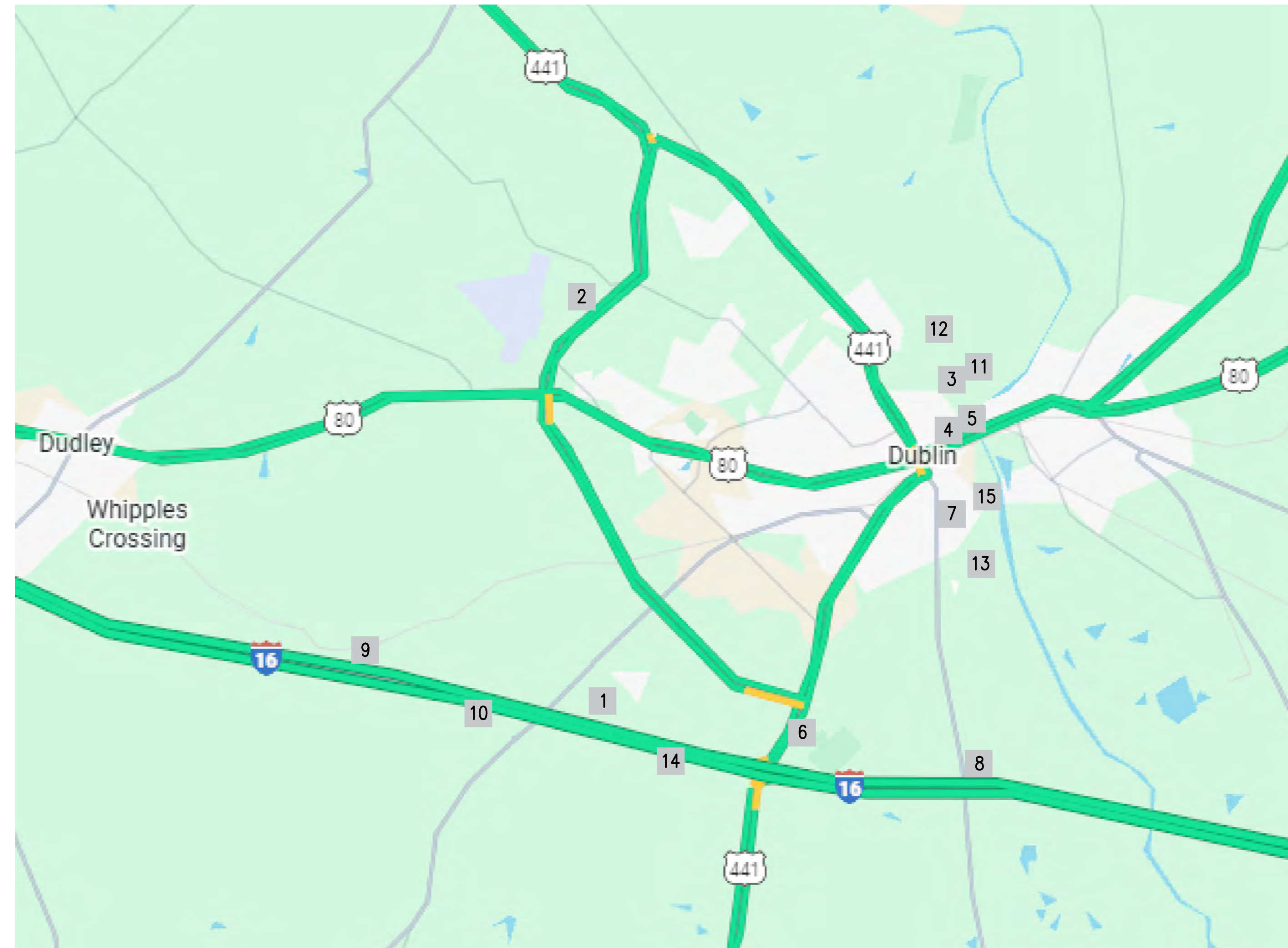


# FIXED AND PORTABLE GENERATOR INSTALLATIONS

DUBLIN, GA

FEMA HAZARD MITIGATION GRANT PROGRAM (HMGP)

FEMA PROJECT NUMBER: HMGP 4400-0025



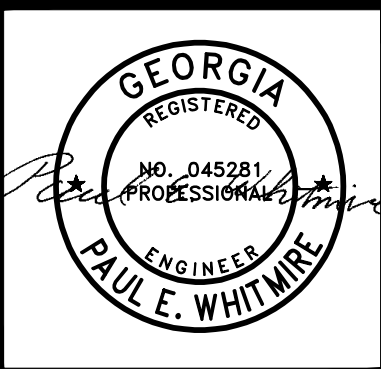
### Index of Locations

MAP ID	PUMP STATION	ADDRESS
1	ACADEMY EXTENSION PUMP STATION	1010 HONEYSUCKLE ROAD
2	AIRPORT PUMP STATION	599 AIRPORT ROAD
3	ALABAMA PUMP STATION	808 ALABAMA STREET
4	EMERGENCY REPLACEMENT WATER WELL	200 TRUXTON STREET
5	EXISTING WATER WELL	EAST MADISON & SOUTH UNION STREET
6	HOLIDAY INN PUMP STATION - PORTABLE GENERATOR	2186 HOLIDAY INN ROAD
7	CARVER STREET PUMP STATION - PORTABLE GENERATOR	1251 CARVER STREET
8	HWY 19 PUMP STATION	1572 HWY 19 SOUTH
9	I-16 WEST BOUND PUMP STATION	12063 I-16
10	LOVES PUMP STATION	63 WALDREP ROAD
11	RAW WATER PUMP STATION	101 PARKER DAIRY ROAD
12	SURFACE WATER TREATMENT PLANT	106 PARKER DAIRY ROAD
13	WASTEWATER TREATMENT PLANT	250 RIVERVIEW DRIVE
14	WEST LAURENS PUMP STATION	297 WEST LAURENS SCHOOL ROAD
15	WASHINGTON STREET PUMP STATION	1106 SOUTH WASHINGTON STREET

### Index of Drawings

DWG NO.	DRAWING TITLE
G0	COVER SHEET
	CIVIL
C1	SITE PLAN - ALABAMA & RAW WATER PUMP STATIONS
	STRUCTURAL
S0	STRUCTURAL DETAILS
S1	SURFACE WATER TREATMENT PLANT STRUCTURAL DETAILS
	ELECTRICAL
E0	DETAILS, NOTES, ABBREVIATIONS, AND LEGENDS
E1	DEMOLITION & NEW WORK PLANS - ACADEMY EXTENSION PUMP STATION
E2	DEMOLITION & NEW WORK PLANS - AIRPORT PUMP STATION
E3	DEMOLITION & NEW WORK PLANS - ALABAMA PUMP STATION
E4	DEMOLITION & NEW WORK PLANS - RAW WATER PUMP STATION
E5	ELECTRICAL SITE PLAN - ALABAMA & RAW WATER PUMP STATIONS
E6	DEMOLITION & NEW WORK PLANS - EMERGENCY REPLACEMENT WATER WELL
E7	DEMOLITION & NEW WORK PLANS - EXISTING WATER WELL
E8	DEMOLITION & NEW WORK PLANS - HOLIDAY INN PUMP STATION
E9	DEMOLITION & NEW WORK PLANS - CARVER STREET PUMP STATION
E10	DEMOLITION & NEW WORK PLANS - HWY 19 PUMP STATION
E11	DEMOLITION & NEW WORK PLANS - I-16 WEST BOUND PUMP STATION
E12	DEMOLITION & NEW WORK PLANS - LOVES PUMP STATION
E13	DEMOLITION & NEW WORK PLANS - SURFACE WATER TREATMENT PLANT
E14	DEMOLITION & NEW WORK PLANS - WASTEWATER TREATMENT PLANT
E15	DEMOLITION & NEW WORK PLANS - WEST LAURENS PUMP STATION
E16	DEMOLITION & NEW WORK PLANS - WASHINGTON STREET PUMP STATION

REVISION	ITEM	DATE



SHEET:  
COVER SHEET

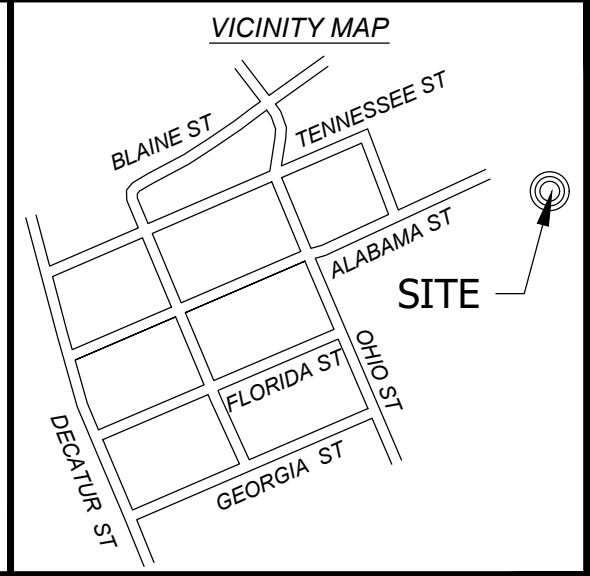
590 MEANS STREET NW  
STE. 200  
ATLANTA, GA 30318  
TOLAND  
MIZELL  
MOLNAR

PROJECT:  
**FIXED AND PORTABLE GENERATOR INSTALLATIONS**

JOB NO: TMM 2507  
DATE: 01-30-26  
DRAWN: FSD  
CHECKED: PEW  
APPROVED: RBP  
SCALE: AS NOTED

SHEET  
G0





**GPS COORDINATES**

LATITUDE: N 32.548031°  
 LONGITUDE: W -82.893684°

**LIDAR INFORMATION**

ALL LIDAR DATA UTILIZED IN THIS PROJECT IS SOURCED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA).

**FLOOD INFORMATION**

SUBJECT PROPERTY IS LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "AE" AS DEFINED BY FIRM PANEL NUMBER 13175C0192C, WITH AN EFFECTIVE DATE OF DEC 17, 2010.

THE BORE IS SITUATED WITHIN A DESIGNATED SPECIAL FLOOD HAZARD AREA, SPECIFICALLY CLASSIFIED AS ZONE "AE".

**GENERAL NOTES**

- 1.) ALL DISTANCES SHOWN ARE IN U.S. SURVEY FEET.
- 2.) ALL AREAS COMPUTED USING COORDINATES FROM MEASURED FIELD DATA.
- 3.) FIELD MEASUREMENTS WERE OBTAINED WITH TOPCON HIPER VR GNSS RECEIVER.
- 4.) THE UNDERGROUND UTILITIES SHOWN ARE A COMPILATION OF FIELD DATA AND CITY MAPS. THE SURVEYOR HAS MADE EVERY EFFORT TO ACCURATELY LOCATE THE UNDERGROUND UTILITIES BUT TAKES NO RESPONSIBILITY FOR THE LOCATION OF ANY UTILITIES SHOWN.



N/F  
 MOMA'S PROPERTIES INC  
 PARCEL ID: D19E 034  
 D.B. 3466, PG. 33  
 (PLAT) D.B. 307, PG. 170

N/F  
 JOEY JACKSON  
 PARCEL ID: D19E 021 C  
 D.B. 2839, PG. 244  
 P.B. 10, PG. 475A

STRUCTURE # 15

N/F  
 ROCHE FAMILY LLC  
 PARCEL ID: D19E 021  
 D.B. 1259, PG. 168  
 P.B. 4, PG. 3

GEORGIA POWER COMPANY EASEMENT  
 POWER LINE EASEMENT

STRUCTURE # 16

APPROXIMATE LOCATION OF NEW ELECTRICAL BOX

APPROXIMATE PROPOSED BORE LOCATION 970 LF

APPROXIMATE LOCATION OF OPEN TRENCH

APPROXIMATE LOCATION OF OPEN TRENCH

RAW WATER PUMP STATION

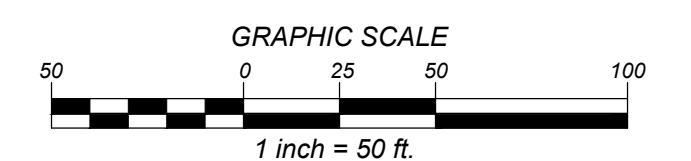
ALABAMA PUMP STATION

OCONEE RIVER

**LEGEND**

- |                             |   |                           |                                 |                    |                |                         |                         |                       |                    |                              |                           |                                 |                          |                  |                  |                    |              |                       |                            |                            |              |            |
|-----------------------------|---|---------------------------|---------------------------------|--------------------|----------------|-------------------------|-------------------------|-----------------------|--------------------|------------------------------|---------------------------|---------------------------------|--------------------------|------------------|------------------|--------------------|--------------|-----------------------|----------------------------|----------------------------|--------------|------------|
| ● IRON PIN FOUND            | ○ IRON PIN SET (1/2" REBAR WITH ORANGE CAP) | ■ CONCRETE MONUMENT FOUND | □ CONCRETE MONUMENT SET         | ▲ CALCULATED POINT | ○ LIGHT POLE   | ⊕ TELEPHONE PEDESTAL    | ⊕ GRATE INLET           | ⊕ GAS VALVE           | ⊕ FIRE HYDRANT     | ⊕ SANITARY SEWER MANHOLE     | ⊕ SANITARY SEWER CLEANOUT | ⊕ GUY WIRE                      | ⊕ WATER VALVE            | ⊕ WATER METER    | ⊕ SIGN           | ⊕ DRAINAGE MANHOLE | ⊕ POWER POLE | ⊕ SHRUB               | ⊕ TREE                     | ⊕ DETECTABLE WARNING       |              |            |
| — APPROXIMATE BORE LOCATION | - - - ADJOINER LINE                         | - - - RIGHT-OF-WAY        | - - - APPROXIMATE LAND LOT LINE | - - - FENCE        | - - - TIE LINE | - - - 255 MAJOR CONTOUR | - - - 252 MINOR CONTOUR | - - - CURB AND GUTTER | - - - W WATER LINE | - - - SS SANITARY SEWER LINE | - - - GAS GAS LINE        | - - - TEL UNDERGROUND TELEPHONE | - - - OHP OVERHEAD POWER | - - - STORM PIPE | D.B. = DEED BOOK | P.B. = PLAT BOOK   | PG. = PAGE   | N/F = NOW OR FORMERLY | P.O.B = POINT OF BEGINNING | P.O.R = POINT OF REFERENCE | M = MEASURED | R = RECORD |

