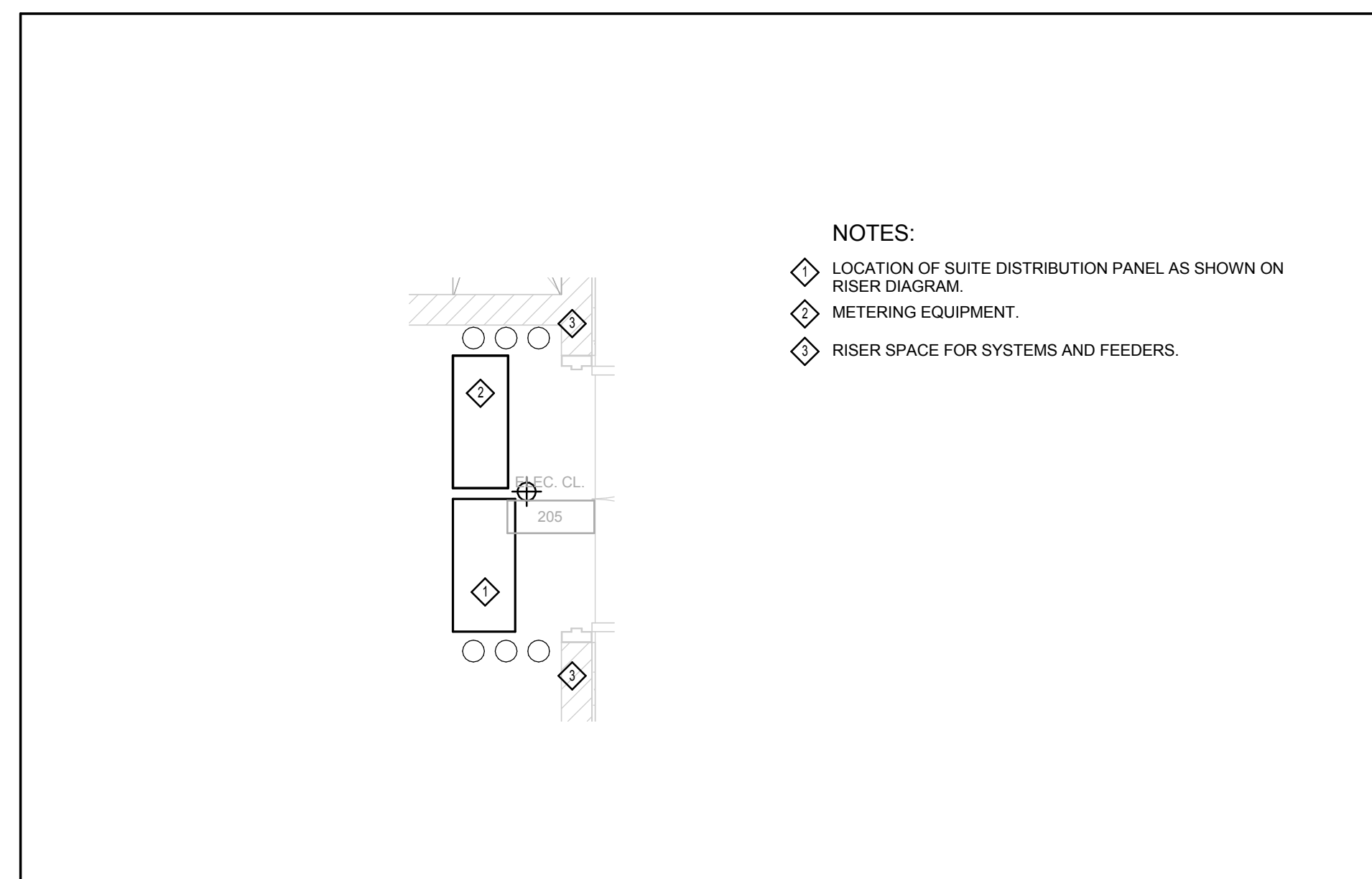
- NOTES:
- LOCATION OF SLUTE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
 - METERING EQUIPMENT.
 - RISER SPACE FOR SYSTEMS AND FEEDERS.
 - CONNECT TO CORRIDOR EMERGENCY LIGHTING CIRCUIT.

