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COUNTY LOCATION
SCALE: NONE

HORSELEG CREEK SANITARY SEWER PUMP STATION ADDITION

PREPARED FOR:

CITY OF ROME, GEORGIA
WATER AND SEWER DIVISION

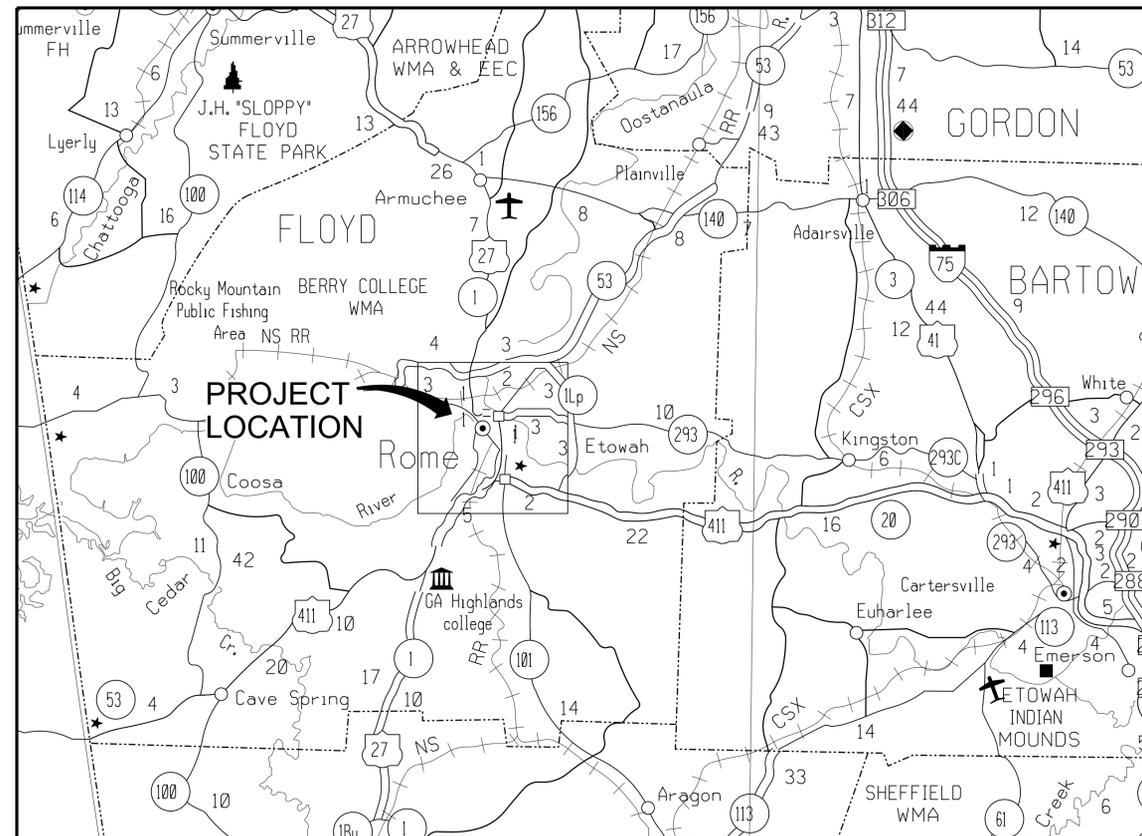
PREPARED BY:



**INSITE
ENGINEERING**

INSITE ENGINEERING, LLC.

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LOCATION MAP
SCALE: NONE

START OF PROJECT - N = 1 550 078.25
E = 1 986 618.02

END OF PROJECT - N = 1 550 719.21
E = 1 987 746.82



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PLANNING
COMMERCIAL
RESIDENTIAL

CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423



THIS SHEET CONTAINS:

COVER SHEET,
SITE LOCATION,
AND DRAWING
INDEX

SCALE: NONE
SHEET 1 OF 37

GN-1

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ABBREVIATIONS

ACQD	ACQUIRED
AC	ACRE
AVE	AVENUE
BM	BENCH MARK
BLDG	BUILDING
BLVD	BOULEVARD
CIP	CAST IRON PIPE
CL	CENTER LINE
CL	CLASS
CONC	CONCRETE
COR	CORNER
CFS	CUBIC FEET PER SECOND
CY	CUBIC YARD
C & G	CURB AND GUTTER
Q	DESIGN FLOW
DIST	DISTANCE
DBL	DOUBLE
Da	DRAINAGE AREA
DI	DUCTILE IRON PIPE
ESMT	EASEMENT
EL	ELEVATION
FPS	FEET PER SECOND
GAL	GALLON
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
HOWL	HEADWALL
HWEL	HEADWATER ELEVATION
HP	HIGH POINT
HWL	HIGH WATER LEVEL
HORIZ	HORIZONTAL
INV	INVERT
JCT	JUNCTION
JB	JUNCTION BOX
LF	LINEAR FEET
LP	LOW POINT
MB	MAIL BOX
MH	MANHOLE
MP	MILEPOST
MGD	MILLION GALLONS PER DAY
NWL	NORMAL WATER LEVEL
N	NORTHING
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
POT	POINT ON TANGENT
LB	POUND
RR	RAILROAD
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
ROW	RIGHT OF WAY
SS	SANITARY SEWER
SHLDR	SHOULDER
SY	SQUARE YARD
STA	STATION
TBM	TEMPORARY BENCH MARK
VERT	VERTICAL
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENT
VCP	VITRIFIED CLAY PIPE
WL	WATER LEVEL
WM	WATER MAIN

STANDARD LEGEND

EXISTING	PROPOSED	
		SIDEWALK
		UNPAVED ROAD OR DRIVEWAY
		PAVED ROAD OR DRIVEWAY
		PAVED ROAD WITH GUTTER
		EXISTING BRIDGE, BOX CULVERT, OR STORM DRAIN (SIZE AND TYPE STRUCTURE NOTED)
		WALK BRIDGE
		RAILROAD TRACK SINGLE
		RAILROAD TRACK DOUBLE
		RAILROAD MILEPOST
		OUTDOOR ADVERTISING SIGN
		MASONRY WALL (NOTE TYPE)
		MAILBOX
		CLOTHES LINE AND POLES (NOTED)
		WELL
		LEVEE OR EARTH DAM
		WOOD FENCE
		HOG WIRE OR BARBED WIRE FENCE
		CHAIN LINK FENCE
		DROP INLET (NOTED)

UTILITIES

		SANITARY SEWER MANHOLE
		SANITARY SEWER GRAVITY LINE (NOTE DIA. OF PIPE IF KNOWN)
		SANITARY SEWER FORCE LINE (ARROW INDICATES FLOW)
		UTILITY MANHOLE (NOTE TYPE IN CIRCLE - P, T, ETC.)
		POWER JUNCTION BOX
		POWER POLE
		LIGHT POLE (NOTE TYPE)
		HIGH VOLTAGE TRANSMISSION POLE OR TOWER
		UNDERGROUND POWER CONDUIT
		OVERHEAD POWER LINES
		TELEPHONE JUNCTION BOX
		UNDERGROUND TELEPHONE CONDUIT
		OVERHEAD TELEPHONE LINES
		OVERHEAD TELEPHONE AND POWER LINES
		GUY POLE
		UTILITY POLE ANCHOR
		GAS LINE MARKER (NOTED)
		GAS METER
		GAS LINE (NOTE DIA. OF PIPE IF KNOWN)
		GAS VALVE
		WATER VALVE
		WATER LINE (NOTE DIA. OF PIPE IF KNOWN)
		WATER METER
		FIRE HYDRANT

SURVEY

		PROPERTY IRON (SIZE AND TYPE NOTED)
		PROPERTY LINE
		SECTION CORNER OR 1/4 SECTION CORNER IRON (SIZE, TYPE, AND DESCRIPTION NOTED)
		1/4 OR 1/2 SECTION LINE
		SECTION LINE
		RIGHT OF WAY MONUMENTS (NOTED FOR EXISTING)
		ROW LINE
		CONSTRUCTION LIMITS
		EASEMENT
		CONSTRUCTION EASEMENT

