



THE CITY OF DAYTONA BEACH
OFFICE OF THE PURCHASING AGENT

Post Office Box 2451
Daytona Beach, Florida 32115-2451

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ADDENDUM NO. 7

DATE: April 20, 2020

PROJECT: ITB 20343
BETHUNE POINT WATER RECLAMATION FACILITY
GENERATOR REPLACEMENT

OPENING DATE: ~~April 22, 2020~~ May 1, 2020

This addendum is hereby incorporated into the Bid Documents for the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~.

1. The opening date is hereby changed from ~~April 22, 2020~~ to May 1, 2020. The deadline for submitting questions is 4/23/2020 at 5:00pm and the preferred method for receiving these questions is through our bid platform on the City website.

2. Questions & Answers:

Q1: Section 16441 (Low Voltage Switchboard) states in 2.01 Manufacturers are Square D or acceptable equal. Is Eaton an acceptable equal?

A1: Eaton is an acceptable equal.

Q2: 8/E-501 contains a note to "reference sheets E-1106 and E-1107 for additional details of individual duct bank runs," however sheets E-1106 and E-1107 are not included in the drawing set. Please clarify if these sheets are to be included in a forthcoming addendum, or if the note contained in 8/E-501 can be disregarded?

A2: Note can be disregarded

Q3: 5/E-502 shows aluminum equipment racks with stainless steel hardware. This detail is not referenced on any other drawing. Please provide additional detail on where equipment racks are to be located.

A3: Panel GLP and Generator Master Control Panel shown on sheet E-102 will be rack mounted.

Q4: Specification Section 01650 (Start-up and Demonstration) does not specify a duration for equipment demonstration time after generators are check/ test/ and started up. Please provide a demonstration time duration once electrical and power generation equipment has successfully started up.

A4: The Start-Up Demonstration Testing will be conducted for seven (7) consecutive days. The Work must operate successfully during the seven (7) day testing period in the manner intended. If the Work does not operate successfully, or if the start-up is interrupted due to other contracts, the problems will be corrected, and the test will start over from day one. The party causing the interruption will be subject to the assessment of actual damages due to delay.

Q5: Based on requirements to provide a preliminary coordination study, submittal durations, and long lead procurement times of at least 5 months, we request that the construction schedule be extended by 3 months or ninety (90) working days. Additionally, there are also unknown impacts to fabrication times relating to the current COVID-19 pandemic that the market is facing.

A5: The construction schedule can be extended for an additional 45 working days, for a total of 285 days to final completion. If circumstances outside of the Contractors control (such as COVID-19) cause a delay, the City will take that into account and can provide additional days as deemed appropriate.

Q6: Please provide a detail between the generator pad and the equipment pad. Please clarify where detail 2/S-501 occurs. A) Please refer to detail 2 on S-501. It is not clear where this detail occurs on the drawings. Please clarify. B) Are isolation joints required between the generator base slab and the ATS slab, as well as, between the generator base slab and concrete stair landing pad? If yes, please provide a detail.

A6: There is a 6-inch wide strip of grade/soil between the generator slab and equipment pad.

Detail 2/S-501 would occur at locations where two concrete slabs border against each other but are not intended to be connected such as the generator slab and stair slab at the northeast corner of the generator slab.

Q8: Per the note on C-101 the existing valve vault is to be protected during construction and remain in place. Please provide additional information on the size, depth, and location of this vault.

A8: The vault box and size were field surveyed as shown on V-101. Existing utilities as shown are approximate and were based on record drawings and have not been field verified. The Contractor shall determine the exact location, depth and character of the vault prior to construction.

Q9: The ITB states that bidders are required to submit Attachment A, demonstrating all MBE's and WBE's contacted. Section S1.2 also requests Bidders to include with Attachment A copies of MBE/WBE certification for each MBE/WBE subcontractor and supplier. Please confirm MWBE certificates are required only by MBE's and WBE's that have submitted a proposal.

A9: The mbe language should all read as optional and voluntary. Bid should NOT state that bidders are REQUIRED to submit the docs. They are asked to submit Attachments A,B,C with the bid, and D after NOI. And E when awarded and paid.

Q10: Section 16441 (Low-Voltage Switchboard) Part 1 General 1.01 Description A, states that the switchboard must be NEMA 4X stainless Steel. Part 2 Products 2.01 Manufacturers A state's Square D or acceptable equal. Square D only offers this switchboard in painted NEMA 3R Stainless Steel, is this acceptable? If not, please list another acceptable manufacturer.

