

# WALKER MOUNTAIN MSWLF ~ PUMP STATION



FLOYD COUNTY, GEORGIA  
JUNE 2015  
(BID # 046~15)



ATLANTIC COAST  
CONSULTING, INC.  
7 East Congress Street  
Suite 801  
Savannah, GA 31401  
p.912-236-3471  
f.912-236-3472  
www.atlcc.net



06990  
LEVEL II CERTIFICATION

PROJECT:  
WALKER MOUNTAIN  
MSWLF - PUMP  
STATION

LAND LOT 178 & 179  
FLOYD COUNTY, GA



CITY OF ROME PUBLIC WORKS  
DEPARTMENT  
200 VAUGHN ROAD  
ROME, GA 30162  
(706) 236-4466

**REVISIONS**

A. Initial Issue 06/30/2015  
B. Revised Per Owner Comment 08/05/2015

Drawn by: WP  
Checked by:

**PROJECT NUMBER:**

G014-102

AUGUST 2015

COVER

**Project Description:**  
CONSTRUCTION OF LIFT  
STATION AND  
FORCEMAIN  
  
ACRES TOTAL: 343.0 Ac  
ACRES DISTURBED: .66 Ac

**Property Owner:**

FLOYD COUNTY &  
CITY OF ROME  
P.O. BOX 1433  
ROME, GA 30162-1433  
(706) 236-4466

Responsible Official:  
STEVEN FOY, P.E.  
ASSISTANT PUBLIC WORKS DIR.  
ROME, GA PUBLIC WORKS  
706-236-4464

**Engineer:**



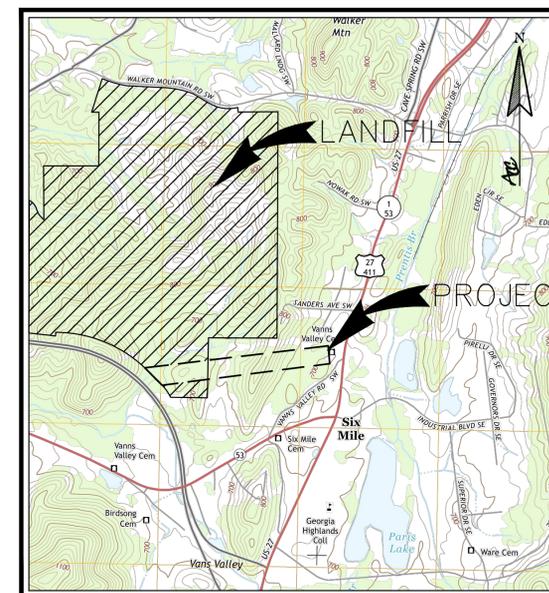
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o 912.236.3471  
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CONTACT: Marc Liverman, P.E.

**Index of Drawings:**

- |       |   |
|-------|---|
| C-001 | COVER   |
| C-101 | EXISTING CONDITIONS AND DEMOLITION PLAN                                   |
| C-102 | SITE PLAN   |
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| E-101 | ELECTRICAL PLAN: SITE, ONE-LINE DIAGRAM, SCHEDULE, GENERAL NOTES & LEGEND |
| E-102 | ELECTRICAL DETAILS PLAN   |



**Vicinity Map**

Scale: 1"=2000'  
Source:  
United States Geological Survey  
Quad: Rome South, Ga  
Dated: August 2010



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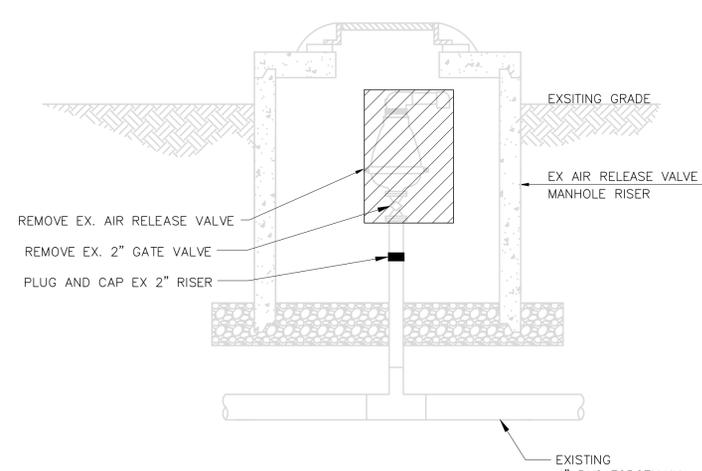
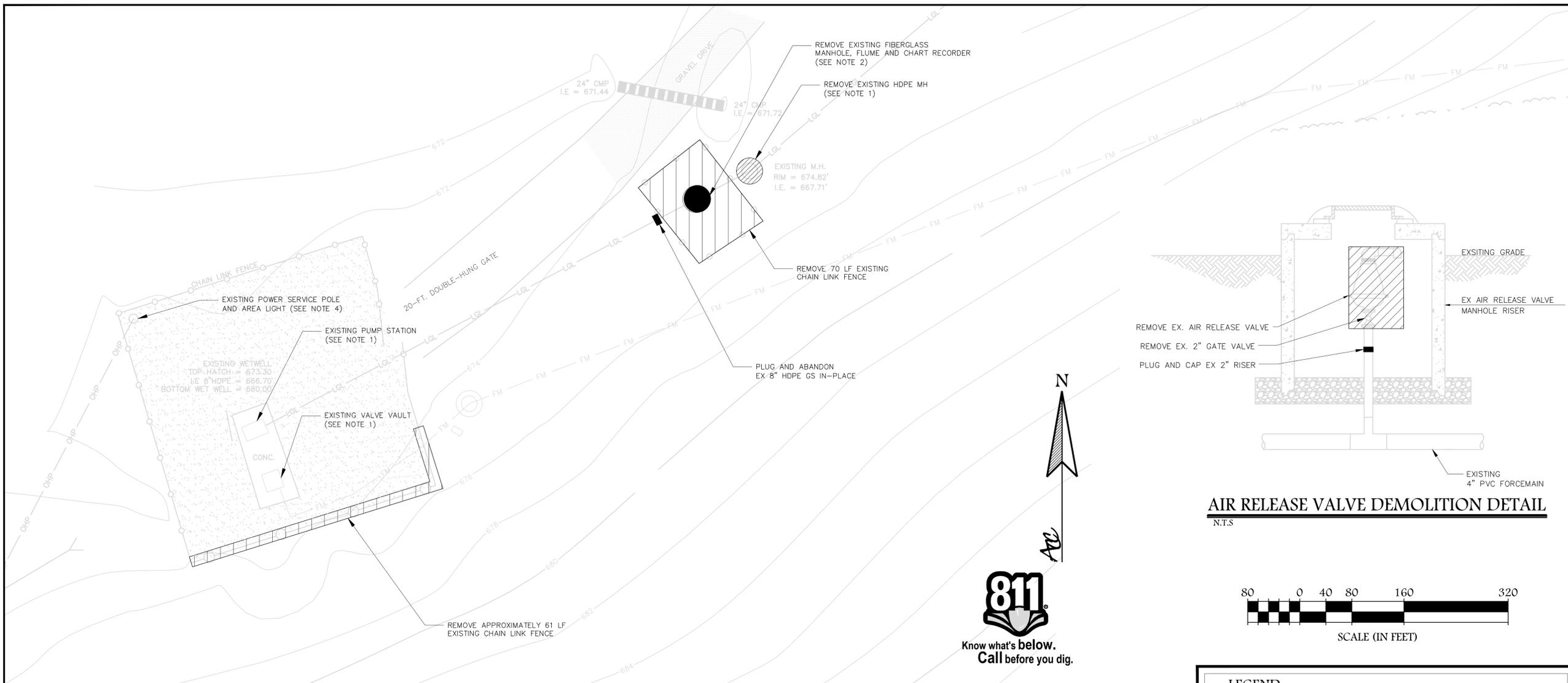
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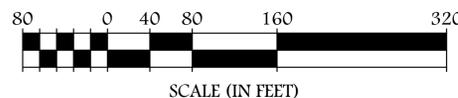
EXISTING  
CONDITIONS  
AND  
DEMOLITION  
PLAN

