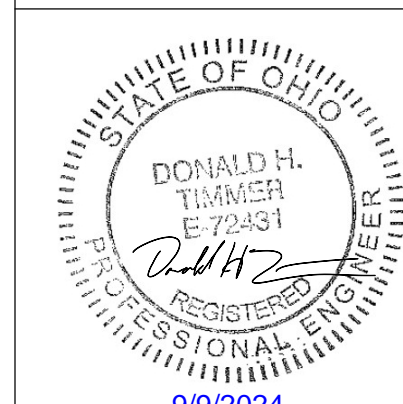


HAMILTON COUNTY
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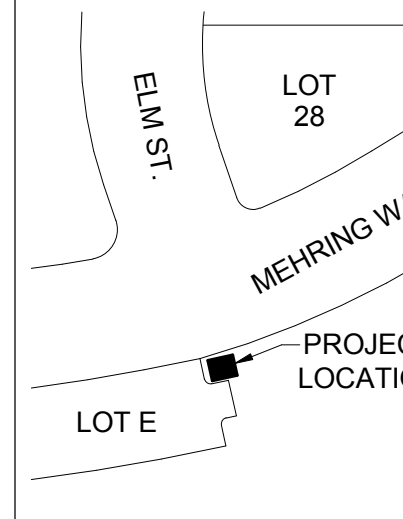
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ISSUE REVISIONS