NATURAL

	TREES. (DRAW DOT TO SCALE OF TREE)
	HEDGES OR SHRUBBERY
	SHRUB
	FLOWER BED, GARDEN, OR ROCK GARDEN (NOTED)
	LAKE OR POND
	SWAMP, MARSH, ETC.
	DITCH OR STREAM (ARROW INDICATES DIRECTION OF FLOW)
	EARTH
	ROCK

EROSION CONTROL LEGEND

CODE	PRACTICE	DETAIL	MAP ICON	DESCRIPTION	CODE	PRACTICE	DETAIL	MAP ICON	DESCRIPTION
STRUCTURAL PRACTICES									
Cd				A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.	Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.	Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.	Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.	Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.	Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The excavated area will be filled with a temporary sediment trap from a temporary sediment basin in the lack of a pipe or riser.
Di				An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.	Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.	Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.	Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.	St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Ga				Rock filter baskets which are hand-placed into position forming soil stabilizing structures.	Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.	Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.	Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.	Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.	Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

CODE	PRACTICE	DETAIL	MAP ICON	DESCRIPTION	CODE	PRACTICE	DETAIL	MAP ICON	DESCRIPTION
VEGETATIVE PRACTICES									
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.	Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.	Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.	Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.	Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.					
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.					
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.					



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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 9/25/19



THIS SHEET CONTAINS:
STANDARD LEGEND
AND ABBREVIATIONS

SCALE: NONE
SHEET 2 OF 37

GN-2



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PROJECT SPECIFIC NOTES

1. A SUBSURFACE INVESTIGATION HAS NOT BEEN DONE. INSITE ENGINEERING, LLC ALWAYS RECOMMENDS OBTAINING A GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION. FILL COMPACTION REQUIREMENTS, FILL TYPE REQUIREMENTS, PAVEMENT BUILD UPS SHOULD BE DIRECTED AND PROVIDED BY THE GEOTECHNICAL ENGINEER.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND DESIGN STANDARDS OF THE GOVERNING AUTHORITY.
3. CONTRACTOR IS RESPONSIBLE FOR BUILDING SITES FREE OF DRAINAGE PROBLEMS DUE TO ANY DEVIATION FROM THE DESIGN PLANS.
4. GOVERNING AUTHORITIES ARE NOT RESPONSIBLE FOR ANY DRAINAGE EASEMENT OUTSIDE THE PUBLIC RIGHT-OF-WAY.
5. THE GOVERNING AUTHORITY IS NOT, NOR EVER WILL BE RESPONSIBLE FOR MAINTENANCE OF PRIVATE ROADS, EASEMENTS, OR AREAS OFF PUBLIC RIGHTS OF WAY.
6. CONTRACTOR SHALL NOTIFY GOVERNING AUTHORITIES A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY WORK WITHIN THE RIGHT-OF-WAY OF EXISTING ROADS.
7. ALL FEMA, USACE, COUNTY, AND/OR STATE PERMITS SHALL BE IN HAND AND ON SITE DURING THE CONSTRUCTION OF THE PROJECT.
8. A SIGNED AND SEALED COPY OF THE PLANS SHALL BE MAINTAINED ON SITE AND MADE READILY AVAILABLE FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL KEEP A MARKED UP SET OF PLANS SHOWING ALL CHANGES, DIMENSIONS, ETC. TO PROVIDE TO THE ENGINEER AFTER THE JOB IS COMPLETE AND CAPABLE OF BEING UTILIZED AS AS-BUILT DRAWINGS FOR FUTURE LOCATES.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL, MEANS AND METHODS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY BREAKS OR DAMAGES CAUSED BY THE CONTRACTORS WORK.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED IRRIGATION LINES (NOTIFY ROME UTILITIES PRIOR TO REPAIR).
13. CONTRACTOR SHALL HAVE A VALID UTILITY CONTRACTORS LICENSE AS ISSUED BY THE STATE OF GEORGIA AND PROVIDE THE LICENSE NUMBER AS INSTRUCTED IN THE PROJECT SPECIFICATIONS.
14. CONTRACTOR SHALL PROVIDE A VALID PLUMBERS LICENSE ISSUED BY THE STATE OF GEORGIA OF THE PLUMBER THAT WILL BE INSTALLING THE SERVICE LINES AND PROVIDE THE LICENSE NUMBER AS INSTRUCTED IN THE PROJECT SPECIFICATIONS.
15. CONTRACTOR SHALL FURNISH AND INSTALL DETECTABLE MYLAR ENCASED ALUMINUM FOIL MARKING TAPE WILL BE INSTALLED 24" ABOVE ALL BURIED PVC AND HDPE PIPE INCLUDING SERVICE LATERALS. TAPE WILL BE GREEN IN COLOR, AT LEAST 2 INCHES WIDE, AND SHALL BEAR THE PRINTED IDENTIFICATION "CAUTION: SEWER LINE BURIED BELOW". DETECTION TAPE SHALL BE EQUAL TO BLACKBURN MFG. CO. DETECTABLE UNDERGROUND WARNING TAPE.

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE BETWEEN ARCHITECTURAL, MECHANICAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS. ANY DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. UNDERGROUND UTILITY LOCATIONS SHOWN ARE FROM UTILITY COMPANY RECORDS OR FROM LINE LOCATOR MARKS AND ARE SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, SIZE, AND TYPE OF ANY AND ALL UTILITY LINES PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF HIS CONSTRUCTION OPERATIONS.
3. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION METHODS, SEQUENCES, PROCEDURES, AND JOB SITE SAFETY. THE CONTRACTOR SHALL TAKE ALL MEANS NECESSARY TO MAINTAIN AND PROTECT THE INTEGRITY OF ALL CONSTRUCTION (NEW AND EXISTING) AT ALL STAGES. ENGINEER ASSUMES NO LIABILITY FOR SAFETY ON THE JOB SITE.
4. ALL UTILITIES WITHIN ROADWAY SHALL BE BACKFILLED COMPLETELY WITH STONE UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER OR THE GOVERNING AUTHORITY.
5. ALL AREAS WHICH WILL LIE UNDER NEW STRUCTURES, PAVING, CONCRETE, OR WALKWAYS SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
6. ALL PERMITS, OTHER THAN THOSE LISTED IN THE SPECIFICATIONS, FOR THE DEVELOPMENT OF THESE PLANS ARE THE CONTRACTORS RESPONSIBILITY AND SHOULD BE OBTAINED PRIOR TO DISTURBING ANY AREAS OR BEGINNING ANY CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND LEGAL DISPOSAL OF ALL MATERIALS AND DEBRIS NOT ACCEPTABLE TO THE OWNER.
8. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONCURRENT WORK BEING PERFORMED IN THE AREA.

GRADING NOTES

1. EMBANKMENTS WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN MAX. 10' LIFTS AND MIN. 98% COMPACTION (AASHTO T - 180) UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL ENGINEER.
2. NO WORK TO BE DONE IN EITHER GDOT OR COUNTY RIGHT-OF-WAY UNTIL ALL APPROPRIATE PERMITS ARE PROVIDED TO THE CITY.
3. CITY ENGINEER TO BE PROVIDED AT LEAST 48 HOURS NOTICE PRIOR TO THE STARTING OF EACH PHASE OF WORK.
4. ALL PERMITS/APPROVALS BY GEORGIA EPD, GDOT, FEMA, CORPS OF ENGINEERS WILL BE REQUIRED PRIOR TO DISTURBING AREAS UNDER JURISDICTIONS OF SUCH PERMITS.
5. THERE SHALL BE NO LAND DISTURBING ACTIVITY UNTIL PROOF OF GEORGIA EPD NOR COVERAGE IS PROVIDED TO THE CITY AND ADEQUATE EROSION CONTROL MEASURES ARE IN PLACE.
6. CONTRACTOR SHALL TIE PROPOSED PAVING INTO EDGE OF EXISTING PAVING. CONTRACTOR SHALL ADJUST CROSS SECTION AS REQUIRED TO ENSURE SMOOTH PAVEMENT TRANSITIONS AND POSITIVE DRAINAGE. CURB AND GUTTER SHALL BE WORKMANLIKE, SMOOTH, AND ENSURE POSITIVE DRAINAGE.
7. ALL CUT AND FILL SIDE SLOPES ARE 2:1 UNLESS NOTED OTHERWISE. UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL ENGINEER.
8. CLEARING LIMITS TO BE 5' OUTSIDE OF TOE AND TOP OF SLOPE.
9. DIMENSIONS AND RADII ARE SHOWN TO FACE OF CURB, UNLESS OTHERWISE NOTED.
10. ELEVATION SPOTS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

EROSION CONTROL SEQUENCE

ALL CONSTRUCTION SHALL BE DONE IN A LOGICAL SEQUENCE SO TO MINIMIZE THE AREA OF DISTURBANCE.