C-001



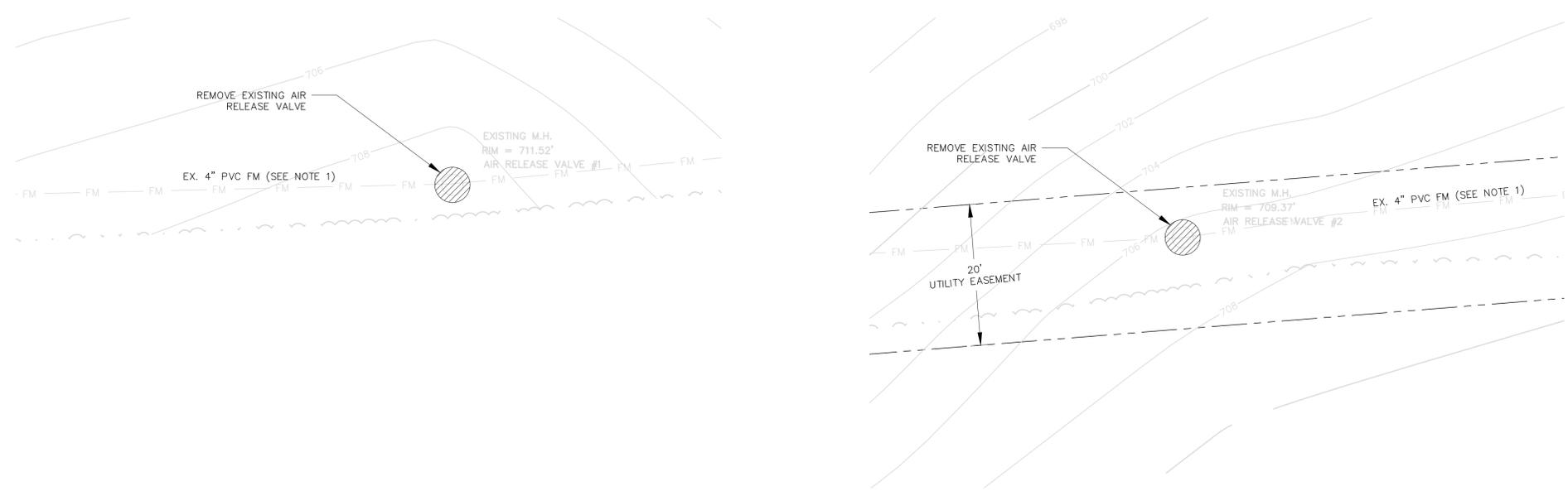
**AIR RELEASE VALVE DEMOLITION DETAIL**

N.T.S



**EXISTING PUMP STATION SITE DEMOLITION PLAN**

SCALE: AS NOTED



**EXISTING AIR RELEASE VALVE MANHOLE #1 DEMOLITION PLAN**

SCALE: AS NOTED

**EXISTING AIR RELEASE VALVE MANHOLE #2 DEMOLITION PLAN**

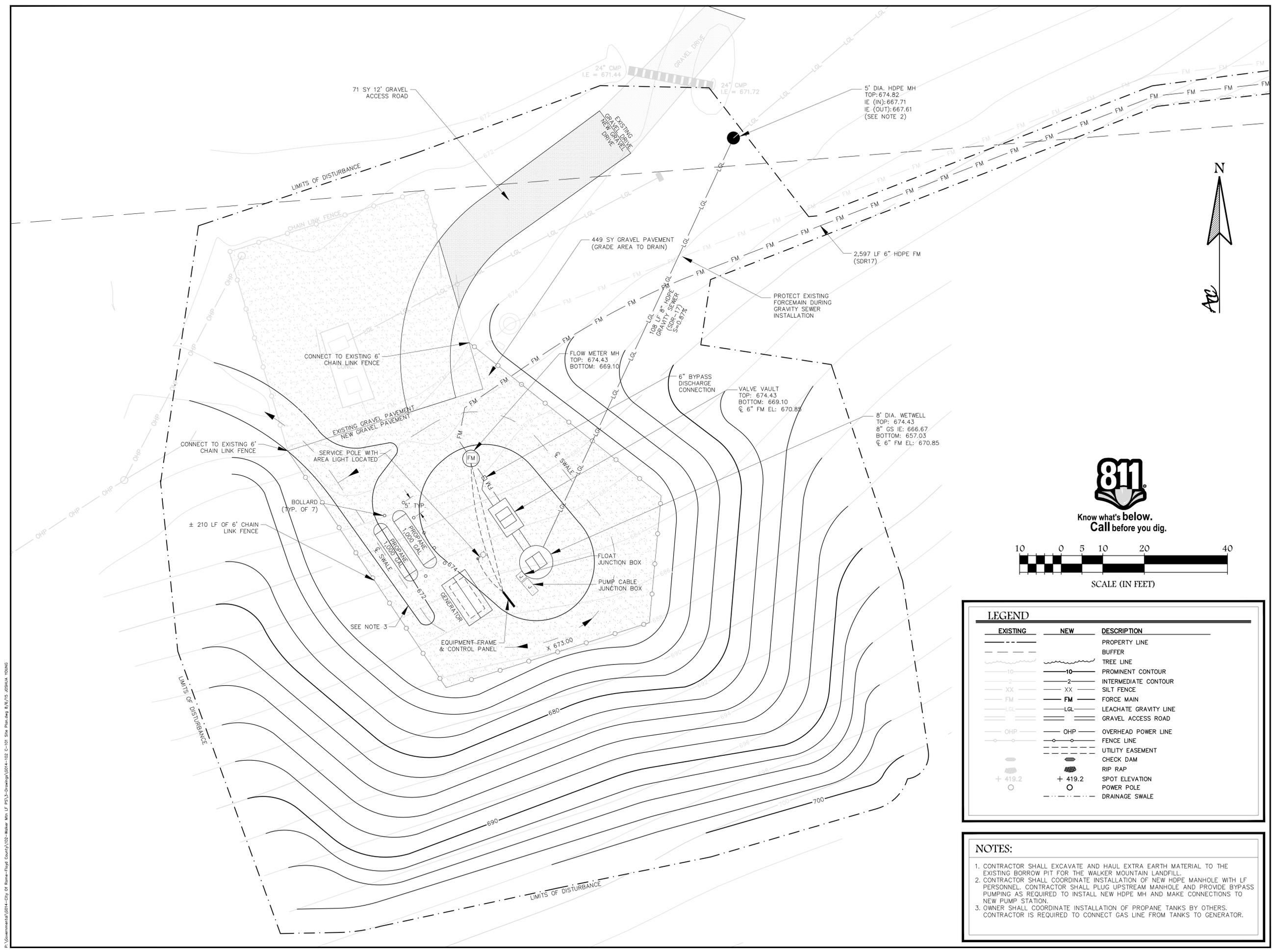
SCALE: AS NOTED

**LEGEND**

EXISTING	NEW	DESCRIPTION
---	---	PROPERTY LINE
---	---	BUFFER
---	---	TREE LINE
-10-	-10-	PROMINENT CONTOUR
-2-	-2-	INTERMEDIATE CONTOUR
XX	XX	SILT FENCE
FM	FM	FORCE MAIN
LGL	LGL	LEACHATE GRAVITY LINE
---	---	GRAVEL ACCESS ROAD
OHP	OHP	OVERHEAD POWER LINE
---	---	FENCE LINE
---	---	UTILITY EASEMENT
---	---	CHECK DAM
---	---	RIP RAP
+ 419.2	+ 419.2	SPOT ELEVATION
○	○	POWER POLE

