

ADDENDUM 2_November 13, 2023

FROM: Allied Engineering, Inc.
160 Veranda Street
Portland, Maine 04103
Telephone: (207) 221-2260

TO: Prospective Bidders, Suppliers, and Other Parties

RE: Addendum No. **Two (2)** to the Bidding Documents for:
York Maintenance Facility Electrical Repairs, Mile 6.8, York, ME

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated October 10, 2023. Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject Bidder to disqualification.

CONTRACTOR QUESTIONS - NONE

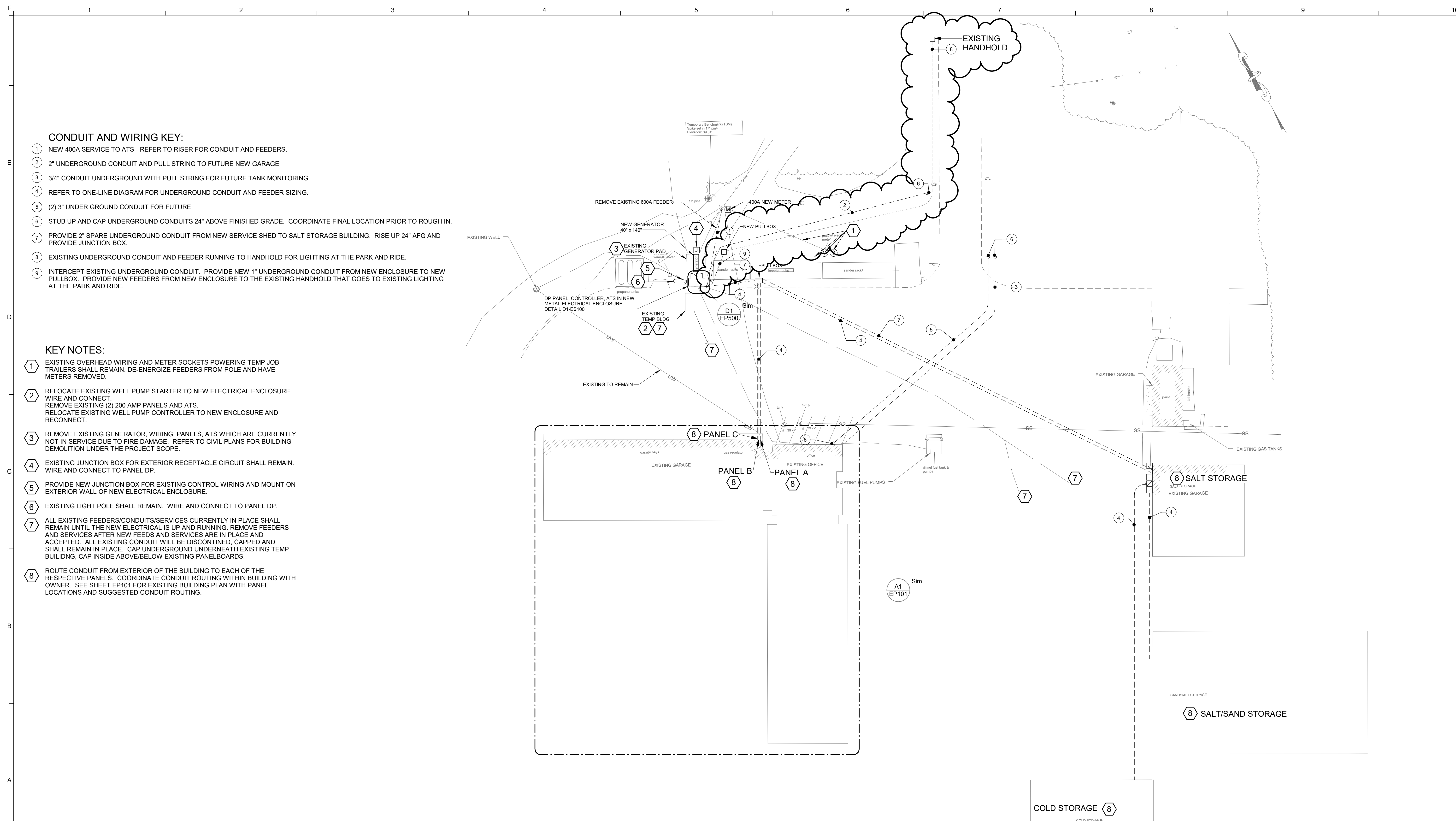
SPECIFICATIONS - None

PLANS SHEETS & SKETCHES

1. DELETE EP500 -POWER RISER DIAGRAM (Sheet 8 of 8), in its entirety. **ADD** Drawing EP-500 - POWER RISER DIAGRAM (Sheet 8 of 8) in its place, attached.
2. DELETE ES100-ELECTRICAL SITE PLAN (Sheet 6 of 8), in its entirety. **ADD** Drawing C401-DETAILS (Sheet 6 of 8) in its place, attached.

