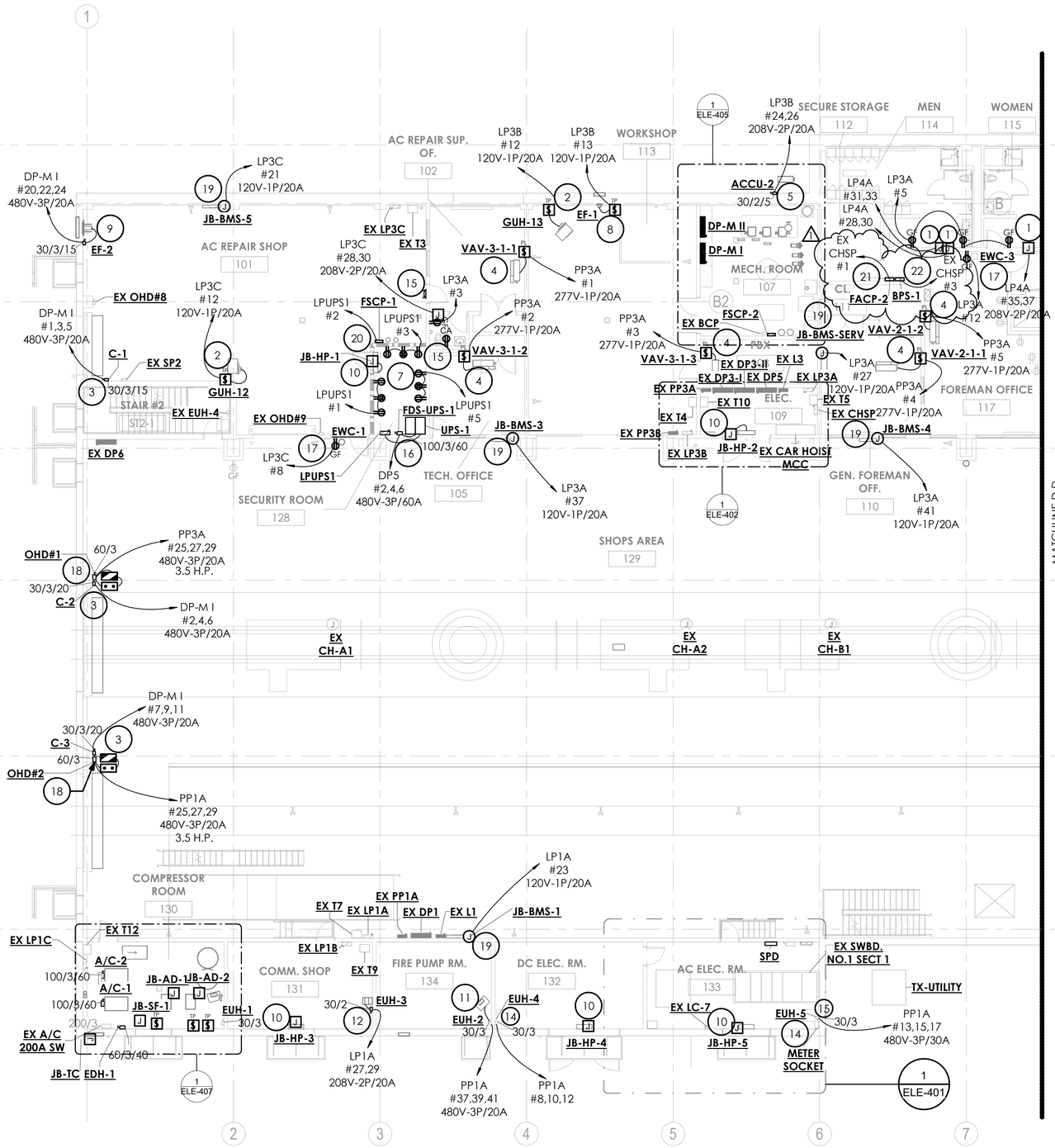
KEY NOTES:

1. POWER FOR ELECTRIC HAND DRYER. FURNISH AND INSTALL NEW HOMERUN USING 2#10 AWG + 1#10 GND IN 1"C TO 20A-1P C/B IN THE EXISTING POWER PANEL LP4A. NEW C/B TO MATCH THE EXISTING MANUFACTURER AND AIC RATING.
2. POWER FOR GAS UNIT HEATER. FURNISH AND INSTALL NEW HOMERUN USING 2#10 AWG + 1#10 GND IN 1"C TO NEW 20A-1P C/B IN THE EXISTING POWER PANEL AS SHOWN. NEW C/B TO MATCH THE EXISTING MANUFACTURER AND AIC RATING.
3. POWER FOR AIR CURTAIN. FURNISH AND INSTALL NEW WIRES USING 3#8 AWG + 1#10 GND IN 1"C FROM NEW DISCONNECT SWITCH TO NEW AIR CURTAIN AND NEW CEILING MOUNTED PULL BOX/CABLE TROUGH TO NEW DP-M I.
4. POWER FOR VAV BOX. FURNISH AND INSTALL NEW HOMERUN USING 2#10 AWG + 1#10 GND IN 1"C TO 20A-1P C/B IN THE EXISTING POWER PANEL PP3A. NEW C/B TO MATCH THE EXISTING MANUFACTURER AND AIC RATING.
5. POWER FOR SPLIT SYSTEM ACCU. FURNISH AND INSTALL NEW HOMERUN USING 2#10 AWG + 1#10 GND IN 1"C TO 20A-1P C/B IN THE EXISTING POWER PANEL AS SHOWN. NEW C/B TO MATCH THE EXISTING MANUFACTURER AND AIC RATING. COORDINATE POWER RUN FROM ACCU TO SPLIT-SYSTEM HEAT PUMP IN THE FIELD. COORDINATE DISCONNECT SWITCH MOUNTING LOCATION IN THE FIELD.
6. POWER FOR AIR COMPRESSOR. FURNISH AND INSTALL NEW WIRES USING 3#6 AWG + 1#8 GND IN 1"C FROM EXISTING 200A DISCONNECT TO NEW 100AF/60A FUSED DISCONNECT.
7. POWER FOR RECEPTACLES. FURNISH AND INSTALL NEW WIRES USING 2#10 AWG + 1#10GND IN 3/4"C FROM LPUPS1 PANEL.
8. POWER FOR EXHAUST FAN, EF-1. FURNISH AND INSTALL NEW HOMERUN USING 2#10 AWG + 1#10 GND IN 1"C FROM THE EXISTING POWER PANEL, LP3B TO NEW DISCONNECT SWITCH TO NEW EF-1.
9. POWER FOR EXHAUST FAN, EF-2. FURNISH AND INSTALL NEW HOMERUN USING 3#10 AWG + 1#10 GND IN 1"C TO THE NEW DISTRIBUTION POWER PANEL, DP-M I.
10. COORDINATE POWER RUN TO HEAT PUMP (HP) FROM ASSOCIATED ACCU IN THE FIELD.
11. POWER FOR ELECTRIC UNIT HEATER. FURNISH AND INSTALL NEW WIRES USING 3#10 AWG + 1#10 GND IN 1"C FROM THE EXISTING DISCONNECT SWITCH TO NEW ELECTRIC UNIT HEATER. RELOCATE EUH-2 BRANCH CIRCUIT FROM PP1A #14,16,18 TO PP1A #37,39,41.
