

WALKER MOUNTAIN MSWLF ~ PUMP STATION



FLOYD COUNTY, GEORGIA
MAY 2016
(BID # 016~16)



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



06930
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
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP
Checked by: ML

PROJECT NUMBER:

G014-102

MAY 2016

COVER

Project Description:
CONSTRUCTION OF PUMP
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:



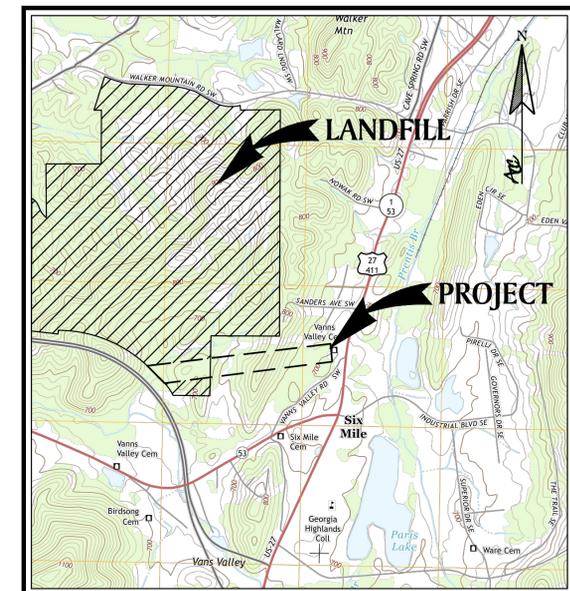
ATLANTIC COAST
CONSULTING, INC.

7 East Congress Street
Suite 801
Savannah, GA 31401
o 912.236.3471
www.atlcc.net

CONTACT: Marc Liverman, P.E.

Index of Drawings:

C-001	COVER
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN
C-102	SITE PLAN
C-201	FORCEMAIN PLAN AND PROFILE
C-202	PUMP STATION PLAN AND SECTION
C-203	PUMP STATION DETAILS
C-501	PUMP STATION DETAILS
C-502	EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
E-101	EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND DETAILS
E-102	ELECTRICAL PLAN: SITE, ONE-LINE DIAGRAM, SCHEDULE, GENERAL NOTES & LEGEND
	ELECTRICAL DETAILS PLAN



Vicinity Map

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



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



06930
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
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP
Checked by: [Signature]

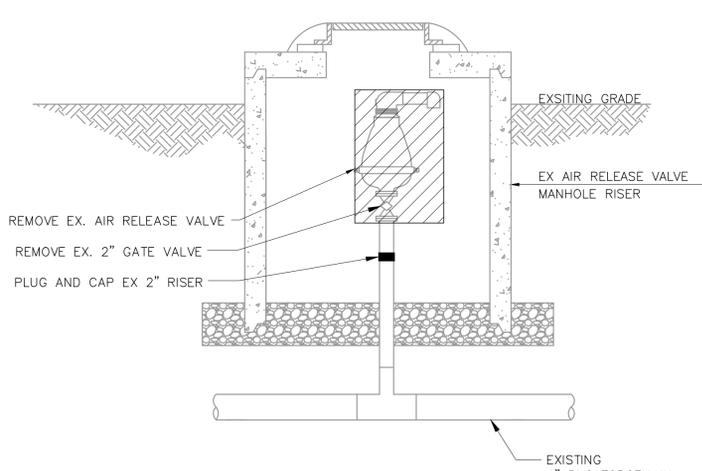
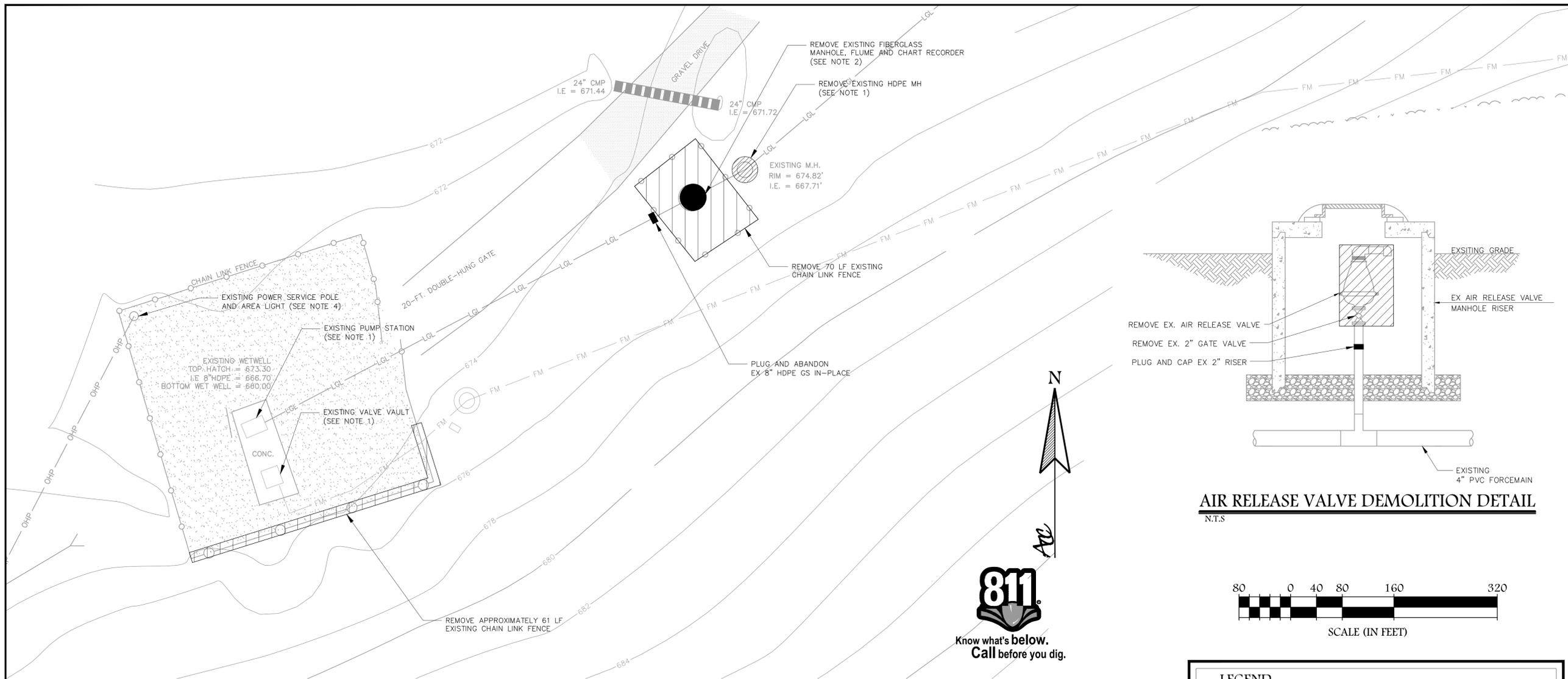
PROJECT NUMBER:

G014-102

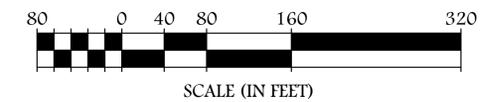
MAY 2016

EXISTING
CONDITIONS
AND
DEMOLITION
PLAN

C-001



AIR RELEASE VALVE DEMOLITION DETAIL
N.T.S.