A10: NEMA 3R painted stainless steel is acceptable.

Q11: ATS manufacturers are taking exception to Unventilated 4X enclosure requirement. 3000A ATS's must be ventilated. Please provide which ATS manufacturer will do NEMA 4X, we have checked with ASCO, Russel, Kohler, and Lakeshore.

A11: NEMA 3R painted stainless steel is acceptable.

Q12: Are isolation joints required between the generator base slab and the ATS slab, as well as, between the generator base slab and concrete stair landing pad? If yes, please provide a detail.

A12: To be answered on a future addendum.

Q13: Specification 05519, Section 2.06, Item C, Line 1 indicates that metal stair treads and platforms are to be fabricated from welded steel grating, however Line 2 of Item C indicates that metal stair treads and platforms are to be fabricated from welded aluminum grating. 3/S-501 indicates that "all stair framing, and treads shall be aluminum." Please confirm that Specification 05519, Section 2.06, Item C, Line 1 can be disregarded.

A13: Specification 05519, Section 2.06, Item C, Line 1 can be disregarded. All components of stairs and platforms shall be aluminum.

Q14: Drawing E-102 shows a note tag "17" however there is no description for Note 17 shown on the drawing. Please provide a description for Note 17.

A14: Note 17 shall be "1"C (4#12, 2#6, 1#10G) FROM JUNCTION BOX TO BATTERY CHARGER, JACKET WATER HEATER, LIGHTS AND MISC."

Q15: Please clarify Geotechnical Report Appendix B foundation support and the extent of required clay removal to 10'. Please clarify if clay removal is required under the ATS/MB pad since it is not supported by Auger cast piles.

A15: Refer to Addendum No. 5 for updated Geotechnical Report. Clay removal of 10' is not required. Contractor shall remove soils to concrete pad bearing elevations and meet the requirements set forth in the updated Geotech report. Auger cast piles are not required below ATS/MB pad. See Detail 1 on S-301 for further clarification of concrete pad and required subgrade prep.

Q16: Please clarify if Auger Cast piles are intended for load transfer, independently of clay removal.

A16: Refer to response No. 7.

Q17: Please clarify the intended electrical load for the influent pump station temporary generator?

A17: 360A at 480V. Three 150hp, 180A pumps with autotransformer reduced voltage starters. Two duty and one standby.

Q18: Drawing C101 shows (1) concrete slab for the (2) new generators and (1) concrete slab for ATS 1 & 2 and MB 1, 2, & 3. There are no structural drawing details provided for the ATS/MB pad. Please provide structural details for this Slab.

A18: Refer to Addendum No. 5.

Q19: Are equipment pads required under the electrical equipment at the ATS/ MB Slab?

A19: Yes, refer to Addendum No. 5.

Q20: The drawings show 12 piles however the bid form references 14 piles. Please clarify bid quantity of piles.

A20: Refer to Addendum No. 5. The bid quantity for piles has been modified to LF basis, which includes an estimated 12 piles, one test pile, and an additional pile for contingency.

Q21: Please confirm the location of the test pile.

A21: Test pile can be at column line E/H and be part of the production pile. In the event the pile fails the Contractor shall provide new production pile at no cost to the Owner.

Q22: Pile depth shown is 30'. If the testing shows the pile depth is greater than 30', please provide a unit cost line item on the bid form.

A22: Refer to Addendum No. 5. The bid quantity for piles has been modified to LF basis, which includes an estimated 12 piles, one test pile, and an additional pile for contingency.

Q23: Will the existing irrigation piping be relocated by others before the beginning of construction?

A23: Any irrigation piping determined to be in conflict with construction will be moved by the City. Contractor shall verify as part of location and characterization of all existing utilities prior to construction.

Q24: Please confirm if the existing fuel tank, fuel pump, and fuel lines are to be removed from the existing generator building.

A24: Fuel tank, fuel pump and fuel lines are to remain.

Q25: Removal of the existing generator will require removal of the existing louver on west side of the building. Is the louver to be replaced, or is the opening required to be filled with masonry to match the existing building?

A25: Contractor shall removal ALL existing louvers (south, north, and west sides of building) and replace with concrete masonry to match existing building. This shall be done as part of the base bid.

Q26: Please clarify if the existing generator pad is to be removed.