**NOTES:**

- EXISTING PUMP STATION, FORCEMAIN AND LEACHATE GRAVITY SEWER SHALL REMAIN IN SERVICE TO CONVEY LEACHATE DURING NEW PUMP STATION CONSTRUCTION. CONTRACTOR SHALL MAINTAIN EXISTING STATION IN GOOD WORKING CONDITION THROUGHOUT CONSTRUCTION. ANY DAMAGE AS A RESULT OF NEW STATION CONSTRUCTION TO THE EXISTING STATION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. IF DAMAGE TO THE EXISTING STATION REQUIRES BYPASS PUMPING, THIS SHALL BE PROVIDED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL INSTALL TEMPORARY PLUG IN UPSTREAM GRAVITY MANHOLE TO FACILITATE INSTALLATION OF NEW HDPE MANHOLE. PLUGGING OF UPSTREAM MANHOLE SHALL BE COORDINATED WITH OWNER.
- ALL ITEMS REMOVED BY CONTRACTOR INCLUDING BUT NOT LIMITED TO EXISTING FLUME, CHART RECORDER AND APPURTENANCES SHALL BE RETURNED TO THE OWNER, UNLESS OTHERWISE DIRECTED BY OWNER.
- THE CONTRACTOR SHALL COORDINATE WITH MR. RICHARD PRYOR OF THE CITY OF ROME TRAFFIC AND ELECTRICAL DEPARTMENT TO RELOCATE THE EXISTING SCADA SYSTEM FROM THE OLD PUMP STATION TO THE NEW PUMP STATION. RELOCATION OF SAID SCADA SYSTEM SHALL BE THE CITY OF ROME. MR. PRYOR CAN BE REACHED AT 706-506-5801.
- CONTRACTOR SHALL COORDINATE ELECTRIC SERVICE AND AREA LIGHT FOR NEW STATION WITH GEORGIA POWER. SEE SHEET E-101 FOR ADDITIONAL INFORMATION.



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 MSWLF - PUMP  
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 LAND LOT 178 & 179  
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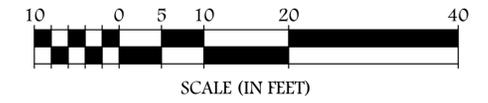
REVISIONS

A. Initial Issue	06/30/2015
B. Revised Per Owner Comment	08/05/2015

Drawn by: WP  
 Checked by:

PROJECT NUMBER:  
**G014-102**  
 AUGUST 2015

SITE PLAN  
**C-101**



**LEGEND**

EXISTING	NEW	DESCRIPTION
---	---	PROPERTY LINE
---	---	BUFFER
---	---	TREE LINE
---	---	PROMINENT CONTOUR
---	---	INTERMEDIATE CONTOUR
---	---	SILT FENCE
FM	FM	FORCE MAIN
LGL	LGL	LEACHATE GRAVITY LINE
---	---	GRAVEL ACCESS ROAD
OHP	OHP	OVERHEAD POWER LINE
---	---	FENCE LINE
---	---	UTILITY EASEMENT
---	---	CHECK DAM
+	+	RIP RAP
+	+	SPOT ELEVATION
○	○	POWER POLE
---	---	DRAINAGE SWALE

- NOTES:**
- CONTRACTOR SHALL EXCAVATE AND HAUL EXTRA EARTH MATERIAL TO THE EXISTING BORROW PIT FOR THE WALKER MOUNTAIN LANDFILL.
  - CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW HDPE MANHOLE WITH LF PERSONNEL. CONTRACTOR SHALL PLUG UPSTREAM MANHOLE AND PROVIDE BYPASS PUMPING AS REQUIRED TO INSTALL NEW HDPE MH AND MAKE CONNECTIONS TO NEW PUMP STATION.
  - OWNER SHALL COORDINATE INSTALLATION OF PROPANE TANKS BY OTHERS. CONTRACTOR IS REQUIRED TO CONNECT GAS LINE FROM TANKS TO GENERATOR.

P:\Governmental\0014-City of Rome-Floyd County\02-Reserv Min LF P\3\Drawings\0014-102-C-101-Site Plan.dwg 8/17/15 JOSHUA YOUNG





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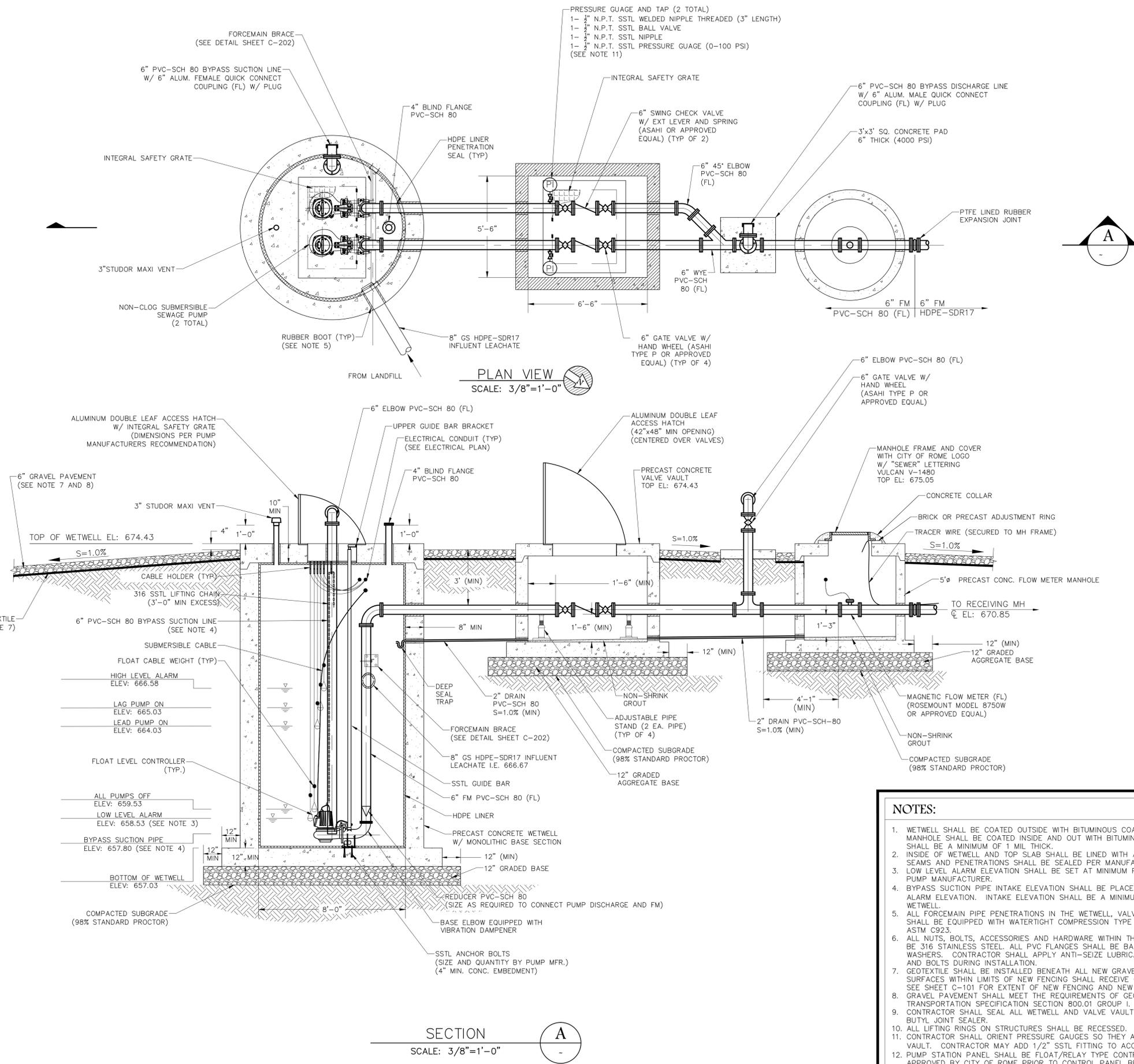
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AUGUST 2015