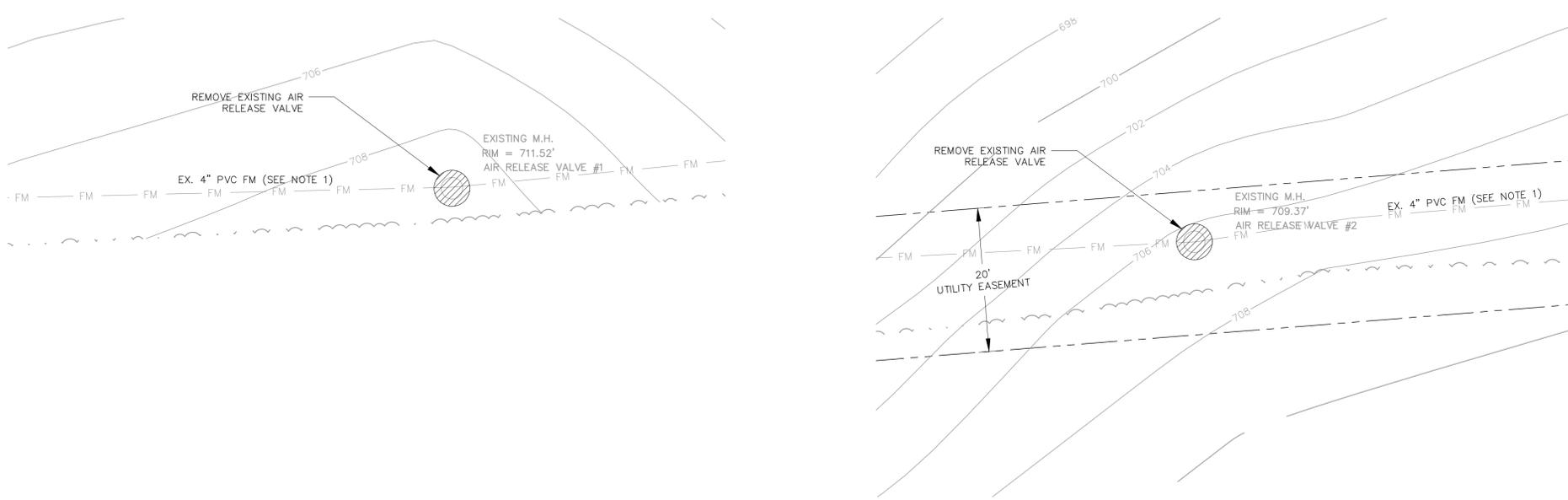


LEGEND		
EXISTING	NEW	DESCRIPTION
---	---	PROPERTY LINE
---	---	BUFFER
~~~~~	~~~~~	TREE LINE
---	---	PROMINENT CONTOUR
---	---	INTERMEDIATE CONTOUR
XX	XX	SILT FENCE
FM	FM	FORCE MAIN
LGL	LGL	LEACHATE GRAVITY LINE
---	---	GRAVEL ACCESS ROAD
OHP	OHP	OVERHEAD POWER LINE
---	---	FENCE LINE
---	---	UTILITY 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 706-506-5901.
  - CONTRACTOR SHALL COORDINATE ELECTRIC SERVICE AND AREA LIGHT FOR NEW STATION WITH GEORGIA POWER. SEE SHEET E-101 FOR ADDITIONAL INFORMATION.

**EXISTING PUMP STATION SITE DEMOLITION PLAN**

SCALE: AS NOTED



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

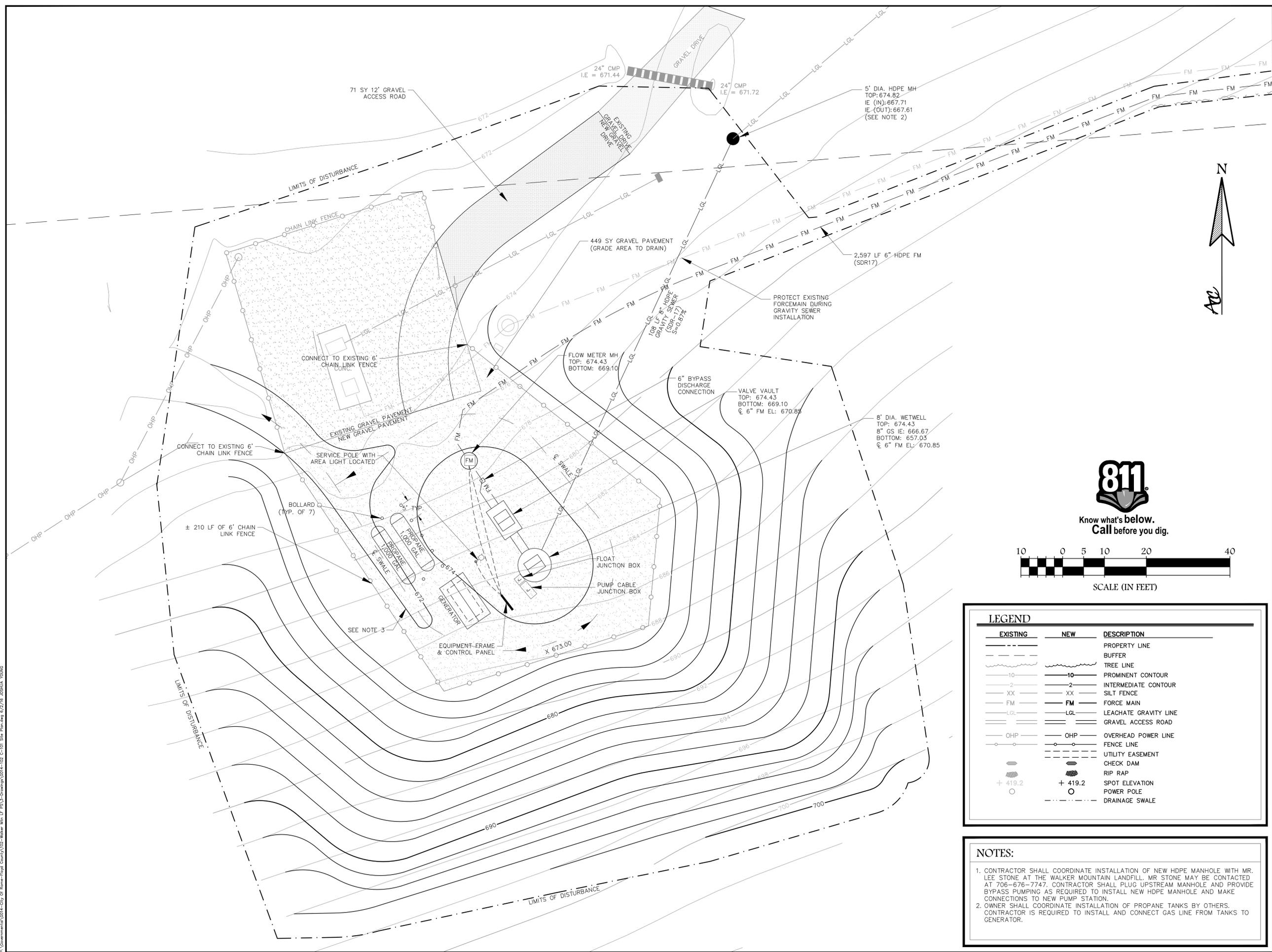
SCALE: AS NOTED

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

SCALE: AS NOTED

F:\Governmental\014-City of Rome-Floyd County\014-001 Existing Cond. And Demol. Planning 5/25/16 JOSHUA YOUNG

F:\Governmental\014-City of Rome-Floyd County\102-Drawing\014-102-C-101-Site Plan.dwg 6/2/16 JOSHUA YOUNG



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



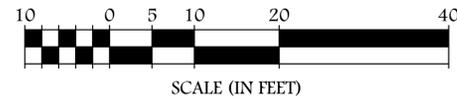
06930  
 LEVEL II CERTIFICATION

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



LEGEND		
EXISTING	NEW	DESCRIPTION
---	---	PROPERTY LINE
---	---	BUFFER
---	---	TREE LINE
---	---	PROMINENT CONTOUR
---	---	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
+	+	SPOT ELEVATION
○	○	POWER POLE
---	---	DRAINAGE SWALE

**NOTES:**

- CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW HDPE MANHOLE WITH MR. LEE STONE AT THE WALKER MOUNTAIN LANDFILL. MR STONE MAY BE CONTACTED AT 706-676-7747. CONTRACTOR SHALL PLUG UPSTREAM MANHOLE AND PROVIDE BYPASS PUMPING AS REQUIRED TO INSTALL NEW HDPE MANHOLE AND MAKE CONNECTIONS TO NEW PUMP STATION.
- OWNER SHALL COORDINATE INSTALLATION OF PROPANE TANKS BY OTHERS. CONTRACTOR IS REQUIRED TO INSTALL AND CONNECT GAS LINE FROM TANKS TO GENERATOR.

**REVISIONS**

A. Initial Issue	06/30/2015
B. Revised Per Owner Comment	08/05/2015
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP  
 Checked by: [Signature]