1. OBTAIN REQUIRED PERMITS.
2. STAKE PROPERTY LINES AND CLEARING LIMITS.
3. SELECTIVELY CLEAR PATH AS REQUIRED TO INSTALL SILT FENCING AND PERIMETER EROSION CONTROL MEASURES.
4. INSTALL SILT FENCES ALONG SIDE SLOPE BOUNDARIES.
5. INSTALL STONE ENTRANCE DRIVE.
6. PROTECT STORM DRAIN INLETS DOWNSTREAM OF CONSTRUCTION WITH HAY BALES, WATTLES, SILT FENCE AND/OR OTHER PROTECTIVE MEASURES.
7. INSTALL OTHER REQUIRED EROSION CONTROL MEASURES DOWNSTREAM OF PROJECT AREA.
8. PERFORM CLEARING AND GRUBBING.
9. INSTALL SILT FENCE AROUND STOCKPILES.
10. BEGIN EARTHWORK AND CONSTRUCT PROJECT.
11. MODIFY AND MAINTAIN EROSION CONTROL AS REQUIRED DURING CONSTRUCTION.
12. INSPECT ALL EROSION CONTROL MEASURES AFTER EVERY 0.50" RAINFALL. COPIES OF ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROPER AUTHORITIES IN ACCORDANCE WITH APPLICABLE PERMITS.
13. TEMPORARILY OR PERMANENTLY STABILIZE STRIPPED AREAS AND STOCKPILES LEFT INACTIVE FOR 14 OR MORE CALENDAR DAYS.
14. REMOVE ANY SEDIMENT REACHING PUBLIC OR PRIVATE ROADWAYS BY STREET CLEANING BEFORE THE END OF EACH DAY. FLUSHING OF STREETS WILL NOT BE ALLOWED
15. INSTALL TEMPORARY SEDIMENTATION PONDS OR DIVERSION BERMS AS NEEDED TO CONTROL THE FLOW OF WATER AND COLLECTION OF SEDIMENT DURING THE PROJECT.
16. COMPLETE FINE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
17. COMPLETE FINAL PAVING FOR ROADS.
18. REMOVE SILT FENCE UPON COMPLETION OF ALL CONSTRUCTION ACTIVITY.
19. RESEED AND STABILIZE ANY BARE SPOTS OR WASHOUTS.
20. TERMINATE ALL PERMITS.

EROSION CONTROL NOTES

1. ALL EROSION CONTROL PERMITS FOR THE DEVELOPMENT OF THESE PLANS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY GROUND DISTURBANCE.
2. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO BEGINNING ANY OTHER CONSTRUCTION ON THE JOB SITE.
3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ALL EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES AS SHOWN ON THESE DRAWINGS OR REQUIRED BY LOCAL, STATE, AND/OR FEDERAL REGULATORY AUTHORITIES.
4. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE CONSIDERED THE MINIMUM ACCEPTABLE AND SHALL BE MODIFIED IN THE FIELD AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND/OR FEDERAL REQUIREMENTS.
5. EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED AND THE NPDES PERMIT IS TERMINATED.
6. ALL DISTURBED AREAS NOT SHOWN TO BE LANDSCAPED SHALL BE SEEDED & MULCHED AS PER LOCAL STANDARDS AND SPECIFICATIONS.
7. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS RELATING TO THE ONSITE STORAGE OF FUEL, OIL, AND GREASE. AN SPCC PLAN MUST BE MAINTAINED AND IMPLEMENTED ON SITE.
8. STREAMS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR HEAVY EQUIPMENT. CROSSINGS SHALL BE LIMITED TO ONE POINT AND EROSION CONTROL MEASURES MUST BE UTILIZED WHERE STREAM BANKS AND DRAINAGE DITCHES ARE DISTURBED.

EROSION CONTROL PLAN AND PERFORMANCE STANDARDS

1. THE EROSION CONTROL PLAN SHALL CONTAIN A DESCRIPTION OF THE EXISTING SITE CONDITIONS, A DESCRIPTION OF ADJACENT TOPOGRAPHICAL FEATURES, INFORMATION NECESSARY TO DETERMINE THE EROSION QUALITIES OF THE SOIL ON THE SITE, POTENTIAL PROBLEM AREAS OF SOIL EROSION AND SEDIMENTATION, SOIL STABILIZATION SPECIFICATIONS, STORM WATER MANAGEMENT CONSIDERATIONS, PROJECTED TIME SCHEDULE FOR COMMENCEMENT AND COMPLETION OF THE LAND-DISTURBING ACTIVITY, SPECIFICATIONS FOR BMP PLAN MAINTENANCE DURING THE PROJECT AND AFTER THE COMPLETION OF THE PROJECT, CLEARING AND GRADING LIMITS, AND ALL OTHER INFORMATION NEEDED TO DEPICT ACCURATELY THE SOLUTIONS TO POTENTIAL SOIL EROSION AND SEDIMENTATION PROBLEMS TO THE MS4. THE CONTROL PLAN SHALL INCLUDE THE SERIES OF BMP'S AND SHALL BE REVIEWED BY, AND SUBJECT TO THE APPROVAL OF, THE OFFICIAL PRIOR TO THE ISSUANCE OF THE PERMIT.
2. CONTROL MEASURES SHALL BE MAINTAINED AS AN EFFECTIVE BARRIER TO SEDIMENTATION AND EROSION IN ACCORDANCE WITH THIS PLAN.
3. THERE SHALL BE NO DISTINCTLY VISIBLE FLOATING SCUM, OIL OR OTHER MATTER CONTAINED IN THE STORM WATER DISCHARGE. THE STORM WATER DISCHARGE TO AN MS4 MUST NOT CAUSE AN UNNATURAL COLOR (EXCEPT DYES OR OTHER SUBSTANCES DISCHARGED TO AN MS4 FOR THE PURPOSE OF ENVIRONMENTAL STUDIES AND WHICH DO NOT HAVE HARMFUL EFFECT ON THE BODIES OF WATER WITHIN THE MS4) OR ODOR IN THE COMMUNITY WATERS. THE STORM WATER DISCHARGE TO THE MS4 MUST RESULT IN NO MATERIALS IN CONCENTRATIONS SUFFICIENT TO BE HAZARDOUS OR OTHERWISE DETRIMENTAL TO HUMANS, LIVESTOCK, WILDLIFE, PLANT LIFE OR FISH AND AQUATIC LIFE IN THE COMMUNITY WATERS.

** NOTE: ALL YARDS ARE TO BE SODDED UPON COMPLETION OF WORK. CONTRACTOR SHALL REPLACE ALL EFFECTED AREAS WITH "LIKE KIND" ESPECIALLY ALONG THE RIGHT OF WAY.



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INFRASTRUCTURE
ENVIRONMENTAL
PLANNING
COMMERCIAL
RESIDENTIAL

CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423



THIS SHEET CONTAINS:

GENERAL NOTES

SCALE: NONE
SHEET 3 OF 37

GN-3



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CELL: (706) - 252 - 1876

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002."

(2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION."

(3) "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

Tim Brunson 0000084423
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

OWNER / OPERATOR'S CERTIFICATION:

(1) "I CERTIFY THAT THE RECEIVING WATER(S) OR THE OUTFALL(S) OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S) WILL BE MONITORED IN ACCORDANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN."