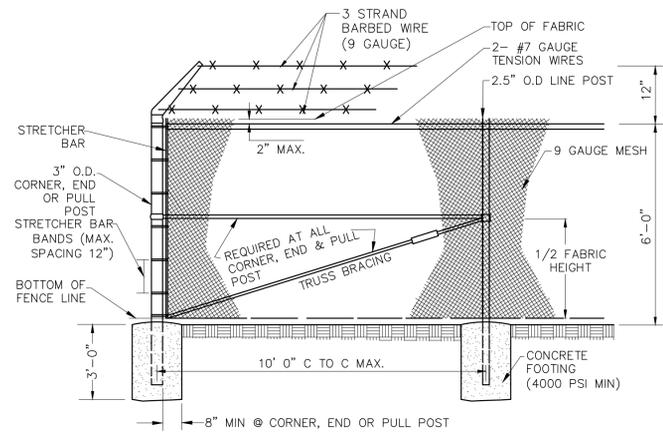
PUMP STATION  
PLAN AND  
SECTION

C-201



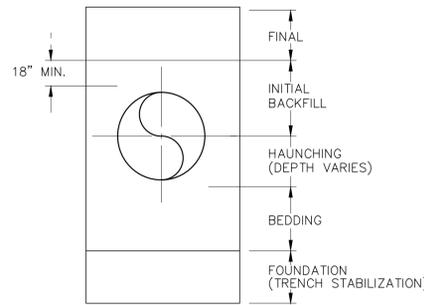
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**ELEVATION OF CHAIN-LINK FENCE**

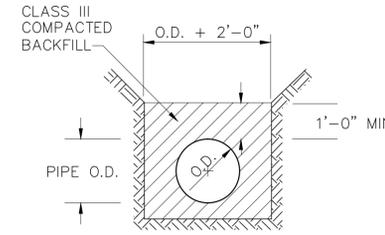
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**TRENCH TERMINOLOGY DETAIL**

N.T.S.

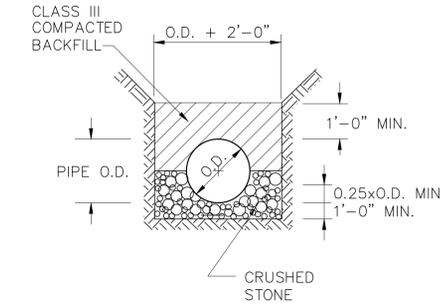
NOTE: SEE SPECIFICATIONS AND PIPE BEDDING AND HAUNCHING DETAILS FOR DIMENSIONS AND MATERIALS



**CLASS III**

**PRESSURE SEWER PIPE BEDDING DETAIL**

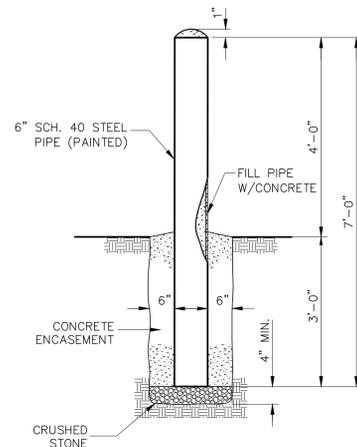
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**CLASS IA**

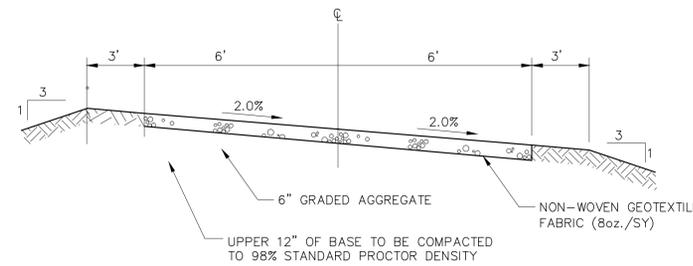
**GRAVITY SEWER PIPE BEDDING DETAIL**

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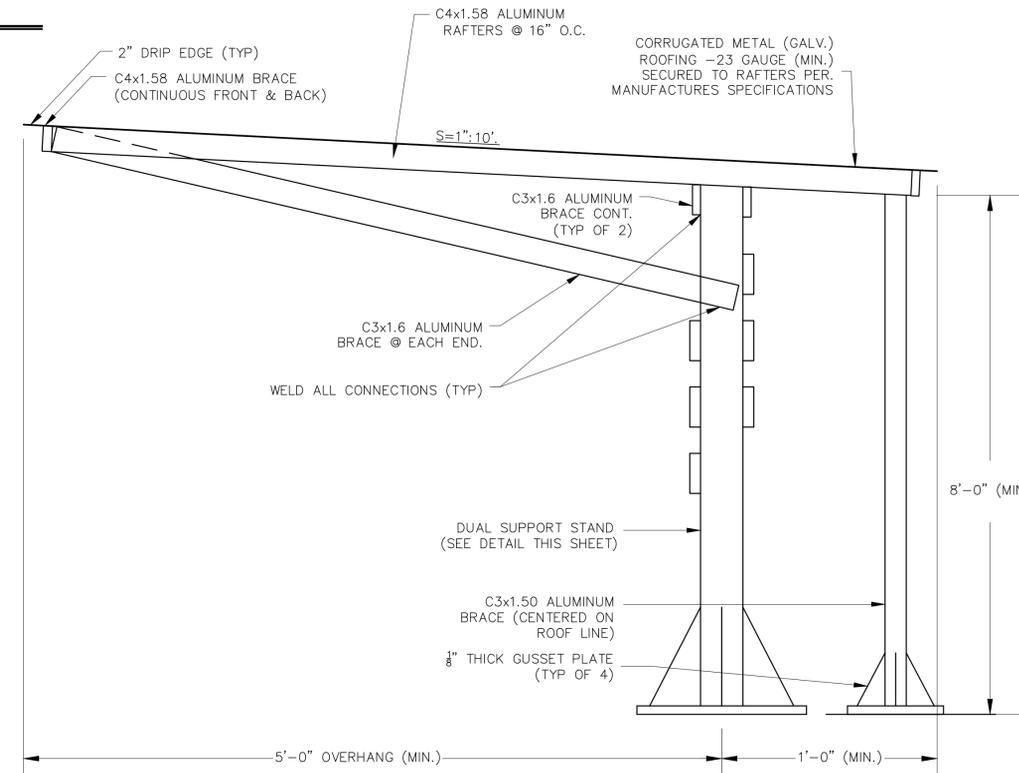
**BOLLARD DETAIL**