ATTACHMENTS

A. Addendum 2 Summary Document	(1 Pages)
B. Contractor Questions	(0 Pages)
C. Specifications	(0 Pages)
D. Plan Sheets and Sketches	(2 Pages)
Total Page Count	<u>3 Pages</u>



CONDUIT AND WIRING KEY:

- 1 NEW 400A SERVICE TO ATS - REFER TO RISER FOR CONDUIT AND FEEDERS.
- 2 2" UNDERGROUND CONDUIT AND PULL STRING TO FUTURE NEW GARAGE
- 3 3/4" CONDUIT UNDERGROUND WITH PULL STRING FOR FUTURE TANK MONITORING
- 4 REFER TO ONE-LINE DIAGRAM FOR UNDERGROUND CONDUIT AND FEEDER SIZING.
- 5 (2) 3" UNDER GROUND CONDUIT FOR FUTURE
- 6 STUB UP AND CAP UNDERGROUND CONDUITS 24" ABOVE FINISHED GRADE. COORDINATE FINAL LOCATION PRIOR TO ROUGH IN.
- 7 PROVIDE 2" SPARE UNDERGROUND CONDUIT FROM NEW SERVICE SHED TO SALT STORAGE BUILDING. RISE UP 24" AFG AND PROVIDE JUNCTION BOX.
- 8 EXISTING UNDERGROUND CONDUIT AND FEEDER RUNNING TO HANDHOLD FOR LIGHTING AT THE PARK AND RIDE.
- 9 INTERCEPT EXISTING UNDERGROUND CONDUIT. PROVIDE NEW 1" UNDERGROUND CONDUIT FROM NEW ENCLOSURE TO NEW PULLBOX. PROVIDE NEW FEEDERS FROM NEW ENCLOSURE TO THE EXISTING HANDHOLD THAT GOES TO EXISTING LIGHTING AT THE PARK AND RIDE.

KEY NOTES:

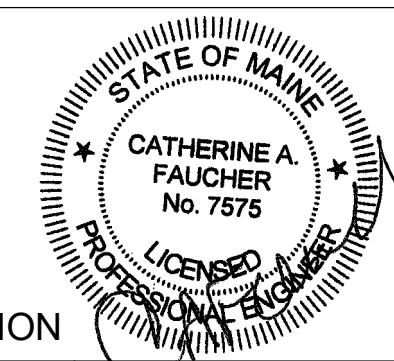
- 1 EXISTING OVERHEAD WIRING AND METER SOCKETS POWERING TEMP JOB TRAILERS SHALL REMAIN. DE-ENERGIZE FEEDERS FROM POLE AND HAVE METERS REMOVED.
- 2 RELOCATE EXISTING WELL PUMP STARTER TO NEW ELECTRICAL ENCLOSURE. WIRE AND CONNECT. REMOVE EXISTING (2) 200 AMP PANELS AND ATS. RELOCATE EXISTING WELL PUMP CONTROLLER TO NEW ENCLOSURE AND RECONNECT.
- 3 REMOVE EXISTING GENERATOR, WIRING, PANELS, ATS WHICH ARE CURRENTLY NOT IN SERVICE DUE TO FIRE DAMAGE. REFER TO CIVIL PLANS FOR BUILDING DEMOLITION UNDER THE PROJECT SCOPE.
- 4 EXISTING JUNCTION BOX FOR EXTERIOR RECEPTACLE CIRCUIT SHALL REMAIN. WIRE AND CONNECT TO PANEL DP.
- 5 PROVIDE NEW JUNCTION BOX FOR EXISTING CONTROL WIRING AND MOUNT ON EXTERIOR WALL OF NEW ELECTRICAL ENCLOSURE.
- 6 EXISTING LIGHT POLE SHALL REMAIN. WIRE AND CONNECT TO PANEL DP.
- 7 ALL EXISTING FEEDERS/CONDUITS/SERVICES CURRENTLY IN PLACE SHALL REMAIN UNTIL THE NEW ELECTRICAL IS UP AND RUNNING. REMOVE FEEDERS AND SERVICES AFTER NEW FEEDS AND SERVICES ARE IN PLACE AND ACCEPTED. ALL EXISTING CONDUIT WILL BE DISCONTINUED, CAPPED AND SHALL REMAIN IN PLACE. CAP UNDERGROUND UNDERNEATH EXISTING TEMP BUILDING, CAP INSIDE ABOVE/BELOW EXISTING PANELBOARDS.
- 8 ROUTE CONDUIT FROM EXTERIOR OF THE BUILDING TO EACH OF THE RESPECTIVE PANELS. COORDINATE CONDUIT ROUTING WITHIN BUILDING WITH OWNER. SEE SHEET EP101 FOR EXISTING BUILDING PLAN WITH PANEL LOCATIONS AND SUGGESTED CONDUIT ROUTING.