(2) "I CERTIFY THAT THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN HAS BEEN PREPARED IN ACCORDANCE WITH PART IV OF THE GENERAL NPDES PERMIT GAR 100002. THE PLAN WILL BE IMPLEMENTED, AND THAT SUCH PLAN WILL PROVIDE FOR COMPLIANCE WITH THIS PERMIT."

(3) "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

(4) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS, AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002."

(5) "I CERTIFY THAT THE APPLICABLE PORTIONS OF THE EROSION CONTROL PLANS WILL BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITY."

OWNER / OPERATOR'S SIGNATURE
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CLEARING PHASE EROSION CONTROL NOTES:

PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTION.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

1) THE CONSTRUCTION EXIT SHALL BE PLACED AS SHOWN ON THE PLANS.

2) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXIT, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

3) TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.

WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVED THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITION EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT SEDIMENT PONDS AS SHOWN ON PLANS.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ALL SILT FENCES MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY Silt FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE ON TO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURE WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

GRADING PHASE EROSION CONTROL NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND TO ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION. CUT AND FILL SLOPED SHALL NOTE EXCEED 3:1.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.

ALL DRAINAGE SWALES, AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES ONE THIRD OF THE DEPTH OF THE BASIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

**CRITICAL WORK ZONE
EROSION CONTROL NOTES:**

SHADED AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY, ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 10 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF ANY PONDS (WHEN APPLICABLE) WHEN IT REACHES THE HALF WAY POINT ON THE RISER.

PERMIT COVERAGE:

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS IN THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100002 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE CONSTRUCTION.

MANAGEMENT PRACTICES AND PERMIT VIOLATIONS (PART III.D):

1) BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION SEDIMENT INSTALLATION, AND MAINTENANCE OF BMP'S SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART III.D.3 AND PART 111.D.4.

2) FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BMP'S SHALL CONSTITUTE A VIOLATION OF THE PERMIT. ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED A VIOLATION. IF DURING THE COURSE OF THE PERMITTEE'S ROUTINE INSPECTIONS BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.

3) A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BMP'S HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.J. AND PART II.B.J.

AUTHORIZED DISCHARGES (PART I.C.):

1) ALL DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.A.

2) ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1.

3) AUTHORIZED MIXED STORM WATER DISCHARGES: PART 1.C.2.

a. THE INDUSTRIAL SOURCE OF ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;
b. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FORM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THE PERMIT;
c. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

GENERAL NOTES:

1. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

2. EACH SECONDARY PERMITTEE WILL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.

3. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

4. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED LOT CONSISTING OF SOD.

FINAL PHASE EROSION CONTROL NOTES:

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

4) THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY IN THE PLAN AND IS IN COMPLIANCE WITH PART IV.D.7: PART III.A.2.:
a. FIRE FIGHTING ACTIVITIES;
b. FIRE HYDRANT FLUSHING;
c. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING;
d. IRRIGATION DRAINING;
e. AIR CONDITIONING CONDENSATE;
f. SPRINGS;
g. UNCONTAMINATED GROUND WATER; AND
h. FOUNDATION OR FOOTING DRAINS WHERE THE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

LIMITATIONS ON COVERAGE PART I.C.3

1) THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:
a. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION;
b. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON STORM-WATER DISCHARGES) OF THIS PERMIT;

c. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING;
d. IRRIGATION DRAINING;
e. AIR CONDITIONING CONDENSATE;
f. SPRINGS;
g. UNCONTAMINATED GROUND WATER; AND
h. FOUNDATION OR FOOTING DRAINS WHERE THE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

2) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §812-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE-MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4863 OR (800) 241-4113, OR THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802. PART III.B.1.

3) THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ONSITE SPILL. PART III.B.2.

WATER QUALITY COMPLIANCE PART 1.C.4:

NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATION OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03.

5. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:

a. COVERING 10% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.
b. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
c. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
d. PROVIDING GRAVEL OR PAVING AT ENTRANCE / EXIT DRIVES.

6. THE NATURE OF CONSTRUCTION ACTIVITY IS TO REPLACE AN EXISTING SANITARY SEWER LINE AND INSTALL A NEW PUMP STATION.

7. THE TOTAL SITE AREA IS 1.68 ACRES. THE DISTURBED AREA IS 1.26 ACRES.

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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA

ROME
G.E.O.R.G.I.A.
ENGINEERS

PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 9/25/19
LEVEL II CERT. #: 0000084423
9/25/19
THIS SHEET CONTAINS:
EROSION
PREVENTION
AND SEDIMENT
CONTROL NOTES
SCALE: NONE
SHEET 4 OF 37
GN-4

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EROSION, SEDIMENTATION, AND POLLUTION

CONTROL PLAN (ESPC):

THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100002. THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT, AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

SITE DESCRIPTION:

OWNER / DEVELOPER AS PRIMARY PERMITTEE WILL OVERSEE SITE CONSTRUCTION LOCATED WITHIN THE PROPERTY SITUATED IN 243. OF THE 23RD DISTRICT, SECTION 3, FLOYD COUNTY, GEORGIA. THE MAGNITUDE OF THE ENTIRE PROJECT CONTAINS 1.68 ACRES.

CONSTRUCTION WILL BEGIN WITH PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS AND CONSTRUCTION ENTRANCES. AFTER THESE EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN INSTALLED, CLEARING AND GRUBBING OF VEGETATION WILL COMMENCE IN AREAS THAT ARE TO BE DISTURBED. THE SITE WILL THEN BE GRADED AND UTILITIES WILL BE TRENCHED. ONCE BROUGHT TO FINAL GRADE, STRUCTURES WILL BE INSTALLED WHILE ALL OTHER EXPOSED AREAS WILL BE STABILIZED WITH VEGETATION.

STORM WATER FROM THIS PROJECT WILL BE ROUTED SOUTHEAST TO OUTFALL. THE STORM WATER WILL BE DISCHARGED TO COOSA RIVER.

DISCHARGED RUNOFF WILL FLOW THROUGH NA.

THE RECEIVING WATERS FOR THIS SITE INCLUDE: COOSA RIVER

SURVEY INFORMATION:

THIS SITE IS ZONE: AE BEARING REFERENCE-STATE PLANE BOUNDARY INFORMATION: GEORGIA WEST ZONE - NAD 83

TOPOGRAPHIC INFORMATION: NAVD 88

NGS MONUMENT: T-291
VERTICAL: 604.81
TBM: N-1550954.30, E-1987579.54, EL.-595.73

FLOOD INSURANCE RATE MAP, COMMUNITY NUMBER 130081 PANEL 0189, DATED 9/25/09 SHOWS THE EXISTING SITE AND SURROUNDING AREA TO BE IN "ZONE AE" (BASE FLOOD ELEVATION = 595.00)

THE SITE IS LOCATED IN LAND LOT 243, DISTRICT 23, SECTION 3, FLOYD COUNTY, GEORGIA. GROSS ACREAGE OF TRACT: 1.68 MORE OR LESS.

RUNOFF COEFFICIENT

- WEIGHTED PRE CONSTRUCTION CN CURVE NUMBER: 53

- WEIGHTED POST CONSTRUCTION CN CURVE NUMBER: 53

SEE "SITE HYDROLOGIC STUDY FOR HORSELEG CREEK SANITARY PUMP STATION" DATED NA FOR ADDITIONAL INFORMATION

SOIL TYPES TOCCOA FINE SANDY, LOAM, THE NCRS SOIL TYPES ARE DECATUR CLAY

SOIL DISTURBING ACTIVITIES:

INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS

CLEARING AND GRUBBING

EXCAVATION AND INSTALLATION OF UTILITY LINES

GRADING AND EXCAVATION FOR PUMP STATIONS

PREPARATION FOR FINAL PLANTING AND SEEDING

COMPLETION OF ON-SITE STABILIZATION

CONTROLS

EROSION AND SEDIMENT CONTROLS:

ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.