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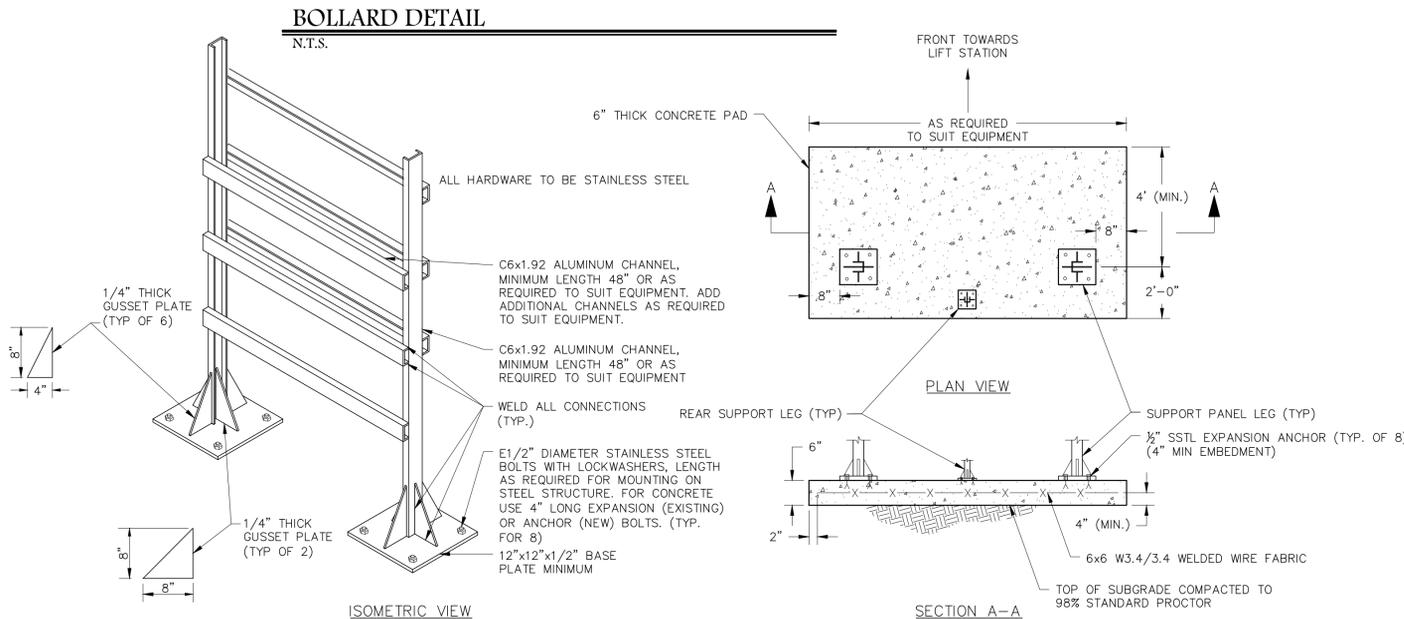
**GRAVEL ACCESS ROAD DETAIL**

N.T.S.



**CONTROL PANEL SUNSHADE DETAIL**

N.T.S.



**DUAL SUPPORT STAND DETAIL**

N.T.S.



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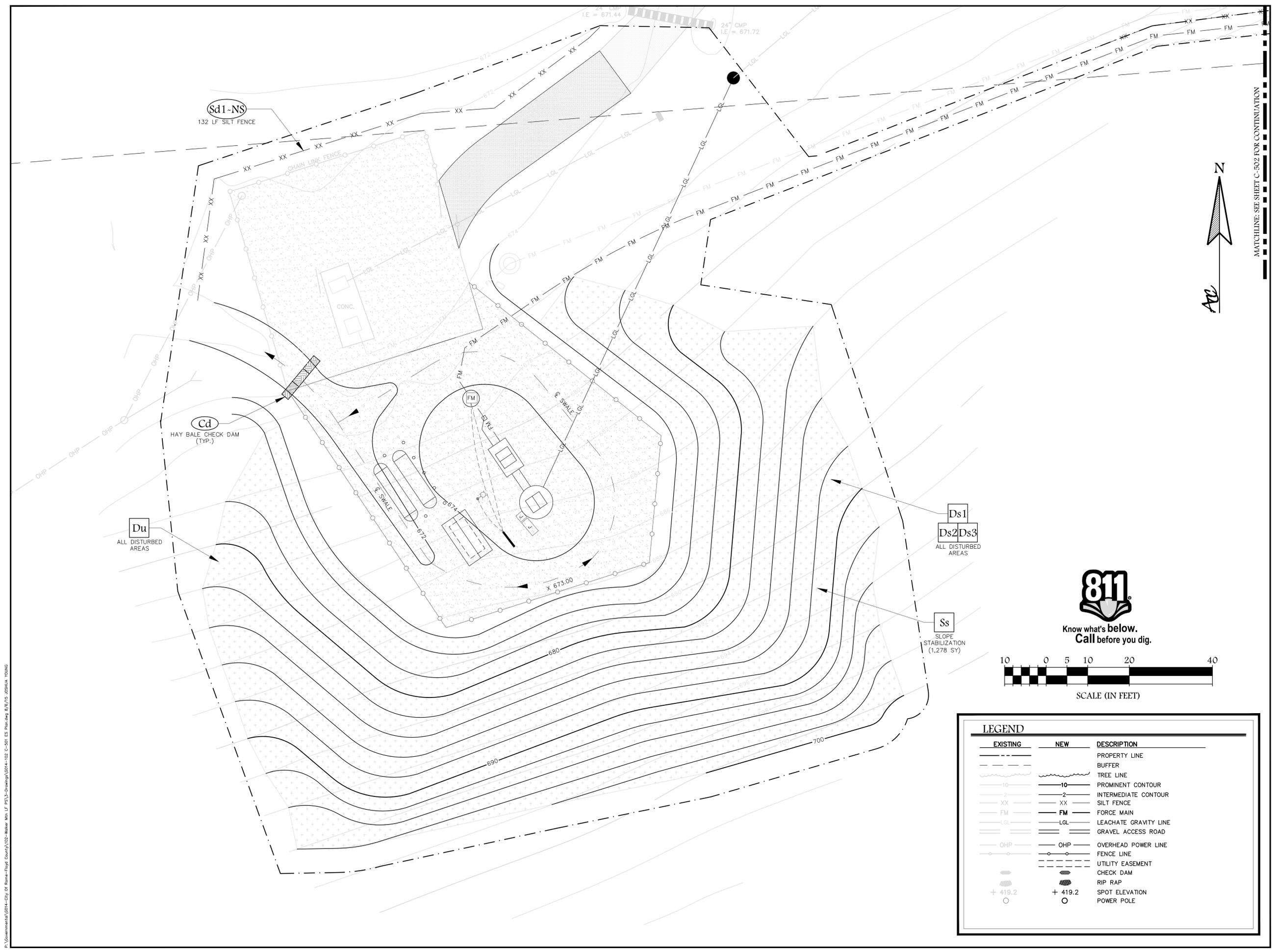
PROJECT NUMBER:

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AUGUST 2015

PUMP STATION  
DETAILS

C-203



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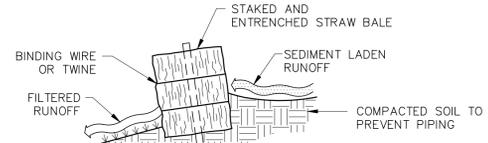
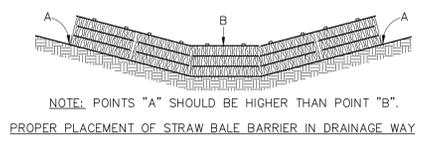
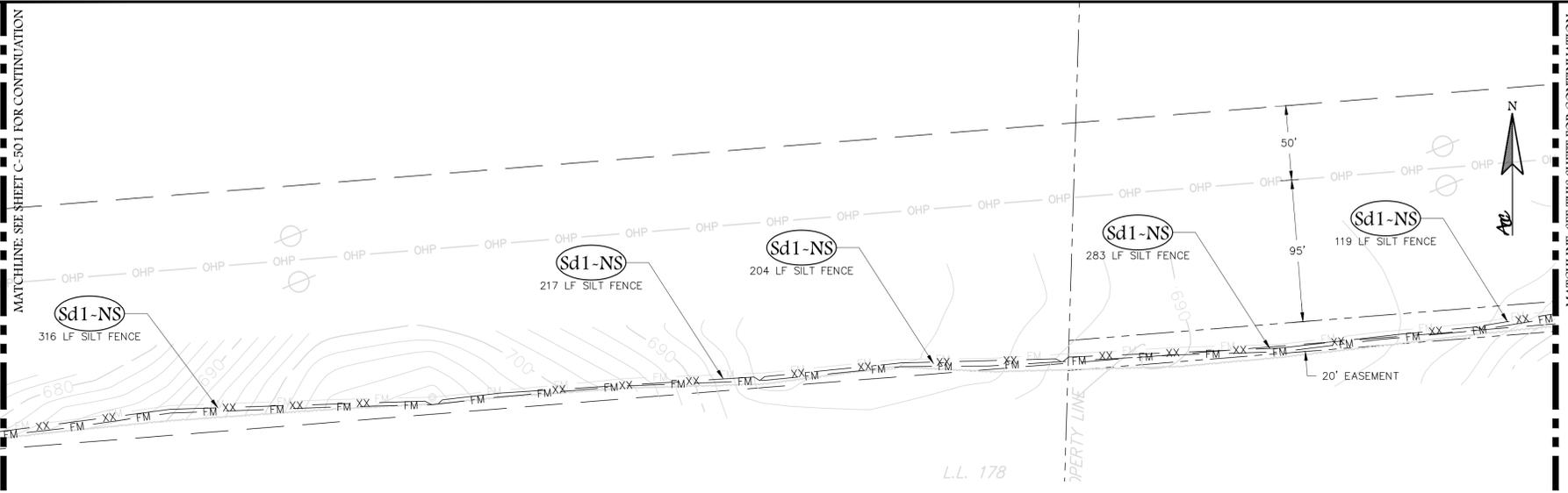
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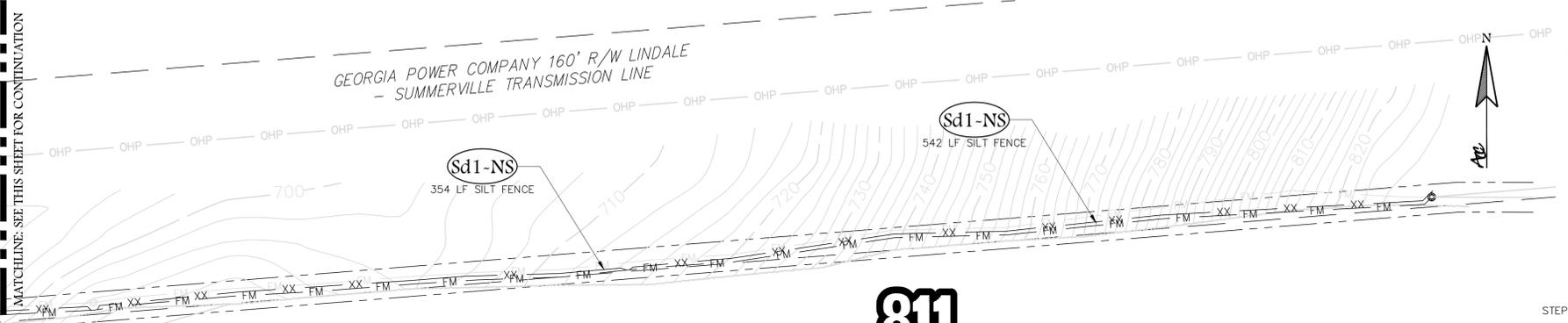
**EROSION,  
 SEDIMENTATION  
 AND POLLUTION  
 CONTROL PLAN**

**C-501**

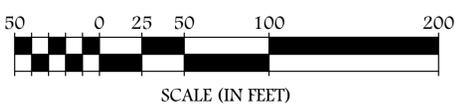
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CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE



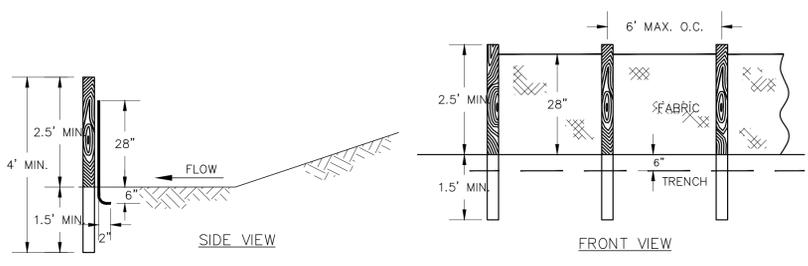
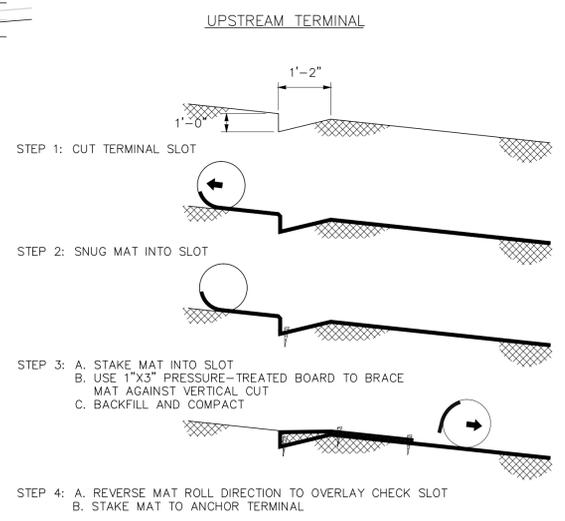
- NOTES:
- LIMITS OF DISTURBANCE FOR FM ALIGNMENT IS 5' WIDE CENTERED ON ALIGNMENT.
  - LIMITS OF CONSTRUCTION NOT SHOWN FOR CLARITY.



**CHECK DAM - HAY BALES**

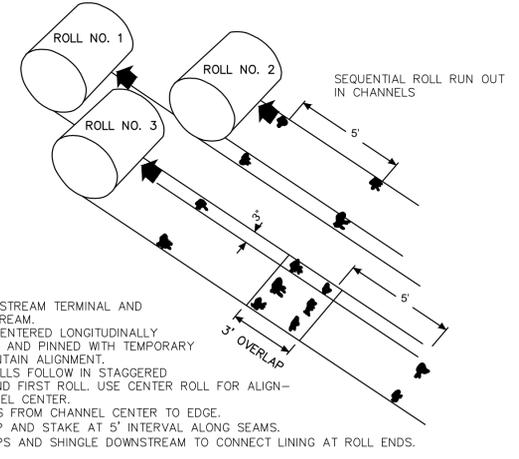
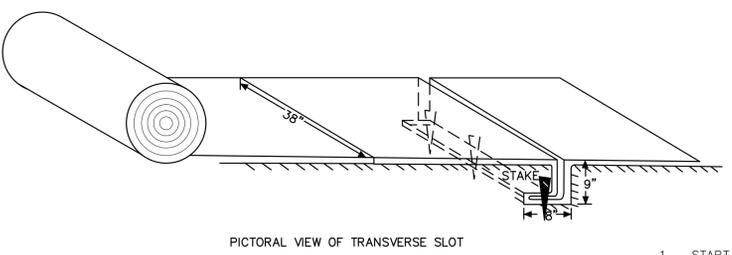
N.T.S.

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- NOTES:
- USE 3/8" D.O.T. APPROVED FABRIC
  - USE WOOD OR STEEL POST.
- MAINTENANCE NOTES:
- SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE BARRIER
  - FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED.
  - TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
  - ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

POST OPTIONS	
TYPE OF POST	SIZE OF POST
SOFT WOOD	3" DIA. OR 2X4
OAK	1.5"x1.5"
STEEL	1.3 LB./FT. MIN.



- START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
- FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
- SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
- WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
- USE 3' OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
- USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

**SILT FENCE DETAIL "NS"**

N.T.S.

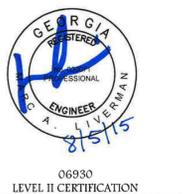
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**MATTING AND BLANKETS**

N.T.S.