FOR REFERENCE, SEE SHEET E5



NO.	REVISIONS	BY	DATE

**CE** CHRISTIAN & ELLINGTON  
 ENGINEERING | LAND SURVEYING  
 709 BELLEVUE AVENUE  
 DUBLIN, GEORGIA 31021  
 (478) 272-3013  
 L.S. FIRM NO. 1340

FIXED AND PORTABLE GENERATOR INSTALLATIONS  
 LAND LOT 239 & 260, 1ST LAND DISTRICT, 342 G.M.D.  
 ALABAMA STREET  
 DUBLIN, LAURENS COUNTY, GEORGIA  
 SITE PLAN - ALABAMA AND RAW WATER PUMP STATION

DRAWN BY: BTE  
 SCALE: 1"=50'  
 DATE OF FIELD WORK: 10-23-2025  
 DATE OF PLAT: 11-05-2025

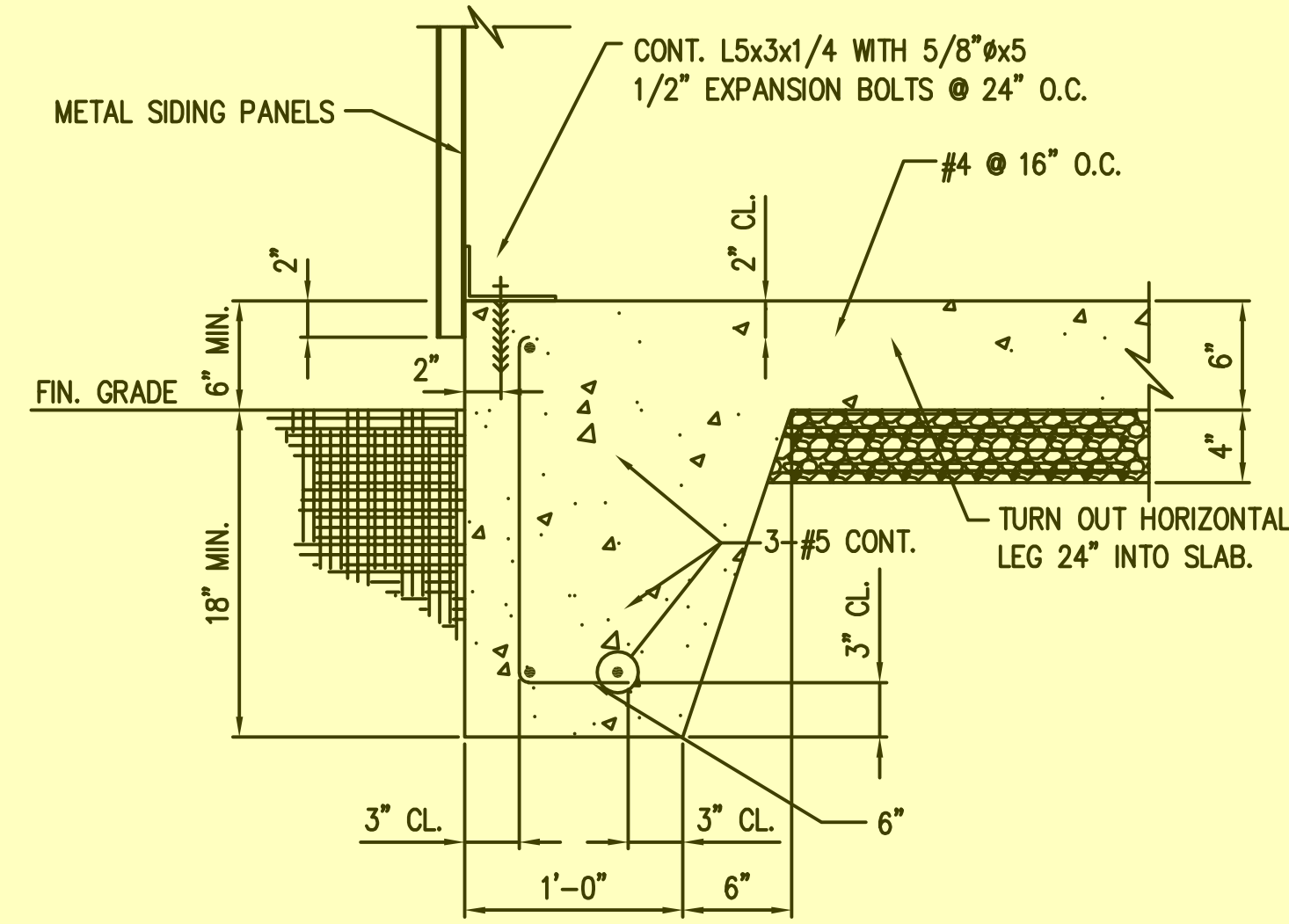
**C1**  
 SHEET:

**REINFORCED CONCRETE GENERAL NOTES**

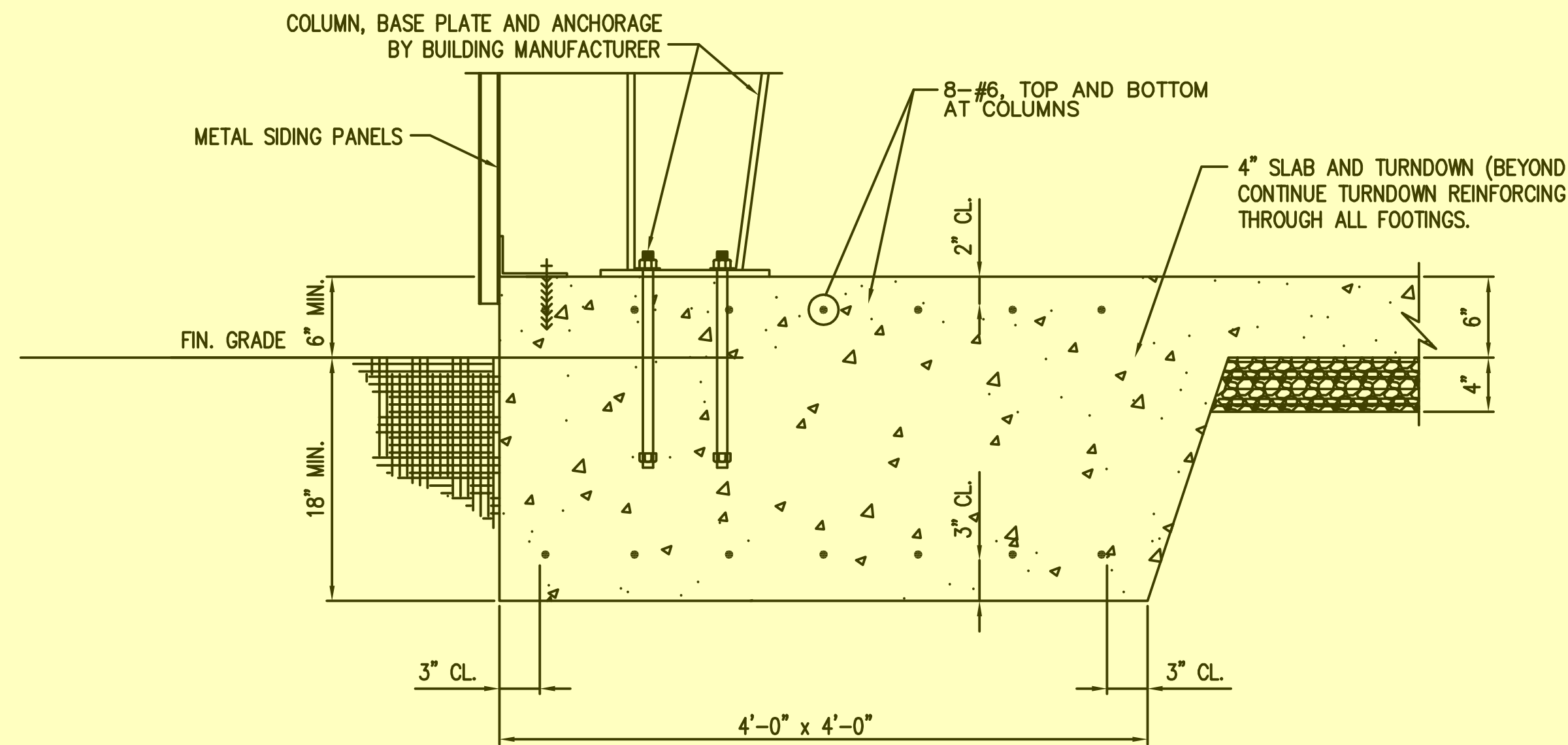
- 1) ALL CONCRETE WORK SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". DESIGN IS BASED ON ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
- 2) CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- 3) SUBMIT CONCRETE MIX DESIGNS FOR REVIEW, IN ACCORDANCE WITH ACI 318 TO THE ARCHITECT AND TESTING AGENCY.
- 4) THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.
- 5) USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
- 6) THE AIR CONTENT AT THE POINT OF PLACEMENT SHALL BE PER ACI 318 TABLE 19.3.2.1 FOR THE APPROPRIATE EXPOSURE CATEGORY. HARD-TROWELED SLABS OR SLABS ON GRADE THAT WILL RECEIVE TOPPING SHALL NOT RECEIVE AIR ENTRAINMENT UNLESS PERMITTED BY TOPPING MANUFACTURER.
- 7) THE TESTING AGENCY SHALL SAMPLE AND TEST EACH 100 CU. YARDS OR FRACTION THEREOF OF EACH CLASS OF CONCRETE PLACED EACH DAY. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD:
  - SLUMP: ASTM C143
  - AIR CONTENT: ASTM C231 (NORMAL WEIGHT CONCRETE); ASTM C173 (LIGHT WEIGHT CONCRETE)
  - COMPRESSIVE STRENGTH: ASTM C39, WITH ONE CYLINDER AT 7 DAYS, TWO CYLINDERS AT 28 DAYS, AND ONE SPECIMEN HELD IN RESERVE.
  - CONCRETE TEMPERATURE: ASTM C1064
  - UNIT WEIGHT: ASTM C567
- 8) MOIST CURE CONCRETE WITH MOISTURE PROTECTIVE COVER FOR A MINIMUM OF 7 DAYS. CURING COMPOUNDS ARE PERMITTED IF COMPATIBLE WITH ANY PLANNED FLOOR FINISHES.
- 9) HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS, CLEANED, AND CAULKED.
- 10) REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- 11) WELDED WIRE REINFORCING (W.W.R.) SHALL BE PLAIN WIRE CONFORMING TO ASTM A1064 AND SHALL BE PROVIDED IN FLAT SHEETS. LAP MESH AT LEAST ONE MESH SPACING AT SPLICES.
- 12) TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.
- 13) REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:
  - CONCRETE CAST AGAINST EARTH (NOT FORMED): 3"
  - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS THROUGH #12 BARS 2"; #5 BARS AND SMALLER 1 1/2"
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS AND WALLS 1"
- 14) TYPICAL FLOOR SLAB ON GRADE: 6" FIBER REINFORCED CONCRETE ON 10MIL. VAPOR BARRIER & 4" GRAVEL.
- 15) DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

**SOIL PARAMETERS**

- 1) FOOTINGS ARE DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2500 POUNDS PER SQUARE FOOT. CONTRACTOR SHALL PROVIDE SOIL TESTING TO CONFIRM SOIL BEARING PRESSURE. RESULTS SHALL BE SUBMITTED TO CITY OF DUBLIN.
- 2) IF SITE CONDITIONS DIFFER FROM THOSE INDICATED, THE DESIGN PROFESSIONAL SHALL BE NOTIFIED IMMEDIATELY.
- 3) ALL FOUNDATION WORK SHALL BE DONE "IN THE DRY".