12. POWER FOR ELECTRIC UNIT HEATER, EUH-3. FURNISH AND INSTALL NEW HOMERUN USING 2#10 AWG + 1#10 GND IN 1"C FROM THE EXISTING POWER PANEL, LP1A.
13. EXISTING EUH-2 SHALL REMAIN IN PLACE. RE-LABEL AS EHU-4.
14. EXISTING EUH-3 SHALL REMAIN IN PLACE. RE-LABEL AS EHU-5.
15. POWER FOR CALL FOR AID SYSTEM. FURNISH AND INSTALL CALL FOR AID SYSTEM PER MANUFACTURER DIRECTION. CALL FOR AID SYSTEM IS SHOWN AS MANUFACTURED BY CORNELL COMMUNICATION, INC, MODEL NUMBER KE-114 OR APPROVED EQUAL.
16. POWER FOR UPS. FURNISH AND INSTALL NEW WIRES USING 3#1 AWG + 1#6 GND IN 1-1/2"C FROM THE EXISTING DISTRIBUTION POWER PANEL, DP5. UPS IS AS SHOWN AS MANUFACTURED BY EATON, MODEL NUMBER PW9355-30, BATTERY CABINET MODEL NUMBER EBC 36 AND MAINTENANCE BYPASS SWITCH WITH TRANSFORMER OR APPROVED EQUAL.
17. REPLACE EXISTING ELECTRIC WATER COOLER RECEPTACLE WITH GFCI RECEPTACLE. COORDINATE WITH PLUMBING DRAWINGS FOR EXACT LOCATION OF ELECTRIC WATER COOLER.
18. POWER FOR OVERHEAD DOOR, OHD#1 AND OHD#2. FURNISH AND INSTALL NEW HOMERUN USING 3#10 AWG + 1#10 GND IN EXISTING CONDUITS TO EXISTING 20A-3P C/B IN THE EXISTING POWER PANEL PP3A FOR OHD#1 AND PP1A FOR OHD#2. COORDINATE OVERHEAD DOOR OPENER, PUSH BUTTONS AND SENSORS INSTALLATION WITH OVERHEAD DOOR MANUFACTURER.
19. POWER FOR BMS SUB PANEL OR SERVER. FURNISH AND INSTALL NEW WIRES USING 2#12 AWG + 1#12 GND IN 3/4"C FROM THE EXISTING POWER PANEL AS SHOWN. COORDINATE WITH MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF EACH BMS SUB PANEL OR SERVER. THE CONTRACTOR SHALL SIZE EACH BMS SUB PANEL OR SERVER BRANCH CIRCUIT BREAKER PER BMS MANUFACTURER AND REVISE BRANCH CB SIZE IN APPROPRIATE POWER PANEL WITHOUT ADDITIONAL COST TO THE STATE.
20. POWER FOR CLEAN AGENT MONITORING PANEL. FURNISH AND INSTALL NEW WIRES USING 2#12 AWG + 1#12 GND IN 3/4"C FROM THE POWER PANELS AS SHOWN. COORDINATE WITH FIRE SUPPRESSION SYSTEM DRAWINGS FOR THE EXACT LOCATION OF EACH CLEAN AGENT MONITORING PANEL.