A26: The existing generator slab shall be removed and floor repaired as necessary to provide a level surface. This shall be done as part of the base bid.

Q27: Please provide specifications for the two new Tap Boxes that will be furnished and installed in the existing FPL vault.

A27: Tap boxes to be provided by FPL. Contractor to coordinate. See changes to sheets E-102, E-603, E-604.

Q28: Provide information required to install a temporary generator at the existing Influent Pump Station. Please provide estimated load and voltage.

A28: 360A at 480V. Three 150hp, 180A pumps with autotransformer reduced voltage starters. Two duty and one standby.

Q29: Can the existing on-site generator be utilized for temporary power during and outages?

A29: The existing on-site generator will not be available for temporary power.

Q30: Spec section 01010 Part 1 Work Covered by Contract Documents 1.01 A states "Installation of fiber optic cable, conduit, proofing, pull boxes, and lids, from the existing well house to the water treatment plant". This work is not shown in the contract documents. Please clarify.

A30: Please disregard bullet point (#7). All other work described under 1.01A is applicable.

Q31: Please confirm the new generator system does not include any connection to the existing SCADA system and there are no other SCADA modifications to the existing system.

A31: No SCADA modifications required under this project.

Q32: Specification Section 16441 2.02 B 2 calls for NEMA 4X Stainless Steel exterior for the switchboards. Will painted NEMA 3R Stainless Steel be acceptable?

A32: Refer to Addendum No. 5.

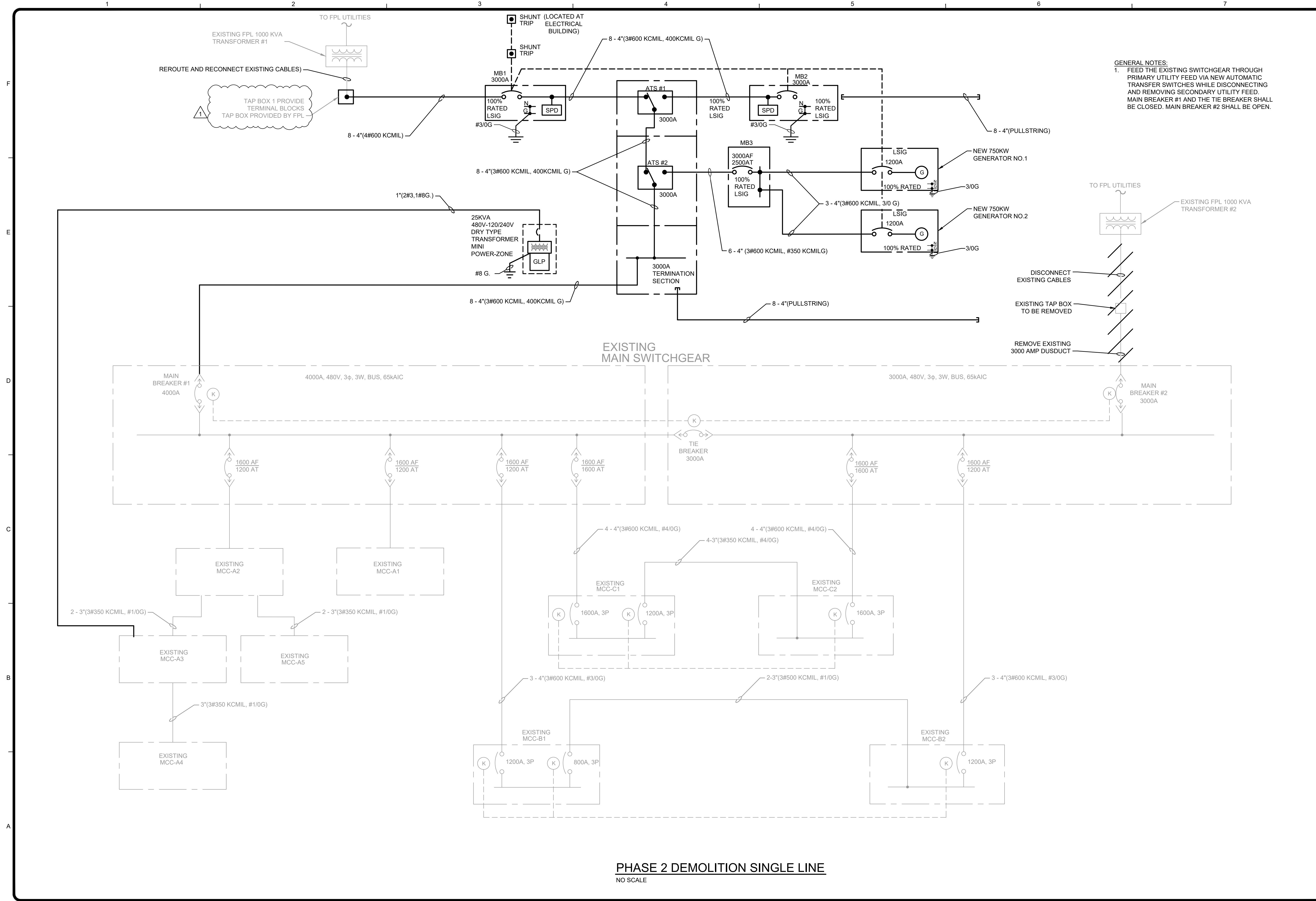
3. Please note that the City anticipates issuing one (1) final addendum at the end of this week to answer a few outstanding questions as well as any questions that come in before the question deadline.
4. All other terms and conditions remain the same.

