



**REQUEST FOR PROPOSALS ADDENDUM**

**RFP-DPW-2025-0006**

**Cortez Blvd (SR 50) Pump Station Replacement Project**

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**ADDENDUM #8**

**Date Issued: April 22, 2025**

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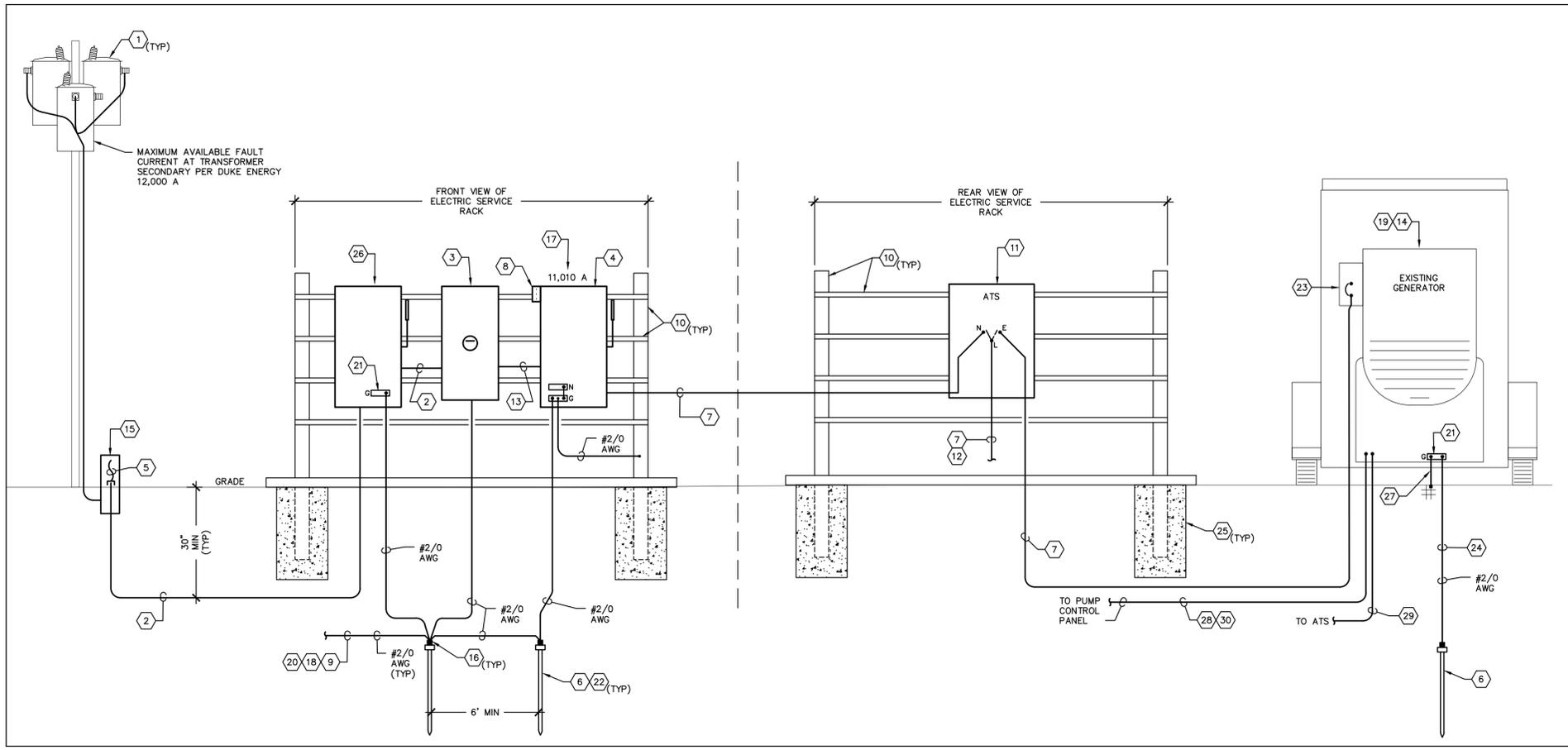
**TO:** All prospective proposers:

You are hereby notified that this Addendum shall be attached to and made a part of the above-named solicitation and contract documents, as follows:

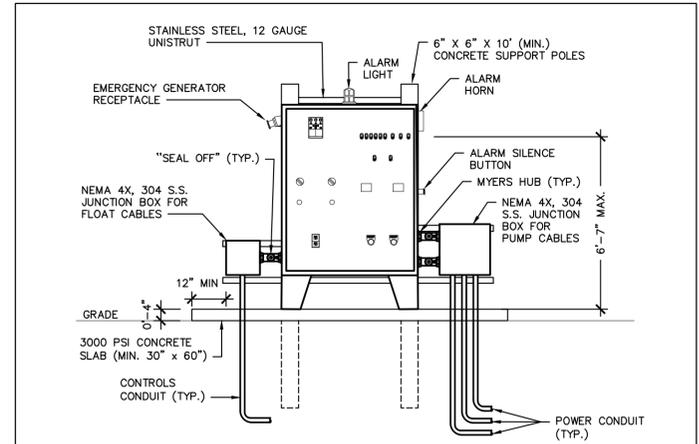
**UPDATED Electrical Plans**

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Z:\2024 Projects\2404E S550 Pump Station\Drawings\Electrical\Sheet\2404E\_E-04 Power One-Line Diagram.dwg Apr 21, 2025 4:46 pm