PROJECT NUMBER:  
 G014-102  
 MAY 2016

SITE PLAN  
 C-101





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



06930  
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
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP  
Checked by: ML

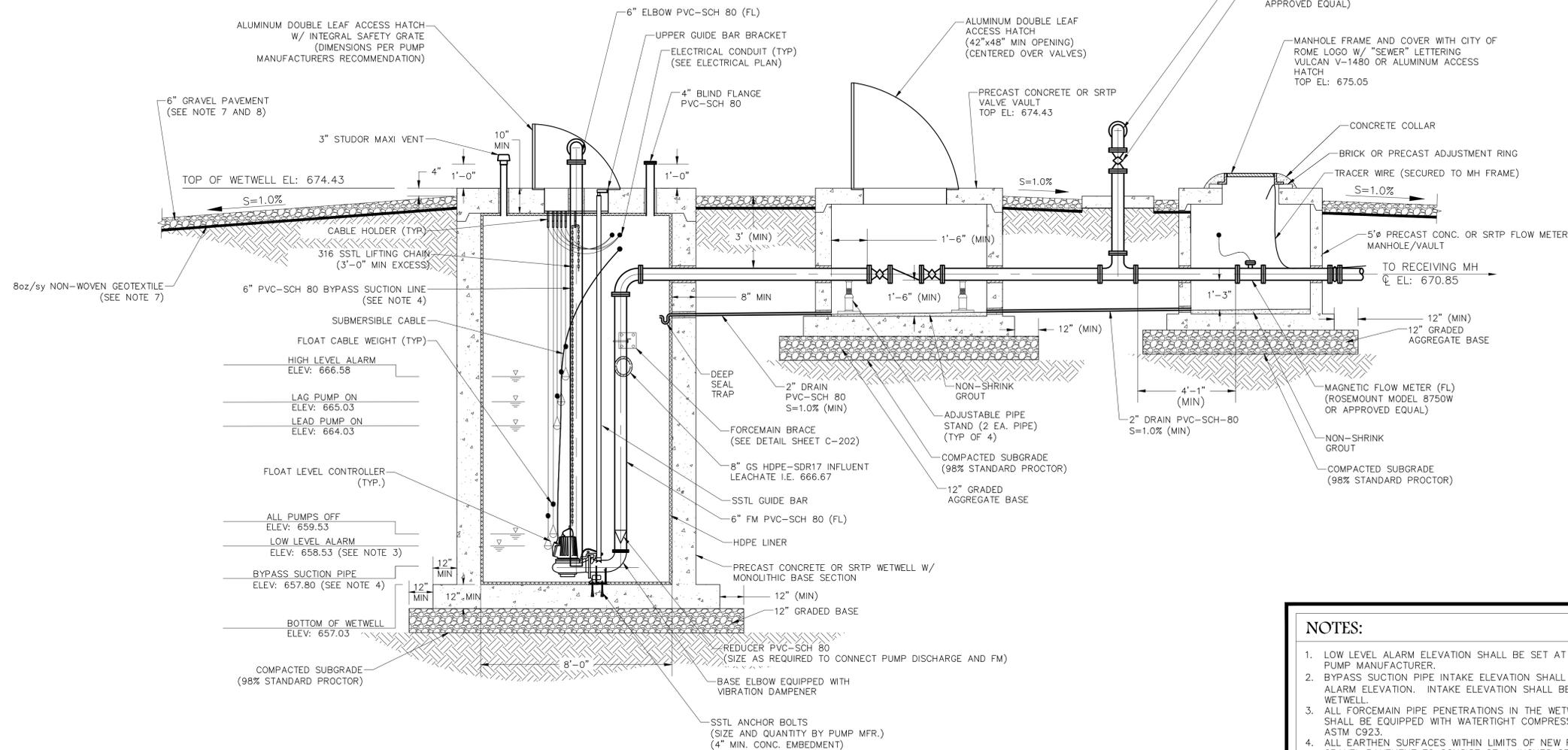
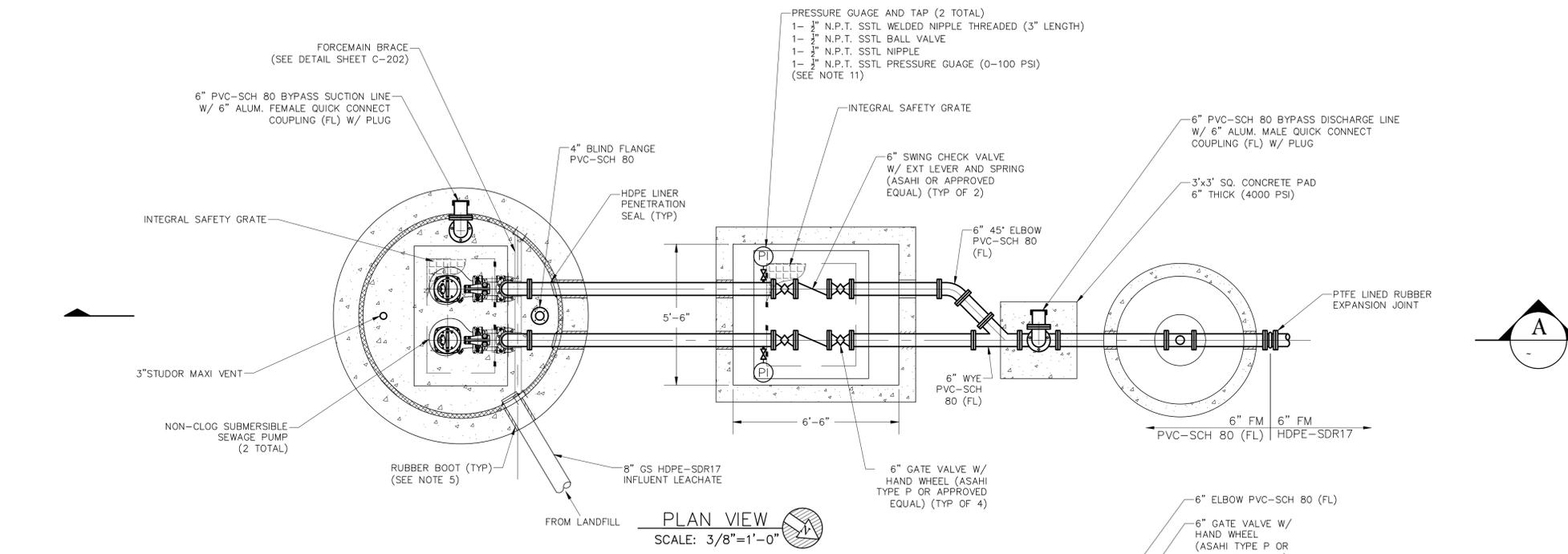
PROJECT NUMBER:

G014-102

MAY 2016

PUMP STATION  
PLAN AND  
SECTION

C-201



- NOTES:**
1. LOW LEVEL ALARM ELEVATION SHALL BE SET AT MINIMUM PUMP SUBMERGENCE AS REQUIRED BY PUMP MANUFACTURER.
  2. BYPASS SUCTION PIPE INTAKE ELEVATION SHALL BE PLACED A MINIMUM OF 6" BELOW LOW LEVEL ALARM ELEVATION. INTAKE ELEVATION SHALL BE A MINIMUM OF 8" FROM THE BOTTOM OF THE WETWELL.
  3. ALL FORCEMAIN PIPE PENETRATIONS IN THE WETWELL, VALVE VAULT AND FLOW METER MANHOLE SHALL BE EQUIPPED WITH WATERTIGHT COMPRESSION TYPE RUBBER BOOTS IN ACCORDANCE WITH ASTM C923.
  4. ALL EARTHEN SURFACES WITHIN LIMITS OF NEW FENCING SHALL RECEIVE GRAVEL PAVEMENT. GRAVEL PAVEMENT TO CONSIST OF 4-INCHES OF NO. 3 STONE OVER NON-WOVEN GEOTEXTILE FABRIC (MIN. 8 OZ./SY.). ALL AREAS RECEIVING GRAVEL PAVEMENT TO HAVE UPPER 12-INCHES OF SUBGRADE COMPACTED TO 98% STANDARD PROCTOR DENSITY. SEE SHEET C-101 FOR EXTENT OF NEW FENCING AND NEW GRAVEL PAVEMENT AREA.
  5. GRAVEL PAVEMENT SHALL MEET THE REQUIREMENTS OF GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATION SECTION 800.01 GROUP 1. STONE SIZE SHALL BE NO. 57. CONTRACTOR SHALL ORIENT PRESSURE GAUGES SO THEY ARE VISIBLE WITHOUT ENTERING VALVE VAULT. CONTRACTOR MAY ADD 1/2" SSSL FITTING TO ACCOMMODATE VISIBILITY.
  6. PUMP STATION PANEL SHALL BE FLOAT/RELAY TYPE CONTROLLER. PANEL TYPE/DESIGN TO BE APPROVED BY CITY OF ROME PRIOR TO CONTROL PANEL BEING ORDERED. FAILURE TO OBTAIN PANEL DESIGN APPROVAL BY THE CITY OF ROME SHALL RELIEVE THE CITY OF ROME FROM ANY FINANCIAL OBLIGATION FOR PAYMENT OF A PANEL NOT APPROVED BY THE CITY OF ROME.

SECTION  
SCALE: 3/8"=1'-0"

F:\Governmental\G014-City of Rome-Floyd County\102-Drawings\G014-102-SHEET\201-C-201.dwg 6/27/16 JOSHUA YOUNG



