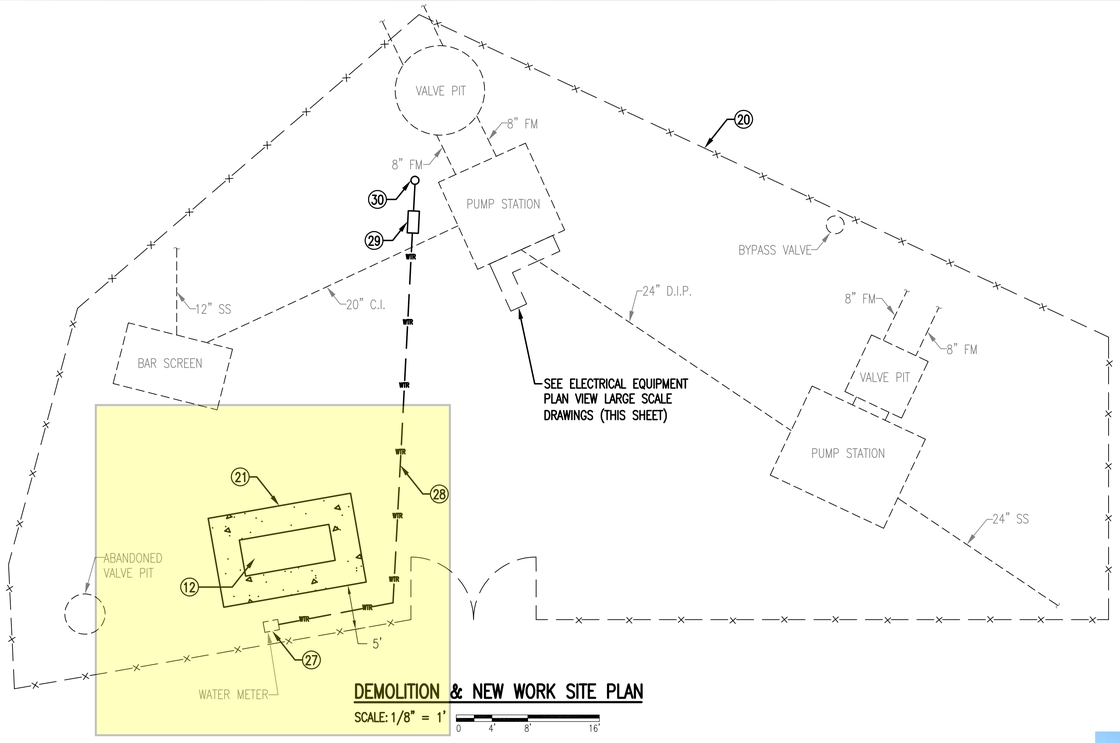
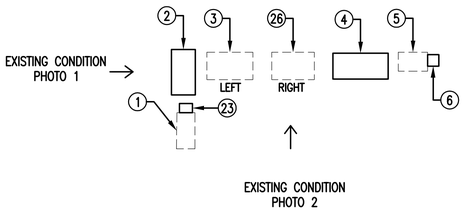


DEMOLITION & NEW WORK SITE PLAN

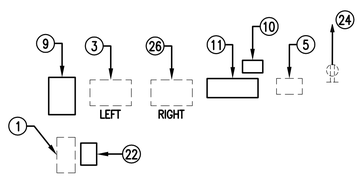
SCALE: 1/8" = 1'

0 4' 8' 16'



DEMOLITION ELECTRICAL EQUIPMENT PLAN VIEW

SCALE: 1/4" = 1'

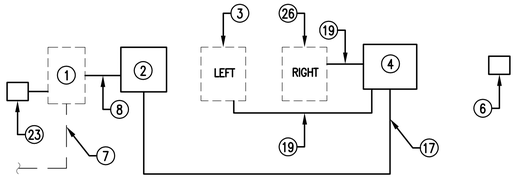


NEW WORK ELECTRICAL EQUIPMENT PLAN VIEW

SCALE: 1/4" = 1'