NO.	DATE	DESCRIPTION
1	09/11/2024	BD SET



PROJECT ARCHITECT: JT
PROJECT MANAGER: CR
PRINCIPAL: DT
CHECKED BY: DT



CBMWoF
GUARD BOOTH

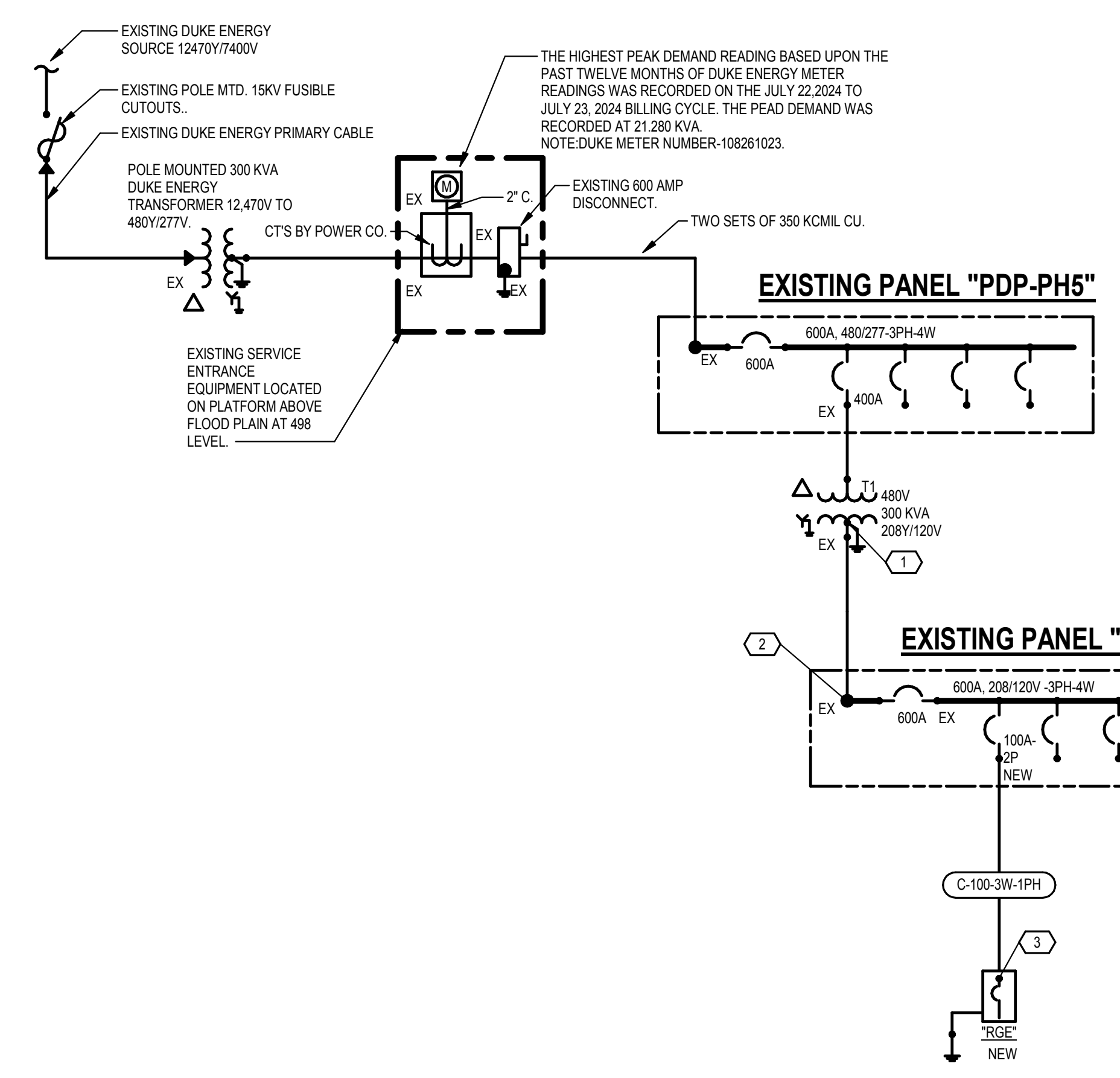
SINGLE-LINE AND
PANELBOARD SCHEDULE

JOB NUMBER: 98090.41
DATE: 09/11/2024
DRAWING NUMBER: 98090.41

E002

ELECTRICAL SINGLE-LINE LEGEND

	CONDUIT & WIRE
	CONDUIT & WIRE TO BE REMOVED
	EXISTING CONDUIT & WIRE TO REMAIN
	INTEGRATED EQUIPMENT ENCLOSURE
	SWITCHBOARD ENCLOSURE
	RUSSING
	FAULT CURRENT REFERENCE POINT
	FEEDER WIRE SIZE SYMBOL
	SPECIAL CONFIGURATION: 2P-TWO POLE NO NEUTRAL, S-SECONDARY, SE-SERVICE ENTRANCE, V-VOLTAGE DROP
	# OF PHASES
	# OF CONDUCTORS
	FEEDER AMPERAGE
	MATERIAL: A-ALUMINUM, C-COPPER
	AUTOMATIC TRANSFER SWITCH
	AUTOMATIC TRANSFER SWITCH - BYPASS
	BUS DUCT
	REMOVABLE BUS LINK
	BUS LINK
	CIRCUIT BREAKER - MEDIUM VOLTAGE DRAWOUT
	DELTA SYMBOL
	DISCONNECT
	DRAWOUT CONNECTION
	ELECTRIC METER
	EQUIPMENT AMMETER
	EQUIPMENT CAPACITOR
	EQUIPMENT CONTACTOR
	EQUIPMENT CURRENT TRANSFORMER
	EQUIPMENT GROUND
	EQUIPMENT LIGHTNING ARRESTOR
	EQUIPMENT MULTIMETER
	EQUIPMENT POTENTIAL TRANSFORMER
	EQUIPMENT SWITCHBOARD METER
	EQUIPMENT VOLTMETER
	EQUIPMENT WYE SIDE OF TRANSFORMER WITH GROUND
	FUSED CUTOFF
	FUSED SWITCH - PRIMARY
	FUSED SWITCH - SECONDARY
	GROUND FAULT PROTECTOR
	KEYED INTERLOCK
	MOTOR
	MOTOR STARTER
	MOTOR STARTER AND DISCONNECT
	PANELBOARD - MAIN LUG ONLY
	PANELBOARD - DOUBLE SET OF LUGS
	PANELBOARD - MAIN BREAKER
	PANELBOARD BREAKER
	SHORT CIRCUIT FAULT LOCATION
	SINGLE POLE SWITCH
	SURGE PROTECTIVE DEVICE
	TAP SWITCH WITH GROUND POSITION
	TRANSFORMER
	UNINTERRUPTIBLE POWER SYSTEM
	VARIABLE FREQUENCY DRIVE
	VOLTAGE TERMINATION - PRIMARY
	VOLTAGE TERMINATION - SECONDARY



1 ELECTRICAL SINGLE-LINE

SCALE: NONE

FEEDER WIRE SIZES

FEEDER TAG	# OF SETS	# OF CONDUCTORS	CONDUCTOR SIZE	GROUND SIZE	CONDUIT SIZE
C-100-3W-1PH	1	3	1	8	2"