Ss

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**EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND DETAILS**

**C-502**

### DUPLEX PUMP STATION ONE LINE SCHEDULE

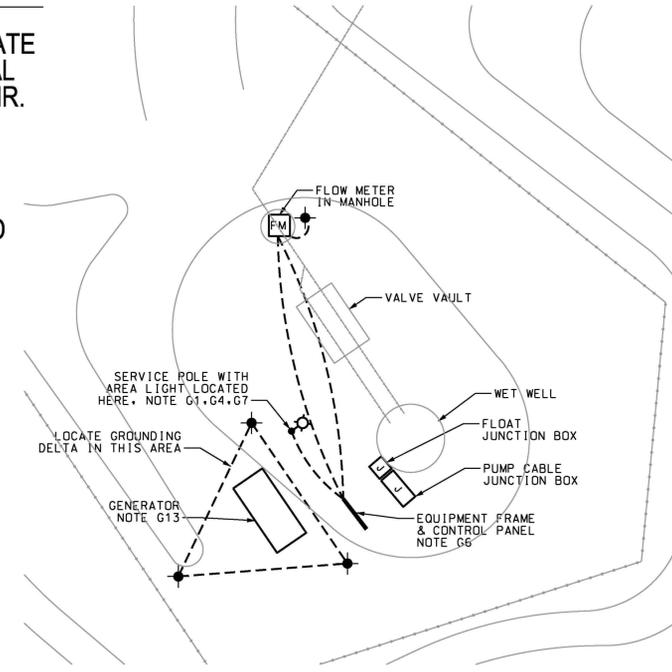
ITEM#	DESCRIPTION	ITEM#	DESCRIPTION
1	35 HP, 460V, 3PH, 39 FLA EACH PUMP	11	1 1/2" W/4ND.8, 1ND.8(G), CONDUCTORS SHALL NOT EXCEED 18" IN LENGTH
1A	2 1/2" C W/4ND.3/O	12	20A/2P CIRCUIT BREAKER, 14 000 MIN. A.I.C. @ 480V
1B	2 1/2" C W/3ND.3/O, 1ND.6(G)	13	7.5 KVA DRY TYPE XFMR, 480V 1PH PRIMARY, 240/120V 1PH 3W SECONDARY, SEALED 316 STAINLESS STEEL NEMA 3R ENCLOSURE
2	200A/3P MAIN CIRCUIT BREAKER W/INS. NEUT. BONDING JUMPER, SERVICE LABEL, 35 000 MIN. A.I.C. @ 480V, NEMA 4X SS ENCLOSURE	14	40A/2P CIRCUIT BREAKER, 10 000 MIN. A.I.C. @ 240V
3	200A/3P EMERGENCY CIRCUIT BREAKER W/INS. NEUT., 35 000 MIN. A.I.C. @ 480V, NEMA 4X SS ENCLOSURE	15	REDUCED VOLTAGE STATE STARTER WITH SHORTING CONTACTOR SIZED FOR 35 HP, 480V, 3PH, 39 FLA MOTOR. NOTE G14
4	3/4" C W/ 1 NO.2(G) TO GROUNDING ELECTRODES	16	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH POWER BLOCKS AND TERMINAL STRIPS AS REQUIRED 24" X 24" X 8", SEE NOTE G10
5	2" C W/ 3ND.4, 1ND.8(G)	17	200A/4P/4XSS AUTOMATIC TRANSFER SWITCH W/ NEMA 4X STAINLESS STEEL ENCLOSURE
6	SEAL-OFF FITTING, C-H TYPE EYS NOTE G9	18	20/2 CIRCUIT BREAKER, 10 000 MIN. A.I.C. @ 240V
7	3/4" C W/2ND.12 1ND.12(G)	19	15A/2P CIRCUIT BREAKER 35 000 A.I.C. MIN. @ 480V
8	100A/3P MOTOR CIRCUIT BREAKER 35 000 MIN. A.I.C. @ 480V.	20	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIPS AS REQUIRED, 16" X 12" X 8", SEE NOTE G10
9	20A/1P CIRCUIT BREAKER, 10 000 MIN. A.I.C. @ 120V		
10	40A/3P 35 000 MIN. A.I.C. @ 480V		

### GENERAL NOTES:

- G1. THE WILL PROVIDE A NEW SERVICE DROP TO THE SERVICE POLE. COORDINATE WITH TIM TURNER, GEORGIA POWER, 706-236-1474.
- G2. ALL CONDUITS INSTALLED EXPOSED TO ATMOSPHERE SHALL BE RIGID GALVANIZED STEEL (RGS) CONDUIT. ALL CONDUITS INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC. ALL ELBOWS BELOW GRADE TO BE RGS.
- G3. SEAL BOTH ENDS OF EACH CONDUIT ENTERING THE CONTROL CABINET FROM THE WET WELL WITH ELECTRICAL DUCT SEAL. SEAL ALL CONDUITS ENTERING CONTROL PANEL FROM BELOW GRADE WITH DUCT SEAL.
- G4. THE METER SHALL BE MOUNTED ON THE SERVICE POLE. COORDINATE WITH THE CITY OF ROME AND THE ELECTRICAL UTILITY.
- G5. CIRCUIT BREAKER AND SWITCH OPERATING HANDLES SHALL BE A MAXIMUM OF 66" ABOVE FINISHED GRADE. LOCATE DUPLEX PUMP CONTROL PANEL, AUTOMATIC TRANSFER SWITCH AND ENCLOSED BREAKERS WHERE INDICATED.
- G6. POSITION ELECTRICAL EQUIPMENT SO THAT ALARM LIGHT CAN BE SEEN FROM THE NEAREST ROAD. EXACT ORIENTATION AND LOCATION OF ELECTRICAL EQUIPMENT STRUCTURE SHALL BE DETERMINED IN FIELD FOR BEST VIEW OF ALARM LIGHT & ACCESS TO ELECTRICAL EQUIPMENT.
- G7. MOUNT AREA LIGHT TO THE TOP OF THE SERVICE POLE LOCATED IN THE SERVICE YARD. FIELD COORDINATE POLE LOCATION WITH THE CITY OF ROME, THE ELECTRICAL UTILITY AND OTHER WORK ON THE SITE.
- G8. ALL ATTACHMENT HARDWARE SHALL BE STAINLESS STEEL. REFER TO DUAL SUPPORT STAND DETAIL, SHEET C-203, FOR FABRICATION REQUIREMENTS.
- G9. PROVIDE TYPE EYS TYPE CONDUIT SEAL-OFF. SEAL WITH SEALING COMPOUND. MAKE POWER, SENSOR & LEVEL CONTROL CONNECTIONS IN THE JUNCTION BOXES INDICATED.
- G10. PROVIDE A HOFFMAN BULLETIN 44S, 14 GAUGE 316 STAINLESS STEEL JUNCTION BOX WITH PAINTED STEEL BACKPLATE.
- G11. 2" C W/BELDEN 1042A (16AWG T.S. 12PR) CABLE FOR ANNUNCIATION OF GENERATOR ALARMS TO SCADA SYSTEM.
- G12. 2-1" C W/CONDUCTORS AS REQUIRED FOR GENERATOR CONTROLS. ONE 2" C W/BELDEN 1042A (16AWG T.S. 12 PR) CABLE.
- G13. THE GENERATOR DESIGN IS BASED UPON A CUMMINS POWER SYSTEMS N-POWER MODEL GFPA 140KW/175KVA (PROPANE RATING) WITH A PSI 8.8L ENGINE. FUEL CONSUMPTION AT FULL LOAD, PROPANE VAPOR, IS 685 CFH. PROVIDE 7" TO 11" WATER COLUMN GAS PRESSURE AND 2" SUPPLY PIPE BETWEEN PROPANE TANK AND GENERATOR. COORDINATE GAS SUPPLY PRESSURE AND PIPE SIZE WITH GENERATOR MANUFACTURER AND THE OWNER'S PROPANE SUPPLIER. PROVIDE SHUTOFF VALVE, FLEX CONNECTION TO GENERATOR AND DIRT LEG. PIPING TO BE BLACK STEEL, PAINTED.
- G14. SIZE FOR SEVERE DUTY APPLICATIONS.
- G15. CONDUIT UP RISER POLES SHALL BE RGS.
- G16. THE CONTRACTOR SHALL PROVIDE A STAINLESS STEEL BRACKET FOR SUPPORT OF THE PUMP MOTOR CABLES AND THE FLOAT CABLES. PROVIDE HUBBELL KELLUMS HEAVY DUTY, DOUBLE WEAVE, CLOSED MESH, STAINLESS STEEL SUPPORT GRIPS. PROVIDE DOUBLE EYE FOR MOTOR CABLES AND SINGLE EYE FOR FLOAT CABLES.