The Bidder shall acknowledge receipt of this addendum on the Bid Proposal Form.

The City of Daytona Beach
Kirk Zimmerman, CPPB
Buyer

Posted online at <https://www.codb/841.us>

4/14/2020 10:36:47 AM - P:\PIER\26561\200-26561-18002\CAD\SHEDDING\FILE-603 PHASE 2 DEMOLITION SINGLE LINE.DWG - REINEFELD, AURORA

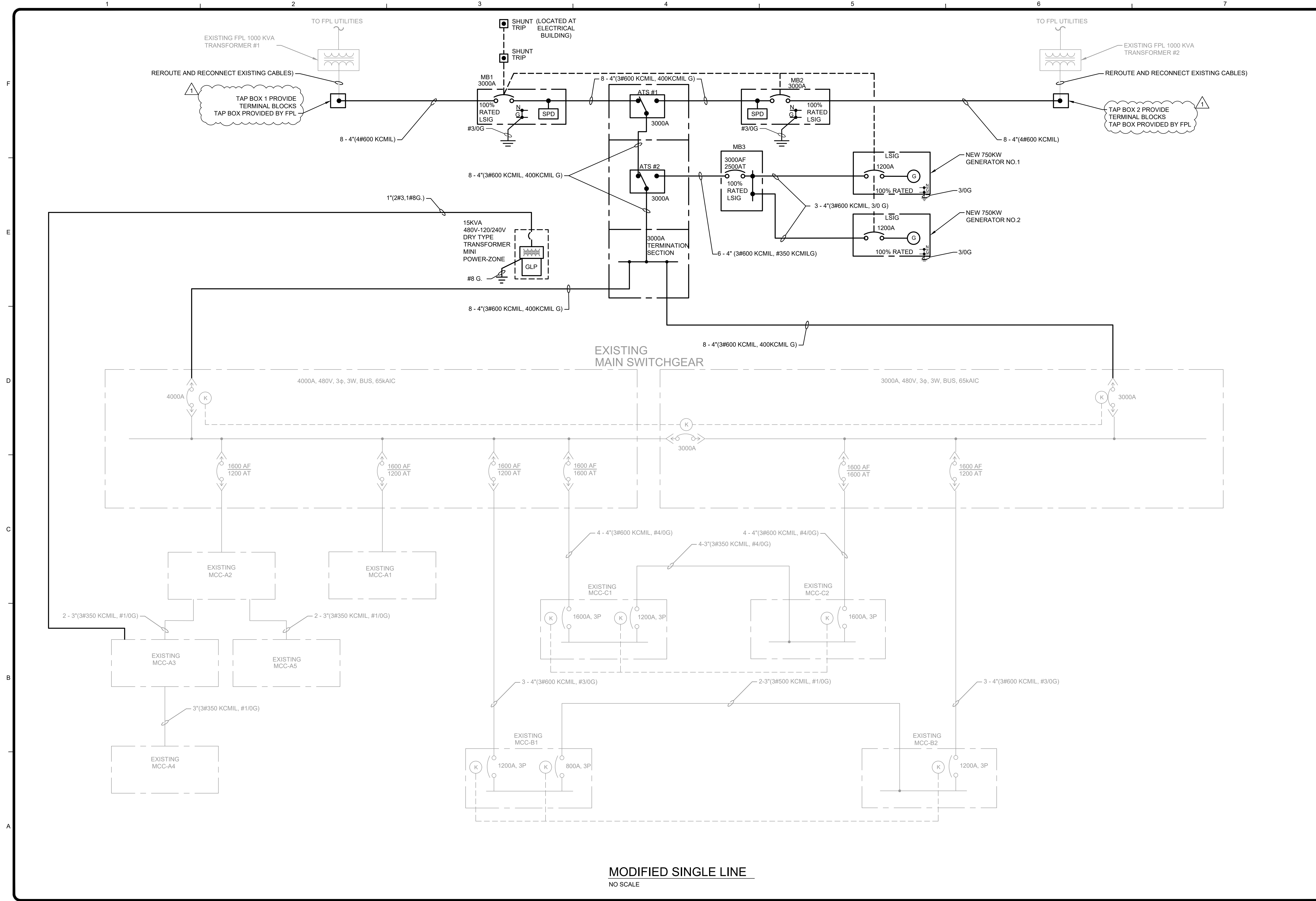


GENERAL NOTES:
 1. FEED THE EXISTING SWITCHGEAR THROUGH PRIMARY UTILITY FEED VIA NEW AUTOMATIC TRANSFER SWITCHES WHILE DISCONNECTING AND REMOVING SECONDARY UTILITY FEED. MAIN BREAKER #1 AND THE TIE BREAKER SHALL BE CLOSED. MAIN BREAKER #2 SHALL BE OPEN.