A1 ELECTRICAL SITE PLAN

1" = 30'-0"

Scale:
1" = 30'-0"

Designed by:
CATHERINE A. FOUCHER



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**CONTRACT 2023.11
YORK MAINTENANCE ELECTRICAL REPAIRS
ELECTRICAL SITE PLAN**

No.	Revision	By	Date
1	ISSUED FOR ADDENDUM No. 2	AEI	11/13/2023

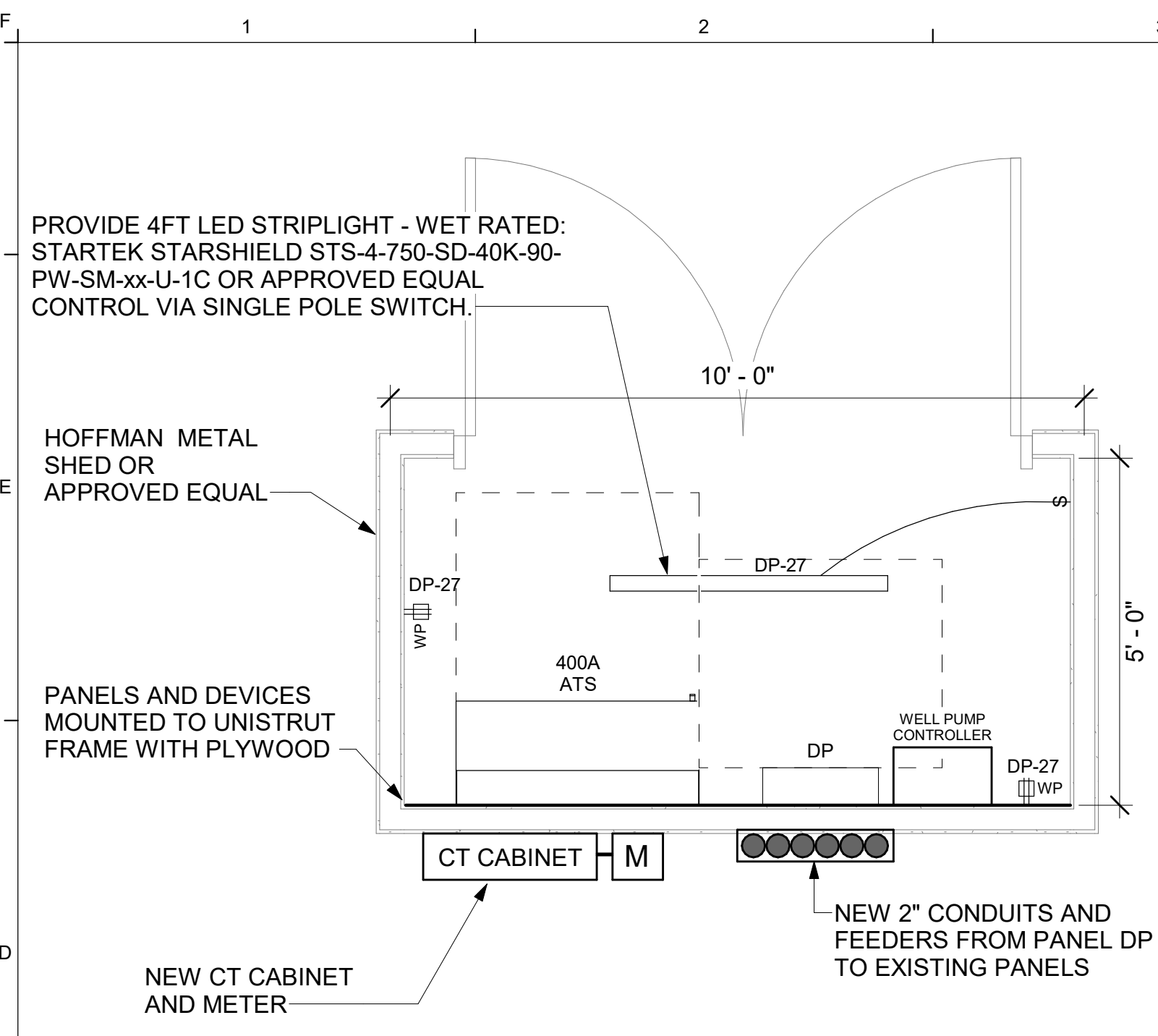
ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	Checked:	By	Date
CAF	10/10/23	CAF	CAF	10/10/23
PMc	10/10/23			