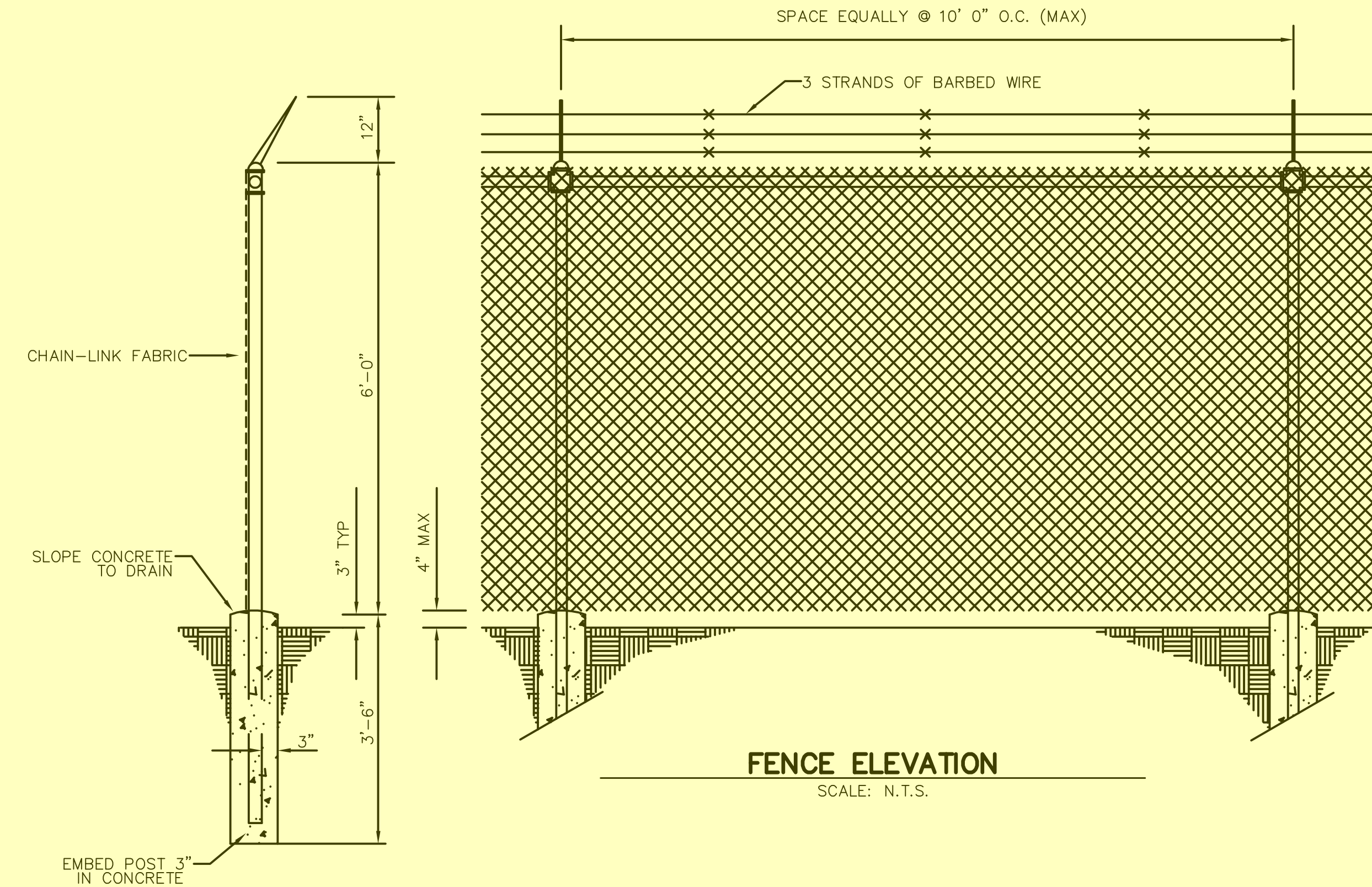


**TYPICAL EDGE OF SLAB TURNDOWN**  
SCALE: N.T.S.



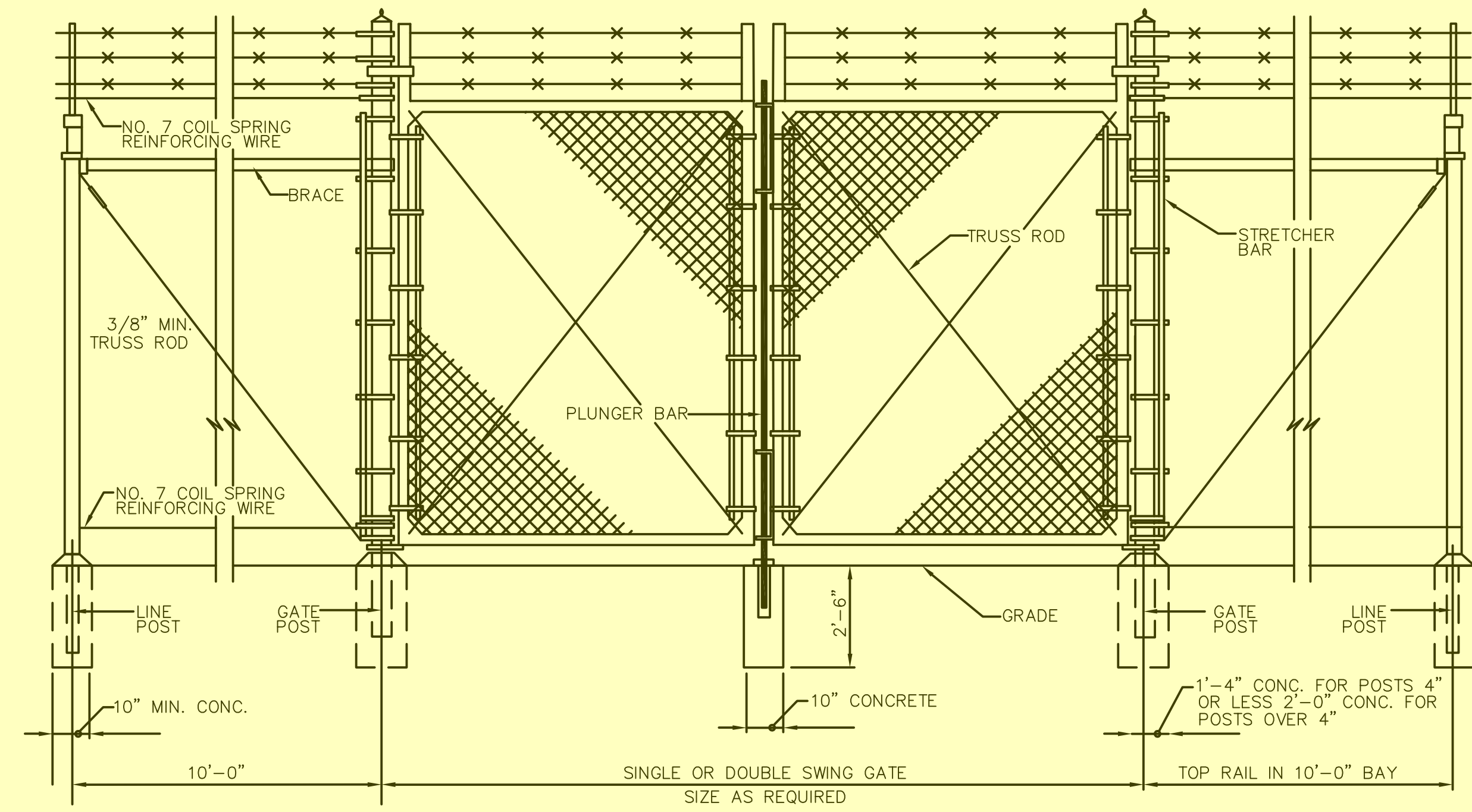
**TYPICAL COLUMN FOOTING**  
SCALE: N.T.S.

**EXISTING WATER WELL SLAB DETAILS & NOTES**



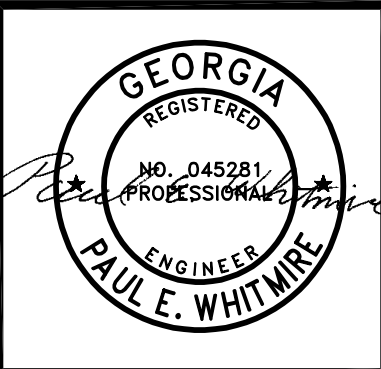
**FENCE ELEVATION**  
SCALE: N.T.S.

**3 STRAND BARBED WIRE FENCE DETAIL & NOTES**



**GATE ELEVATION**  
SCALE: N.T.S.

DATE	
ITEM	
REVISION	



STRUCTURAL DETAILS

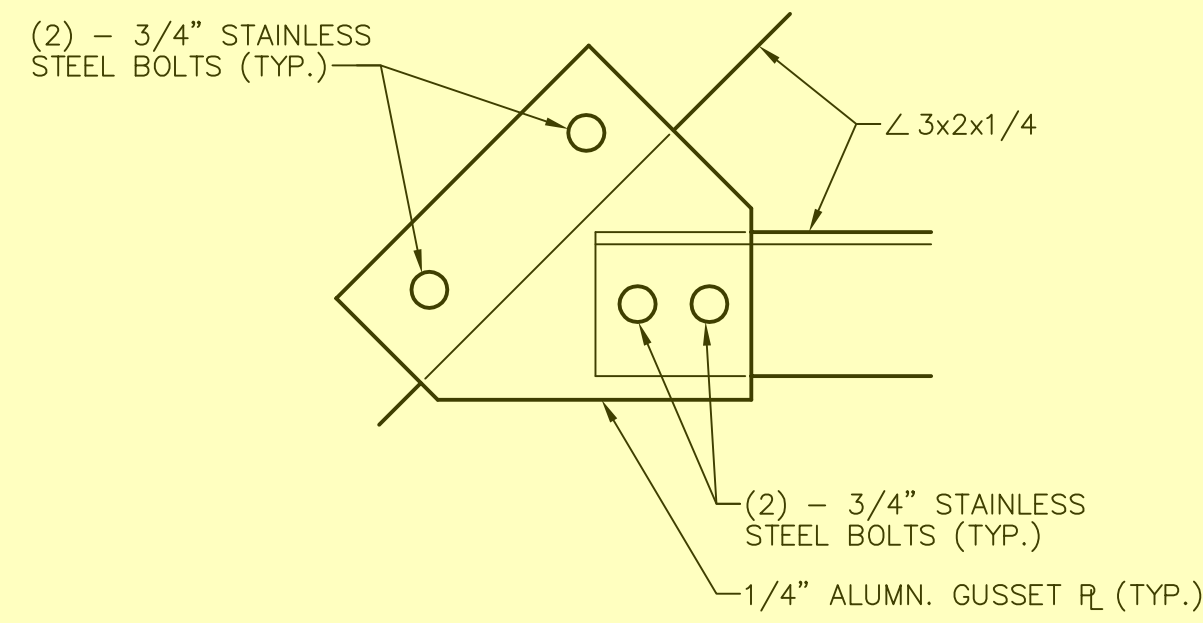
590 MEANS STREET NW  
STE. 200  
ATLANTA, GA 30318

**TOLAND MIZELL MOLNAR**

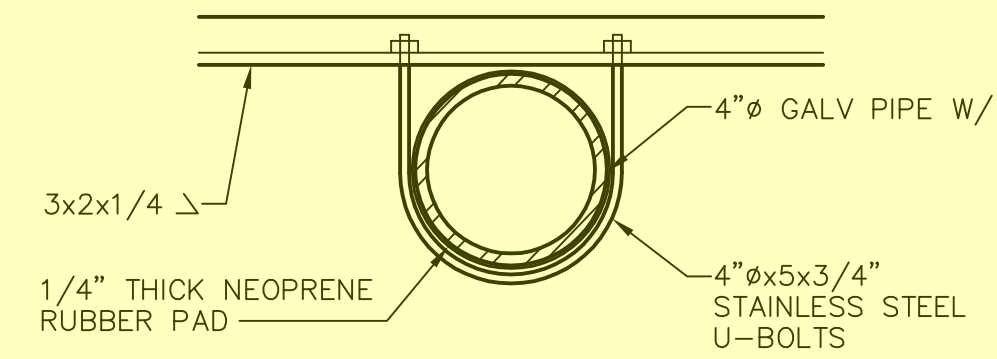
**FIXED AND PORTABLE GENERATOR INSTALLATIONS**