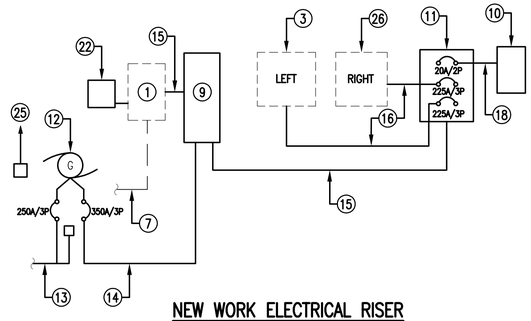
EXISTING CONDITION PHOTO 1

SCALE: NONE



DEMOLITION ELECTRICAL RISER

SCALE: NONE



NEW WORK ELECTRICAL RISER

SCALE: NONE

EXISTING CONDITION PHOTO 2

SCALE: NONE

NOTES:

(#) (THIS SHEET ONLY)

1. EXISTING 480V, 600A ENCLOSED CIRCUIT BREAKER SERVICE DISCONNECT TO REMAIN. THE EXISTING GROUND IS ESTABLISHED AT THE POWER COMPANY METER ON THE WOOD POLE. DISCONNECT AND SAFE OFF THE GROUNDING CONDUCTOR ON EACH END. PROVIDE #6 GROUNDING CONDUCTOR TO (3) 3/4" DIAMETER X 10' GROUND RODS NOT LESS THAN 10' APART.
2. EXISTING 480V, 600A MANUAL TRANSFER SWITCH AND GENERATOR PLUG TO BE REMOVED.
3. EXISTING "LEFT" PUMP STATION CONTROL PANEL TO REMAIN. DISCONNECT AND ABANDON IN PLACE EXISTING 3 KVA INTERNAL CONTROL TRANSFORMER. PROVIDE 3#12, #12G; 1/2"C. FROM MINI-POWER ZONE TO EXISTING 20A/2P BREAKER IN PUMP CONTROL PANEL. PROVIDE A NAMEPLATE ON CONTROL PANEL STATING "CONTROL POWER FOR THIS PANEL IS FED FROM EXTERIOR MINI-POWER ZONE AND WILL NOT BE TURNED OFF BY PUMP CONTROL PANEL BREAKER".
4. EXISTING 480V, 600A MAIN LUG ONLY PANEL TO BE REMOVED.
5. EXISTING SCADA CONTROLS TO REMAIN. PROVIDE 3/4"C. AND CONDUCTORS AS REQUIRED TO CONNECT GENERATOR GENERAL ALARM TO EXISTING SCADA CONTROLS. PROVIDE 2#12, #12G; 1/2" C TO 20A/1P BREAKER IN NEW MINI-POWER ZONE.
6. EXISTING 3 KVA TRANSFORMER TO BE REMOVED.
7. EXISTING 2 SETS:4#350KCMIL, #1G; 3-1/2"C. TO REMAIN. DISCONNECT AND SAFE OFF THE GROUNDING CONDUCTOR ON EACH END. GROUND SHALL BE ESTABLISHED AT THE SERVICE DISCONNECT.
8. EXISTING 2 SETS:4#350KCMIL, #1G; 3-1/2"C. TO BE REMOVED.
9. NEW 480V, 600A AUTOMATIC TRANSFER SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 50,000 AMPERES SYMMETRICAL. MOUNT ON EXISTING STRUCTURE. ADD NEW 1-1/2" X 3" ALUMINUM C CHANNEL AS REQUIRED. PROVIDE 3/4"C. AND CONDUCTORS AS REQUIRED FOR START/STOP SIGNAL TO GENERATOR.
10. NEW 480V-240/120V, 7-1/2 KVA MINI-POWER ZONE MOUNTED TO EXISTING STRUCTURE. ADD ADDITIONAL 1-1/2" X 3" ALUMINUM C-CHANNEL AS REQUIRED TO MATCH EXISTING STRUCTURE. PROVIDE ONE 20A/1P BREAKER FOR EXISTING SCADA EQUIPMENT, ONE 20A/1P BREAKER FOR EXISTING RECEPTACLE, ONE 20A/1P BREAKER FOR THE GENERATOR BATTERY CHARGER, AND ONE 30A/1P BREAKER FOR THE "RIGHT" PUMP CONTROL PANEL AND ONE 20A/2P BREAKER FOR THE "LEFT" PUMP CONTROL PANEL TO ELIMINATE THE TRANSFORMER IN EACH PUMP CONTROL PANEL. PROVIDE THREE 20A/1P BREAKERS SPARE.
