ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE RECEPTACLE, 125 VAC (WP=WEATHERPROOF, G=GROUND FAULT CIRCUIT INTERRUPTER)
	SPECIAL PURPOSE RECEPTACLE, 240 VAC (COORDINATE WITH GENERATOR PLUG)
	POLE MOUNTED AREA LIGHT
G	GENERATOR
	HOMERUN
	CIRCUIT BREAKER
S	LIGHT SWITCH (WP=WEATHERPROOF)
—UG—	UNDERGROUND ELECTRICAL

LINE TYPES:

NEW WORK PLANS
- ——— NEW WORK AND EQUIPMENT
- — — — EXISTING EQUIPMENT TO REMAIN OR OTHERWISE NOTED

DEMOLITION PLANS
- ——— EXISTING EQUIPMENT TO BE REMOVED
- — — — EXISTING EQUIPMENT TO REMAIN OR OTHERWISE NOTED

NEW WORK & DEMOLITION PLANS
- ——— NEW WORK AND EQUIPMENT
- — — — EXISTING EQUIPMENT TO REMAIN OR OTHERWISE NOTED
- \\\\\\\\ EXISTING EQUIPMENT TO BE REMOVED

GENERAL NOTES

1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. ANY EXCAVATION AROUND EXISTING UTILITIES SHALL BE PERFORMED BY HAND OR HYDROVAC METHOD. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
2. NEW GENERATOR CONCRETE PADS SHALL NOT BE INSTALLED OVER EXISTING UTILITIES.
3. MULCH AND SEED ALL DISTURBED SOIL AREAS.
4. SITES WHICH INCLUDE FENCING MODIFICATIONS SHALL BE LEFT SECURE AT ALL TIMES WHEN THE CONTRACTOR IS NOT PRESENT.
5. CITY OF DUBLIN IS PROVIDING ALL WORK ASSOCIATED WITH THE NATURAL GAS TO THE NATURAL GAS GENERATORS.
6. FENCE RELOCATION AND CONCRETE GENERATOR PAD DIMENSIONS ARE BASED ON BASIS OF DESIGN GENERATOR. ADDITIONAL FENCE RELOCATION AND LARGER CONCRETE GENERATOR PADS SHALL BE INCLUDED IN THIS CONTRACT AT AN ADDITIONAL COST IF PROPOSED GENERATORS REQUIRE ADDITIONAL SPACE.

DESIGN INTENT NOTES

1. THE INTENT OF THIS PROJECT IS TO PROVIDE GENERATOR STANDBY POWER FOR THE FOLLOWING SITES:
   - 1.A. ACADEMY AVENUE PUMP STATION
   - 1.B. AIRPORT PUMP STATION
   - 1.C. ALABAMA PUMP STATION
   - 1.D. RAW WATER PUMP STATION
   - 1.E. EMERGENCY REPLACEMENT WATER WELL
   - 1.F. EXISTING WATER WELL
   - 1.G. HOLIDAY INN PUMP STATION
   - 1.H. CARVER STREET PUMP STATION
   - 1.I. HIGHWAY 19 PUMP STATION
   - 1.J. I-16 WEST BOUND PUMP STATION
   - 1.K. LOVE'S PUMP STATION
   - 1.L. SURFACE WATER PUMP STATION
   - 1.M. WASTEWATER TREATMENT PLANT
   - 1.N. WEST LAURENS PUMP STATION
   - 1.O. WASHINGTON STREET PUMP STATION

HOLIDAY INN AND CARVER PUMP STATIONS WILL SHARE A DIESEL PORTABLE GENERATOR. WASHINGTON STREET PUMP STATION WILL HAVE A DEDICATED DIESEL PORTABLE GENERATOR. I-16 WEST BOUND PUMP STATION WILL HAVE A PERMANENTLY MOUNTED DIESEL GENERATOR. ALABAMA PUMP STATION AND RAW WATER PUMP STATION WILL SHARE A PERMANENTLY MOUNTED NATURAL GAS GENERATOR LOCATED AT ALABAMA PUMP STATION. ALL OTHER SITES WILL HAVE A PERMANENTLY MOUNTED NATURAL GAS GENERATOR.