FAULT CURRENT SCHEDULE

REF POINT	DESCRIPTION	EQUIP. RATING	AVAILABLE SHORT CIRCUIT AMPS
1	T1 SECONDARY	EXISTING	20,843
2	PP8A	EXISTING	19,366
3	RGE	10,000	3,991

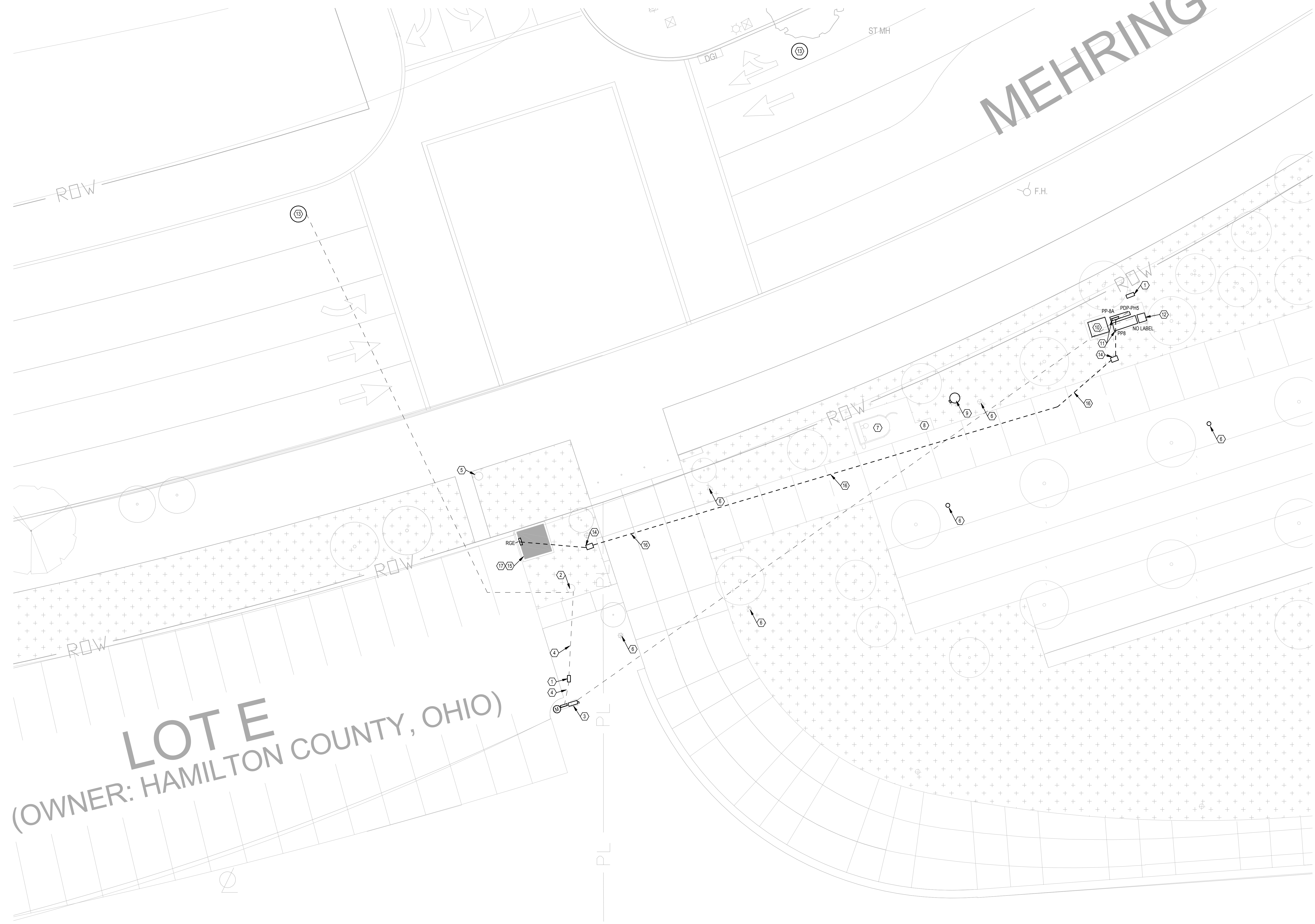
Panel: RGE NEW									
Location: BOOTH			Mounting: Surface			A.I.C. Rating: 10,000			Mains Type: MB
Supply From: PP-8A			Enclosure: Type 1			Mains Rating: 100 A			Voltage: 208Y120V-1PH-3W
CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT
1	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	2
3	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	4
5	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	8
9	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	10
11	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	14
15	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	16
17	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	20
21	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	22
23	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA	1	20 A	Spare	26
27	Spare	20 A	1	0 VA	8320 VA	2	0 A	PROJECTED PANEL...	28
29	Spare	20 A	1	0 VA	8320 VA	--	--	--	30
Total Load:				8.32 kVA	8.32 kVA				
Load Classification		Connected...	Demand Factor	Estimated...	Panel Totals				
Motor		16640 VA	125.00%	20800 VA	Total Conn. Load: 16.64 kVA				
					Total Est. Demand: 20.8 kVA				
					Total Conn.: 80 A				
					Total Est. Demand: 100 A				
Notes: 1) PANELBOARD PROVIDED WITH BOOTH.									
TOTAL CONNECTED					ESTIMATED DEMAND				
16.64 kVA					20.8 kVA (100 A)				