PHASE 2 DEMOLITION SINGLE LINE
 NO SCALE

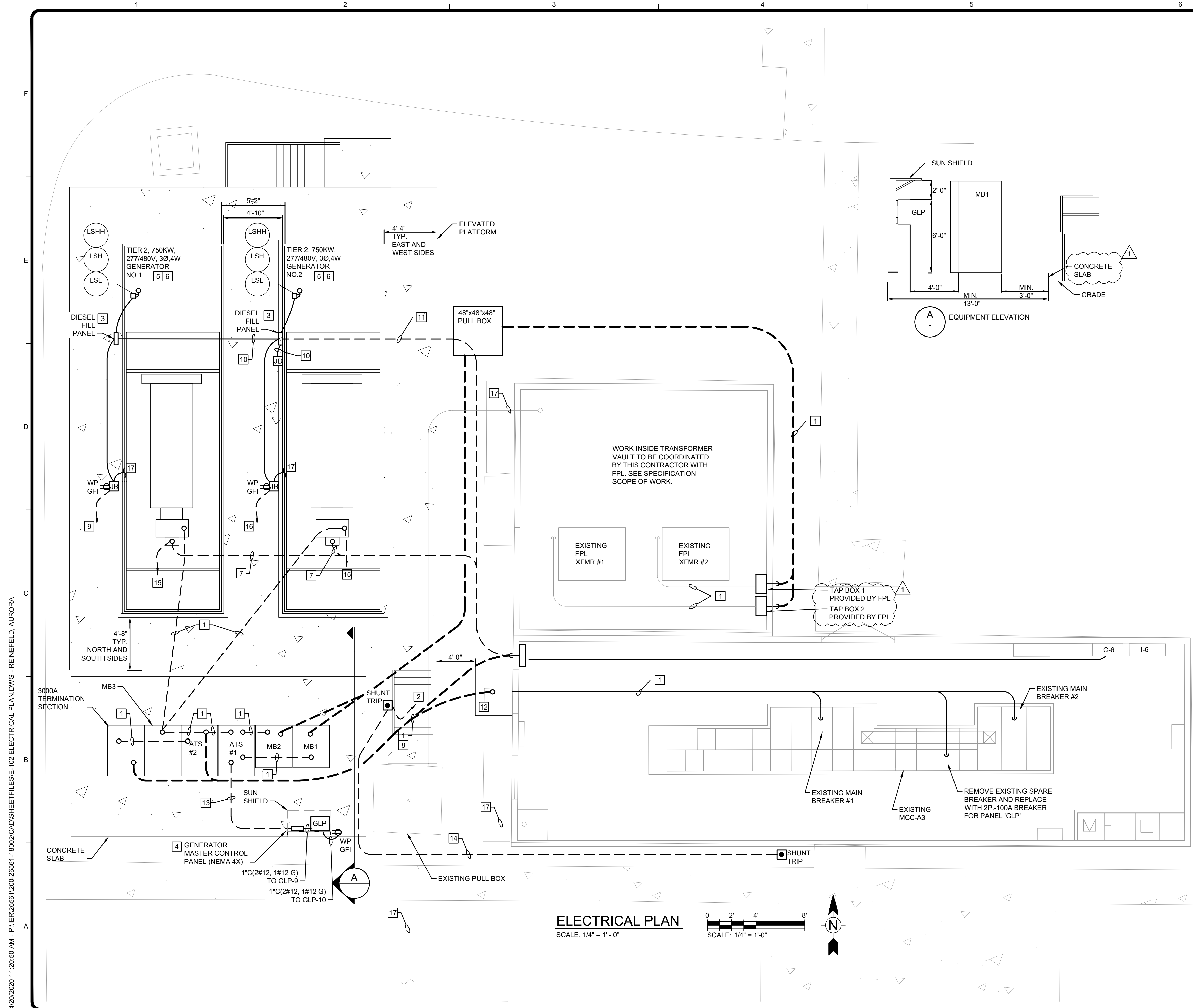
TETRA TECH ENGINEERING BUSINESS NO. 2429 www.tetra.tech.com	
Banks R. Watson, P.E. P.E. No. 73973, FL 201 East Pine Street, Suite 1000 Orlando, Florida 32801 Engineering Business No. 2429	DATE _____
BID SET	
BY AMR	DATE 04/14/20
CITY OF DAYTONA BEACH BETHUNE POINT WATER RECLAMATION FACILITY - GENERATOR REPLACEMENT PHASE 2 DEMOLITION SINGLE LINE	
Project No.: 200-26561-18002	
Designed By: AMR	
Drawn By: AMR	
Checked By: BRW	
E-603	
Copyright: Tetra Tech	