1 GROUND FLOOR POWER PLAN - PART A
SCALE: 3/32" = 1'-0"

0 8' - 0" 16' - 0" 32' - 0"
SCALE:0' - 0 3/32" = 1' - 0"

21. POWER FOR FACP-2. FURNISH AND INSTALL NEW WIRES USING 2#10 AWG + 1#10 GND IN 1"C FROM THE EXISTING CAR HOIST SUBPANEL, CHSP, AS SHOWN. COORDINATE WITH FIRE ALARM SUBSET FOR THE EXACT LOCATION OF FACP-2.
22. POWER FOR BPS-1. FURNISH AND INSTALL NEW WIRES USING 2#10 AWG + 1#10 GND IN 1"C FROM THE EXISTING CAR HOIST SUBPANEL, CHSP, AS SHOWN. COORDINATE WITH FIRE ALARM SUBSET FOR THE EXACT LOCATION OF BPS-1.

Designed by:
Garg Consulting Services, INC.
2096A Silas Deane Highway,
Rocky Hill, CT 06067

STATE OF CONNECTICUT ASHISH H. PATEL 28381 REGISTERED PROFESSIONAL ENGINEER
Ashish Patel
2025.03.18 14:13:12-04'00'

GENERAL NOTES:

1. SEE DWG. ELE-001 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DWG. ELE-002 FOR ELECTRICAL GENERAL NOTES.
3. SEE DWG. ELE-003 FOR ELECTRICAL POWER SCHEDULE.
4. THE CONTRACTOR SHALL COORDINATE FINAL EQUIPMENT CONNECTION FROM DISCONNECT SWITCH IN THE FIELD.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL HEAVY DUTY FUSED DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENTS. FUSE SIZES SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT SCHEDULE AND MECHANICAL EQUIPMENT SUPPLIER.
6. THE CONTRACTOR SHALL MAKE BONDING CONNECTION FROM EACH WIND SCREEN STEEL TO THE MOE FACILITY'S BUILDING STEEL USING #4/0 AWG BARE CU CONDUCTOR.

REV.	DATE	REVISION DESCRIPTION
1	3/14/25	FIRE ALARM CIRCUIT ADDITION

ADDENDUM NO. 3

DESIGNER/DRAFTER T. LUY CHECKED BY: A. PATEL, P.E.

SCALE AS NOTED

SIGNATURE/ BLOCK:

GARG CONSULTING SERVICES, INC.
2096A Silas Deane Highway
Rocky Hill, CT 06067
Tel: (860) 563-0582

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0301-0509
PROJECT DESCRIPTION: IMPROVEMENTS TO THE STAMFORD MAINTENANCE OF EQUIPMENT (MOE) FACILITY
TOWN(S): STAMFORD, CT
DRAWING TITLE: GROUND FLOOR POWER PLAN - PART A

DRAWING NO. **ELE-211**
SHEET NO. 14.026.A3

PLOTTED DATE: 3/18/2025 1:53:41 PM

SWITCHBOARD: EX CAR HOIST MCC

LOCATION:	ELEC. 109	**VOLTS:**	480Y/277VAC, 3Φ, 4W	**MAINS TYPE:**	MCB
SUPPLY FROM:	EX SWBD NO. 1 SECT 3	**A.I.C. RATING:**	42 kA	**MAINS RATING:**	600 A
MOUNTING:	FLOOR	**NEUTRAL BUS:**	600 A	**MAINS AT:**	600 A
ENCLOSURE:	NEMA 12	**GROUND BUS:**	COPPER	**FEEDER:**	2 SETS OF EACH: 3#250 KCMIL + 1#3 GND IN 3"C

CKT	CIRCUIT DESCRIPTION	POLES	FRAME SIZE	TRIP RATING	LOAD	REMARKS
1	CAR HOIST A1 MOTORS SHOPS AREA (129)	3	400 A	100 A	33.25 kVA	*, **
2	CAR HOIST A2 MOTORS SHOPS AREA (129)	3	400 A	100 A	33.25 kVA	*, **
3	CAR HOIST B1 MOTORS SHOPS AREA (129)	3	400 A	100 A	33.25 kVA	*, **
4	CAR HOIST B2 MOTORS SHOPS AREA (129)	3	400 A	100 A	33.25 kVA	*, **
5	CAR HOIST C1 MOTORS SHOPS AREA (129)	3	400 A	100 A	33.25 kVA	*, **
6	CAR HOIST C2 MOTORS SHOPS AREA (129)	3	400 A	100 A	33.25 kVA	*, **
				TOTAL LOAD:	199.52 kVA	
				TOTAL AMPS:	240 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONNECTED LOAD:**	199.52 kVA
POWER	0 VA	0.00%	0 VA	**TOTAL ESTIMATED DEMAND:**	207.84 kVA
HVAC	0 VA	0.00%	0 VA	**TOTAL CONNECTED CURRENT:**	240 A
HEATING	0 VA	0.00%	0 VA	**TOTAL ESTEMATED CURRENT:**	250 A
MOTORS	199524 VA	104.17%	207838 VA		
ELEVATOR	0 VA	0.00%	0 VA		
EQUIPMENT	0 VA	0.00%	0 VA		
Spare	0 VA	0.00%	0 VA		

NOTES:
1. *: EXISTING FEEDER CIRCUIT REMAIN IN PLACE.
2. **: ASSUMPTION: EXISTING BRANCH CIRCUIT LOADS ARE SIZED PER ORIGINAL AS-BUILT DRAWINGS.