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

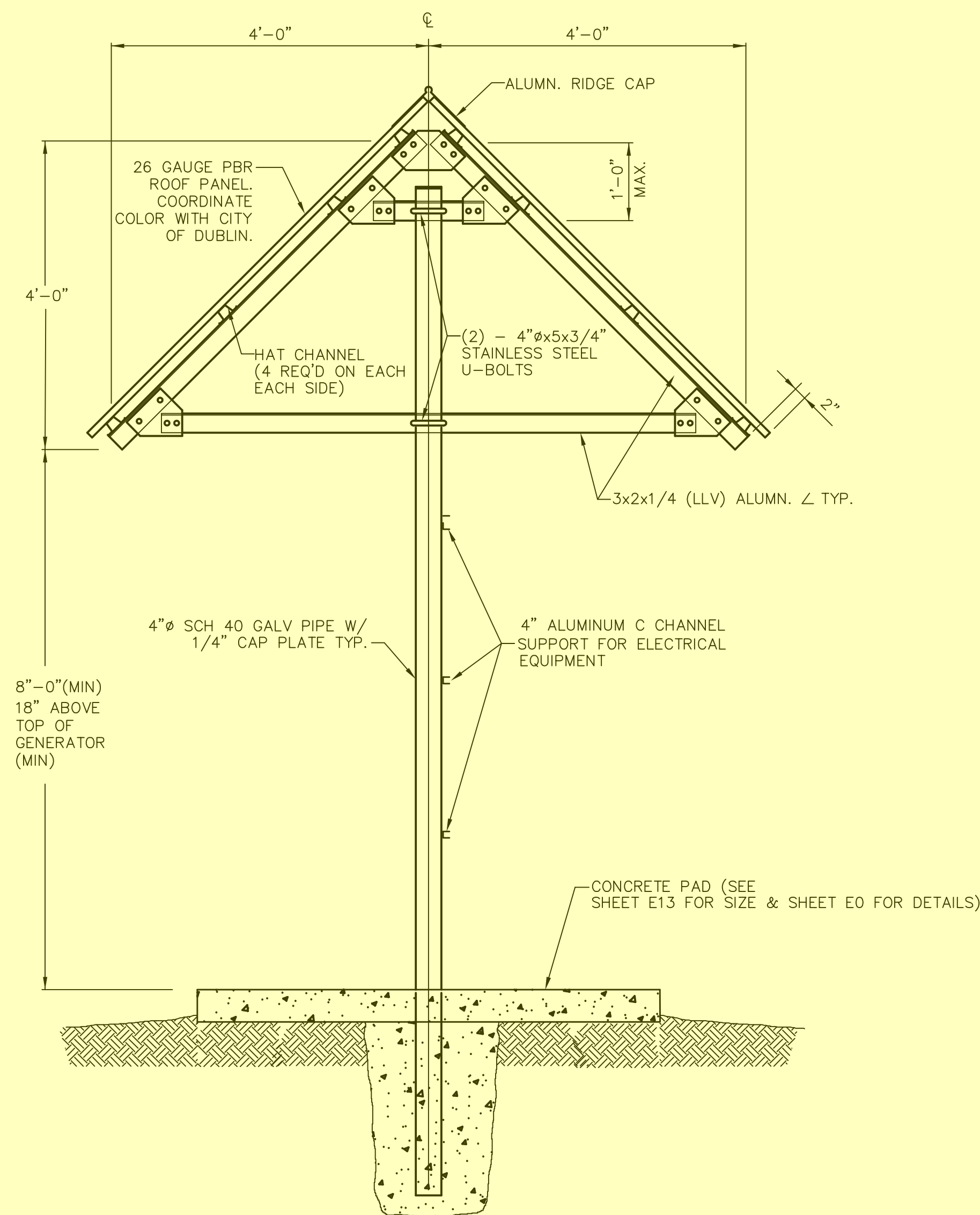
SHEET  
**50**



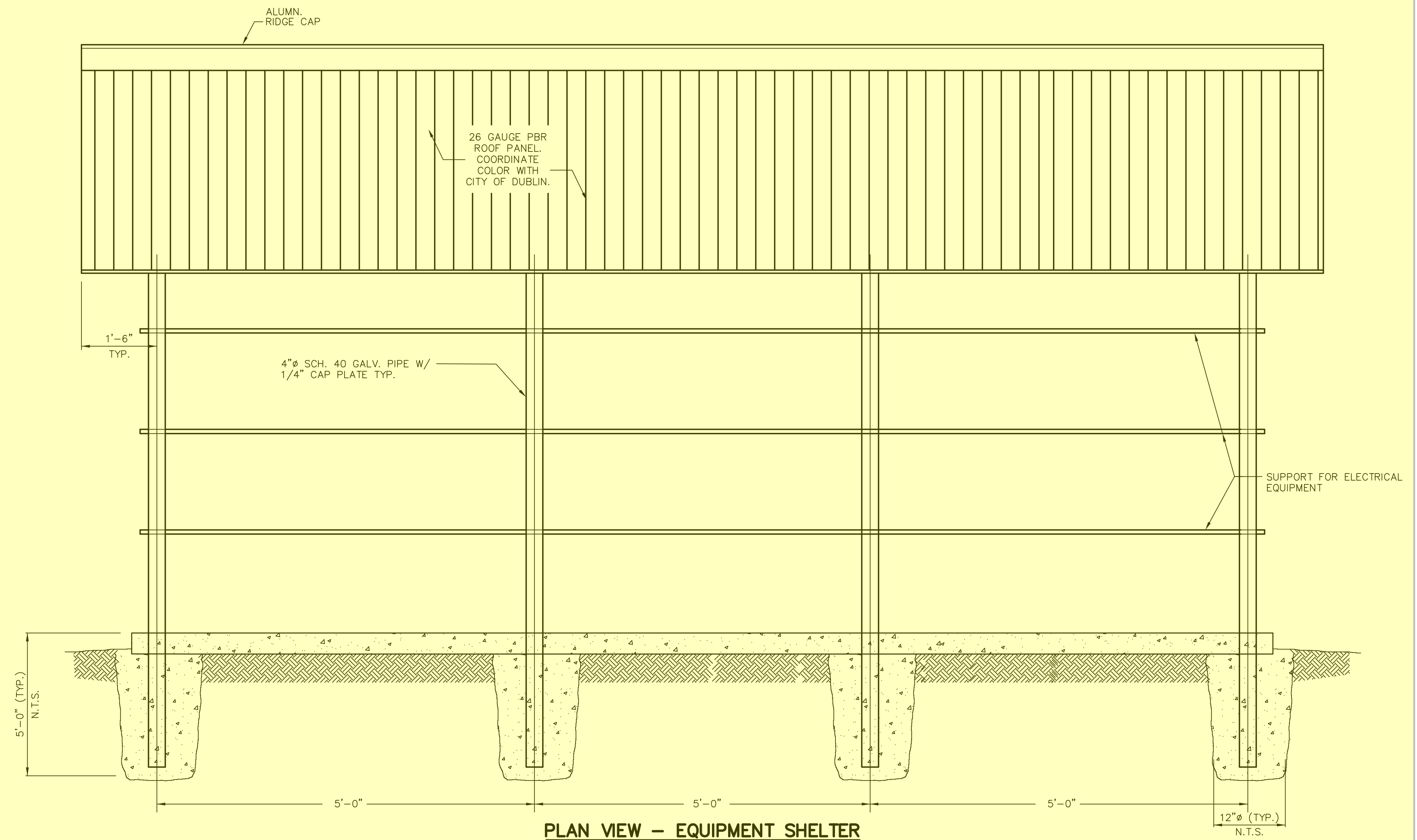
**GUSSET PL. DETAIL**  
N.T.S.



**TYPICAL CONNECTION DETAIL @ POST**  
SCALE: N.T.S.

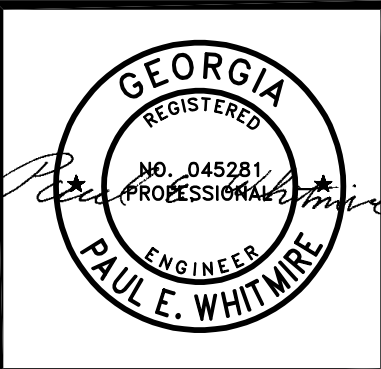


**SIDE ELEVATION - EQUIPMENT SHELTER**  
SCALE: N.T.S.



**PLAN VIEW - EQUIPMENT SHELTER**  
SCALE: N.T.S.

REVISION	ITEM	DATE



**SURFACE WATER TREATMENT PLANT CANOPY STRUCTURAL DETAILS**

590 MEANS STREET NW  
STE. 200  
ATLANTA, GA 30318

**TOLAND MIZELL MOLNAR**

**FIXED AND PORTABLE GENERATOR INSTALLATIONS**

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

SHEET  
**S1**

**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
	GENERATOR
	HOMERUN
	CIRCUIT BREAKER
	LIGHT SWITCH (WP=WEATHERPROOF)
	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**

- 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.
- NEW GENERATOR CONCRETE PADS SHALL NOT BE INSTALLED OVER EXISTING UTILITIES.
- MULCH AND SEED ALL DISTURBED SOIL AREAS.
- SITES WHICH INCLUDE FENCING MODIFICATIONS SHALL BE LEFT SECURE AT ALL TIMES WHEN THE CONTRACTOR IS NOT PRESENT.
- CITY OF DUBLIN IS PROVIDING ALL WORK ASSOCIATED WITH THE NATURAL GAS TO THE NATURAL GAS GENERATORS.
- 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**

- THE INTENT OF THIS PROJECT IS TO PROVIDE GENERATOR STANDBY POWER FOR THE FOLLOWING SITES:
  - ACADEMY AVENUE PUMP STATION
  - AIRPORT PUMP STATION
  - ALABAMA PUMP STATION
  - RAW WATER PUMP STATION
  - EMERGENCY REPLACEMENT WATER WELL
  - EXISTING WATER WELL
  - HOLIDAY INN PUMP STATION
  - CARVER STREET PUMP STATION
  - HIGHWAY 19 PUMP STATION
  - I-16 WEST BOUND PUMP STATION
  - LOVE'S PUMP STATION
  - SURFACE WATER PUMP STATION
  - WASTEWATER TREATMENT PLANT
  - WEST LAURENS PUMP STATION
  - 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.
- THE PROJECT INCLUDES INSTALLATION AND STARTUP FOR A COMPLETE AND OPERABLE SYSTEM.
- CITY OF DUBLIN IS RESPONSIBLE FOR FINAL CONNECTIONS AND MODIFICATIONS TO EXISTING SCADA SYSTEMS.

**ABBREVIATIONS**

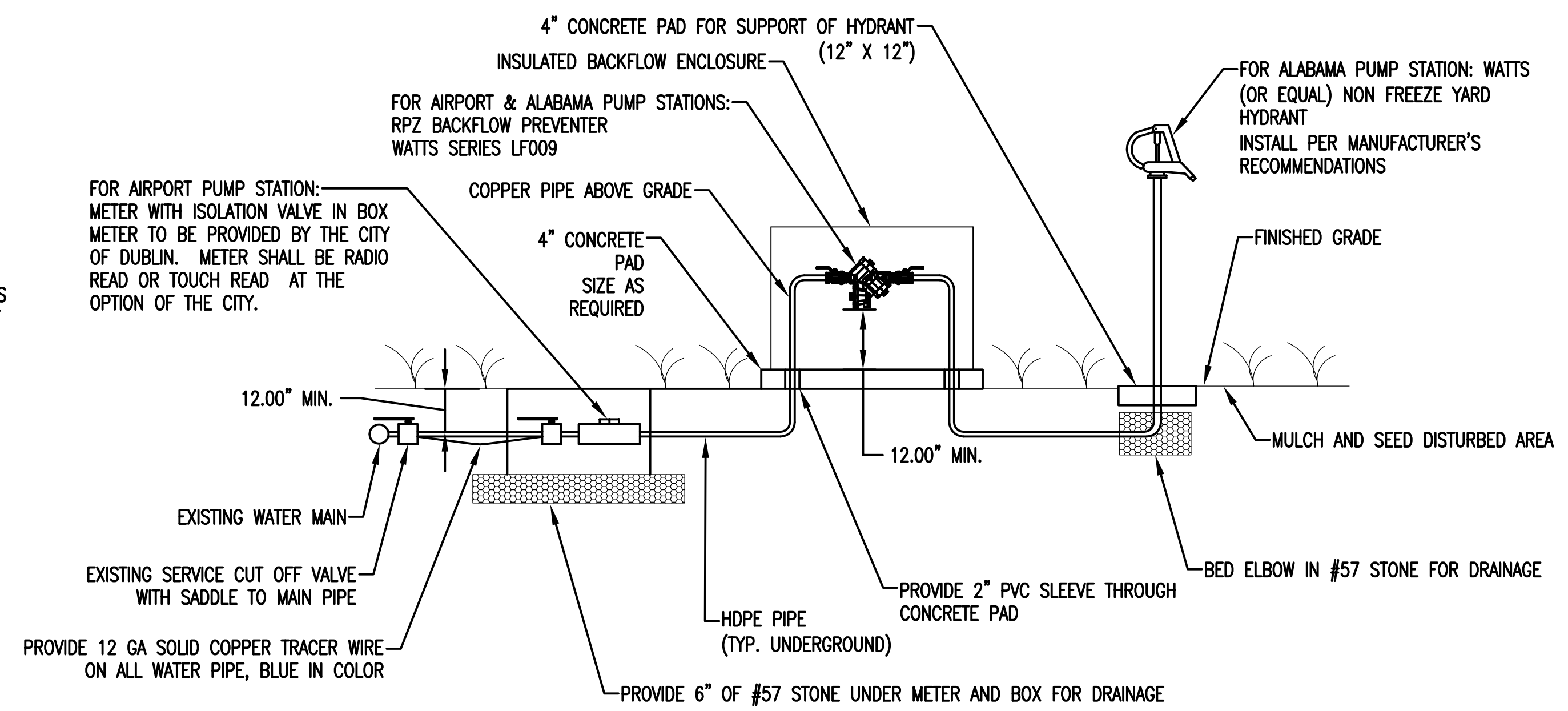
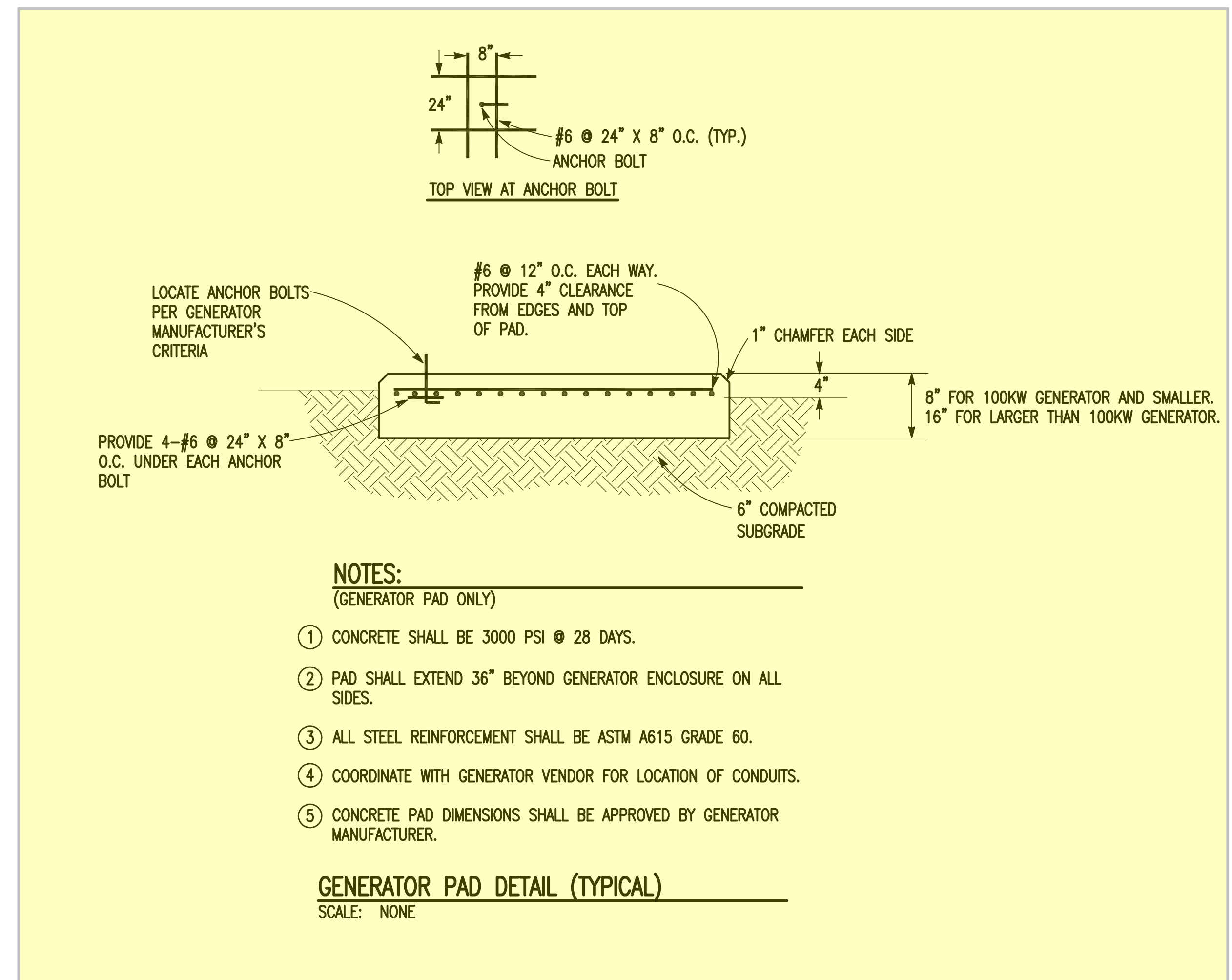
A	AMPERE	NEU	NEUTRAL
ATS	AUTOMATIC TRANSFER SWITCH	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	P	POLE
BLDG	BUILDING	PH	PHASE
C	CONDUIT	PNL	PANEL
CB	CIRCUIT BREAKER	QTY	QUANTITY
CKT	CIRCUIT	RE	RELOCATE
DWG	DRAWING	REQ'D	REQUIRED
ECB	ENCLOSED CIRCUIT BREAKER	S/N	SOLID NEUTRAL
EMT	ELECTRICAL METALLIC TUBING	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
FLA	FULL LOAD AMPS	SW	SWITCH
FM	FORCE MAIN	SS	SANITARY SEWER
GFI	GROUND FAULT INTERRUPTER	TEL	TELEPHONE
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
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**

- 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.
- 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	44 KW
	4 HOURS FOR THE ADJACENT GROUND WATER PLANT	
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.