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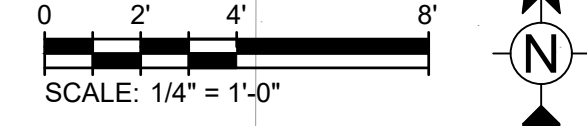
MODIFIED SINGLE LINE
NO SCALE

TETRA TECH ENGINEERING BUSINESS NO. 2429		www.tetra.tech.com	
Banks R. Watson, P.E. P.E. No. 73973, FL 201 East Pine Street, Suite 1000 Orlando, Florida 32801 Engineering Business No. 2429		201 E. PINE STREET, SUITE 1000 ORLANDO, FLORIDA 32801 PHONE: (407) 839-3955 FAX: (407) 839-3790	
DATE		DATE	
BID SET			
BY	AMR	DESCRIPTION	DATE
1		ADDENDUM NO. 6	04/14/20
CITY OF DAYTONA BEACH BETHUNE POINT WATER RECLAMATION FACILITY - GENERATOR REPLACEMENT			
SINGLE LINE			
Project No.: 200-26561-18002		Designed By: AMR	
Drawn By: AMR		Checked By: BRW	
E-604		Bar Measures 1 inch	



- SPECIFIC NOTES:**
- SEE DRAWING E-603 & E-604 FOR POWER CONDUIT AND WIRE SIZE.
 - 1"C(2#12, 1#12 G.) TO MB1, MB2 AND GENERATORS.
 - PROVIDE AND INSTALL DIESEL FILL PANEL WITH REQUIRED LEVEL INDICATION DEVICES AND ASSOCIATED CONDUIT AND WIRE.
 - PROVIDE AND INSTALL GENERATOR CONTROL PANEL AND ASSOCIATED CONDUIT AND WIRE.
 - SOUND ATTENUATED, WEATHERPROOF, ENCLOSURE:
 - ENCLOSURE SUITABLE FOR 150 MPH WIND LOADING (PE CERTIFICATES ARE AVAILABLE AT AN ADDITIONAL CHARGE)
 - ENCLOSURE TO BEAR THE INSIGNIA OF THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION TO DOCUMENT COMPLIANCE WITH THE 2014 FLORIDA BUILDING CODE.
 - PROVIDE ELEVATED PLATFORM AND STAIRS AROUND GENERATORS.
 - WIRE MISC. 120 VOLTS ITEMS TO GENERATOR TO LOAD CENTER.
 - MOUNT AND WIRE BATTERY CHARGERS TO LOAD CENTER AND DC OUTPUT TO BATTERIES
 - WIRE GENERATORS JACKET WATER HEATERS TO LOAD CENTER.
 - ALL ELECTRICAL TO BE RUN IN EMT OR FLEXIBLE CONDUIT TO MEET NFPA 70.
 - PROVIDE, INSTALL AND WIRE (2) 48" LED LIGHT FIXTURES WITH A SWITCH LOCATED BY ENTRANCE DOOR.
 - PROVIDE, INSTALL AND WIRE AN INTERNALLY MOUNTED R-1 DUAL LAMP EMERGENCY LIGHT ABOVE THE DOOR.