PANEL: EX CHSP (EXISTING CAR HOIST SUBPANEL)

LOCATION:	ELEC. 109	**VOLTS:**	208Y/120VAC, 3Φ, 4W	**MAINS TYPE:**	MLO
SUPPLY FROM:	LP3A	**A.I.C. RATING:**	30 kA	**MAINS AF:**	125 A
MOUNTING:	SURFACE	**NEUTRAL BUS:**	125 A	**MAINS AT:**	N/A
ENCLOSURE:	NEMA 1	**GROUND BUS:**	COPPER	**FEEDER:**	4#6 AWG + 1#10 GND IN 1"C

CKT	NOTE	CIRCUIT DISCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DISCRIPTION	NOTE	CKT
1	*****	FACP-2, FOREMAN OFFICE (117)	20 A	1	0.4 kVA			1.44 kVA			1	20 A	REC, TRACK #42	***	2
3	*****	BPS-1, FOREMAN OFFICE (117)	20 A	1		0.744 kVA			0 kVA		1	20 A	SPARE	***	4
5	***	SPARE	20 A	1			0 kVA			0 kVA	1	20 A	SPARE	***	6
7	***	REC, A1-A2 (CH) TRACK LIGHTS	20 A	1	1.44 kVA			0 kVA			1	20 A	SPARE	***	8
9	***	REC, B1-B2 (CH) TRACK LIGHTS	20 A	1		1.44 kVA			0 kVA		1	20 A	SPARE	***	10
11	***	REC, C1-C2 (CH) TRACK LIGHTS	20 A	1			1.44 kVA			--	1	--	SPACE		12
					TOTAL LOAD:		3280 VA	2184 VA		1440 VA					
					TOTAL AMPS:		28 A	19 A		12 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONNECTED LOAD:**	6.9 kVA
POWER	1144 VA	100.00%	1144 VA	**TOTAL ESTIMATED DEMAND:**	6904 VA
HVAC	0 VA	0.00%	0 VA	**TOTAL CONNECTED CURRENT:**	19 A
HEATING	0 VA	0.00%	0 VA	**TOTAL ESTIMATED CURRENT:**	19 A
MOTORS	0 VA	0.00%	0 VA		
ELEVATOR	0 VA	0.00%	0 VA		
EQUIPMENT	0 VA	0.00%	0 VA		
Spare	5760 VA	100.00%	5760 VA		

NOTES:
1. PROVIDE NEW TYPED CIRCUIT DIRECTORY.
2. *: EXISTING BRANCH CIRCUIT REMAIN IN PLACE.
3. **: ASSUMPTION: EXISTING BRANCH CIRCUIT LOADS ARE SIZED AT 60% OCPC.
4. ***: VERIFY BRANCH CIRCUIT IN THE FIELD. IF NOT USED, THEN LABEL CIRCUIT AS SPARE AND REMOVE WIRES AND CONDUIT TO SOURCE.
5. ***: LOAD CLASSIFICATION CALLED AS "SPARE" IS NOT ACTUAL SPARE CAPACITY IN THE PANELBOARD. IT REPRESENTS THE EXISTING CONNECTED LOAD IN THE PANELBOARD.
6. *****: INSTALL CLAMP ON CIRCUIT BREAKER LOCKOUT DEVICE.

REV.	DATE	REVISION DESCRIPTION
1	3/14/25	FIRE ALARM CIRCUIT ADDITION

ADDENDUM NO. 3

DESIGNER/DRAFTER T. LUY CHECKED BY: A. PATEL, P.E.

SCALE AS NOTED

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PROJECT DESCRIPTION: IMPROVEMENTS TO THE STAMFORD MAINTENANCE OF EQUIPMENT (MOE) FACILITY
TOWN(S): STAMFORD, CT
DRAWING TITLE: ELECTRICAL PANEL SCHEDULES 11 OF 11

DRAWING NO. **ELE-613**
SHEET NO. 14.062.A3

PLOTTED DATE: 3/18/2025 1:53:41 PM