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



06930  
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
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP  
Checked by: [Signature]

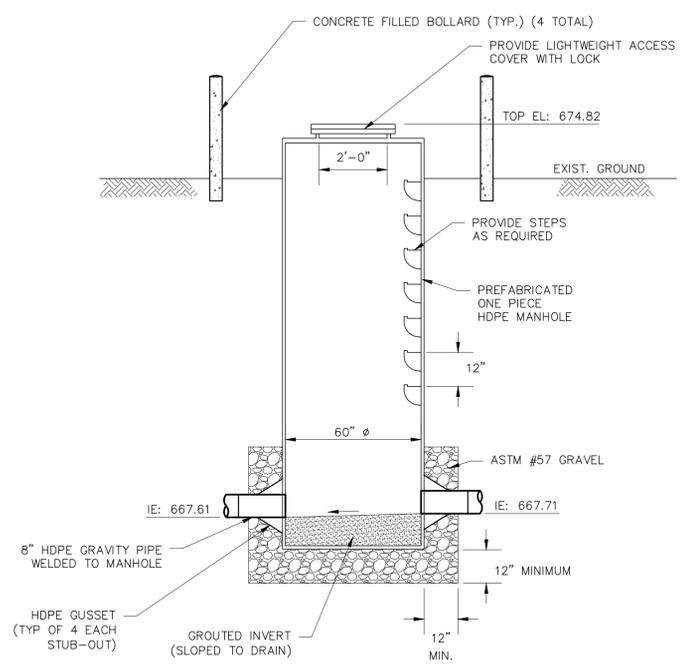
PROJECT NUMBER:

G014-102

MAY 2016

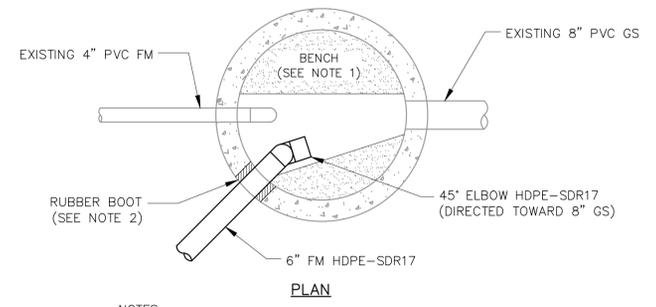
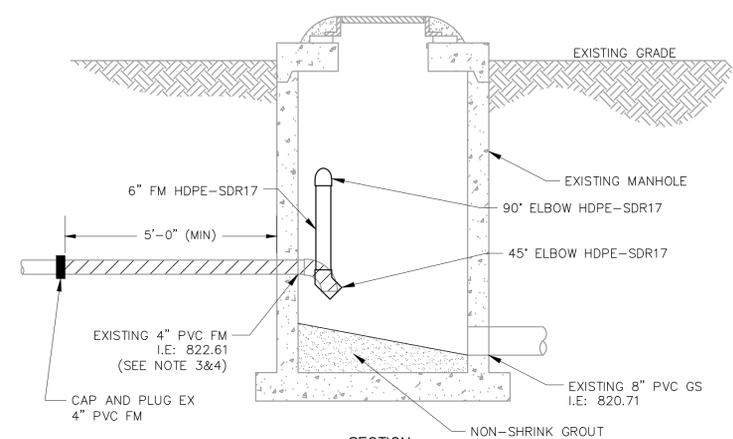
PUMP STATION  
DETAILS

C-202



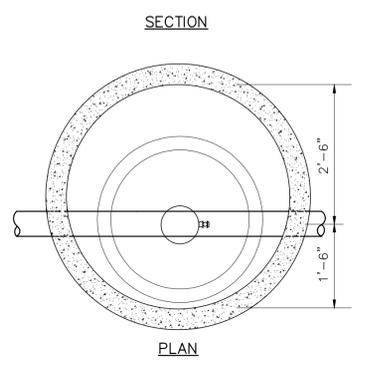
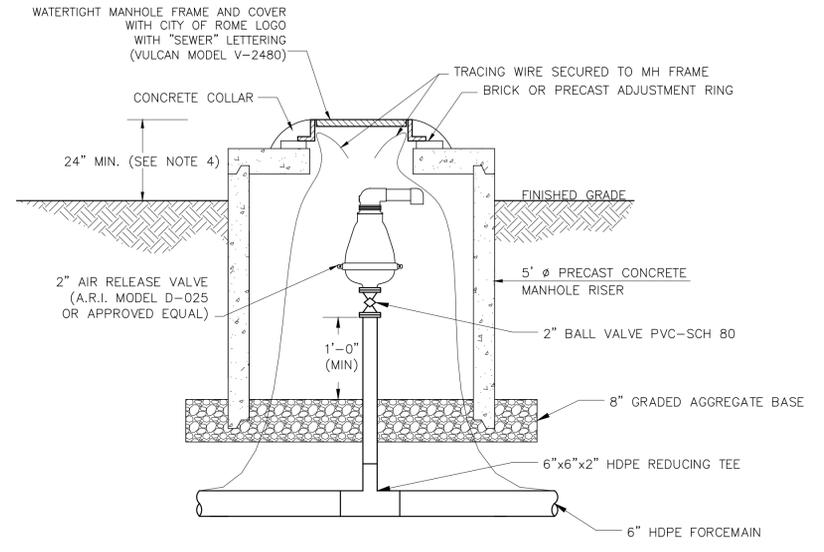
- NOTES:
1. WALL THICKNESS TO BE DETERMINED BY MANUFACTURER FOR MANHOLE DEPTH AND LOADING.
  2. PROVIDE 2 CONCRETE BOLLARDS ON ROADWAY SIDE OF EACH MANHOLE
  3. STUB-OUTS SHALL BE SLOPED TO MATCH INFLUENT AND EFFLUENT PIPE.

**HDPE GRAVITY SEWER MANHOLE**  
N.T.S.



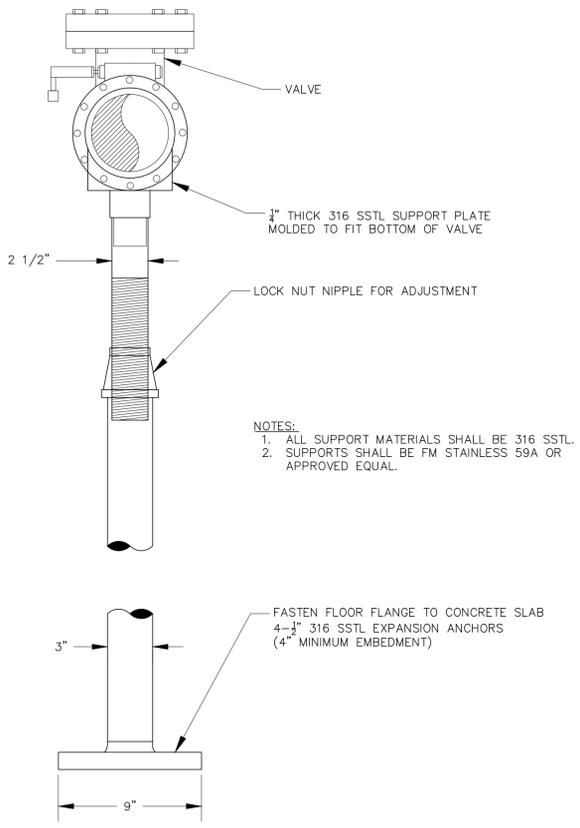
- NOTES:
1. CONTRACTOR SHALL RE-FORM RECEIVING MANHOLE BENCHING AND FLOW CHANNEL AS REQUIRED TO DIRECT 6" FM DISCHARGE TO EXISTING 8" PVC GRAVITY SEWER.
  2. CONTRACTOR SHALL CORE DRILL PENETRATION FOR NEW 6" HDPE FM.
  3. CONTRACTOR SHALL PLUG 4" FM PENETRATION WITH NON-SHRINK GROUT AND REMOVE A MINIMUM OF 5" OF EXISTING 4" FM OUTSIDE OF THE MANHOLE.
  4. EXISTING 4" FM SHALL REMAIN IN SERVICE DURING CONSTRUCTION OF NEW PUMP STATION. DEMOLITION AND ABANDONMENT OF EXISTING 4" SHALL OCCUR AFTER NEW PUMP STATION IS IN SERVICE.

**RECEIVING MANHOLE #9 DETAIL**  
N.T.S.

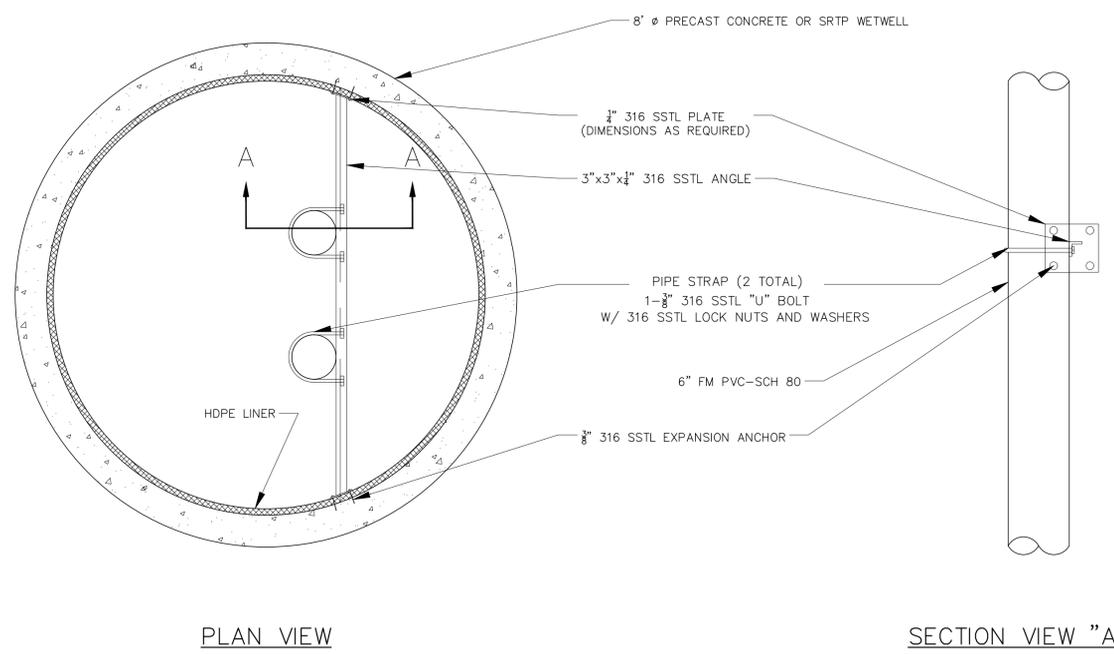


- NOTES:
1. PRECAST CONCENTRIC CONE RISERS MAY BE USED WHERE REQUIRED FOR DEPTH.
  2. THE MANHOLE FRAME AND COVER SHALL BE CENTERED OVER THE VALVE.
  3. MANHOLE SHALL BE COATED INSIDE AND OUT WITH 1 MIL BITUMINOUS COATING.
  4. MANHOLES PLACED OUTSIDE OF PAVEMENT SHALL BE A MINIMUM OF 24" ABOVE FINISHED GRADE.
  5. AIR RELEASE VALVE SHALL BE LOCATED AT HIGH POINTS ON THE FORCEMAIN.
  6. CONTRACTOR SHALL INSTALL FORCEMAIN AT SUFFICIENT DEPTH TO ACCOMMODATE AIR RELEASE VALVE, SHUT OFF VALVE AND FITTINGS.

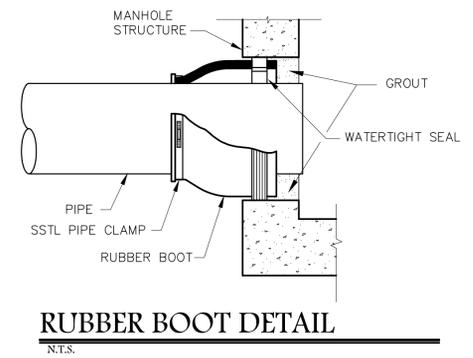
**AIR RELEASE VALVE IN MANHOLE DETAIL**  
N.T.S.



**PIPE/VALVE SUPPORT DETAIL**  
N.T.S.

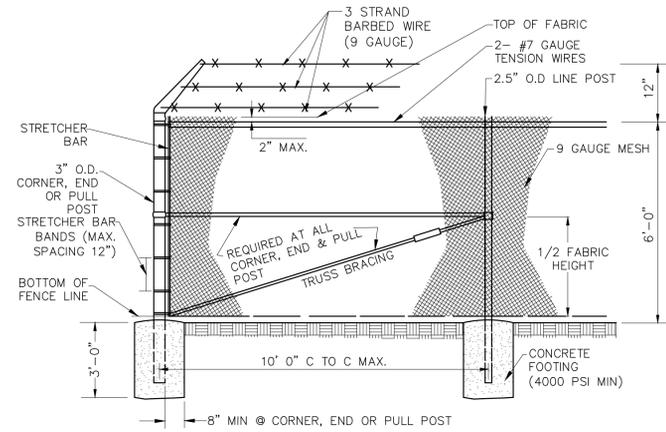