 - PROVIDE, INSTALL AND WIRE (2) 20A, 125V DUPLEX GFCI RECEPTACLES LOCATED BY ENTRANCE DOORS
 - SUB BASE FUEL TANK :
 - INTERSTITIAL SPACE WITH FDEP APPROVED LEAK DETECTION SWITCH (MADISON M-7000 EQ#682)
 - MECHANICAL FUEL LEVEL GAUGE (VISIBLE AT FILL POINT)
 - SUPPLY AND RETURN CONNECTIONS
 - 2" FILL WITH LOCKABLE CAP WITH FDEP SPILL CONTAINMENT
 - NORMAL AND EMERGENCY VENT FITTINGS INSTALLED PER UL-142
 - LOW LEVEL FUEL ALARM SWITCH (MADISON M-7000 EQ#682) SET @ 40% REMAINING CAPACITY WIRED TO CONTROL PANEL TERMINAL STRIP
 - HIGH LEVEL FUEL ALARM SWITCH (MADISON M-7000 EQ#682) SET @ 90% TANK CAPACITY WIRED TO CONTROL PANEL TERMINAL STRIP
 - CABLE STUB UP OPENING UNDER CIRCUIT BREAKER
 - GENERATOR MOUNTING PADS
 - 2 LIFTING POINTS PER SIDE (4 TOTAL) FOR LIFTING GENERATOR SET, ENCLOSURE AND TANK (EMPTY)
 - TANK PRIMED WITH TWO PART EPOXY PRIMER AND PAINTED GLOSS BLACK
 - 1"C(12#14, 1#14 G.) FROM GENERATOR TO C-6
 - 1"C(12#14, 1#14 G.) FROM ATS#1 AND ATS#2 TO C-6
 - 1"C(4#12, 2#6, 1#10 G.) TO GLP-1,2,3,6. (BATTERY CHARGER, JACKET WATER HEATER, LIGHTS AND MISC.)
 - 1"C(6#14, 1#14 G.)
 - 1"C(12#14, 1#14 G.) TO C-6
 - PROVIDE 48"Wx36"Dx48"H NEMA 4X HINGED COVER ENCLOSURE. REMOVE EXISTING WINDOW AND MOUNT ENCLOSURE OVER WINDOW. SEAL AROUND ENCLOSURE. PROVIDE WARNING LABELS.
 - 1"C(4#14, 1#14 G.) FROM ATS#1 AND ATS#2
 - 1"C(2#12, 1#12 G.)
 - 1"C(CAT 6) TO GENERATOR MASTER CONTROL PANEL.
 - 1"C(4#12, 2#6, 1#10 G.) TO GLP-4,5,7,8. (BATTERY CHARGER, JACKET WATER HEATER, LIGHTS AND MISC.)
 - 1"C(4#12, 2#6, 1#10G) FROM JUNCTION BOX TO BATTERY CHARGER, JACKET WATER HEATER, LIGHTS AND MISC.

ELECTRICAL PLAN
SCALE: 1/4" = 1' - 0"



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www.tetra.tech.com

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Orlando, Florida 32801
Engineering Business No. 2429