EXISTING VEGETATION SHALL BE LEFT IN PLACE UNTIL SUCH TIME THAT LAND DISTURBING ACTIVITIES ARE TO TAKE PLACE UPON THAT PORTION OF THE SITE. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED WITHIN 14 DAYS. IF THE AREA IS NOT YET TO FINAL GRADE, IT SHALL BE MULCHED, IF THE AREA IS TO FINAL GRADE AND WILL EVENTUALLY CONTAIN SITE IMPROVEMENTS SUCH AS THE STRUCTURES OR SIDEWALKS, IT SHALL BE TEMPORARY SEEDED. AREAS BROUGHT TO FINAL GRADE THAT WILL REMAIN PERVIOUS ARE TO BE PERMANENTLY SODDED. ALLOWABLE EXCEPTIONS FROM THE NPDES GENERAL PERMIT, GAR 100002, ARE NOTED BELOW:

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

STORM WATER FROM THIS PROJECT WILL BE ROUTED SOUTHEAST TO OUTFALL. THE STORM WATER WILL BE DISCHARGED TO COOSA RIVER.

NON-STORM WATER DISCHARGES:

ALL NON-STORM WATER DISCHARGES WILL BE ROUTED THROUGH ON SITE BMPS AND THE STORM WATER MANAGEMENT SYSTEM WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUND WATER, DEWATERING OF PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE AND RINSE OFF WATER OF NON-TOXIC MATERIALS.

OTHER CONTROLS:

NO WASTE MATERIALS, INCLUDING BUT NOT LIMITED TO WASTE BUILDING MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS, CONCRETE WASHOUT OR EXCAVATED SEDIMENT, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES:

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED TO EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THE PROJECT.

OFFSITE VEHICLE TRACKING:

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEETS EC-1, EC-2, AND EC-3 FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR ROCK. DUMP TRUCKS HAULING MATERIAL TO/FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPOULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN:

THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: CONCRETE PRODUCTS, PETROLEUM-BASED FUELS AND LUBRICANTS FOR EQUIPMENT, LUMBER, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, PAINTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CLEANING SOLVENTS, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

SPILL PREVENTION:

PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

- 1. QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
- 2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
- 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
- 4. PRODUCT MIXING, DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- 5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE, AND DISPOSAL.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM-BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN LIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE.

FERTILIZERS/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF-SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CLEANUP AND CONTROL PRACTICES:

- 1. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- 2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- 3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- 4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
- 5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- 6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- 7. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- 8. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PERTROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

INSPECTIONS:

PRIMARY PERMITTEE:

- 1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 2. MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- 3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE INSPECTED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.
- 4. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- 5. BASED ON RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL CUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.4.B.(5). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.
- 6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5), OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY AN INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SECONDARY PERMITTEE:

- 1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A SECONDARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE SECONDARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE SECONDARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE SECONDARY PERMITTEE SITE WHERE THAT PERMITTEE'S VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

SEQUENCE OF MAJOR ACTIVITIES:

SEE CONSTRUCTION SCHEDULE

5800 FELDSPAR WAY
HOOPER, ALABAMA 35244
OFFICE (205) 733-9696
FAX (205) 733-9697

CIVIL / GIS
INFRASTRUCTURE
ENVIRONMENTAL
PLANNING
COMMERCIAL
RESIDENTIAL

CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA

PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423

9/25/19

THIS SHEET CONTAINS:
EROSION
PREVENTION
AND SEDIMENT
CONTROL NOTES

SCALE: NONE
SHEET 5 OF 37

GN-5

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MAINTENANCE AND INSPECTION OF EROSION AND SEDIMENT CONTROLS:

THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FROM THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA: FIFTH EDITION:

CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5 - 3.5-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST.

SEDIMENT SHALL BE REMOVED FROM SILT FENCES 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 (APPROXIMATELY SIX MONTHS).

SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAPS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. FOR ANY EXCAVATED INLET SEDIMENT TRAPS (IF APPLICABLE), SEDIMENT SHALL BE REMOVED WHEN ONE-HALL OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION.

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

REPAIR ALL DAMAGES CAUSED TO TEMPORARY SEDIMENT BASINS (IF APPLICABLE) BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE SPECIFIED DISTANCE BELOW THE TOP OF THE RISER. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGEWAYS DURING SEDIMENT REMOVAL OR DISPOSAL. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT, ADJACENT TO A STREAM OR FLOODPLAIN.

INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE, IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

PERMANENT VEGETATION SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. SODDING SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGION, SUCH THAT WITHIN THE GROWING SEASON A 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS:

THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO STORM WATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENT OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF ANY AND ALL LOCAL, STATE AND FEDERAL AGENCIES HAVE GOVERNING AUTHORITY. INCLUDING THE CONDITIONS RELATED TO MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH THE ESPCP AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

STORMWATER SAMPLING:

SAMPLING REQUIREMENTS:

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THIS SECTION IS NOT APPLICABLE TO SECONDARY PERMITTEES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY:

- A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
 1. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT.
 - (a) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED.
 - (b) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS, WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTER THE RECEIVING WATER(S) TO A POINT WHERE THE RECEIVING WATERS COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.
 2. THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL / QUALITY ASSURANCE PROCEDURES, THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.
 3. WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED OR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES);
 4. ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B. SAMPLE TYPE:
ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER. SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENTLY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

- C. SAMPLING POINTS:
FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
 1. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E. THE DISCHARGE FARTHEST UPSTREAM OF THE SITE) BUT DOWN STREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
 2. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E. THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
 3. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
 4. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL

- STORM WATER CHANNEL.
5. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
6. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
7. PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION, OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
8. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.4., WHICHEVER IS APPLICABLE.

- D. SAMPLING FREQUENCY:
 1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
 - (a) THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR
 - (b) THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.
 2. HOWEVER, WHERE MANUAL, AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR BEYOND THE PERMITTEES CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
 - (a) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 IN. AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATIONS.
 - (b) IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS EITHER 90 DAYS AFTER THE 1ST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES 1ST;
 - (c) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
 - (d) EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRE BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

THE PRIMARY PERMITTEE SHALL COMPLETE A LIST OF ALL SECONDARY PERMITTEES AND CONTACT INFORMATION IN THE SPACE PROVIDED BELOW, AND PROVIDE A COPY OF THE PLAN (AND ANY SUBSEQUENT REVISIONS TO THE PLAN) TO EACH SECONDARY PERMITTEE. EACH SECONDARY PERMITTEE SHALL SIGN AS WRITTEN ACKNOWLEDGEMENT OF RECEIPT OF THE PLAN IN THE SPACE PROVIDED BELOW. THE PRIMARY PERMITTEE SHALL KEEP A COPY OF THE ACKNOWLEDGEMENTS ON-SITE IN HIS RECORDS.

REPORTING:

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.I.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH A TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - (a) THE RAINFALL AMOUNT, DATE, AND EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - (b) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING OR MEASUREMENTS;
 - (c) THE DATE(S) ANALYSES WERE PERFORMED;
 - (d) THE TIME(S) ANALYSES WERE INITIATED;
 - (e) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
 - (f) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
 - (g) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS, OR TAPES, ETC. USED TO DETERMINE THESE RESULTS;
 - (h) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU";
 - (i) CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE APPLICABLE PERMITTEES SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

RETENTION OF RECORDS:

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.I.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH A TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - (a) THE RAINFALL AMOUNT, DATE, AND EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - (b) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING OR MEASUREMENTS;
 - (c) THE DATE(S) ANALYSES WERE PERFORMED;
 - (d) THE TIME(S) ANALYSES WERE INITIATED;
 - (e) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
 - (f) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
 - (g) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS, OR TAPES, ETC. USED TO DETERMINE THESE RESULTS;
 - (h) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU";
 - (i) CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE APPLICABLE PERMITTEES SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

SECONDARY PERMITTEES:

1. NAME: ADDRESS:
 COMPANY: ADDRESS:
 CITY/ST/ZIP: LEVEL
 IA CERT NO:
 SIGNATURE:

CERTIFICATION:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."