**FORCEMAIN ATTACHMENT DETAIL**  
N.T.S.



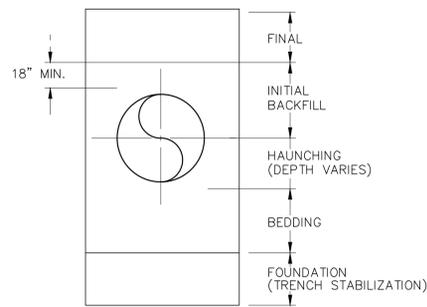
**RUBBER BOOT DETAIL**  
N.T.S.

F:\Governmental\G014-City of Rome-Floyd County\102-SHEET\102-102.dwg 6/27/16 JOSHUA YOUNG



**ELEVATION OF CHAIN-LINK FENCE**

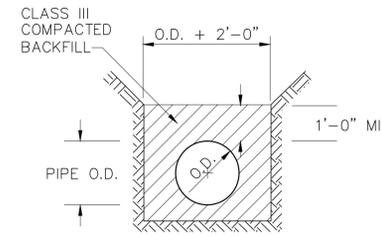
N.T.S.



**TRENCH TERMINOLOGY DETAIL**

N.T.S.

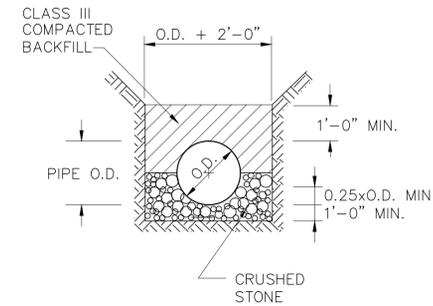
NOTE: SEE SPECIFICATIONS AND PIPE BEDDING AND HAUNCHING DETAILS FOR DIMENSIONS AND MATERIALS



**CLASS III**

**PRESSURE SEWER PIPE BEDDING DETAIL**

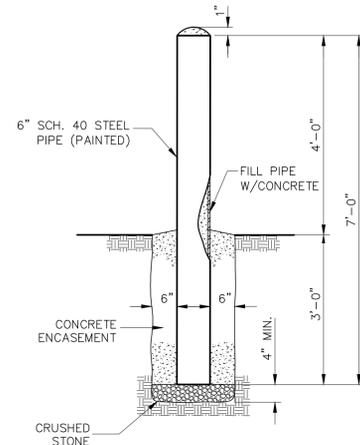
N.T.S.



**CLASS IA**

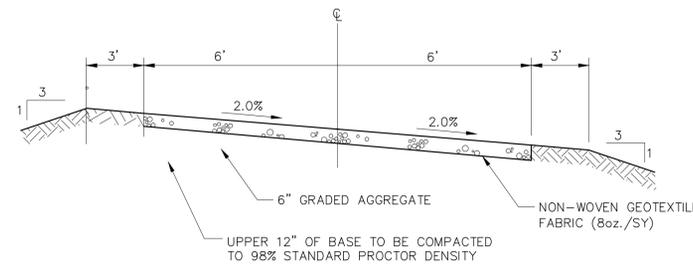
**GRAVITY SEWER PIPE BEDDING DETAIL**

N.T.S.



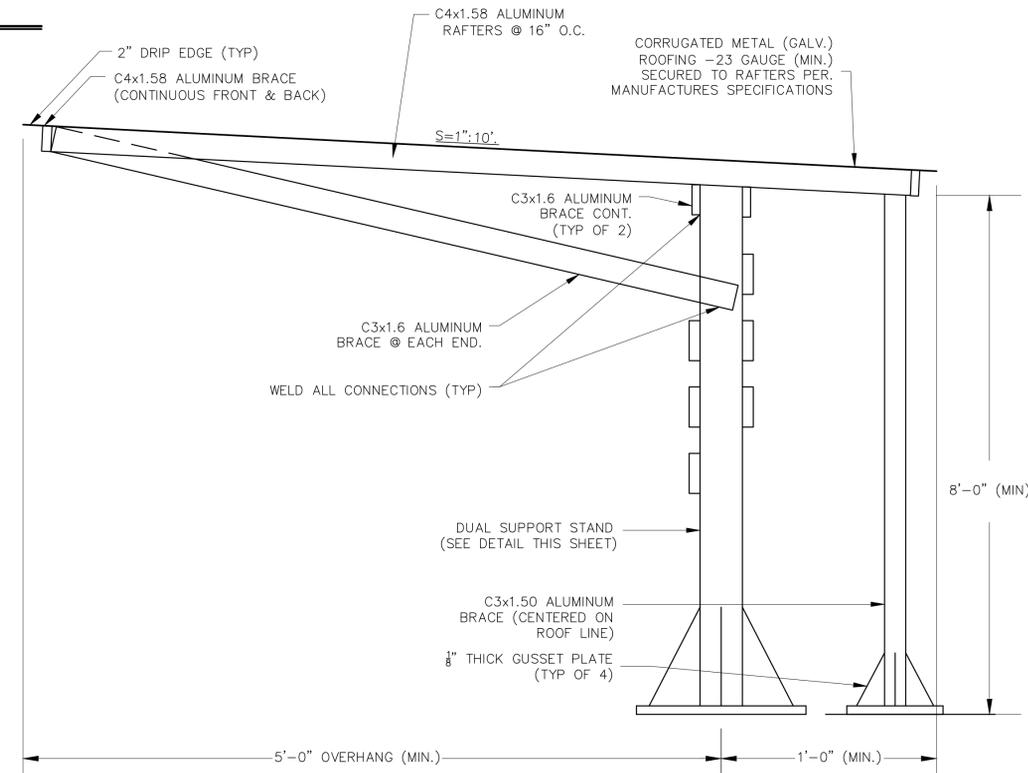
**BOLLARD DETAIL**

N.T.S.



**GRAVEL ACCESS ROAD DETAIL**

N.T.S.



**CONTROL PANEL SUNSHADE DETAIL**

N.T.S.

F:\Governmental\014-City of Rome-Floyd County\102-Sheet\102-0302.dwg 5/25/16 JOSHAUA YOUNG



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



06930  
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
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP  
Checked by: [Signature]

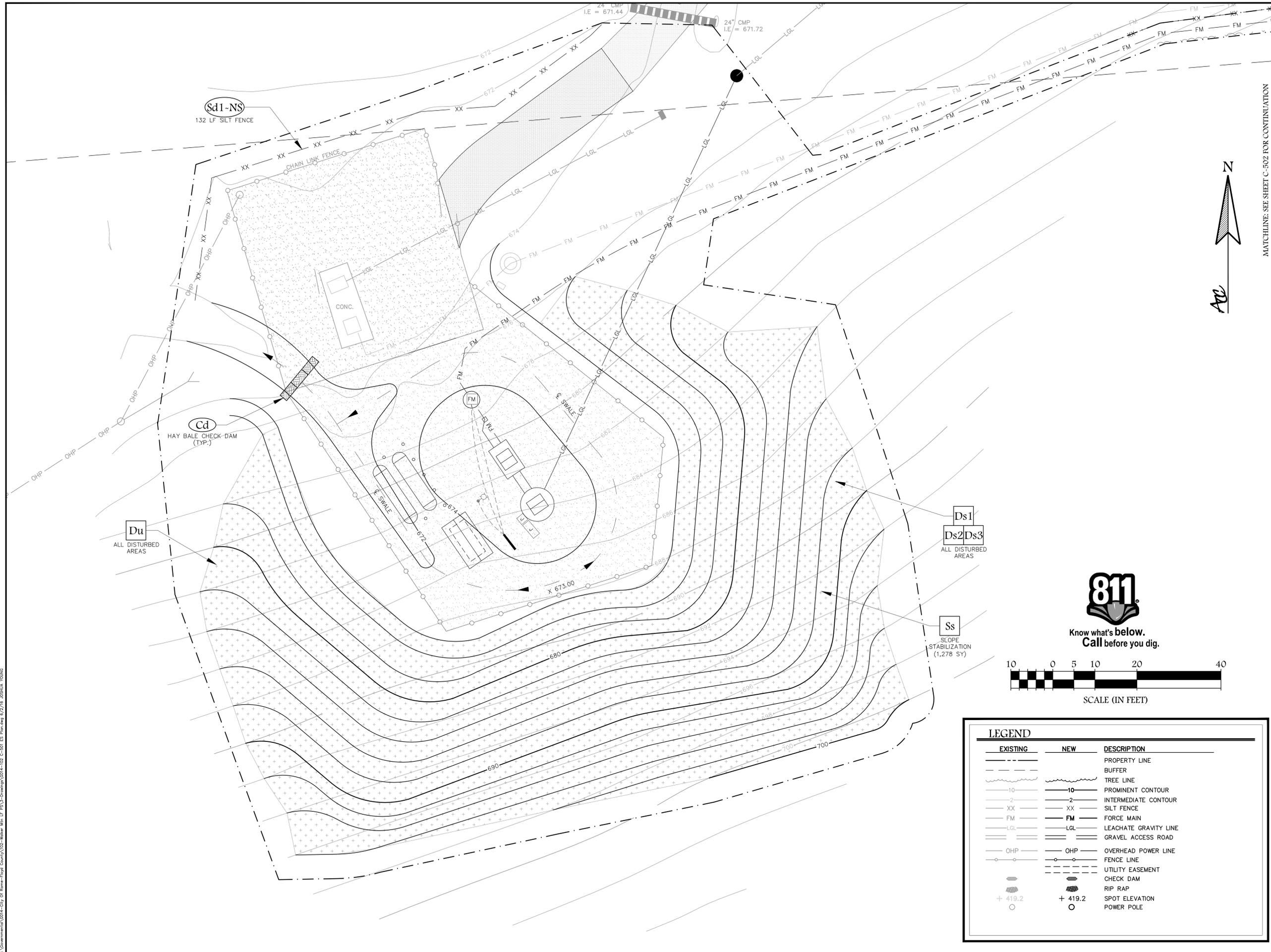
PROJECT NUMBER:

G014-102

MAY 2016

PUMP STATION  
DETAILS

C-203



MATCHLINE: SEE SHEET C-502 FOR CONTINUATION



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



06930  
 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
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP  
 Checked by: ML

PROJECT NUMBER:  
 G014-102  
 MAY 2016

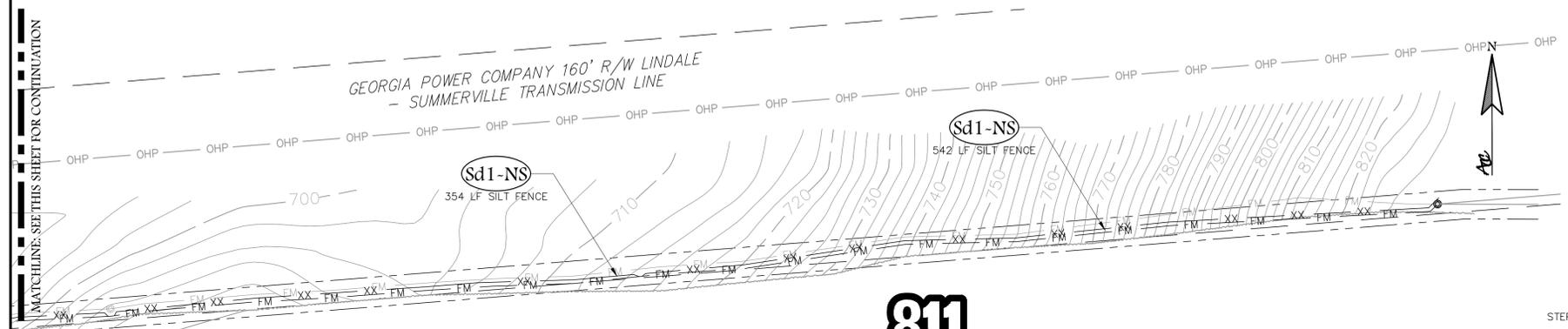
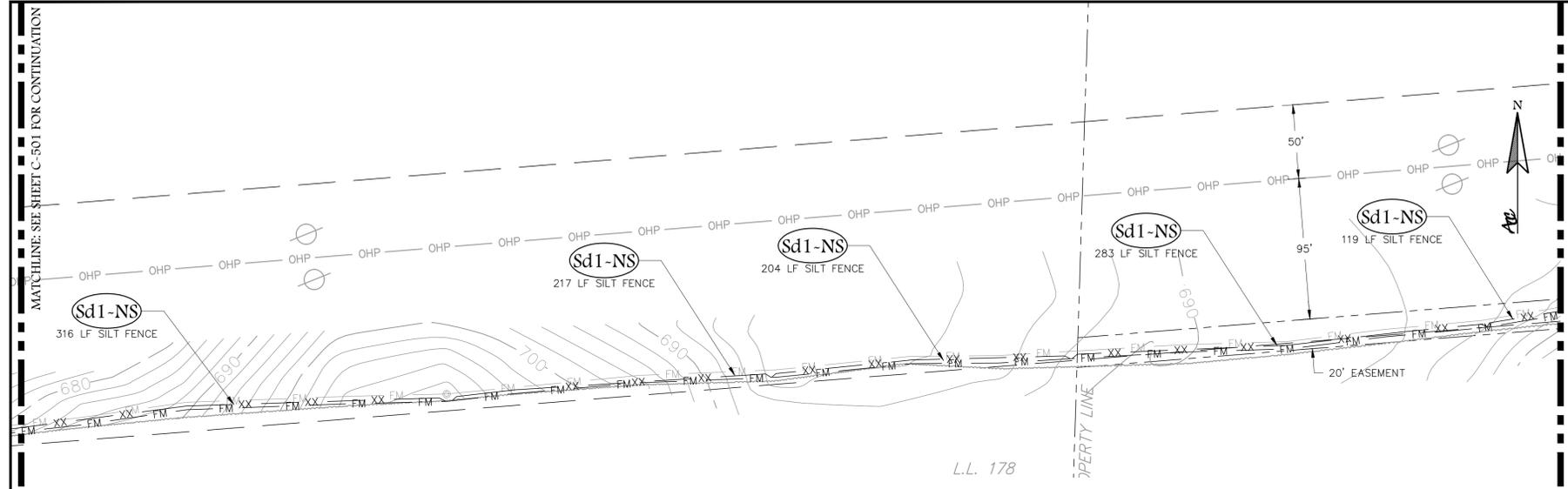
EROSION,  
 SEDIMENTATION  
 AND POLLUTION  
 CONTROL PLAN

C-501

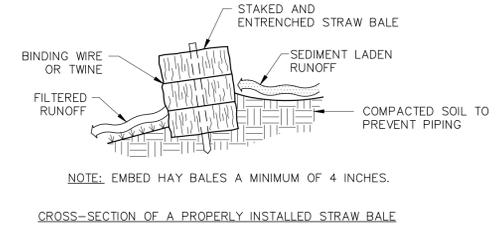
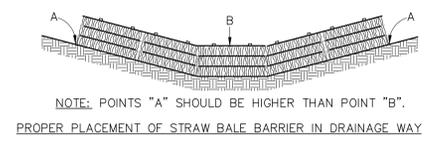
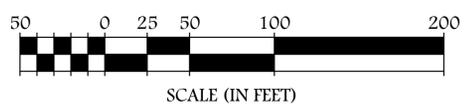


LEGEND		DESCRIPTION
EXISTING	NEW	
---	---	PROPERTY LINE
---	---	BUFFER
---	---	TREE LINE
-10-	-10-	PROMINENT CONTOUR
-2-	-2-	INTERMEDIATE CONTOUR
XX	XX	SILT FENCE
FM	FM	FORCE MAIN
LGL	LGL	LEACHATE GRAVITY LINE
---	---	GRAVEL ACCESS ROAD
OHP	OHP	OVERHEAD POWER LINE
○	○	FENCE LINE