### SPECIAL NOTE:

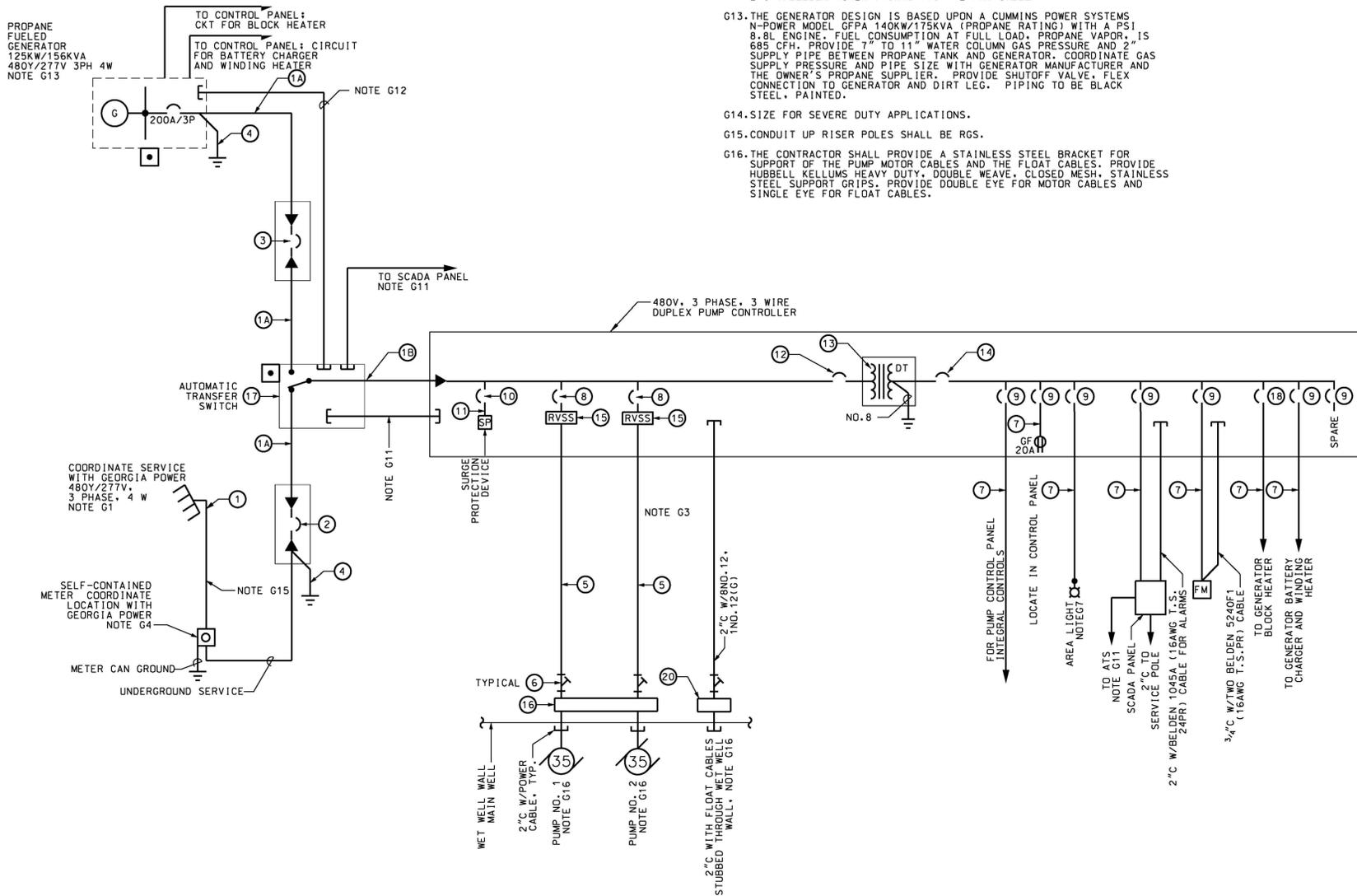
CONTRACTOR SHALL COORDINATE LAYOUT OUT OF ALL ELECTRICAL RELATED COMPONENTS WITH MR. RICHARD PRYOR BEFORE COMMENCEMENT OF ELECTRICAL APPURTENANCES. MR. PRYOR CAN BE CONTACTED AT 706-506-5901.



**1 SITE PLAN - ELECTRICAL**  
**E-101 SCALE: 1" = 10'**

### LEGEND

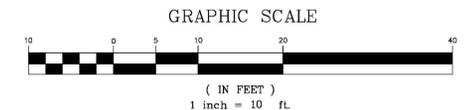
- EQUIPMENT AS NOTED
- MOTOR CIRCUIT BREAKER AND VFD
- 20A DUPLEX RECEPTACLE, NEMA 5-20R
- WP WEATHERPROOF
- GROUND TO GROUND ROD SYSTEM
- GF GROUND FAULT CIRCUIT INTERRUPTER PROTECTION
- AIC INTERRUPTING CAPACITY IN AMPS
- CONDUIT SYSTEM CONCEALED BELOW GRADE
- PUMP MOTOR, HORSEPOWER INDICATED
- DT DRY TYPE TRANSFORMER
- SEAL OFF FITTING, NOTE G9
- AREA LIGHT: HOLOPHANE PF 250HP 12 K W 3 B PDRP12 WITH 150W HPS LAMP AND BKT-4-PP POLE BRACKET. NOTE G7
- SS SURGE SUPPRESSION UNIT - APT MODEL TE 05 XDS 20 4X A, MOUNT WITHIN CONTROL PANEL
- GENERATOR EMERGENCY SHUT-OFF, MOUNT TO FACE OF ATS AND GENERATOR ENCLOSURE
- FM FLOW METER MOUNTED IN MANHOLE, COORDINATE WITH OTHER TRADES FOR INSTALLATION.
- J JUNCTION BOX



**2 ONE LINE DIAGRAM**  
**E-101 SCHEMATIC ONLY**



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06990  
 LEVEL II CERTIFICATION

PROJECT:  
**WALKER MOUNTAIN  
 MSWLF - PUMP  
 STATION**

LAND LOT 178 & 179  
 FLOYD COUNTY, GA



CITY OF ROME PUBLIC WORKS  
 DEPARTMENT  
 200 VAUGHN ROAD  
 ROME, GA 30162  
 (706) 236-4466

### REVISIONS

Revision	Description	Date
A.	Initial Issue	06/30/2015
B.	Revised Per Owner Comment	08/05/2015

Drawn by: WP  
 Checked by:

PROJECT NUMBER:

G014-102

AUGUST 2015

ELECTRICAL PLAN:  
 SITE, ONE-LINE  
 DIAGRAM, SCHEDULE,  
 GENERAL NOTES &  
 LEGEND

E-101