CERTIFIED BY: _____

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION:

"THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROLS BMPs, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION."

DATE OF INSPECTION _____

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCG LEVEL II DESIGN PROFESSIONAL CERTIFICATION

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.

THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

3. EACH TERTIARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS AN NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
 - a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - d. A COPY OF ALL SAMPLING INFORMATION RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
 - f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT;
 - g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION OF THE PERMITTEE.



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CIVIL / GIS
 INFRASTRUCTURE
 ENVIRONMENTAL
 PLANNING
 COMMERCIAL
 RESIDENTIAL

CONSTRUCTION PLANS FOR:

HORSELEG CREEK SANITARY SEWER PUMP STATION ADDITION

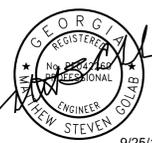
ROME, GEORGIA



PROJECT INFO:

INSITE JOB No. 16120.04
 PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423



9/25/19

THIS SHEET CONTAINS:

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

SCALE: NONE
 SHEET 6 OF 37

GN-6

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GENERAL NOTES

In case of conflict between the General Notes below and the specifications the more rigid requirement shall govern unless amended in writing by the Engineer.

DESIGN DATA

- Design Codes – (All latest editions unless noted otherwise.)
 - International Building Code (IBC 2012)
 - American Society of Civil Engineers (ASCE 7-10)
 - Minimum Design Loads for Buildings and Other Structures
 - American Concrete Institute (ACI)
 - American Institute of Steel Construction (AISC)
 - American Welding Society (AWS)
 - American Iron and Steel Institute (Specifications for the Design of Cold Formed Steel Structural Members)
- Material Specifications and Design Stresses
 - Anchor Bolts F_y =36,000 psi (ASTM F1554 or ASTM A307)
 - Embedded Steel F_y =36,000 psi (ASTM A36)
 - Reinforcing Steel
 - #3 And Larger Bars F_y =60,000 psi (ASTM A615, Grade 60) (ASTM A616(S1), Grade 60)
 - Welded Plain Wire Fabric ASTM A185 (Flat Sheets)
- Design Soil Bearing Pressures
 - Footings on natural soils or compacted structural fill are designed for an assumed maximum soil bearing pressure of 2,000 psf.
 - If the soil at the footing bearing elevations shown is of questionable bearing value, the Engineer or Architect shall be notified immediately.
 - After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner selected independent testing laboratory.
- Design Loads (IBC & ASCE-7)
 - Dead Loads 10 psf
 - Live Load 100 psf
 - Wind Loads (IBC 2006 & ASCE 7-10)
 - Wind Speed 115 mph
 - Wind Exposure Category C
 - Wind Use Factor 1.0

SUBMITTALS

- Review of shop drawings and other submittals by the Structural Engineer does not relieve the Contractor of the responsibility to review and check shop drawings before submitting to the Structural Engineer. The Contractor remains solely responsible for errors and omissions associated with the preparation of shop drawings as they pertain to member sizes, details, and dimensions specified in the Contract Documents. All shop drawings must be stamped by the Contractor prior to submittal.
- Submit all shops drawings & other Submittals in PDF format or Hard Copy. If Hard Copy is submitted, Provide 3 sets only. All others will be returned unmarked. Live Oak will return 2 marked sets to Architects (1 for arch files and 1 for Contractor)
- Shop Drawings: The Contractor shall submit for Structural Engineer review shop drawings for the following items. Items marked (*) shall have shop drawings sealed by a Professional Engineer registered in the state in which the project is located. Items marked (#) shall be submitted for Structural Engineer's record only.
 - Concrete Reinf.
 - Structural Steel
- Design Calculations: The Contractor shall submit for Structural Engineer's record, design calculations sealed by a Professional Engineer registered in the state in which the project is located for the following items.
 - Steel Connection

STRUCTURAL STEEL

- Unless specifically noted otherwise, fabrication and erection of structural steel shall be in accordance with AISC specifications, latest edition.
- Unless detailed otherwise or reactions are indicated, beam connections shall be selected to support one-half the total uniform load capacity shown in the "ALLOWABLE UNIFORM LOAD TABLES" in Part 2 of the AISC Steel Construction Manual, 13th Edition, for the given beam size, span and steel specification or for the beam reaction shown on the drawings, whichever is greater. The minimum beam connection shall not be smaller than those listed in Tables 10-1 and 10-2 of the AISC Steel Construction Manual, 13th Edition, for the given beam depth, bolt diameter and weld specification.
- The Fabricator shall be responsible for the design and adequacy of all connections that are not designed or fully detailed on the Contract Documents. Shop drawings, depicting the configuration and fabrication details, along with calculations sealed by a Registered Professional Engineer licensed to practice in the state in which the project is located, shall be submitted to the Structural Engineer of Record for review.
- Where no reaction is shown on the Contract Drawings, beam connections shall be designed to support reaction "R" equal to one half of the total allowable uniform load capacity for a given shape, span, and AISC specification.
- Unless otherwise indicated, beam reactions shown on the Plans are design Service Level (ASD) gravity (Dead Load plus Live Load) shear loads. Any axial or other loads required must be considered in addition to the vertical reactions shown.
- The minimum design load for any connection shall be six (6) kips (ASD) or ten (10) kips (LRFD) regardless of the beams reaction(s) shown on the Plans.
- Unless detailed otherwise, all shop connections shall be welded. Unless detailed otherwise, all field connections shall be made using 3/4"Ø, and 1"Ø where indicated, ASTM A325-N (or ASTM F1852) high strength bolts ('N' indicates bearing type with threads included in shear plane). Washers shall be installed under nuts of fasteners when required by the specifications of structural joints.
- Where field and shop welds are indicated on the drawings, they shall be the size and type noted. All welding of structural steel shall be done in accordance with the latest edition of AWS D1.1 corresponding to the AISC specification used and all welds including field welds shall be made by certified welders using E70XX electrodes.
- High strength bolts (3/4"Ø and 1"Ø – A325 or F1852) shall be tightened to provide, when all bolts in the joint are tight, a minimum bolt tension of 28,000 lbs for 3/4"Ø bolts and 51,000 lbs for 1"Ø bolts. One of the following methods shall be used.
 - Power wrenches adjusted to stall or cut-out at the correct tension.
 - Manual torque wrenches with torque indication set to give the correct tension.
 - Manual wrenches using the "turn-of-nut" method of assuring the correct bolt tension.
- Unless specifically noted otherwise, all high-strength bolts (A325, F1852, and A490) shall be pre-tensioned to meet slip-critical requirements even if the joint is designed as a "Snug-Tight" bearing connection. All joints shall be designed to be bearing type connections unless noted otherwise.
- Steel frames are non-self-supporting and column anchor rods are designed for a completed condition only. Metal roof deck, beam-to-column moment connections, portal frames, and diagonal braces are required to provide lateral stability for the frame and building. This includes resistance to wind and seismic forces during and after construction. The Contractor shall provide all temporary bracing required to maintain stability until the lateral force resisting system for the building is complete.
- All steel exposed to view at close of project shall be classified as "Architecturally Exposed Structural Steel" and shall meet the requirements of Section 10 of AISC's Code of Standard Practice for Steel Buildings and Bridges, March 18, 2005.
- All steel members exposed to weather shall be galvanized or painted with TNEMEC Epoxy System or similar system meeting the requirements for painting structural steel in the project specifications. All other steel members shall be furnished with a shop coat of TNEMEC red or gray oxide primer or similar system meeting the requirements for painting structural steel in the project specifications. All primers shall be compatible with top coatings specified.
- All steel members that are to receive spray or trowel applied, cementitious based, fire-resisting coatings shall be furnished without prime coatings unless otherwise noted.
- The General Contractor shall be responsible for including the costs for all miscellaneous steel in their bid regardless of whether or not those items are indicated on the structural drawings. These costs shall include, but are not limited to, miscellaneous steel items shown on Architectural, Civil, Mechanical, Plumbing, and Electrical drawings.
- Bearing ends of all columns shall be square cut.
- All hangers, clips, inserts, etc. suspended from the floor structure or the roof structure (Beams, Joists, and Deck) shall be installed prior to the application of the sprayed-on fireproofing. Patch any fireproofing damaged after the initial application.
- All exterior exposed steel shall be hot-dipped galvanized, including masonry support lintels, unless noted otherwise.
- Field cutting, drilling, or other modification of structural steel components is not permitted without written approval of the Structural Engineer of Record. Where beam penetrations cannot be avoided or where cutting is required, the Contractor shall submit, to the Structural Engineer of Record, all pertinent information including penetration shape, size, location, and method of cutting the openings.