Panel: PDP-PH5 EXISTING										
Location: OUTSIDE			Mounting: Surface			A.I.C. Rating: EXISTING			Mains Type: MB	
Supply From: SERVICE DISCONNECT			Enclosure: Type 1			Mains Rating: 600 A			Voltage: 480Y277V-3PH-4W	
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Space	--	1	--	--	--	1	--	Space	2
3	Space	--	1	--	--	--	1	--	Space	4
5	Space	--	1	--	--	--	1	--	Space	6
7	Space	--	1	--	0 VA	--	3	30 A	Spare	8
9	Space	--	1	--	0 VA	--	3	30 A	Spare	10
11	Space	--	1	--	0 VA	--	3	30 A	Spare	12
13	Space	--	1	--	1646...	--	3	125 A	EX HP-6	14
15	Space	--	1	--	1185...	--	3	125 A	EX HP-6	16
17	Space	--	1	--	1292...	--	3	125 A	EX HP-6	18
19	EX NO LABEL FOR T1	400 A	3	3580...	1476...	--	3	125 A	EX HP-7	20
21	--	--	--	--	3580...	1015...	--	--	--	22
23	--	--	--	--	3580...	9820...	--	--	--	24
25	EX MAIN	600 A	3	0 VA	0 VA	--	3	60 A	EX TVSS	26
27	--	--	--	--	0 VA	0 VA	--	--	--	28
29	--	--	--	--	0 VA	0 VA	--	--	--	30
Total Load:				67.03 kVA	57.80 kVA	58.54 kVA				
Load Classification		Connected...	Demand Factor	Estimated...	Panel Totals					
NEW AND EXISTING		183366 VA	100.00%	183366 VA	Total Conn. Load: 183.37 kVA					
					Total Est. Demand: 183.37 kVA					
					Total Conn.: 221 A					
					Total Est. Demand: 221 A					
Notes:										
TOTAL CONNECTED					ESTIMATED DEMAND					
183.37 kVA					183.37 kVA (221 A)					

Panel: PP-8A EXISTING										
Location: OUTSIDE			Mounting: Surface			A.I.C. Rating: EXISTING			Mains Type: MB	
Supply From: TRANSFORMER T1			Enclosure: Type 1			Mains Rating: 600 A			Voltage: 208Y120V-3PH-4W	
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EX EVENT POWER E	200 A	3	1680...	1000...	--	1	20 A	EX EVENT P RW W	2
3	--	--	--	--	1680...	1000...	1	20 A	EX EVENT P RW W	4
5	--	--	--	--	1680...	1000...	1	20 A	EX EVENT P RW W	6
7	EX EVENT POWER W	200 A	3	1680...	1000...	--	1	20 A	EX EVENT P RW E	8
9	--	--	--	--	1680...	1000...	1	20 A	EX EVENT P RW E	10
11	--	--	--	--	1680...	1000...	1	20 A	EX EVENT P RW E	12
13	Space	--	1	--	8320...	--	2	100 A	RGE AT BOOTH	14
15	Space	--	1	--	8320...	--	2	100 A	RGE AT BOOTH	16
17	Space	--	1	--	--	--	1	--	Space	18
19	Space	--	1	--	--	--	1	--	Space	20
21	Space	--	1	--	--	--	1	--	Space	22
23	Space	--	1	--	--	--	1	--	Space	24
25	Space	--	1	--	1680...	--	3	200 A	EX ROSE GARDEN	26
27	Space	--	1	--	1680...	--	3	200 A	EX ROSE GARDEN	28
29	Space	--	1	--	1680...	--	3	200 A	EX ROSE GARDEN	30
Total Load:				60.72 kVA	60.72 kVA	52.40 kVA				
Load Classification		Connected...	Demand Factor	Estimated...	Panel Totals					
NEW PANELBOARD RGE AT BOOTH		16640 VA	125.00%	20800 VA	Total Conn. Load: 173.84 kVA					
EX EVENT POWER SWITCHES		151200 VA	53.31%	80600 VA	Total Est. Demand: 107.4 kVA					
EX RECEPTACLE		6000 VA	100.00%	6000 VA	Total Conn.: 483 A					
					Total Est. Demand: 298 A					
Notes:										
TOTAL CONNECTED					ESTIMATED DEMAND					
173.84 kVA					107.4 kVA (298 A)					