11. NEW 480Y/277V, 600A MAIN LUG PANEL IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 50,000 AMPERES SYMMETRICAL. PROVIDE ONE 225A/3P BREAKER FOR "LEFT" PUMP STATION CONTROL PANEL, ONE 225A/3P BREAKER FOR PUMP "RIGHT" STATION CONTROL PANEL, AND ONE 20A/2P BREAKER FOR MINI POWER ZONE. PROVIDE ONE 100A/3P BREAKER AND ONE 30A/3P BREAKER SPARE. MOUNT TO EXISTING STRUCTURE. ADD NEW 1-1/2" X 3" ALUMINUM C-CHANNEL AS REQUIRED.
12. NEW PAD MOUNTED NATURAL GAS GENERATOR. SEE SPECIFICATION 16310 PARAGRAPH 1.5 FOR SIZE AND VOLTAGE. CITY OF DUBLIN IS RESPONSIBLE FOR ALL NATURAL GAS WORK. PROVIDE GENERATOR WITH ONE 250A OUTPUT CIRCUIT BREAKER FOR THE RAW WATER PUMP STATION AND ONE 350A/3P BREAKER FOR ALABAMA STREET PUMP STATION.
13. NEW 2 SETS: 4#350KCMIL, #1G; 5"C, (1) 5" C. SPARE AND (1) 2" C. WITH START/STOP CONDUCTORS (UPSIZED FOR 1150' OF CONDUCTOR LENGTH) IN OPEN TRENCH TO ELECTRICAL VAULT. SEE SHEET E5 SITE PLAN, FOR CONTINUATION.
14. NEW 4#500KCMIL, #1G; 3-1/2"C.
15. NEW 2 SETS: 4#350KCMIL, #1G; 3-1/2"C.
16. NEW 4#4/0, #4G; 2-1/2"C.
17. EXISTING 2 SETS:4#3/0, #4G; 3"C. TO BE REMOVED.
18. NEW 2#12, #12G; 1/2"C.
19. EXISTING 4#350KCMIL, #3G; 3-1/2"C. TO BE REMOVED.
20. EXISTING FENCE TO REMAIN.
21. NEW CONCRETE GENERATOR PAD. SEE DETAIL SHEET E0.
22. NEW SURGE SUPPRESSOR. PROVIDE CONDUCTORS AND CONDUIT AS RECOMMENDED BY MANUFACTURER AND CONNECT TO SERVICE DISCONNECT.
23. EXISTING SURGE SUPPRESSOR TO BE REMOVED.
24. EXISTING RECEPTACLE TO REMAIN. PROVIDE 2#12, #12G; 3/4"C. TO 20A/1P BREAKER IN MINI-POWER ZONE.
25. NEW 2#12, #12G; 3/4"C. TO 20A/1P IN NEW MINI-POWER ZONE FOR BATTERY CHARGER.
26. EXISTING "RIGHT" PUMP STATION CONTROL PANEL TO REMAIN. DISCONNECT AND ABANDON IN PLACE EXISTING 3 KVA INTERNAL CONTROL TRANSFORMER. PROVIDE 2#10, 10G; 1/2"C. FROM MINI-POWER ZONE TO EXISTING 30A/1P BREAKER IN PUMP CONTROL PANEL. PROVIDE A NAMEPLATE ON CONTROL PANEL STATING "CONTROL POWER FOR THIS PANEL IS FED FROM EXTERIOR MINI-POWER ZONE AND WILL NOT BE TURNED OFF BY PUMP CONTROL PANEL BREAKER".
27. EXISTING WATER METER TO REMAIN.
28. REROUTE EXISTING 1" WATER LINE TO AVOID NEW GENERATOR CONCRETE PAD.
29. NEW 1" REDUCED PRESSURE ZONE BACKFLOW PREVENTER. SEE SHEET E0 FOR DETAIL.
30. NEW 1" FREEZE PROOF YARD HYDRANT. SEE SHEET E0 FOR DETAIL.

REVISION	ITEM	DATE

GEORGIA REGISTERED NO. 045281 PROFESSIONAL ENGINEER PAUL E. WHITMIRE

SHEET: *DEMOLITION & NEW WORK PLANS - ALABAMA PUMP STATION*

590 MEANS STREET NW
STE. 200
ATLANTA, GA 30318

TOLAND MIZELL MOLNAR

PROJECT: *FIXED AND PORTABLE GENERATOR INSTALLATIONS*

JOB NO:	TMM 2507
DATE:	02-06-26
DRAWN:	FSD
CHECKED:	PEW
APPROVED:	RBP
SCALE:	AS NOTED

SHEET

E3