AEI PROJ.NO.: 20020 CAD FILE:

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT: 2023.11 SHEET NUMBER: ES100
6 OF 8



D1 ELECTRICAL ENCLOSURE ENLARGEMENT
1/2" = 1'-0"

Lighting and Appliance Panelboard: DP

Location:
Supply From:
Mounting: Surface

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22kAIC
Mains Type: MLO
Bus Rating: 400 A
MCB Rating:

CKT	Circuit Description	Trip Amps	Poles	A (kVA)		B (kVA)		Poles	Trip Amps	Circuit Description	CKT
				0	17.9	0	16.9				
1	EXISTING BUILDING PANEL A (1)	125	2	0	0	0	0	2	125	EXISTING BUILDING PANEL B (1)	2
3											4
5	EXISTING BUILDING PANEL C (1)	175	2	0	17.9	0	16.9	2	200	MDP - FUTURE NEW BUILDING	6
7											8
9	Spare	50	2	0	0	0	0	2	60	(E) SALT STOR - PANEL SB (1)	10
11											12
13	(E) SAND/SALT STOR-PANEL SSB (1)	60	2	0	0	0	0	2	60	(E) COLD STOR SHED-PANEL CSB (1)	14
15											16
17	Spare	20	2	0	0	0	0	2	60	EXISTING WELL PUMP (1)	18
19											20
21	EXISTING RECEPTACLE	20	1	0	0	0	0	1	20	GEN BATTERY CHARGER	22
23	GENERATOR START	20	1	0	0	0	0	1	20	EXISTING LIGHTS AT PARK AND RIDE	24
25	GEN JACKET WH/STRIP HEATER	20	1	0	0	0	0	1	20	Spare	26
27	Receptacle	20	1	0	0	0	0	1	20	Spare	28
29	Spare	20	1	0	0	0	0	1	20	Spare	30
31	Spare	20	1	0	0	0	0	1	20	Spare	32
33	Spare	20	1	0	0	0	0	1	20	Spare	34
35	Spare	20	1	0	0	0	0	1	20	Spare	36
37	Spare	20	1	0	0	0	0	1	20	Spare	38
39	Spare	20	1	0	0	0	0	1	20	Spare	40
41	Spare	20	1	0	0	0	0	1	20	Spare	42
				Total Load:	17.9 kVA	17.3 kVA					
				Total Amp:	149 A	144 A					

Notes: (1) REFEEDING EXISTING PANELS ACROSS THE SITE WITH NEW FEEDERS.