**01 POWER ONE-LINE DIAGRAM**  
SCALE: NONE



- NOTES:**
1. OUTER DOOR NOT SHOWN FOR CLARITY.
  2. THE OUTER DOOR HAS A 3-POINT LATCHING SYSTEM.
  3. ALL PENETRATIONS MADE INTO THE CONTROL PANEL SHALL BE FROM THE BOTTOM SIDE ONLY.
  4. CONTROL PANEL SHALL HAVE 400 A MAIN CIRCUIT BREAKER (MCB) AND 400 A EMERGENCY CIRCUIT BREAKER (ECB). MCB AND ECB SHALL HAVE MANUAL INTERLOCK. MCB AND ECB SHALL HAVE MINIMUM 25,000 AMPERES INTERRUPTING RATING AT 600 V.
  5. CONTROL PANEL SHALL HAVE 250 A, 3-POLE, 600 V CIRCUIT BREAKER FOR EACH PUMP MOTOR.
  6. CONTROL PANEL SHALL HAVE 20 A, 1-POLE, 600 V CIRCUIT BREAKER WITH MINIMUM 18,000 AMPERES INTERRUPTING RATING AT 600 V FOR SITE LIGHTING.
  7. CONTROL PANEL SHALL HAVE MINIMUM 20 A, 1-POLE, 600 V CIRCUIT BREAKERS WITH MINIMUM 18,000 AMPERES INTERRUPTING RATING AT 600 V FOR BATTERY CHARGER AND BLOCK HEATER EACH. VERIFY CIRCUIT BREAKER REQUIREMENTS WITH KOHLER GENERATOR REPRESENTATIVE PRIOR TO COMMENCING WORK.

**02 CONTROL PANEL DETAIL**  
SCALE: NONE

**DRAWING GENERAL NOTES**

- REFER TO HERNANDO COUNTY UTILITIES DEPARTMENT (HCUD) WATER, RECLAIMED WATER AND WASTE WATER CONSTRUCTION SPECIFICATIONS MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- COORDINATE WITH DUKE ENERGY FIELD ENGINEER (DANIEL LEWIS, PH: (352) 610-2900, EMAIL: DANIEL.LEWIS@DUKE-ENERGY.COM) FOR ELECTRICAL SERVICE REQUIREMENTS.
- CONTRACTOR SHALL FIELD COORDINATE WITH DUKE ENERGY AND OTHER TRADES TO AVOID OTHER INFRASTRUCTURE AND MEET ALL CLEARANCE REQUIREMENTS.
- MAINTAIN MINIMUM 12" SEPARATION BETWEEN ELECTRICAL AND OTHER INFRASTRUCTURE.
- REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT SHALL BE MOUNTED ABOVE FLOOD ELEVATION.
- CONTACT KOHLER REPRESENTATIVE FOR GENERATOR DETAILS: DAVID ADAMS AT (813) 394-1141; DAVID.ADAMS@PS.US