---	---	UTILITY EASEMENT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

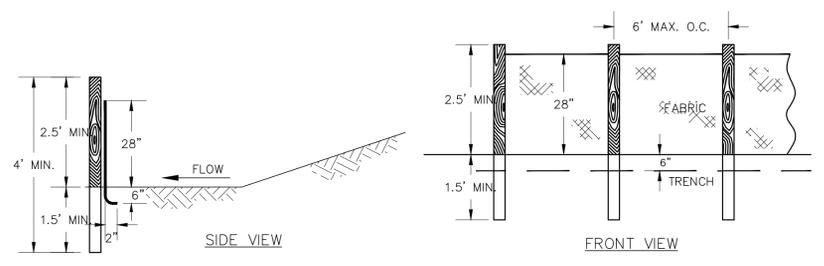
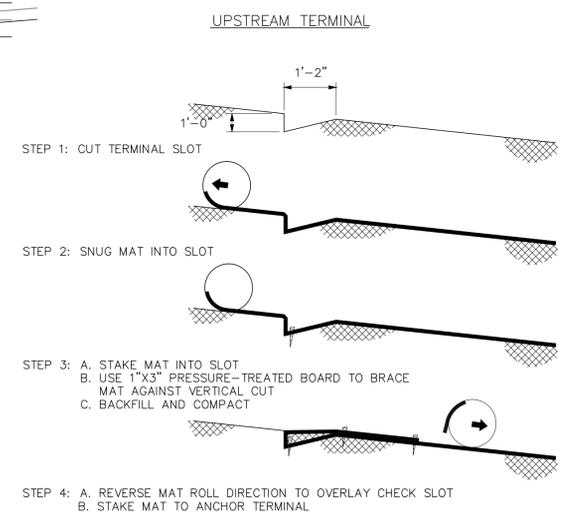
F:\Governmental\G014-City of Rome-Floyd County\102-Webster Min LF PS\3-Drawings\G014-102 C-501 ES Plan.dwg 6/2/16 JOSHUA YOUNG



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

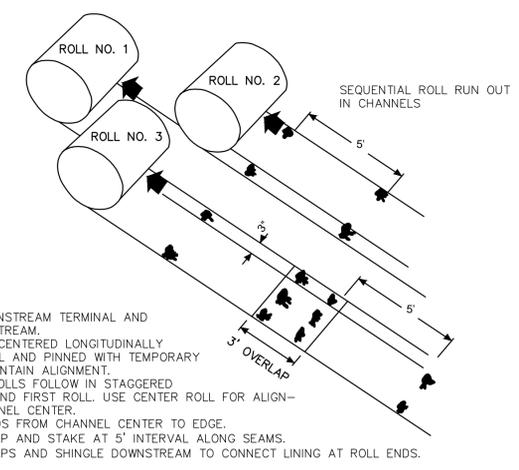
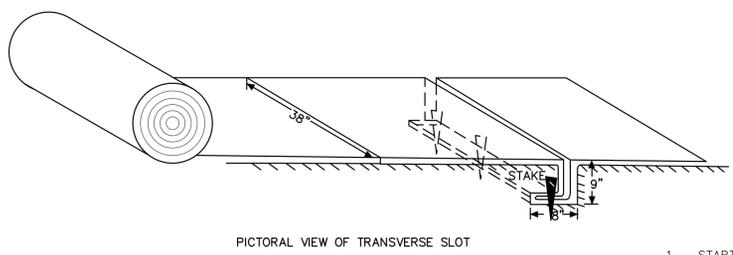


**CHECK DAM - HAY BALES**  
N.T.S.



- NOTES:
1. USE 36" D.O.T. APPROVED FABRIC
  2. USE WOOD OR STEEL POST.
- MAINTENANCE NOTES:
1. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE BARRIER
  2. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED.
  3. TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
  4. 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.



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

**SILT FENCE DETAIL "NS"**  
N.T.S.

**Sd1 MATTING AND BLANKETS**  
N.T.S.

Ss

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

06930  
LEVEL II CERTIFICATION

PROJECT:  
**WALKER MOUNTAIN MSWLF - PUMP STATION**  
LAND LOT 178 & 179  
FLOYD COUNTY, GA

**ROME**  
G·E·O·R·G·I·A  
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
C. Revised Per Owner Comment	05/27/2016

Drawn by: WP  
Checked by: ML

PROJECT NUMBER:  
**G014-102**  
MAY 2016

**EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND DETAILS**  
**C-502**

### DUPLEX PUMP STATION ONE LINE SCHEDULE

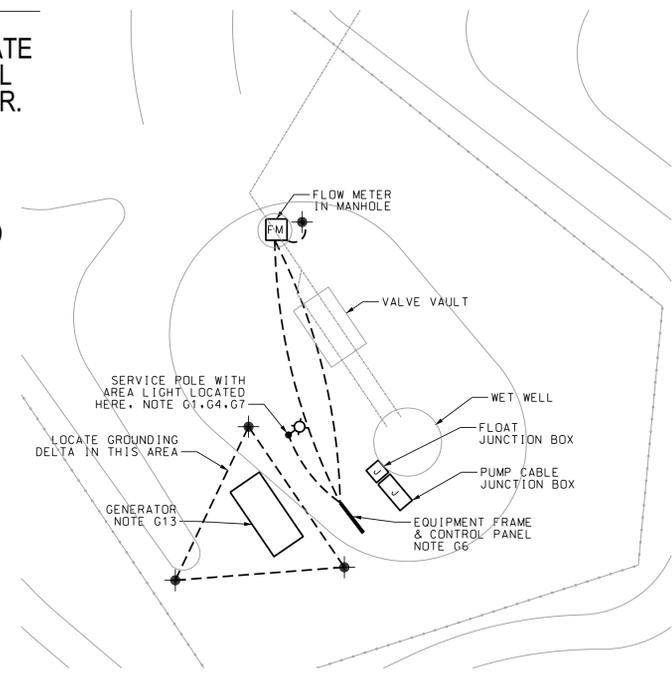
ITEM#	DESCRIPTION	ITEM#	DESCRIPTION
1	35 HP, 460V, 3PH, 39 FLA EACH PUMP	11	1 1/2" C W/4NO. 8, 1NO. 8(G), CONDUCTORS SHALL NOT EXCEED 18" IN LENGTH
1A	2 1/2" C W/4NO. 3/0	12	20A/2P CIRCUIT BREAKER, 14 000 MIN. A.I.C. @ 480V
1B	2 1/2" C W/3NO. 3/0, 1NO. 6(G)	13	7.5 KVA DRY TYPE XFMR, 480V 1PH PRIMARY, 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/ 3NO. 4, 1NO. 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/2NO. 12 1NO.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:

- THE WILL PROVIDE A NEW SERVICE DROP TO THE SERVICE POLE. COORDINATE WITH TIM TURNER, GEORGIA POWER, 706-236-1474.