5 TYPICAL ELECTRICAL CLOSET - 3 - CONDO
1:25



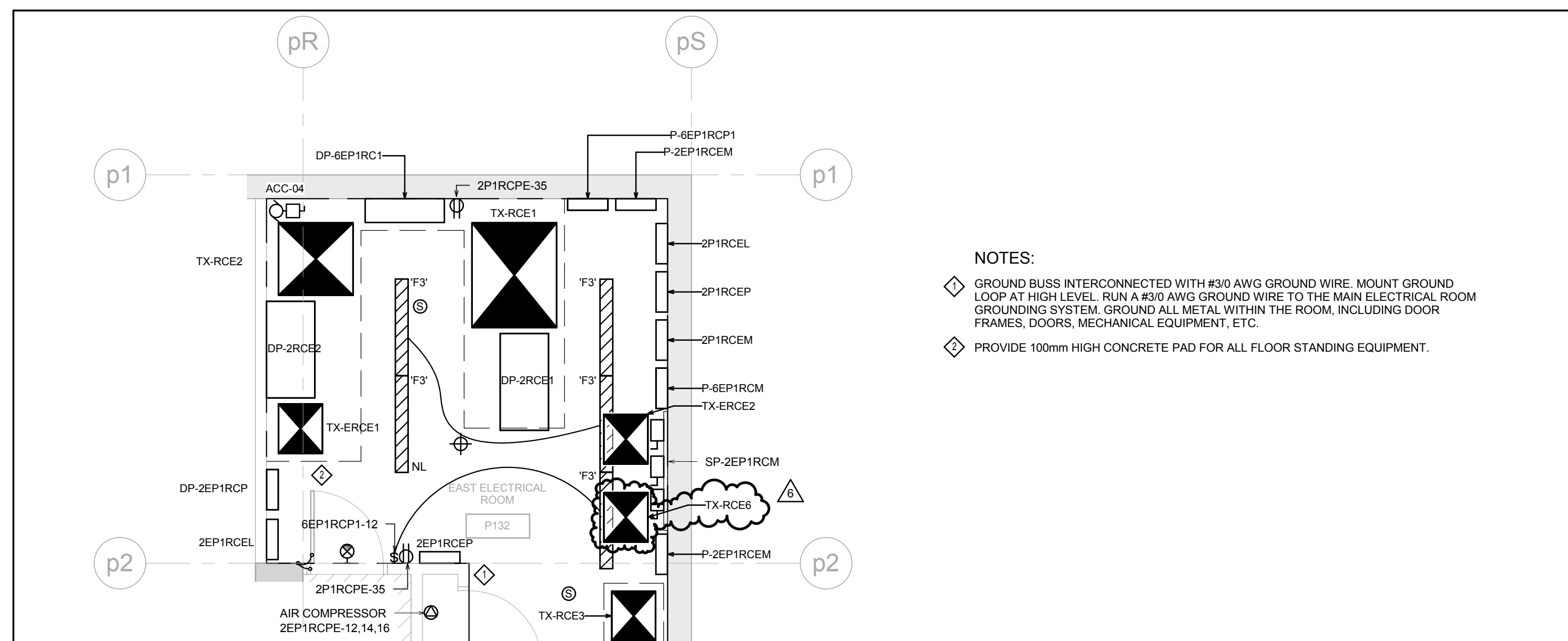
- NOTES:
- LOCATION OF SLUTE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
 - METERING EQUIPMENT.
 - RISER SPACE FOR SYSTEMS AND FEEDERS.
 - PANEL P-20RCP, LEVEL 2 ONLY.