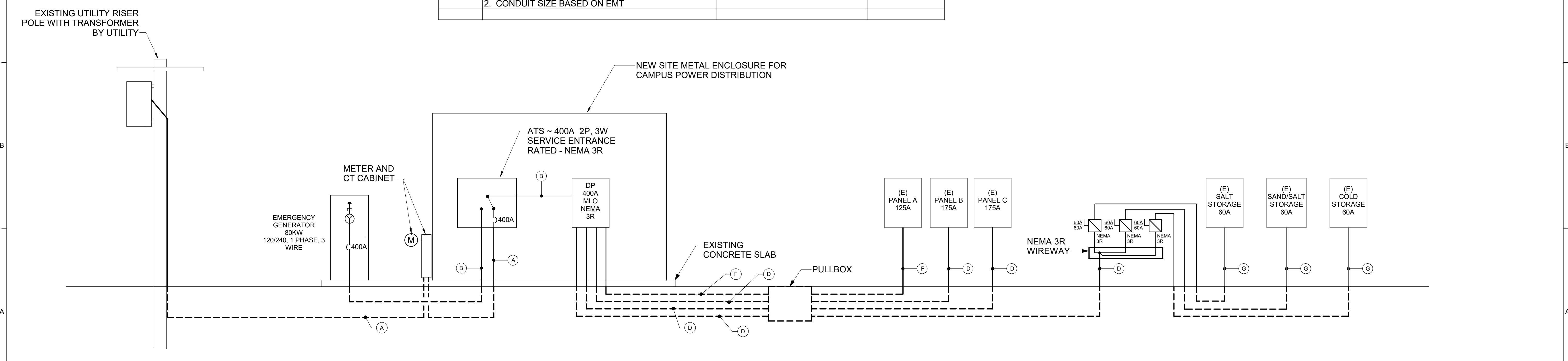
THREE PHASE AND SINGLE PHASE CIRCUIT SCHEDULE NOTES

1	UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CONDUCTORS AND RACEWAY WHERE INDICATED.
2	PROVIDE TYPE AND MINIMUM SIZE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATION OR ON THE DRAWINGS.
3	PROVIDE NEUTRAL IN CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
4	MINIMUM SIZE CONDUIT FOR SCHEDULE 80 OR EMT IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE. DO NOT INSTALL PVC INDOORS.
5	PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT.
6	PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTOR SAME SIZE AS THE EQUIPMENT GROUND. IN CIRCUITS TO ISOLATED GROUND PANELS OR DEVICES, GREEN WITH YELLOW STRIPE.
7	FOR PANELS WITH 200% NEUTRAL PROVIDE 200% NEUTRAL USING TWO PHASE SIZED CONDUCTORS IF SIZE 1/0 OR LARGER, OTHERWISE PROVIDE (1) 3/0 NEUTRAL.
8	PROVIDE SEPARATE INDIVIDUAL NEUTRAL FOR ALL CIRCUITS EXCEPT LIGHTING CIRCUITS. PROVIDE A DEDICATED NEUTRAL FOR GFCI AND AFCI CIRCUITS.
9	CIRCUIT SIZING BASED ON 600 VOLT 90 DEGREE (C) RATED INSULATION. INTERIOR TYPE THHN/THWN OR XHHW-2 (LARGER THAN SIZE #6), FOR EXTERIOR OR BELOW GRADE UTILIZE RHW-2/USE-2 IN CONDUIT ONE SIZE LARGER. SIZING BASED ON 60 DEGREE (C) FOR AMPACITIES 100A OR LESS AND 75 DEGREE (C) AMPACITIES OVER 100A.
10	FOR SERVICE ENTRANCE CONDUCTORS IT IS NOT REQUIRED TO INSTALL THE GROUNDING CONDUCTOR. THE NEUTRAL CONDUCTOR IS FULL SIZED AND IS BONDED TO THE GROUNDING ELECTRODE CONDUCTOR AT THE TRANSFORMER AND THE SERVICE DISCONNECT.
11	FOR BATTERY CABLES, INSTALL AND GROUP IN PAIRS (ONE POSITIVE AND ONE NEGATIVE CONDUCTOR). MARK POSITIVE CONDUCTOR WITH (5) OVERLAPPING WRAPS OF RED ELECTRICAL TAPE ON EACH END.

FEEDER SCHEDULE

TAG	DESCRIPTION	CONDUCTORS (NOTE 1)	CONDUIT (NOTE...)
(A)	400 AMP SECONDARY FEEDER	(3) #500 KCMIL	3 1/2"
(B)	400 AMP FEEDER	(3) #500 KCMIL & (1) #3G	3 1/2"
(C)	NOT USED		
(D)	175 AMP FEEDER	(3) #2/0 & (1) 6G	2"
(E)	125 AMP FEEDER	(3) #1 & (1) #6G	2"
(G)	60 AMP FEEDER	(3) #6 & (1) #10G	1"

FEEDER SCHEDULE NOTES:
1. WIRING BASED ON COPPER THWN/THHN
2. CONDUIT SIZE BASED ON EMT



A1 POWER RISER DIAGRAM
NONE

Scale: As indicated

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Structural Mechanical Electrical Plumbing

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2023.11
YORK MAINTENANCE ELECTRICAL REPAIRS
POWER RISER DIAGRAM**

SHEET NUMBER: EP500

CONTRACT: 2023.11

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