- 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.
- 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.
- THE METER SHALL BE MOUNTED ON THE SERVICE POLE. COORDINATE WITH THE CITY OF ROME AND THE ELECTRICAL UTILITY.
- 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.
- 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.
- 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.
- ALL ATTACHMENT HARDWARE SHALL BE STAINLESS STEEL, REFER TO DUAL SUPPORT STAND DETAIL, SHEET C-203, FOR FABRICATION REQUIREMENTS.
- PROVIDE TYPE EYS TYPE CONDUIT SEAL-OFF. SEAL WITH SEALING COMPOUND. MAKE POWER, SENSOR & LEVEL CONTROL CONNECTIONS IN THE JUNCTION BOXES INDICATED.
- PROVIDE A HOFFMAN BULLETIN A4S, 14 GAUGE 316 STAINLESS STEEL JUNCTION BOX WITH PAINTED STEEL BACKPLATE.
- 2" C W/BELDEN 1042A (16AWG T.S. 12PR) CABLE FOR ANNUNCIATION OF GENERATOR ALARMS TO SCADA SYSTEM.
- 2-1" C W/CONDUCTORS AS REQUIRED FOR GENERATOR CONTROLS, ONE 2" C W/BELDEN 1042A (16AWG T.S. 12 PR) CABLE.
- THE GENERATOR DESIGN IS BASED UPON A CUMMINS POWER SYSTEMS N-POWER MODEL GPFA 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.
- SIZE FOR SEVERE DUTY APPLICATIONS.
- CONDUIT UP RISER POLES SHALL BE RGS.
- 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:

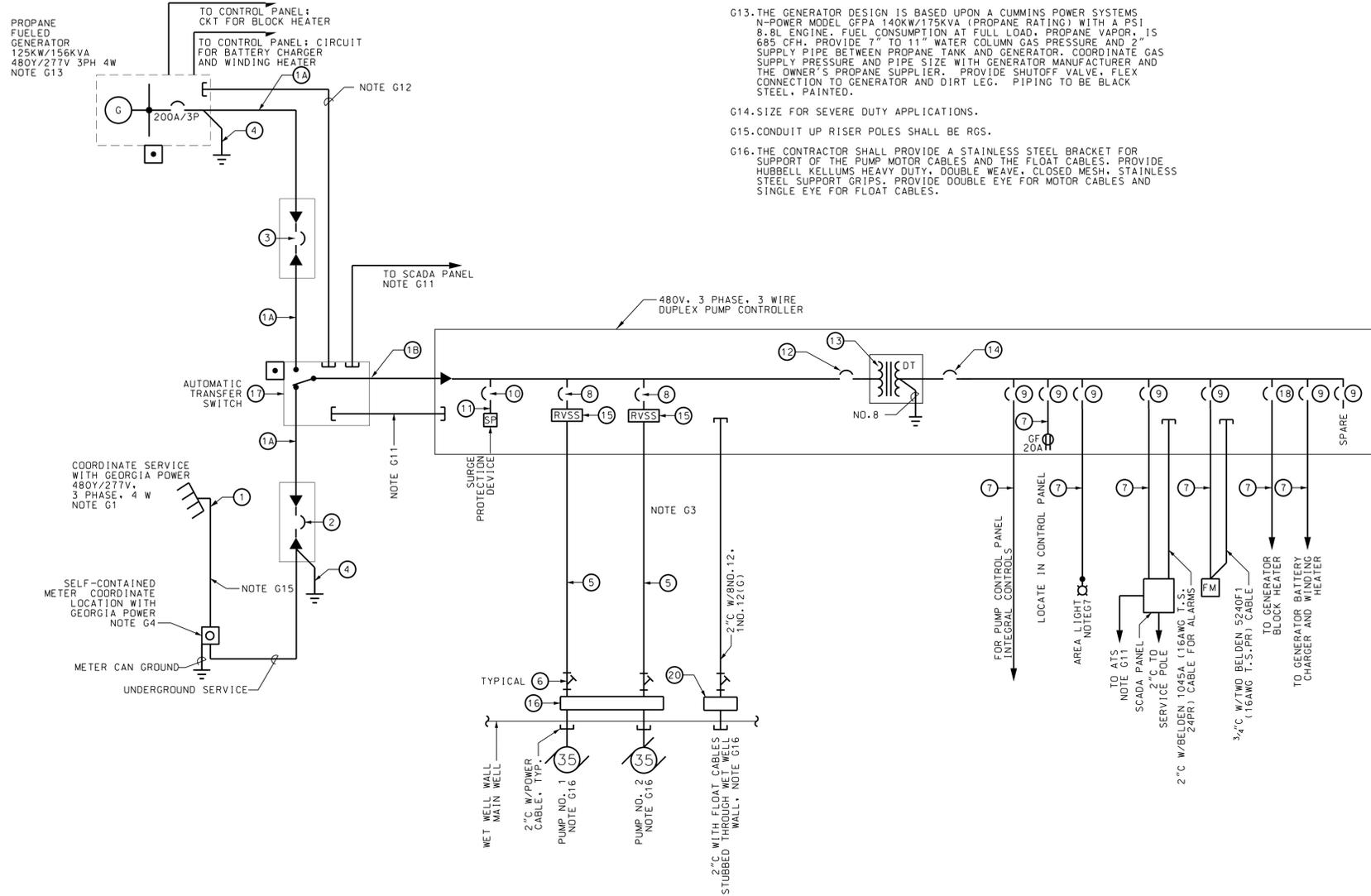
CONTRACTOR SHALL COORDINATE LAYOUT OF ALL ELECTRICAL RELATED COMPONENTS WITH MR. RICHARD PRYOR BEFORE COMMENCEMENT OF ELECTRICAL APPURTENANCES. MR. PRYOR CAN BE CONTACTED AT 706-506-5901.



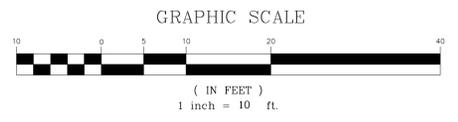
**1 SITE PLAN - ELECTRICAL**  
E-101 SCALE: 1" = 10'

### LEGEND

- EQUIPMENT AS NOTED
- MOTOR CIRCUIT BREAKER AND VFD
- 20A 2P 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 PDR12 WITH 150W HPS LAMP AND BKT-4-PP POLE BRACKET. NOTE G7
- SP 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



**IF YOU DIG GEORGIA... CALL US FIRST!**  
1-800-282-7411  
UTILITIES PROTECTION CENTER  
IT'S THE LAW

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



PROJECT:  
**WALKER MOUNTAIN MSWLF - PUMP SATAITON**  
LAND LOT 178  
FLOYD COUNTY, GA