2. THE PROJECT INCLUDES INSTALLATION AND STARTUP FOR A COMPLETE AND OPERABLE SYSTEM.
3. CITY OF DUBLIN IS RESPONSIBLE FOR FINAL CONNECTIONS AND MODIFICATIONS TO EXISTING SCADA SYSTEMS.

ABBREVIATIONS

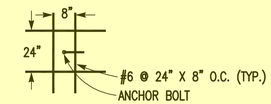
A	AMPERE	NEU	NEUTRAL
ATS	AUTOMATIC TRANSFER SWITCH	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	P	POLE
BLDG	BUILDING	PH	PHASE
C	CONDUIT	PNL	PANEL
CB	CIRCUIT BREAKER	QTY	QUANTITY
CKT	CIRCUIT	RE	RELOCATE
DWG	DRAWING	REQ'D	REQUIRED
ECB	ENCLOSED CIRCUIT BREAKER	S/N	SOLID NEUTRAL
EMT	ELECTRICAL METALLIC TUBING	SCADA	SUPERVISORY CONTROL AND DATA AQCUISITION
FLA	FULL LOAD AMPS	SW	SWITCH
FM	FORCE MAIN	SS	SANITARY SEWER
GFI	GROUND FAULT INTERRUPTER	TEL	TELEPHONE
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPRESSOR
GRS	GALVANIZED RIGID STEEL	UG	UNDERGROUND
KCMIL	THOUSAND CIRCULAR MILS	V	VOLTS
KVA	KILOVOLT AMPERE	VA	VOLT AMPS
LTG	LIGHTING	VAC	VOLTS ALTERNATING CURRENT
MB	MAIN CIRCUIT BREAKER	WTR	WATER
MLO	MAIN LUG ONLY	WP	WEATHERPROOF
MTD	MOUNTED	WP,G	WEATHERPROOF, GROUND
		XFMR	TRANSFORMER

PHASE AND OUTAGE NOTES

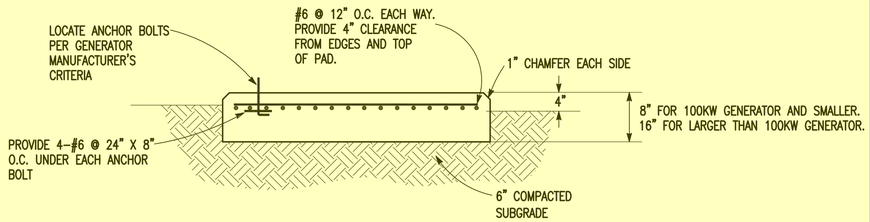
1. THE ORDER OF THE WORK OF EACH SITE SHALL BE COORDINATED WITH THE CITY OF DUBLIN AT THE BEGINNING OF THE PROJECT TO MINIMIZE THE INTERRUPTIONS TO THE UTILITY SYSTEMS OF THE CITY OF DUBLIN.
2. THE ALLOWABLE OUTAGE DURATION AND LOAD FOR EACH SITE IS AS FOLLOWS:

	SITE	OUTAGE	LOAD
A.	ACADEMY AVENUE PUMP STATION	1 HOUR	26 KW
B.	AIRPORT PUMP STATION	8 HOURS	14 KW
C.	ALABAMA PUMP STATION	2 HOURS	56 KW
D.	RAW WATER PUMP STATION	4 HOURS	82 KW
E.	EMERGENCY REPLACEMENT WATER WELL	4 HOURS FOR THE WELL 4 HOURS FOR THE ADJACENT GROUND WATER PLANT	44 KW
F.	EXISTING WATER WELL	4 HOURS	28 KW
G.	HOLIDAY INN PUMP STATION	1 HOUR	11 KW
H.	CARVER STREET PUMP STATION	2 HOURS	5 KW
I.	HIGHWAY 19 PUMP STATION	4 HOURS	7 KW
J.	I-16 WEST BOUND PUMP STATION	1 HOUR	24 KW
K.	LOVE'S PUMP STATION	3 HOURS	23 KW
L.	SURFACE WATER PUMP STATION	4 HOURS	284 KW
M.	WASTEWATER TREATMENT PLANT	4 HOURS	168 KW
N.	WEST LAURENS PUMP STATION	1 HOURS	13 KW
O.	WASHINGTON STREET PUMP STATION	2 HOURS	134 KW