BID SET

MARK	DATE	DESCRIPTION	BY
1	04/14/20	ADDENDUM NO. 6	AM/R

CITY OF DAYTONA BEACH
BETHUNE POINT WATER RECLAMATION FACILITY - GENERATOR REPLACEMENT
ELECTRICAL PLAN

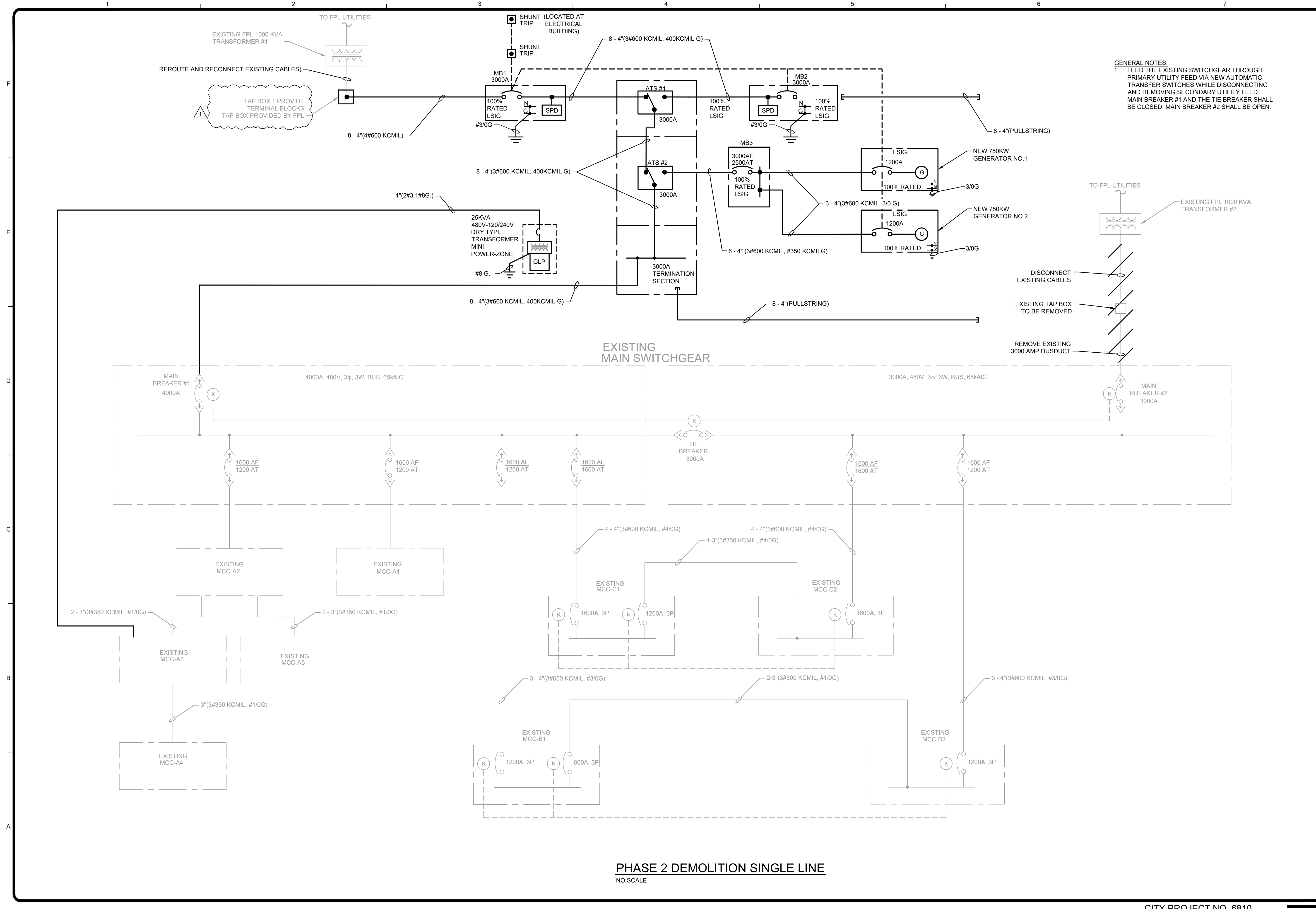
Project No.: 200-26561-18002
Designed By: DK
Drawn By: DK
Checked By: BRW

E-102

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4/14/2020 10:36:47 AM - P:\PIER\26561\200-26561-18002\CAD\SHEDDING\FILE-603 PHASE 2 DEMOLITION SINGLE LINE.DWG - REINEFELD, AURORA



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PHASE 2 DEMOLITION SINGLE LINE
 NO SCALE



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 ORLANDO, FLORIDA 32801
 PHONE: (407) 839-3955 FAX: (407) 839-3790

BID SET

MARK	DATE	DESCRIPTION
1	04/14/20	ADDENDUM NO. 6

BY	DESCRIPTION
AMR	

CITY OF DAYTONA BEACH
 BETHUNE POINT WATER RECLAMATION FACILITY - GENERATOR REPLACEMENT
PHASE 2 DEMOLITION SINGLE LINE

Project No.:	200-26561-18002
Designed By:	AMR
Drawn By:	AMR
Checked By:	BRW

E-603