**ROME**  
G.E.O.R.G.I.A.  
CITY OF ROME PUBLIC WORKS DEPARTMENT  
200 VAUGHN ROAD  
ROME, GA 30162  
(706) 236-4466

REVISIONS

NO.	Owner Comments	DATE
0.		06-05-2015

Drawn by: **CC** Checked by: **CC**

PROJECT NUMBER:  
**G014-102**  
27 MAY 2016

ELECTRICAL PLAN:  
SITE, ONE-LINE  
DIAGRAM, SCHEDULE,  
GENERAL NOTES &  
LEGEND  
**E-101**



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



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

LAND LOT 178  
 FLOYD COUNTY, GA

**ROME**  
 G·E·O·R·G·I·A  
 CITY OF ROME PUBLIC WORKS  
 DEPARTMENT  
 200 VAUGHN ROAD  
 ROME, GA 30162  
 (706) 236-4466

REVISIONS  
 0. Owner Comments 06-05-2015

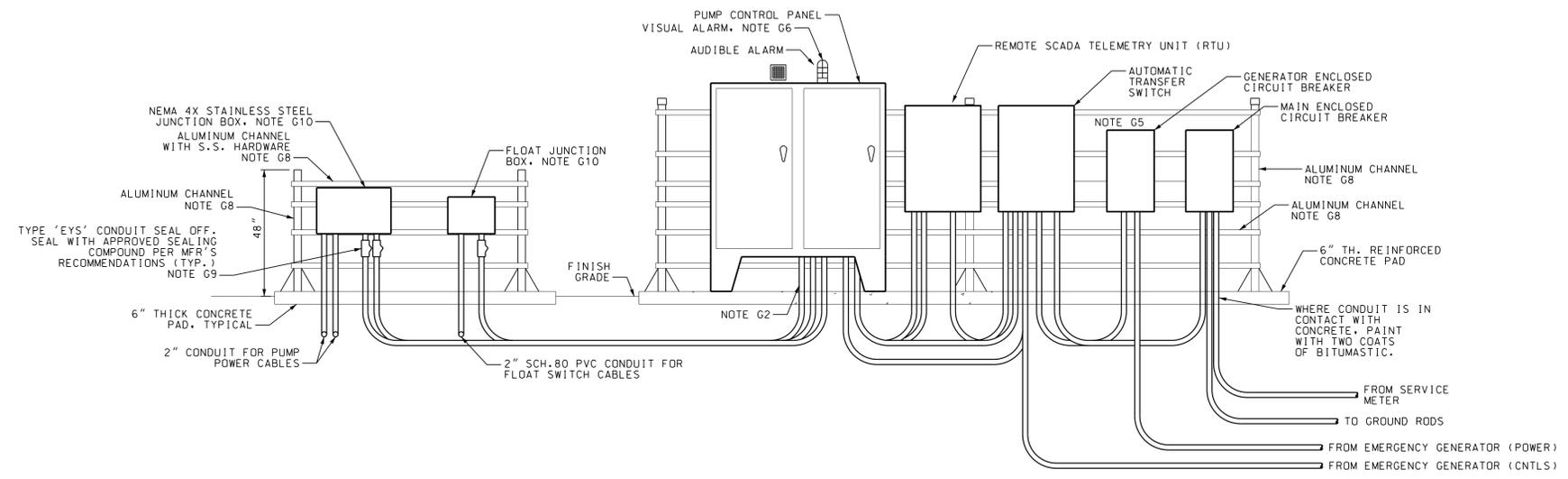
NO.	DESCRIPTION	DATE

Drawn by: CC Checked by: CC

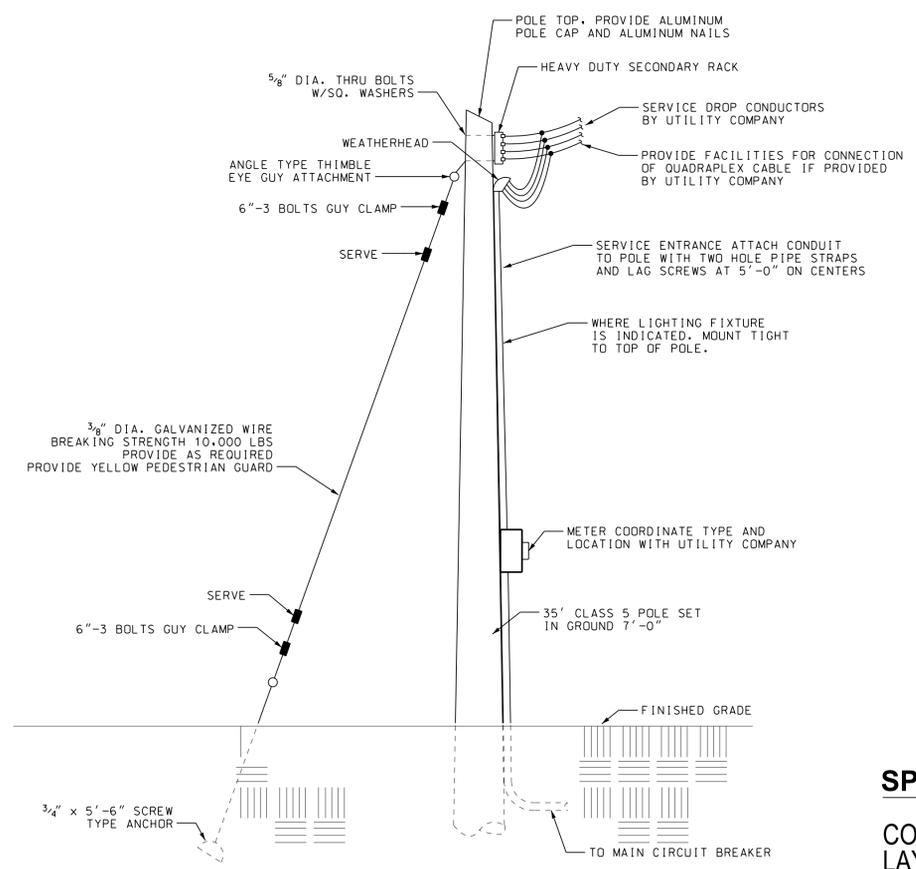
PROJECT NUMBER:  
 G014-102  
 27 MAY 2016

ELECTRICAL DETAILS  
 PLAN

E-102



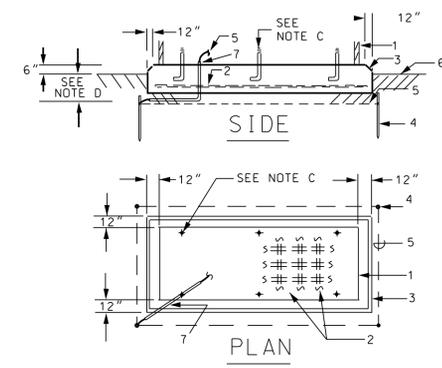
**3 EQUIPMENT BACKBOARD DETAIL**  
**E-102 NOT TO SCALE**



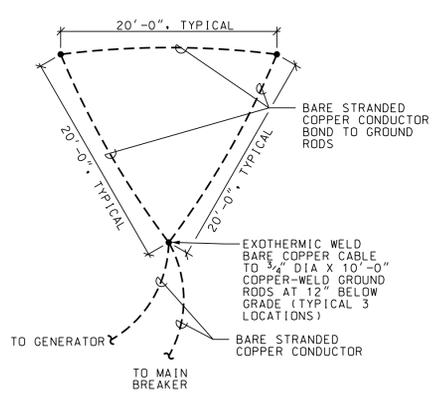
**4 SERVICE POLE DETAIL**  
**E-102 NOT TO SCALE**

**SPECIAL NOTE:**  
 CONTRACTOR SHALL COORDINATE LAYOUT OF ALL ELECTRICAL RELATED COMPONENTS WITH MR. RICHARD PRYOR BEFORE COMMENCEMENT OF CONSTRUCTION RELATED TO ELECTRICAL APPURTENANCES. MR. PRYOR CAN BE CONTACTED AT 706-506-5901.

- NOTES:**
- #8 GA. STEEL WIRE MESH, 6" O.C. OR #6 REBAR, 12" O.C. HORIZONTALLY AND VERTICALLY.
  - CONNECT TO GENERATOR GROUND CONNECTION LUG. VERIFY STUB UP LOCATION WITH MANUFACTURERS SHOP DRAWINGS. WATERPROOF CONDUIT END WITH SEALING COMPOUND.
  - ANCHOR BOLTS FURNISHED WITH GENERATOR SET. PROVIDE SIX MINIMUM. TIE TO REINFORCING STEEL.
  - DIMENSION SHALL BE 6" (12" OVERALL DEPTH) UP TO & INCLUDING 600 KW, 12" (18" OVERALL DEPTH) LARGER THAN 600 KW.
- GENERATOR SET ENCLOSURE OUTLINE
  - REINFORCING STEEL, NOTE A
  - 1" CHAMFER
  - 3/4" X 10' COPPERCLAD GROUND ROD AND
  - #1/0 CU BARE GROUND CONDUCTOR
  - FINISHED GRADE
  - 3/4" PVC, SEE NOTE B



**1 GENERATOR PAD DETAIL**  
**E-102 SCHEMATIC ONLY**



**2 SECONDARY ELECTRICAL GROUNDING**  
**E-102 SCHEMATIC ONLY**