THE CONTRACTOR SHALL PROVIDE A PORTABLE DIESEL GENERATOR TO MATCH THE CAPACITY OF THE NEW GENERATOR SHOWN IN THESE DRAWINGS TO PROVIDE POWER FOR EACH SITE WHILE THE SITE IS DISCONNECTED FROM NORMAL POWER LONGER THE DURATIONS LISTED ABOVE. THE CONTRACTOR MAY ALSO PROVIDE TEMPORARY NORMAL POWER TO MINIMIZE THE NEED FOR A PORTABLE GENERATOR. UNDER NO CIRCUMSTANCES WILL THE SITES BE WITHOUT POWER FOR DURATIONS LONGER THAN THOSE STATED ABOVE. ALL OUTAGES SHALL BE COORDINATED WITH THE CITY OF DUBLIN ONE WEEK IN ADVANCE, MINIMUM. THOSE DURATIONS STATED ABOVE MAY BE EXTENDED IF THE OUTAGE IS COORDINATED WITH THE CITY FOR OFF PEAK TIMES BUT THE BASIS OF THIS BID SHOULD BE BASED ON THE STATED OUTAGES. THE TEMPORARY GENERATOR'S DIESEL FUEL SHALL NEVER DROP LESS THAN 24 HOURS BASED ON THE LOAD OF THE SITES SHOWN ABOVE.



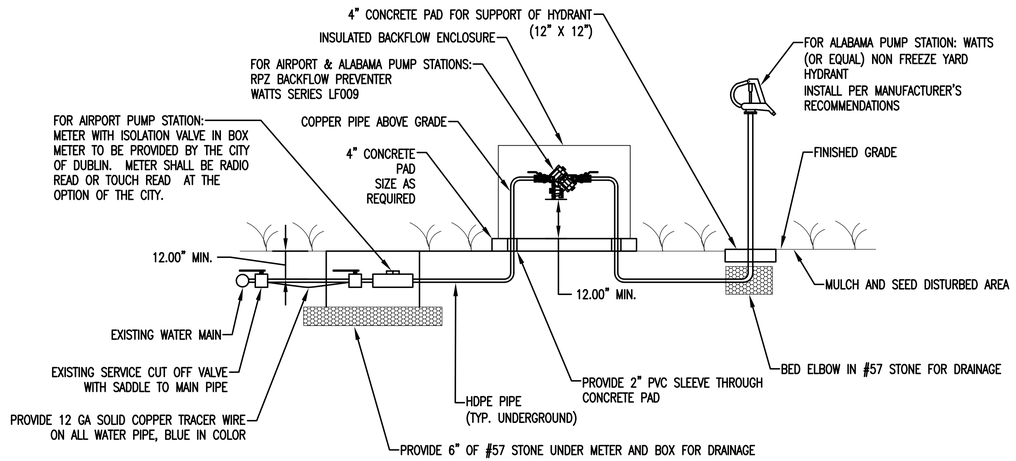
TOP VIEW AT ANCHOR BOLT



NOTES:
(GENERATOR PAD ONLY)

1. CONCRETE SHALL BE 3000 PSI @ 28 DAYS.
2. PAD SHALL EXTEND 36" BEYOND GENERATOR ENCLOSURE ON ALL SIDES.
3. ALL STEEL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
4. COORDINATE WITH GENERATOR VENDOR FOR LOCATION OF CONDUITS.
5. CONCRETE PAD DIMENSIONS SHALL BE APPROVED BY GENERATOR MANUFACTURER.

GENERATOR PAD DETAIL (TYPICAL)
SCALE: NONE



1. BACKFLOW DEVICE SHALL HAVE 24" CLEARANCE IN ALL DIRECTIONS IF MOUNTED NEXT TO AN IMMOVABLE OBJECT.

WATER METER/RPZ BACLFLOW PREVENTER DETAIL
SCALE: NONE

REVISION	ITEM	DATE

GEORGIA REGISTERED NO. 045281 PROFESSIONAL ENGINEER PAUL E. WHITMIRE

SHEET: DETAILS, NOTES, ABBREVIATIONS, AND LEGENDS

TOLAND MIZELL MOLNAR
590 MEANS STREET NW
STE. 200
ATLANTA, GA 30318

PROJECT: FIXED AND PORTABLE GENERATOR INSTALLATIONS

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

SHEET
E0