**DRAWING NOTES**

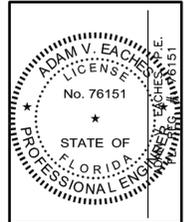
- EXISTING UTILITY POWER COMPANY, POLE-MOUNTED, 480/277 V, 3 $\phi$ , TRANSFORMERS.
- SECONDARY CONDUITS AND CONDUCTORS. 4 #600 KMIL - 4" C.
- METER SOCKET PER DUKE ENERGY REQUIREMENTS.
- 400 A, 600 V, 3-POLE, 4-W, NEMA 4X, SS TYPE 304, SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH. FUSE AT 400 A WITH CLASS RK1 FUSES. BOND NEUTRAL-GROUND.
- COORDINATE WITH DUKE ENERGY FOR LENGTH OF SERVICE LOOP. CONNECTIONS WILL BE MADE BY POWER COMPANY.
- 3/4" X 10' COPPER CLAD GROUND ROD.
- 4 #600 KMIL + #3 EG - 4" C.
- SPD PER HCUD SPECIFICATIONS. LEADS SHALL BE AS SHORT AND STRAIGHT AS PRACTICABLE.
- BOND TO WELL, PIPING, ETC. AS RECOMMENDED BY PUMP AND CONTROL PANEL MANUFACTURER.
- CHANNEL-STRUT EQUIPMENT RACK FOR ILLUSTRATION PURPOSES ONLY. REFER TO HCUD SPECIFICATIONS FOR REQUIREMENTS.
- 400 A, 480 V, 3-POLE, SOLID NEUTRAL, NEMA 4X, SS TYPE 304 AUTOMATIC TRANSFER SWITCH (ATS). REFER TO HCUD SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- AUTOMATIC TRANSFER SWITCH LOAD SIDE. CONNECT TO PUMP CONTROL PANEL; NOT SHOWN FOR CLARITY. REFER TO DETAIL 02, THIS SHEET.
- 4 #600 KMIL - 4" C.
- EXISTING GENERATOR TO BE CONNECTED TO NEW ATS. REFER TO LOAD SUMMARY SCHEDULE FOR PUMP INFORMATION ABOUT QUANTITY AND HORSE POWER RATING. PUMPS SHALL START SEQUENTIALLY WITH A MINIMUM 3 SECOND DELAY.
- PROVIDE NEW PEDESTAL PER POWER COMPANY SPECIFICATIONS. COORDINATE WITH POWER COMPANY FOR EXACT LOCATION AND REQUIREMENTS PRIOR TO COMMENCING WORK.
- EXOTHERMIC WELD.
- CALCULATED FAULT CURRENT.
- BOND TO ANTENNA TOWER GROUND ROD.
- EXISTING TRAILER MOUNTED, 250 kW, 60 HZ, 480/277 V, 3 $\phi$ , 4-W GENERATOR SET TO BE RELOCATED AND RECONNECTED TO NEW ELECTRICAL SERVICE. COORDINATE WITH CITY OF BROOKSVILLE TO SECURE AND ANCHOR GENERATOR.
- BOND TO FENCE.
- NO NEUTRAL-GROUND BOUND AT THIS LOCATION.
- RESISTANCE TO GROUND SHALL NOT EXCEED 5 OHMS. PROVIDE ADDITIONAL GROUND RODS AS REQUIRED.
- FIELD VERIFY EXISTING 100% RATED GENERATOR OUTPUT CIRCUIT BREAKER; 400 AF WITH 400 A TRIP PLUG. CONTACT ENGINEER OF RECORD IN CASE OF DISCREPANCIES.
- SUPPLEMENTAL GROUNDING ELECTRODE SYSTEM.
- 3000 PSI MIN. CONCRETE FOOTING. DIMENSIONS SHALL BE PROVIDED BY REGISTERED FL STRUCTURAL ENGINEER.
- 400 A, 600 V, 3-POLE, 4-W, NEMA 4X, SS TYPE 304 UTILITY METER DISCONNECT SWITCH INSTALLED BY ELECTRICAL CONTRACTOR PER UTILITY COMPANY'S SPECIFICATIONS. DISCONNECT SWITCH SHALL HAVE PROVISION FOR UTILITY COMPANY PADLOCK ON OPERATING HANDLE. PROVIDE PLASTIC PLACARD THAT READS: "METER DISCONNECT NOT SERVICE EQUIPMENT". COORDINATE WITH DUKE ENERGY PRIOR TO COMMENCING WORK.
- BOND TO FRAME WITH #2/0 AWG.
- 2 #10 + #10 EG IN 3/4" C FOR BLOCK HEATER. COORDINATE DETAILS WITH KOHLER GENERATOR REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 2 #12 + #12 GND IN 3/4" C FOR AUTO START. COORDINATE DETAILS WITH KOHLER GENERATOR REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 2 #10 + #10 EG IN 3/4" C FOR BATTERY CHARGER. COORDINATE DETAILS WITH KOHLER GENERATOR REPRESENTATIVE PRIOR TO COMMENCING WORK.

**LOAD SUMMARY SCHEDULE**

LOAD DESCRIPTION	LOAD
<b>EXISTING GENERATOR:</b>	
250 kW KOHLER (@ 80% PF)      MAXIMUM OUTPUT:	312.50 kVA
<b>PROPOSED LOADS:</b>	
LIGHTING	0.09 kVA
PUMP #1 (105 HP)	108.08 kVA
PUMP #2 (105 HP)	108.08 kVA
PUMP #3 (105 HP) (*)	
CONTROLS AND OTHER MISC LOADS	2.80 kVA
RECEPTACLES	0.18 kVA
TOTAL PROPOSED LOAD	
219.2 kVA	
TOTAL AMPERES (@ 480 V, 3 $\phi$ )	
263.7 AMPS	
(*) PUMP #3 IS DESIGNED AS A BACK-UP ONLY. ALL THREE PUMPS WILL NOT BE OPERATING SIMULTANEOUSLY.	

- EXISTING GENERATOR NOTES:**
1. THE EXISTING GENERATOR WILL BE ABLE TO ACCOMMODATE TWO (2) 105 HP PUMPS WITH SOFT START.
  2. EXISTING GENERATOR WILL NOT BE ABLE TO HANDLE ALL THREE PUMPS RUNNING (SIMULTANEOUSLY).

**POWER ONE-LINE DIAGRAM**  
**CORTEZ BOULEVARD PUMP STATION REPLACEMENT PROJECT**



**Coastal**  
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 EB-0000142

**HALL**  
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DATE	REV. BY/REV. NO.	REVISION
4/21/25	AE 1	ADDENDUM 1

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

**SHEET**  
**E-04**  
 JOB No.: 20073