4 TYPICAL ELECTRICAL CLOSET - 2 - CONDO
1:25



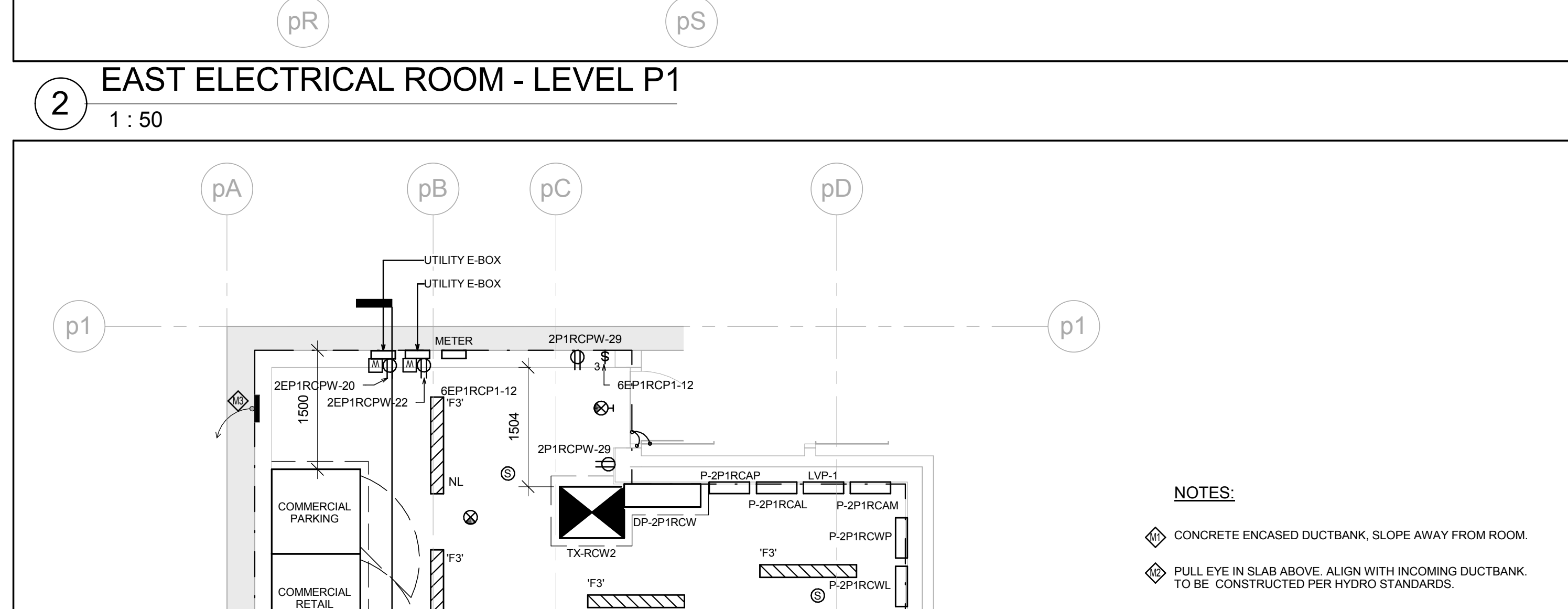
- NOTES:
- LOCATION OF SLUTE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
 - METERING EQUIPMENT.
 - RISER SPACE FOR SYSTEMS AND FEEDERS.