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

**WATER METER/RPZ BACKFLOW PREVENTER DETAIL**

SCALE: NONE

DATE	
ITEM	
REVISION	
DETAILS, NOTES, ABBREVIATIONS, AND LEGENDS	
SHEET:	
580 MEANS STREET NW STE. 200 ATLANTA, GA 30318 	
<b>FIXED AND PORTABLE GENERATOR INSTALLATIONS</b>	
PROJECT:	
JOB NO:	TMM 2507
DATE:	02-06-26
DRAWN:	FSD
CHECKED:	PEW
APPROVED:	RBP
SCALE:	AS NOTED
SHEET	
EO	











N/F  
MOMA'S PROPERTIES INC  
PARCEL ID: D19E 034  
D.B. 3466, PG. 33

(PLAT) D.B. 307, PG. 170

N/F  
JOEY JACKSON  
PARCEL ID: D19E 021 C  
D.B. 2839, PG. 244  
P.B. 10, PG. 475A

N/F  
ROCHE FAMILY LLC  
PARCEL ID: D19E 021  
D.B. 1239, PG. 168  
P.B. 4, PG. 3

GEORGIA POWER COMPANY EASEMENT  
POWER LINE EASEMENT

ALABAMA  
PUMP STATION

RAW WATER  
PUMP STATION

OCONEE RIVER

**NOTES:**  
(THIS SHEET ONLY)

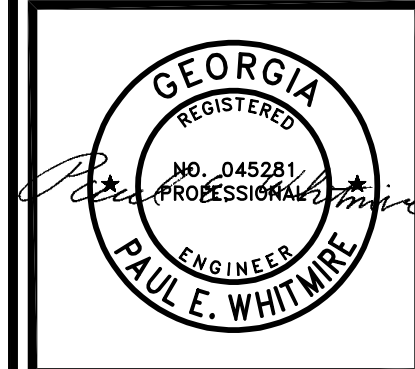
- APPROXIMATE LOCATION OF PROPOSED DIRECTIONAL BORE FOR FEEDER AND START/STOP SIGNAL FROM RAW WATER PUMP STATION TO GENERATOR AT ALABAMA PUMP STATION. BORE SHALL BE INSTALLED ON EDGE OF GEORGIA POWER COMPANY (GPC) DISTRIBUTION EASEMENT AND ACROSS TRANSMISSION LINE AS INDICATED. CONTRACTOR SHALL FLAG PROPOSED ROUTE AND ARRANGE MEETING WITH GPC, CITY OF DUBLIN AND TOLAND MIZELL MOLNAR (TMM) FOR APPROVAL BEFORE BEGINNING WORK. GPC CONTACTS ARE MATT BOWEN (DISTRIBUTION) 478-208-8907 AND BRAD WRIGHT (TRANSMISSION) 706-814-8684. BORE SHALL CONSIST OF (3) 5" AND (1) 2" SDR 11 CONDUITS 4' DEEP MINIMUM. SEE SHEET E3 AND E4 FOR CONDUCTORS AND ADDITIONAL NOTES. CONTRACTOR SHALL COORDINATE WITH CONDUCTOR MANUFACTURER AND PROVIDE PULLING CALCULATIONS WITH SUBMITTALS TO ENSURE MANUFACTURER'S RECOMMENDATIONS ARE NOT EXCEEDED BEFORE BEGINNING ANY WORK.
- NEW CONCRETE PRECAST ELECTRICAL VAULT. OLDCASTLE 676-LA OR EQUAL. APPROXIMATE DIMENSIONS ARE 5'W X 7'L X 6'D. PROVIDE VAULT WITH SPRING ASSISTED LOCKING GALVANIZED DIAMOND PLATE STEEL DOOR, PULLING IRONS AND 12" SUMP. PROVIDE A MINIMUM OF 10' SLACK CONDUCTORS IN VAULT.
- OPEN TRENCH SECTION OF FEEDER AND START/STOP SIGNAL.
- NEW GENERATOR.

**ELECTRICAL SITE PLAN - ALABAMA & RAW WATER PUMP STATIONS**

SCALE: 1" = 50'-0"

SEE SHEET C1 FOR  
SURVEYED SITE PLAN

REVISION	ITEM	DATE



SHEET:  
**ELECTRICAL SITE PLAN -  
ALABAMA & RAW WATER  
PUMP STATIONS**

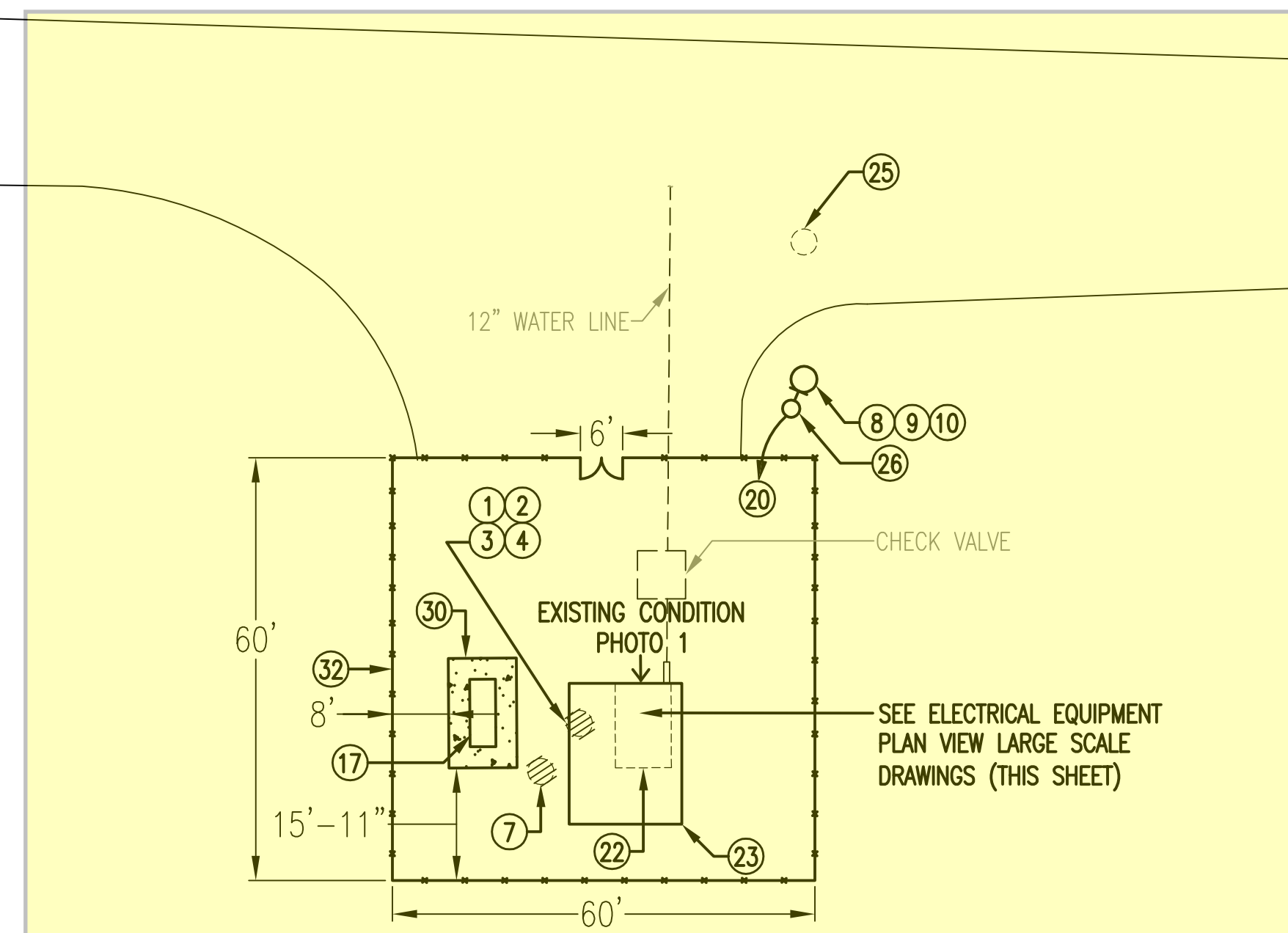
590 MEANS STREET NW  
STE. 200  
ATLANTA, GA 30318  
**TOLAND  
MIZELL  
MOLNAR**

PROJECT:  
**FIXED AND PORTABLE  
GENERATOR  
INSTALLATIONS**

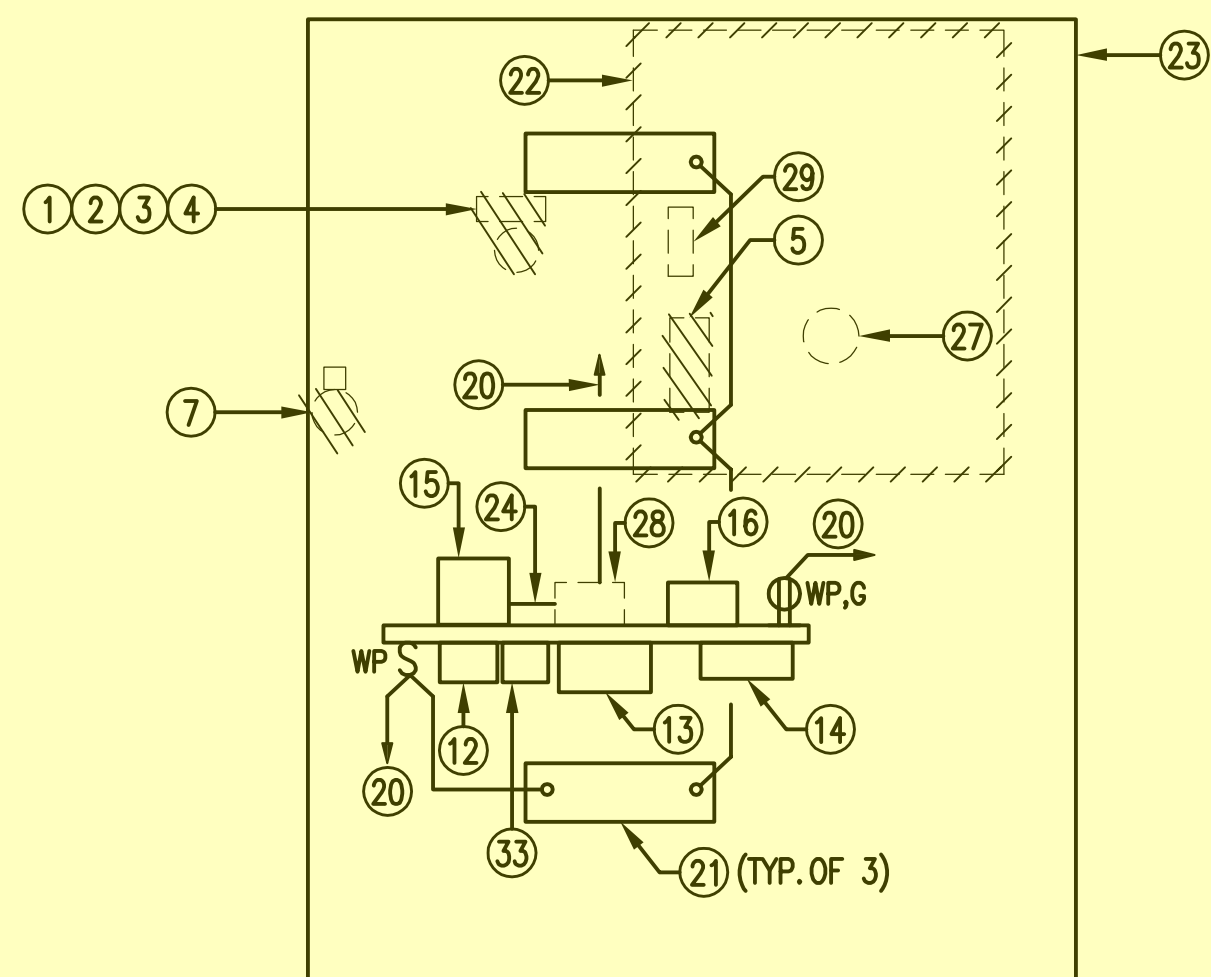
JOB NO: TMM 2507  
DATE: 02-06-26  
DRAWN: FSD  
CHECKED: PEW  
APPROVED: RBP  
SCALE: AS NOTED