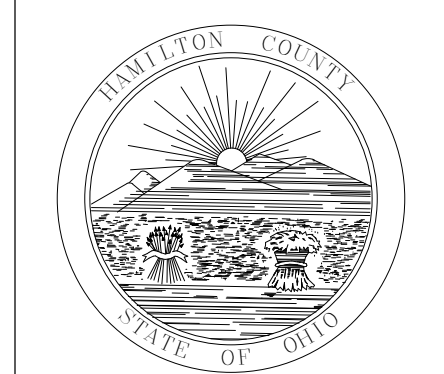


PROJECT NO. 2024-07129



NOTES

1. EXISTING ELECTRICAL PULL BOX.
2. EXISTING DUKE ENERGY POLE WITH TRANSFORMERS.
3. EXISTING RAISED PLATFORM WITH CT CABINET, METER AND 400 AMP SERVICE ENTRANCE DISCONNECT.
4. EXISTING 4" SECONDARY CONDUIT FROM POLE MOUNTED UTILITY TRANSFORMERS TO PLATFORM.
5. EXISTING STREET LIGHTING AND TRAFFIC CONTROL POLE.
6. EXISTING POLE LIGHT FOR PEDESTRIAN WALKWAY.
7. EXISTING REST ROOM.
8. EXISTING DRINKING FOUNTAIN.
9. EXISTING PUMP LIFT STATION.
10. EXISTING 300 KVA, 480V/208V/120V, 3PH, 4W TRANSFORMER.
11. EXISTING PANEL BOARDS IN EXISTING NEMA 3R STAINLESS ENCLOSURES.
12. EXISTING AV RACK.
13. EXISTING ELECTRIC MH.
14. NEW PULL BOX H-20 RATED FOR VEHICLES.
15. NEW GUARD BOOTH.
16. DIRECTIONAL BORE UNDER EXISTING HARD SURFACES.
17. EG TO PROVIDE 100 AMP, 208V, SINGLE PHASE FEEDER TO NEW GUARD SHACK SIZED PER SINGLE LINE. ALL WIRING IN GUARD SHACK IS PRE-TERMINATED. SET GROUND ROD AND EXTEND GROUND WIRE TO PANEL GROUND BAR.



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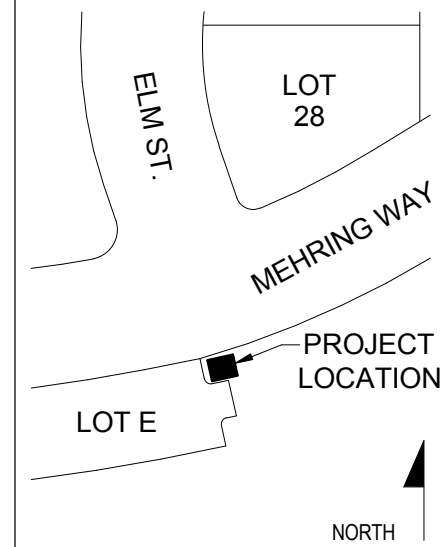
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ISSUES/REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT ARCHITECT: JT
PROJECT MANAGER: CR
PRINCIPAL: DT
CHECKED BY: DT



THE BANKS
Public Partnership
CBMWoF
GUARD BOOTH

DRAWING TITLE
SITE PLAN - ELECTRICAL

JOB NUMBER: 98090.41
DATE: 09/11/2024
DRAWING NUMBER: E101



PROJECT NO. 2024-07129

1 ELECTRICAL SITE PLAN