3 TYPICAL ELECTRICAL CLOSET - 1 - CONDO
1:25



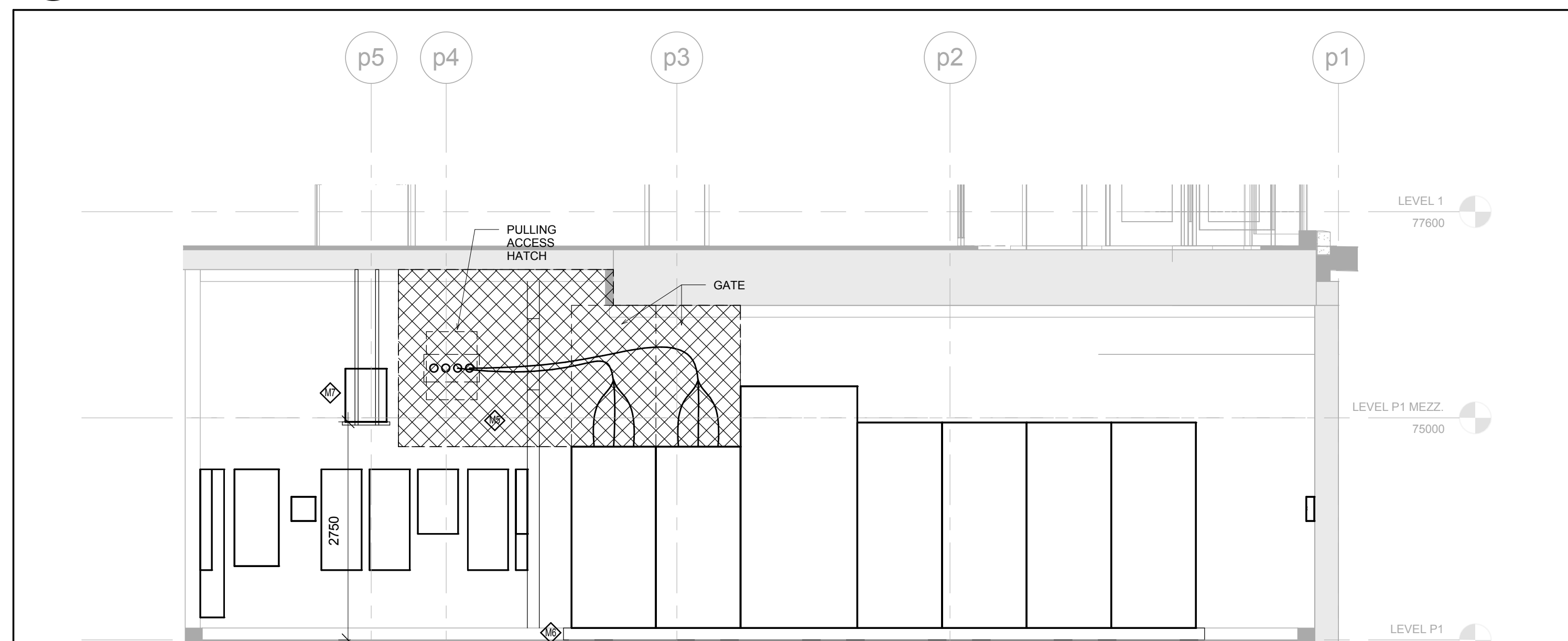
- NOTES:
- GROUND BUS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
 - PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.

2 EAST ELECTRICAL ROOM - LEVEL P1
1:50



- NOTES:
- CONCRETE ENCASED DUCTBANK, SLOPE AWAY FROM ROOM.
 - PULL EYE IN SLAB ABOVE. ALSO WITH INCOMING DUCTBANK TO BE CONSTRUCTED PER HYDRO STANDARDS.
 - GROUND WIRE FROM BELOW P1 LEVEL, SLAB GROUND GND, REFER TO DOWS E-UP AND SPECIFICATIONS FOR FURTHER DETAILS.
 - GROUND BUS INTERCONNECTED WITH #10 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #10 AWG GROUND WIRE TO THE STREET SIDE OF THE MAIN WATER SERVICE. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
 - PROVIDE GALVANIZED CHAIN LINK FENCE IN FRONT & SIDE OF INCOMING CELL TO PROTECT HYDRO WIRES. GATE BOLTED TO CEILING ON ACCESS GATE. GROUND FENCE AS REQUIRED AND TO TORONTO HYDRO STANDARDS.
 - PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
 - TRANSFORMER CEILING HUNG, 2750mm A.F.F.

1 MAIN ELECTRICAL ROOM - LEVEL P1
1:50



- NOTES:
- PROVIDE GALVANIZED CHAIN LINK FENCE IN FRONT & SIDE OF INCOMING CELL TO PROTECT HYDRO WIRES. GATE BOLTED TO CEILING ON ACCESS GATE. GROUND FENCE AS REQUIRED AND TO TORONTO HYDRO STANDARDS.
 - PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
 - TRANSFORMER CEILING HUNG, 2750mm A.F.F.

14 MAIN ELECTRICAL ROOM SECTION
1:50

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Toronto Vancouver Winnipeg Montreal Ottawa Halifax
Dagupan Kolkata Trail Salt Lake City

No.	Revision	Date
1	ISSUED FOR ADD E-002	2016/01/08
2	ISSUED FOR ADD E-001	2016/01/08
3	ISSUED FOR SE-001	2016/01/08
4	ISSUED FOR SE-003	2016/01/08
5	ISSUED FOR SE-009	2016/01/08
6	ISSUED FOR SE-008	2016/01/11

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BUILDING PERMIT RESUBMISSION 2017-04-25
ISSUED FOR CONSTRUCTION 2016-04-21
ISSUED FOR TENDER 2015-03-24

NO. PROJECT FOR DATE

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
**ELECTRICAL ROOM
DETAIL - ELECTRICAL**

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

As Indicated
Author
Checked by
Checker
8489D
08/06/15
Date

E5-01