SHEET  
**E5**

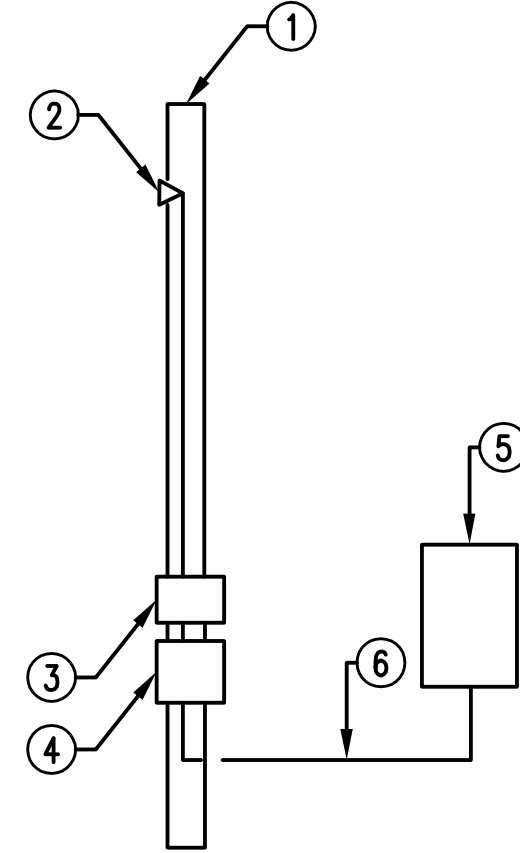




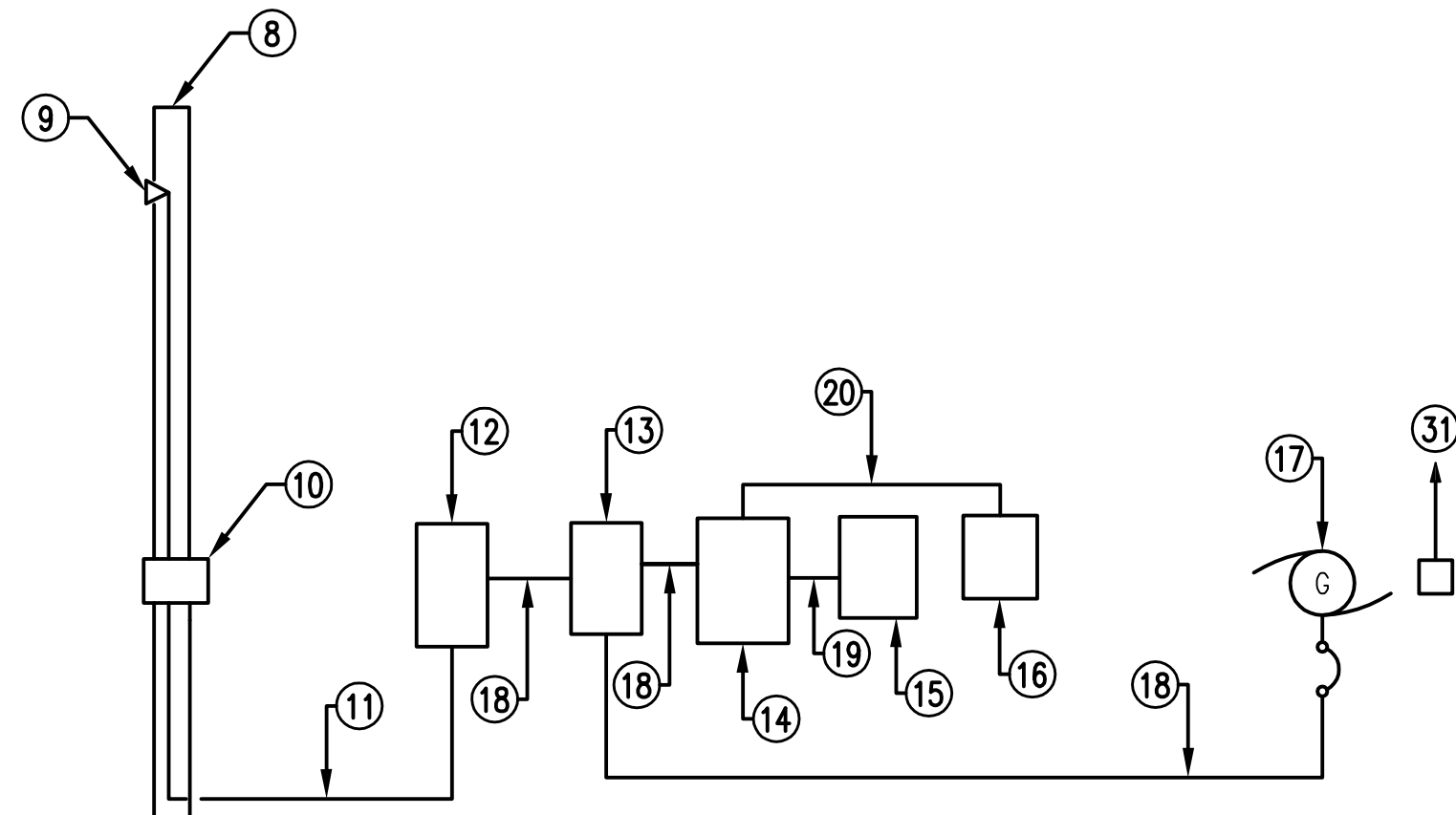
**DEMOLITION & NEW WORK SITE PLAN**  
SCALE: 1" = 20'



**DEMOLITION & NEW WORK ELECTRICAL EQUIPMENT PLAN VIEW**  
SCALE: 1/4" = 1'



**DEMOLITION ELECTRICAL RISER**  
SCALE: NONE



**NEW WORK ELECTRICAL RISER**  
SCALE: NONE



**EXISTING CONDITION PHOTO 1**  
SCALE: NONE

- NOTES:**  
(THIS SHEET ONLY)
- EXISTING WOOD POLE TO BE REMOVED.
  - EXISTING WEATHERHEAD AND SERVICE MAST TO BE REMOVED.
  - EXISTING POWER COMPANY METER TO BE REMOVED.
  - EXISTING 240V, 100A FUSED SERVICE DISCONNECT TO BE REMOVED.
  - EXISTING 30 HP WELL STARTER TO BE REMOVED.
  - EXISTING 4#2, #8G; 1-1/2" C. TO BE REMOVED.
  - EXISTING WOOD POLE TO BE REMOVED AND EXISTING WELL CONTROL ANTENNA TO BE RELOCATED.
  - NEW 30' CLASS 2 WOOD POLE.
  - NEW WEATHERHEAD WITH 4#2; 1-1/2" C. SERVICE MAST.
  - NEW POWER COMPANY METER TO BE INSTALLED BY THE CONTRACTOR.
  - NEW 4#2; 1-1/2" C. UNDERGROUND.
  - NEW 480V, 100A ENCLOSED CIRCUIT BREAKER SERVICE DISCONNECT IN NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE #6 GROUNDING CONDUCTOR TO (3) 3/4" DIAMETER X 10' GROUND RODS NOT LESS THAN 10' APART.
  - NEW 480V, 100A AUTOMATIC TRANSFER SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE 3/4" C. AND CONDUCTORS AS REQUIRED FOR START/STOP SIGNAL TO GENERATOR.
  - NEW 480Y/277V, 100A MAIN BREAKER PANEL IN NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE ONE 80A/3P BREAKER FOR WELL, ONE 20A/2P BREAKER FOR MINI POWER ZONE, ONE 20A/3P BREAKER SPARE AND TWO 20A/1P BREAKERS SPARE.
  - NEW NEMA SIZE 3 SOFT STARTER IN NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE 3#8, #10G; 1" C. TO EXISTING WELL MOTOR.
  - NEW 7-1/2 KVA, 480-240/120V MINI-POWER ZONE WITH MAIN BREAKER IN NEMA 3R ENCLOSURE. PROVIDE WITH ONE 20A/1P BREAKER FOR LIGHTS, ONE 20A/1P BREAKER FOR POLE LIGHT, ONE 20A/1P BREAKER FOR RECEPTACLE, ONE 20A/1P BREAKER FOR SCADA PANEL, ONE 20A/1P BREAKER FOR GENERATOR BATTERY CHARGER, AND THREE 20A/1P BREAKERS SPARE.
  - 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.
  - NEW 4#2, #8G; 1-1/2" C.
  - NEW 3#4, #8G; 1" C.
  - NEW 2#12, #12G; 1/2" C. TO MINI-POWER ZONE.
  - NEW LITHONIA CSVT L48 5000LM MVOLT 40K 80CRI LIGHT FIXTURE.
  - OUTLINE OF EXISTING METAL SHED TO BE REMOVED. EXISTING CONCRETE SLAB TO BE REMOVED.
  - NEW 16'X20'X10' EAVE HEIGHT PRE-ENGINEERED METAL BUILDING WITH 1:12 ROOF. PROVIDE A 36"X36" ROOF HATCH ABOVE EXISTING WELL FOR REPLACEMENT ACCESS. HATCH SHALL BE WILLIAMS BROTHERS WB RH OR EQUAL. PROVIDE 6" CONCRETE SLAB FOR BUILDING. SEE DETAILS SHEET SO. PROVIDE 4" OF GRAVEL AROUND ALL SIDES OF BUILDING OUT 6". PROVIDE 8" DEEP SWALE IN FRONT AND ON SIDES FOR DRAINAGE.
  - NEW CONTROL CONDUCTORS AND CONDUIT AS REQUIRED.
  - EXISTING POWER COMPANY POLE AND 240V, 3-PHASE TRANSFORMER BANK. COORDINATE WITH POWER COMPANY TO CHANGE OUT POLE MOUNTED TRANSFORMERS FOR 480Y/277V, 3-PHASE SERVICE.
  - NEW LITHONIA ESXF1 ALO SSW2 KY DDB MOUNTED ON NEW WOOD POLE AT 15'.
  - EXISTING 30 HP WELL MOTOR AND PUMP TO REMAIN. CHANGE MOTOR TERMINALS FOR 480V.
  - RELOCATED ON/OFF CONTROL. PROVIDE 3/4" C. AND CONDUCTORS AS REQUIRED TO CONNECT ON/OFF CONTROL TO WELL STARTER HOA SWITCH.
  - EXISTING ON/OFF WELL CONTROL TO BE RELOCATED. RELOCATE ANTENNA TO NEW BUILDING STRUCTURE.
  - NEW CONCRETE GENERATOR PAD, SEE DETAIL SHEET ED.
  - NEW 2#12, #12; 3/4" C. TO MINI-POWER ZONE FOR GENERATOR BATTERY CHARGER.
  - NEW 6' HIGH CHAIN LINK FENCE WITH 3 STRANDS BARBED WIRE. SEE DETAIL ON SHEET SO.
  - NEW SURGE SUPPRESSOR. PROVIDE CONDUCTORS AND CONDUIT AS RECOMMENDED BY MANUFACTURER AND CONNECT TO SERVICE DISCONNECT.

REVISION	DATE



PROJECT: **DEMOLITION & NEW WORK PLANS - EXISTING WATER WELL**

580 MEANS STREET NW  
STE. 200  
ATLANTA, GA 30318

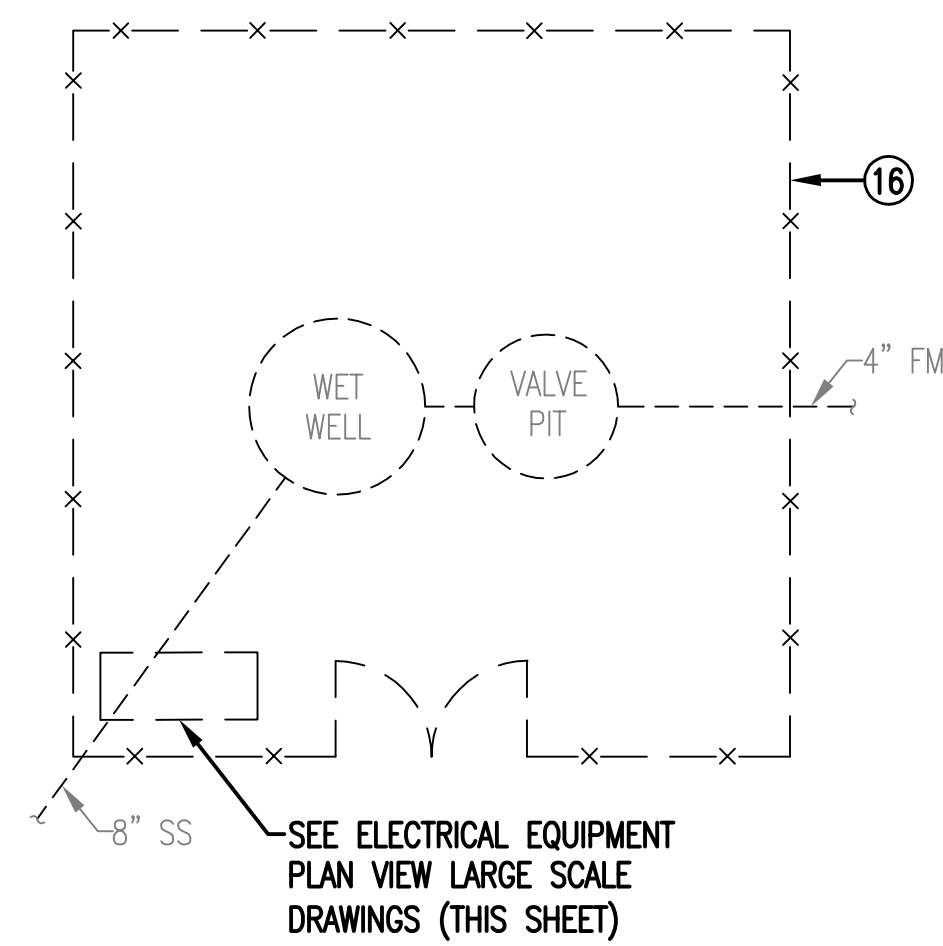
**TOLAND MIZELL MOLNAR**

PROJECT: **FIXED AND PORTABLE GENERATOR INSTALLATIONS**

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

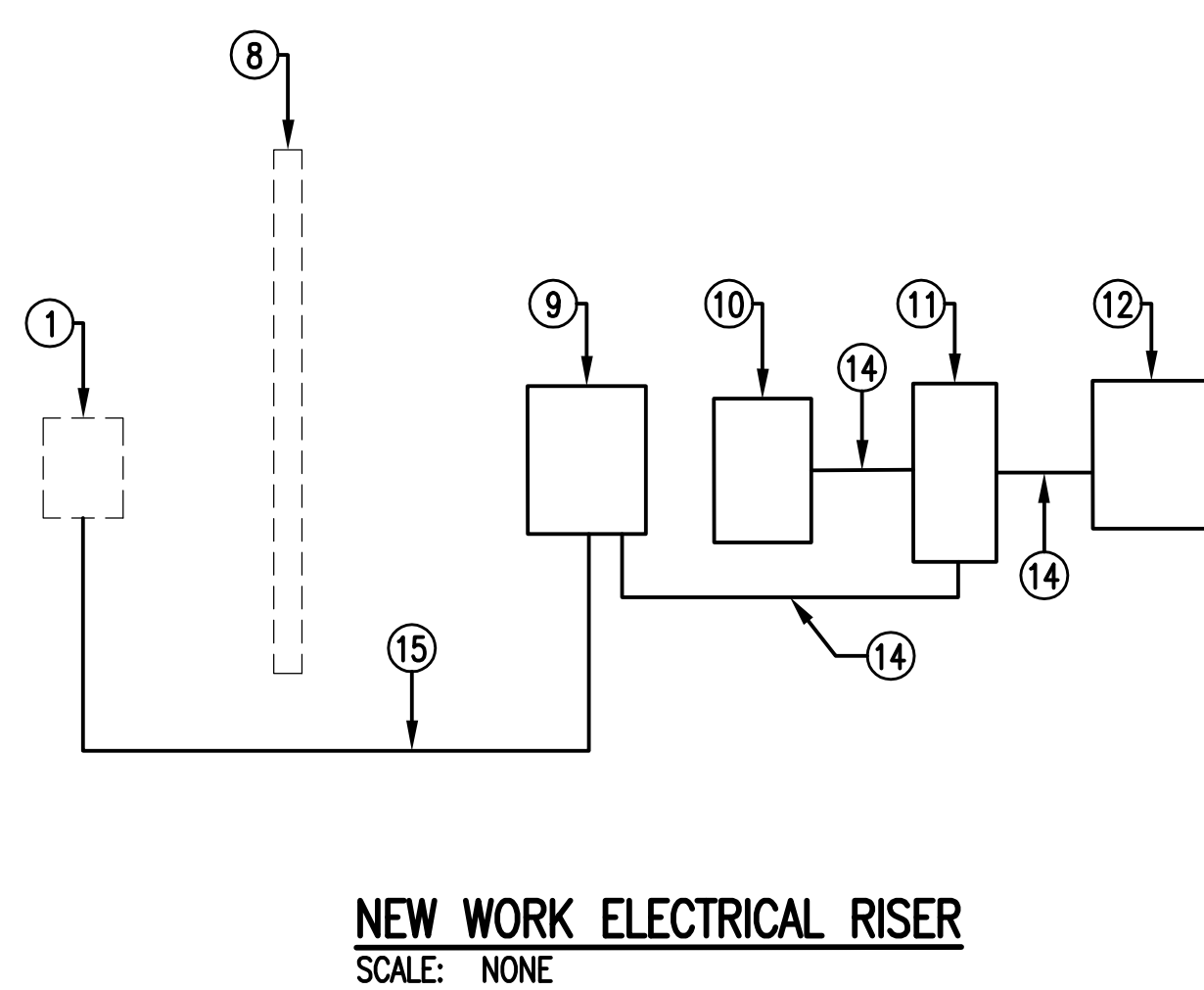
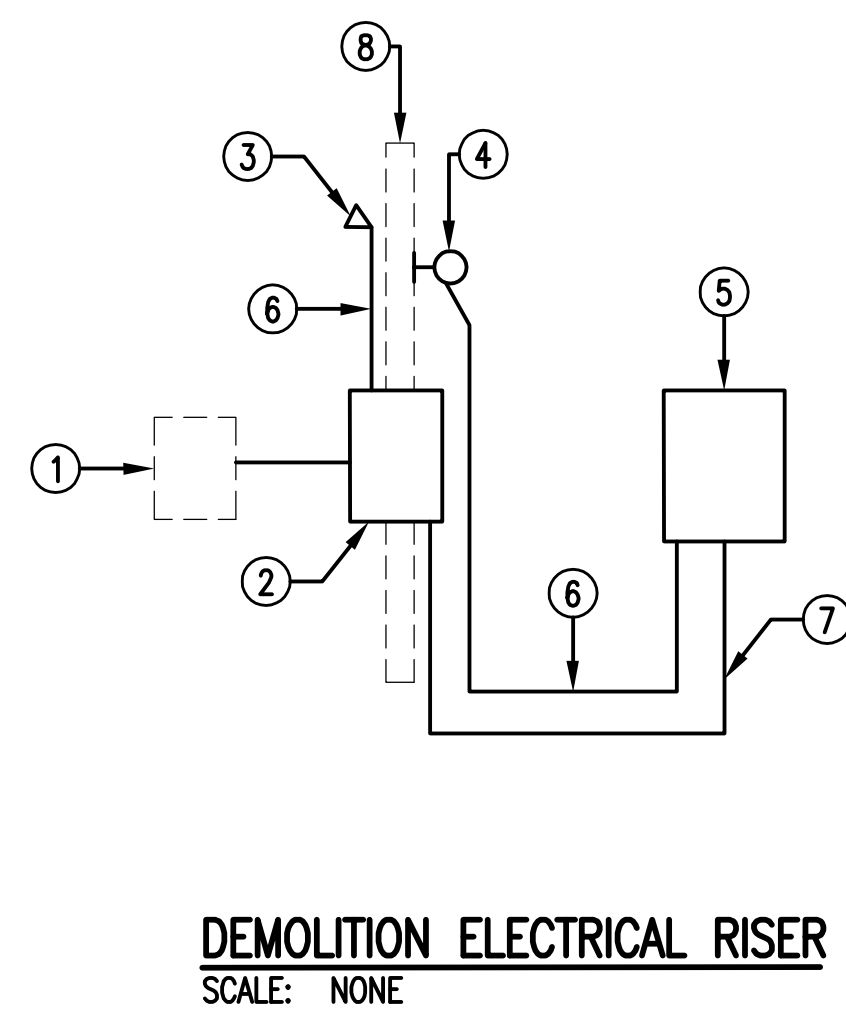
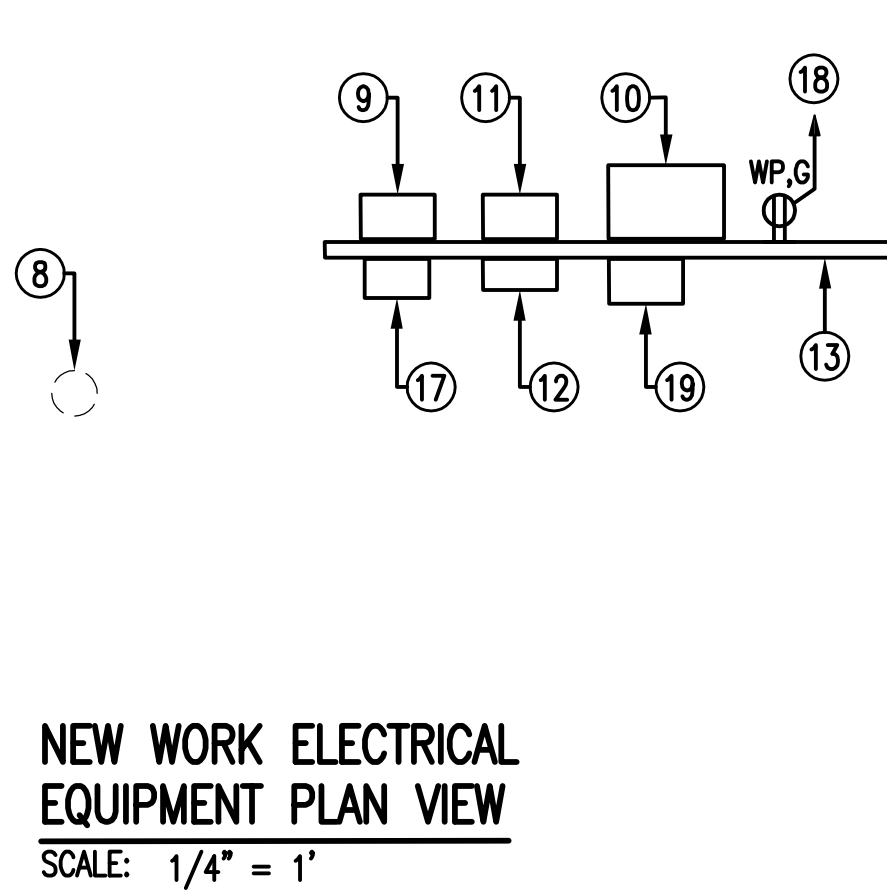
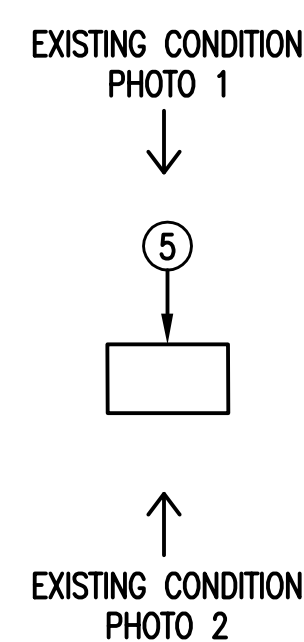
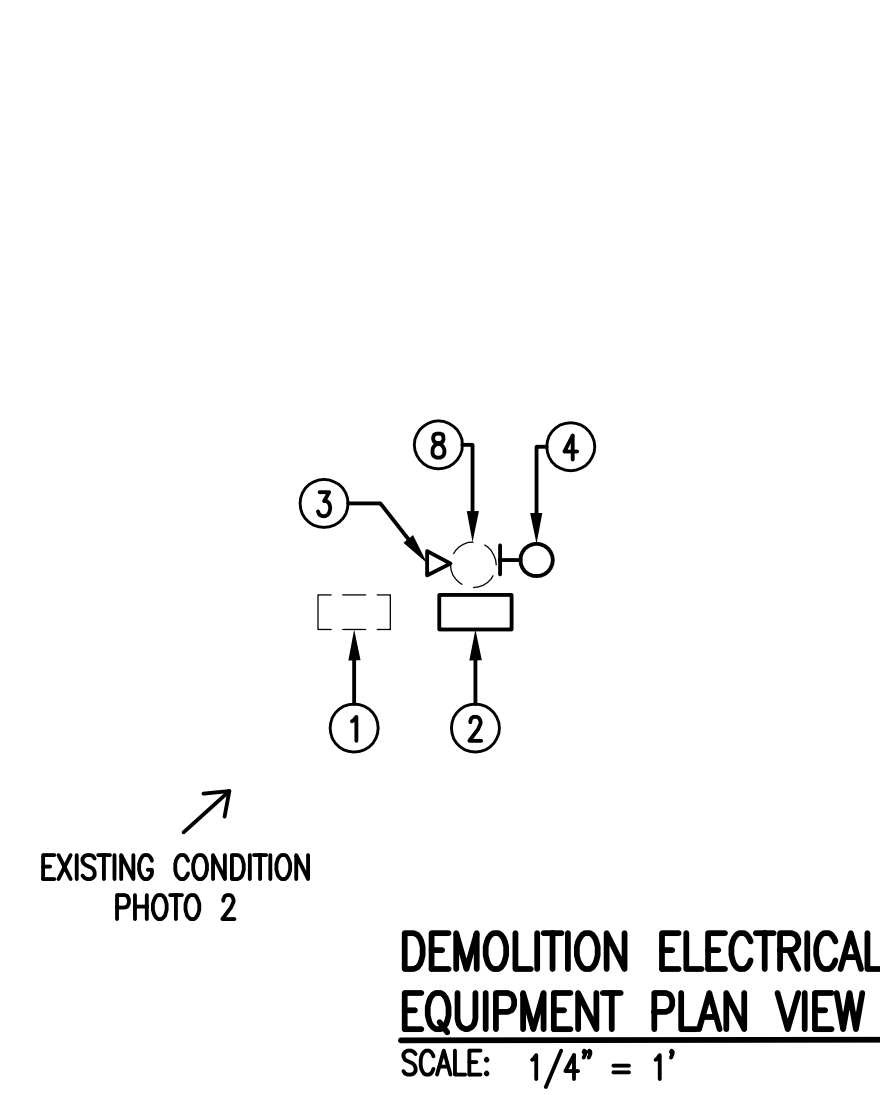
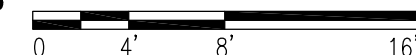
SHEET **E7**





**DEMOLITION & NEW WORK SITE PLAN**

SCALE: 1/8" = 1'



**EXISTING CONDITION PHOTO 1**  
SCALE: NONE



**EXISTING CONDITION PHOTO 2**  
SCALE: NONE

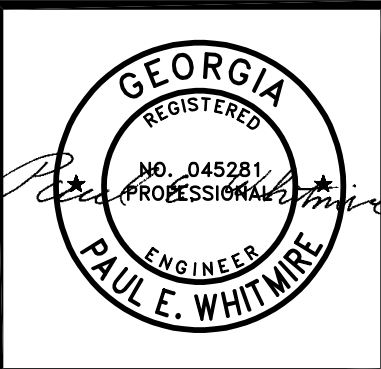
**GENERAL NOTES:**  
(THIS SHEET ONLY)

1. PROVIDE NEW PORTABLE GENERATOR FOR THIS SITE. SEE SCHEDULE IN SPECIFICATION SECTION 16310 PACKAGE ENGINE GENERATOR SYSTEMS, PARAGRAPH 1.5.

**NOTES:**  
(THIS SHEET ONLY)

1. EXISTING POWER COMPANY METER TO REMAIN.
2. EXISTING 240V, SINGLE-PHASE, 100A LOAD CENTER/SERVICE DISCONNECT TO BE REMOVED.
3. EXISTING ANTENNA CIRCUIT WEATHERHEAD AND ANTENNA TO BE REMOVED.
4. EXISTING PUMP STATION ALARM LIGHT TO BE REMOVED.
5. EXISTING PUMP STATION CONTROL PANEL TO BE REMOVED.
6. EXISTING 2#12, #12G; 1/2" C. TO BE REMOVED.
7. EXISTING 3#6; 1-1/2" C. TO REMAIN.
8. EXISTING WOOD POLE TO REMAIN.
9. NEW 60A/2P ENCLOSED CIRCUIT BREAKER SERVICE DISCONNECT IN NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE #6 GROUNDING CONDUCTOR TO (3) 3/4" DIAMETER X 10' GROUND RODS NOT LESS THAN 10' APART.
10. NEW 60A MAIN BREAKER PUMP STATION CONTROL PANEL IN NEMA 4X STAINLESS STEEL ENCLOSURE TO REPLACE THE EXISTING FLYGT CONTROL MODEL F202, SERIAL NUMBER 052C1325312. INSTALL NEW CONTROL PANEL IN SAME LOCATION OF EXISTING CONTROL PANEL AND RECONNECT ALL PUMP MOTOR LOADS AND CONTROL CONDUCTORS. PUMP CONTROL PANEL SHALL BE PROVIDED WITH ONE 20A/1P BREAKER FOR PANEL MOUNTED RECEPTACLE, ONE 20A/1P BREAKER FOR EXTERIOR RECEPTACLE, BREAKER(S) FOR PORTABLE GENERATOR BATTERY CHARGER, COOLANT HEATER, JACKET HEATER, ETC. AS REQUIRED FOR PORTABLE GENERATOR, AND TWO 20A/1P BREAKERS SPARE. PROVIDE PANEL MOUNTED PUMP STATION ALARM LIGHT.
11. NEW 240V, 100A/2P DOUBLE THROW SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE.
12. NEW PORTABLE GENERATOR CAM LOCK CONNECTION IN NEMA 4X STAINLESS STEEL ENCLOSURE. CONNECTION TO MATCH PORTABLE GENERATOR CABLES.
13. NEW 4" ALUMINUM CHANNEL EQUIPMENT SUPPORT STRUCTURE. PROVIDE A NEW CONCRETE PAD UNDER THE ENTIRE LENGTH OF THE SUPPORT STRUCTURE X 5' WIDE. NEW VERTICAL CHANNEL SHALL BE INSTALLED IN A FOOTING OF 12" DIAMETER X 18" DEEP, MINIMUM.
14. NEW 3#6, #10G; 1" C.
15. NEW 3#6; 1-1/2" C. UNDERGROUND.
16. EXISTING FENCE TO REMAIN.
17. NEW SURGE SUPPRESSOR. PROVIDE CONDUCTORS AND CONDUIT AS RECOMMENDED BY MANUFACTURER AND CONNECT TO SERVICE DISCONNECT
18. NEW 2#12, #12G; 1/2" C. TO PUMP CONTROL PANEL 20A/1P BREAKER.
19. HINGED NEMA 4X STAINLESS STEEL ENCLOSURE WITH 50' SOOW CABLE(S) AND PLUG(S) FOR PORTABLE GENERATOR BATTERY CHARGER, COOLANT HEATER, JACKET HEATER, ETC. AS REQUIRED BY PORTABLE GENERATOR. PLUG(S) SHALL MATCH RECEPTACLE(S) ON PORTABLE GENERATOR. HARDWIRE CABLE(S) TO PUMP CONTROL PANEL.

DATE	ITEM	REVISION



PROJECT:  
**DEMOLITION & NEW WORK PLANS - CARVER STREET 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

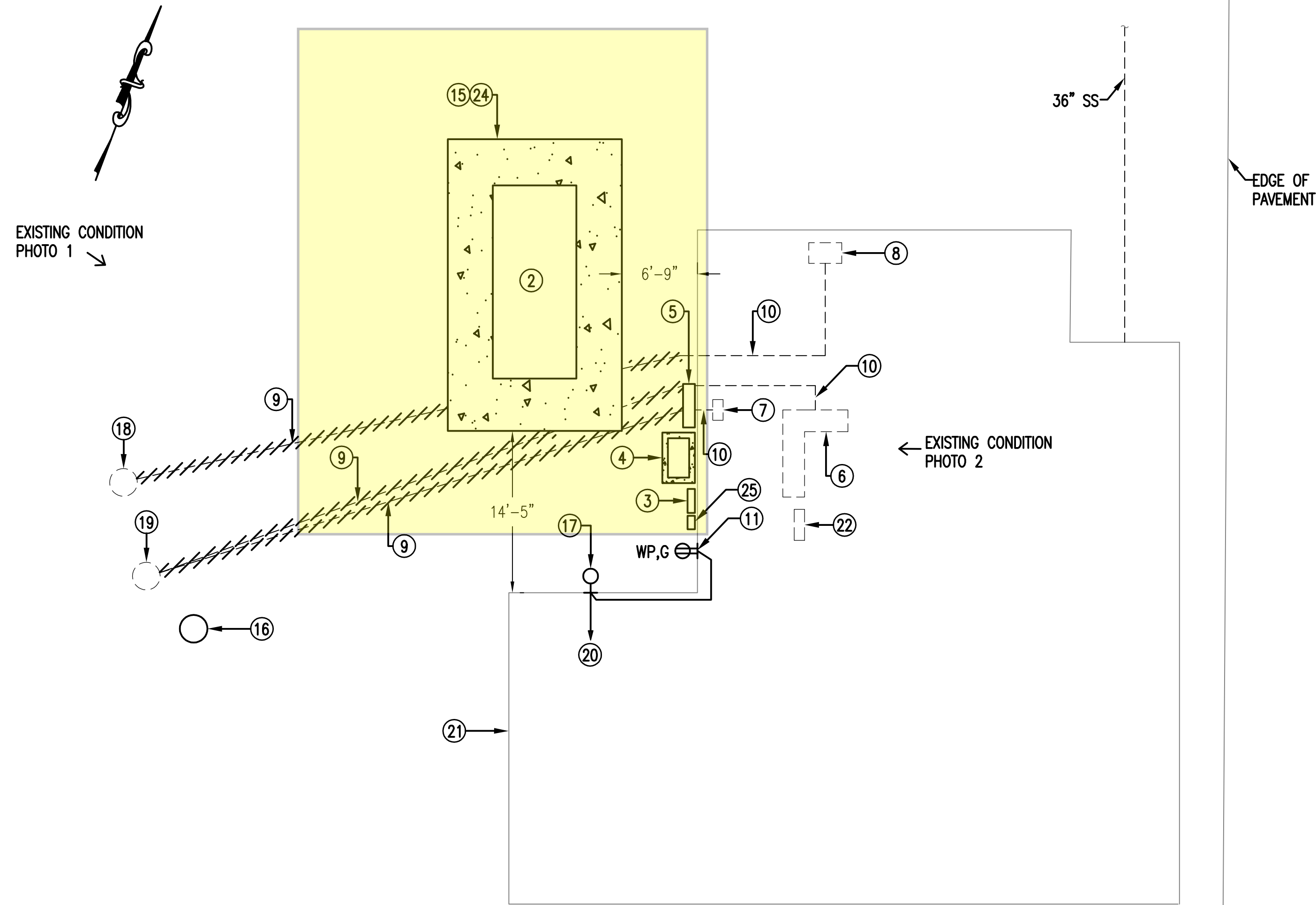
SHEET  
**E9**





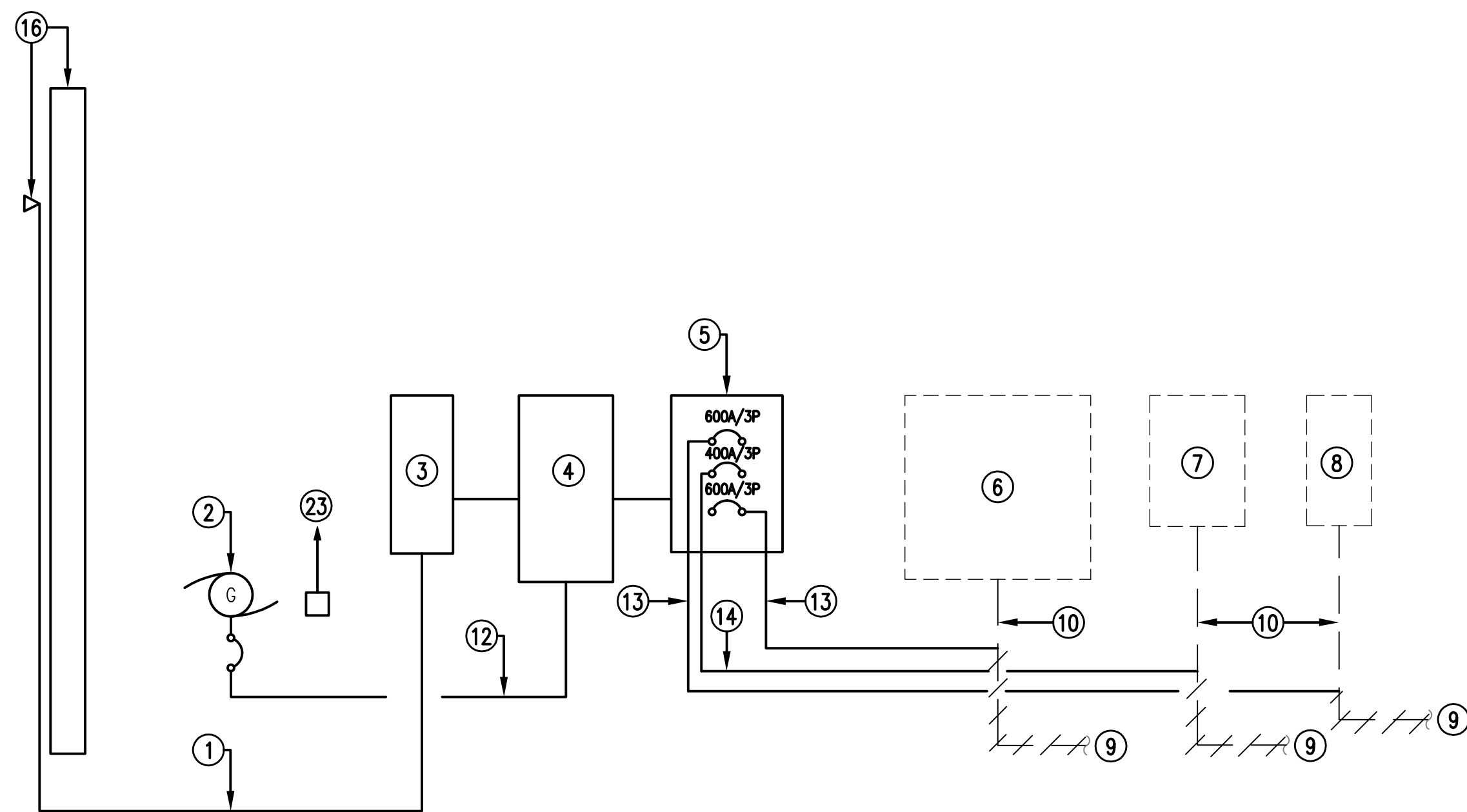






**DEMOLITION & NEW WORK SITE PLAN**

SCALE: 1/8" = 1'



**DEMOLITION & NEW WORK ELECTRICAL RISER**

SCALE: 1/4" = 1'



**EXISTING CONDITION PHOTO 1**

SCALE: NONE



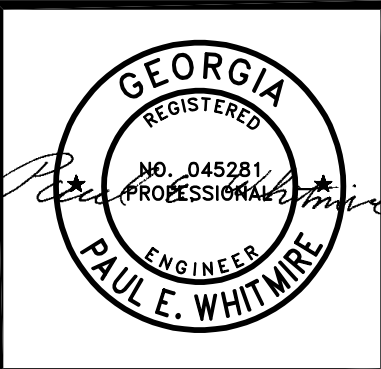
**EXISTING CONDITION PHOTO 2**

SCALE: NONE

**NOTES:**  
(THIS SHEET ONLY)

1. NEW 3 SETS: 4#600KCMIL; 4" C.
2. 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.
3. NEW 480V, 1200AF/1200AT ENCLOSED CIRCUIT BREAKER SERVICE DISCONNECT IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 65,000 AMPERES SYMMETRICAL. BREAKER SHALL HAVE ADJUSTABLE LSIG SETTINGS. PROVIDE #6 GROUNDING CONDUCTOR TO (3) 3/4" DIAMETER X 10' GROUND RODS NOT LESS THAN 10' APART.
4. NEW 480V, 1200A AUTOMATIC TRANSFER SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 65,000 AMPERES SYMMETRICAL. PROVIDE 3/4" C. AND CONDUCTORS AS REQUIRED FOR START/STOP SIGNAL TO GENERATOR. PROVIDE 6" HIGH CONCRETE HOUSEKEEPING PAD TO EXTEND 6" BEYOND ATS.
5. NEW 480Y/277V, 1200A MAIN LUG PANEL IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 65,000 AMPERES SYMMETRICAL. PROVIDE ONE 600A/3P BREAKER FOR THE EXISTING MCC, ONE 400A/3P BREAKER FOR THE EXISTING PANEL HDC, AND ONE 600A/3P BREAKER FOR THE TRANSFER PUMP DISCONNECT.
6. EXISTING 480V, 600A MCC ON FIRST FLOOR TO REMAIN.
7. EXISTING 480V, 400A PANEL IN BASEMENT TO REMAIN.
8. EXISTING 480V, 600A TRANSFER PUMP DISCONNECT IN BASEMENT TO REMAIN.
9. EXISTING UNDERGROUND CONDUIT TO BE ABANDONED.
10. EXISTING CONDUIT TO REMAIN AND BE EXTENDED TO NEW PANEL.
11. NEW WEATHERPROOF GFCI RECEPTACLE.
12. NEW 3 SETS: 4#500KCMIL, #3/0G; 3-1/2" C.
13. NEW 2 SETS: 4#350KCMIL, #1G; 3-1/2" C. CONNECT TO EXISTING UNDERGROUND CONDUIT OUTSIDE OF BUILDING AND PROVIDE NEW CONDUCTORS TO EXISTING EQUIPMENT.
14. NEW 4#500KCMIL, #3G; 3-1/2" C. CONNECT TO EXISTING UNDERGROUND CONDUIT OUTSIDE OF BUILDING AND PROVIDE NEW CONDUCTORS TO EXISTING EQUIPMENT.
15. NEW CONCRETE PAD FOR GENERATOR. PAD SHALL EXTEND 4' BEYOND FOOTPRINT OF ALL EQUIPMENT. SEE DETAIL SHEET E0.
16. NEW 35' CLASS 5 WOOD POLE WITH WEATHERHEADS & SERVICE MASTS.
17. NEW LITHONIA ESXF1 ALO SSW2 KY DDB MOUNTED ON BUILDING AT 20'. CIRCUIT TO NEW RECEPTACLE ON BUILDING.
18. EXISTING POWER COMPANY POLE WITH TRANSFORMERS. COORDINATE WITH POWER COMPANY TO REPLACE EXISTING POLE MOUNTED TRANSFORMERS. REMOVE EXISTING WEATHERHEADS AND SERVICE MASTS.
19. EXISTING WOOD POLE WITH WEATHERHEADS AND SERVICE MASTS TO BE REMOVED.
20. 2#12, #12G; 1/2" C. TO NEW BREAKER IN EXISTING PANEL, SEE NOTE 22.
21. OUTLINE OF EXISTING WATER TREATMENT BUILDING.
22. EXISTING 208Y/120V, 150A MB GE NLAB PANEL "LA-1" ON FIRST FLOOR TO REMAIN IN CONCRETE BLOCK WALL. ACCESS PANEL FROM ROOM BEHIND PANEL AND ROUTE CONDUIT EXPOSED. PROVIDE ONE 20A/1P BREAKER FOR RECEPTACLE AND EXTERIOR LIGHT. CONNECT WITH 2#12, #12G; 1/2" C. PROVIDE ONE 20A/1P BREAKER FOR GENERATOR BATTERY CHARGER.
23. NEW 2#12, #12G; 3/4" C. TO EXISTING PANEL FOR (SEE NOTE 22) GENERATOR BATTERY CHARGER.
24. CONTRACTOR SHALL PERFORM SOIL TESTING AT NEW GENERATOR PAD LOCATION. TAKE ONE SAMPLE AT EACH CORNER OF PROPOSED PAD AND PROVIDE RESULTS TO CITY BEFORE BEGINNING ANY WORK AT THIS SITE.
25. NEW SURGE SUPPRESSOR. PROVIDE CONDUCTORS AND CONDUIT AS RECOMMENDED BY MANUFACTURER AND CONNECT TO SERVICE DISCONNECT

DATE	REVISION



PROJECT:  
**DEMOLITION & NEW WORK PLANS - WASTEWATER TREATMENT PLANT**

580 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  
**E14**