STEEL GRATING

Bearing Bars 1 1/4"x3/8" spaced at 1 3/8" oc with shop prime coat.

ABBREVIATIONS

AB	– Anchor bolt(s)	LT WT	– Lightweight
ADDL	– Additional	MAS	– Masonry
AFF	– Above finish floor	MATL	– Material
ALT	– Alternate	MAX	– Maximum
ARCH	– Architect, Architectural	MECH	– Mechanical
B/	– Back of	MFR	– Manufacturer
BLDG	– Building(s)	MIN	– Minimum
BLK	– Block(s)	MISC	– Miscellaneous
BM	– Beam(s)	MO	– Masonry opening
BOF	– Bottom of footing elevation	MPH	– Miles per hour
BOT	– Bottom	MTL	– Metal
BRDG	– Bridging	N	– North
BRNG	– Bearing	NIC	– Not-in-contract
BRK	– Brick(s)	NOM	– Nominal
BTWN	– Between	NS	– Near side
BUR	– Built-up roof	NSG	– Non-shrink grout
CJ	– Control joint, Contraction joint, Construction joint	NTS	– Not-to-scale
CL	– Centerline	NUM	– Number
CLG	– Ceiling	OC	– On-center
CLR	– Clear	OD	– Outside diameter, Outside dimension
CMU	– Concrete masonry unit(s)	OH	– Opposite hand, Overhead
COL	– Column(s)	OPNG	– Opening(s)
CONC	– Concrete	OPP	– Opposite
CONN	– Connection(s)	PAR	– Parallel
CONST	– Construction	PC	– Precast, Precast concrete
CONT	– Continue, Continuous	PDF	– Power driven fastener
CTRD	– Centered	PL	– Plate, Property line
DBA	– Dowel bar anchor, Deformed bar anchor	PLF	– Pounds per linear foot
DBL	– Double	PLYWD	– Plywood
DIA	– Diameter	PNL	– Panel
DIAG	– Diagonal	PROJ	– Project, Projection
DIM	– Dimension	PSF	– Pounds per square foot
DWG	– Drawing	PSI	– Pounds per square inch
DWGS	– Drawings	PTD	– Painted
DWL	– Dowel(s)	PVMT	– Pavement
E/	– Edge of, End of	QTY	– Quantity
EA	– Each	R	– Radius
EB	– Expansion bolt(s)	RAD	– Radius
EBC	– Extended bottom chord	RD	– Roof drain
EF	– Each face	REBAR	– Reinforcing bar
EIFS	– Exterior insulated finish system	REF	– Reference
EJ	– Expansion joint	REINF	– Reinforce, Reinforcing, Reinforcement
EL	– Elevation	REOD	– Required
ELEC	– Electrical	REV	– Revise, Revision
ELEV	– Elevator	RH	– Right hand
ENG	– Engineer(ed)	RO	– Rough opening
EQ	– Equal	S	– South
EXP	– Expansion	SC	– Slotted connection, Slip connection
EQMT	– Equipment	SCH	– Schedule
EW	– Each way	SECT	– Section
EWJ	– Engineered wood I-joist	SF	– Square feet
EXST	– Existing	SHT	– Sheet
EXT	– Exterior	SHTG	– Sheathing
F/	– Face of	SIM	– Similar
FD	– Floor drain	SJ	– Saw joint
FDN	– Foundation	SK	– Shear key
FIN FLR	– Finish floor elevation	SP	– Space(s), Southern Pine
FS	– Far side	SPECS	– Specifications
FT	– Foot, Feet	SQ	– Square
FTG	– Footing	SS	– Stainless steel
GA	– Gage, Gauge	SSL	– Short slotted hole
GALV	– Galvanized	STD	– Standard
GLB	– Glue-laminated beam	STF	– Stiffener
GR BM	– Grade beam	STL	– Steel
GR	– Grade	STR	– Straight
GYP BD	– Gypsum board	STRUCT	– Structural
HD	– Headed, Heavy duty	SYM	– Symmetrical
HDR	– Header	T&B	– Top & bottom
HI	– High	T&G	– Tongue & groove
HK	– Hook	THK	– Thick, Thickness
HORIZ	– Horizontal	THRD	– Threaded
HP	– High point	THRU	– Through
HR	– Handrail	TM	– Top-of-masonry elevation
HSS	– Headed stud	TOB	– Top-of-beam elevation
HVAC	– Heating, ventilation, & air conditioning	TOC	– Top-of-concrete elevation
ID	– Inside diameter	TOF	– Top-of-footing elevation
IN	– Inch, Inches	TOS	– Top-of-steel elevation
INSUL	– Insulate, Insulation	TP	– Top-of-parapet elevation
INT	– Interior	TW	– Top-of wall elevation
INV	– Invert	TYP	– Typical
JBE	– Joist bearing elevation	UNO	– Unless noted otherwise
JST	– Joist(s)	VERT	– Vertical
JT	– Joint	W/	– With
K	– Kip(s) (1,000 pounds)	W/O	– Without
LF	– Linear foot, Linear feet	WB	– Wind bracing
LG	– Long	WCJ	– CMU wall control joint
LLH	– Long leg horizontal	WD	– Wood
LLO	– Long leg outstanding	WP	– Working point
LLV	– Long leg vertical	WPR	– Waterproofing
LO	– Low	WS	– Waterstop
LP	– Low point	WWF	– Welded wire fabric
LT	– Left, Light		



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CONSTRUCTION PLANS FOR:

**HORSELEG CREEK SANITARY
 SEWER PUMP STATION ADDITION**

ROME, GEORGIA



PROJECT INFO:

INSITE JOB No. 16120.04
 PLOTTED: 08/20/19
 ISSUED FOR CONSTRUCTION



SIGNED: 08/20/19

THIS SHEET CONTAINS:
 SANITARY SEWER
 PUMP STATION #1
 STRUCTURAL
 GENERAL NOTES

SCALE: NTS
 SHEET 7 OF 37

GN-S1



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ROME, GEORGIA



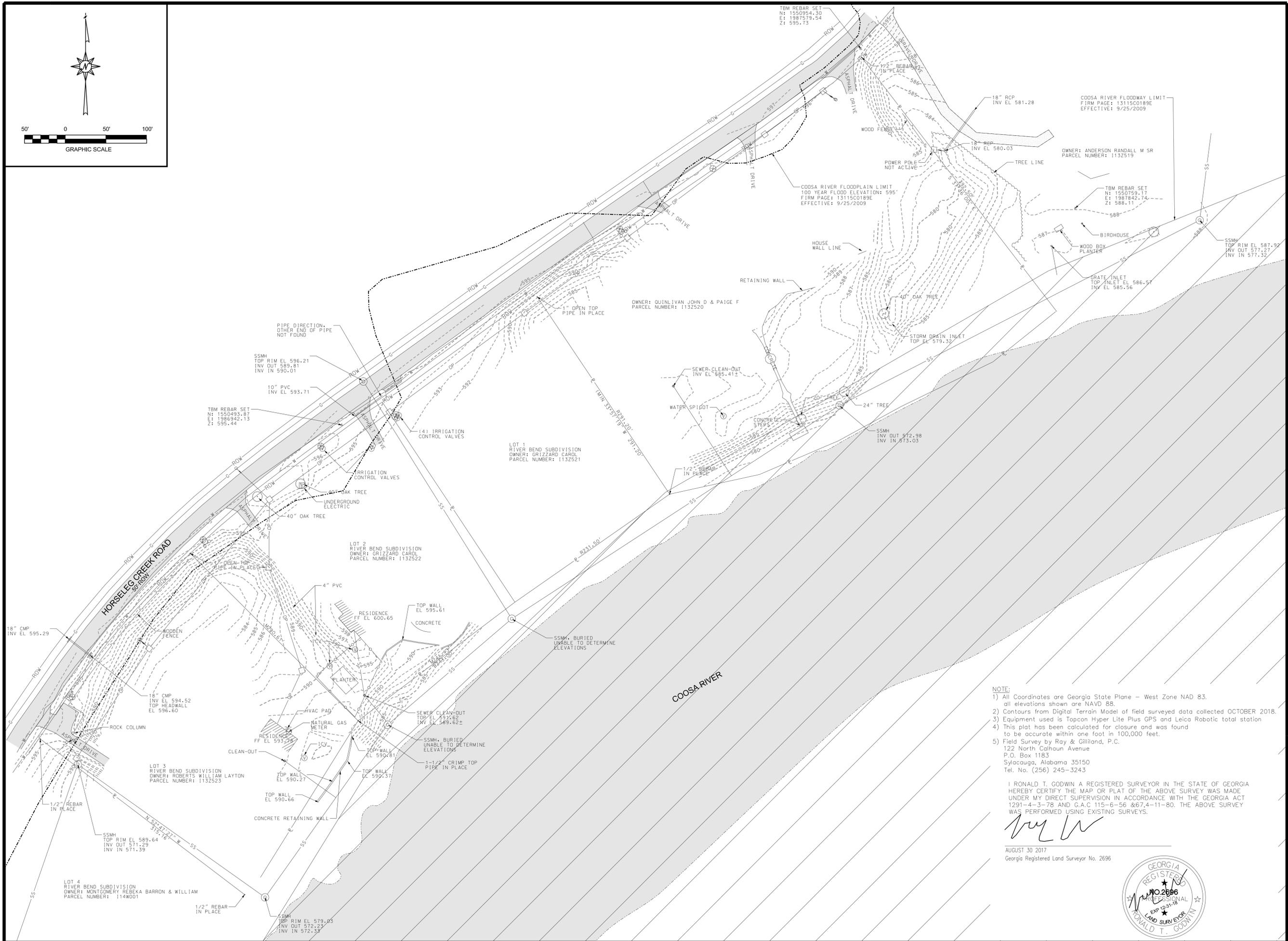
PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

THIS SHEET CONTAINS:
EXISTING SURVEY

SCALE: 1" = 50'
SHEET 8 OF 37

SV-1



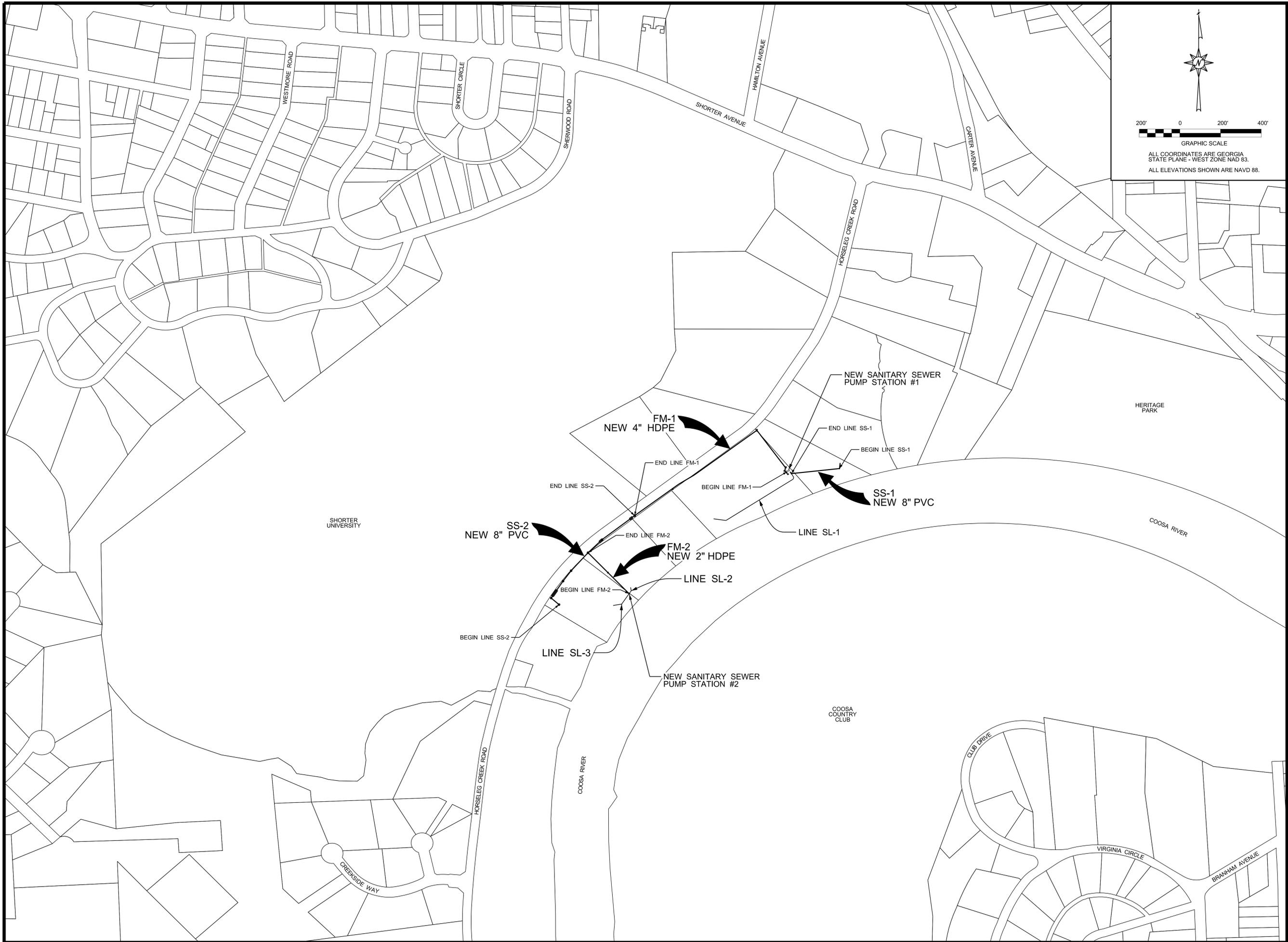
- NOTE:
- 1) All Coordinates are Georgia State Plane - West Zone NAD 83. All elevations shown are NAVD 88.
 - 2) Contours from Digital Terrain Model of field surveyed data collected OCTOBER 2018.
 - 3) Equipment used is Topcon Hyper Lite Plus GPS and Leica Robotic total station to be accurate within one foot in 100,000 feet.
 - 4) This plat has been calculated for closure and was found to be accurate within one foot in 100,000 feet.
 - 5) Field Survey by Roy & Gilliland, P.C.
122 North Calhoun Avenue
P.O. Box 1183
Sylacauga, Alabama 35150
Tel. No. (256) 245-3243

I, RONALD T. GODWIN A REGISTERED SURVEYOR IN THE STATE OF GEORGIA HEREBY CERTIFY THE MAP OR PLAT OF THE ABOVE SURVEY WAS MADE UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE GEORGIA ACT 1291-4-3-78 AND G.A.C 115-6-56 & 67.4-11-80. THE ABOVE SURVEY WAS PERFORMED USING EXISTING SURVEYS.

AUGUST 30 2017
Georgia Registered Land Surveyor No. 2696



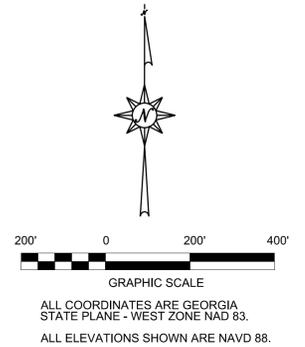
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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423

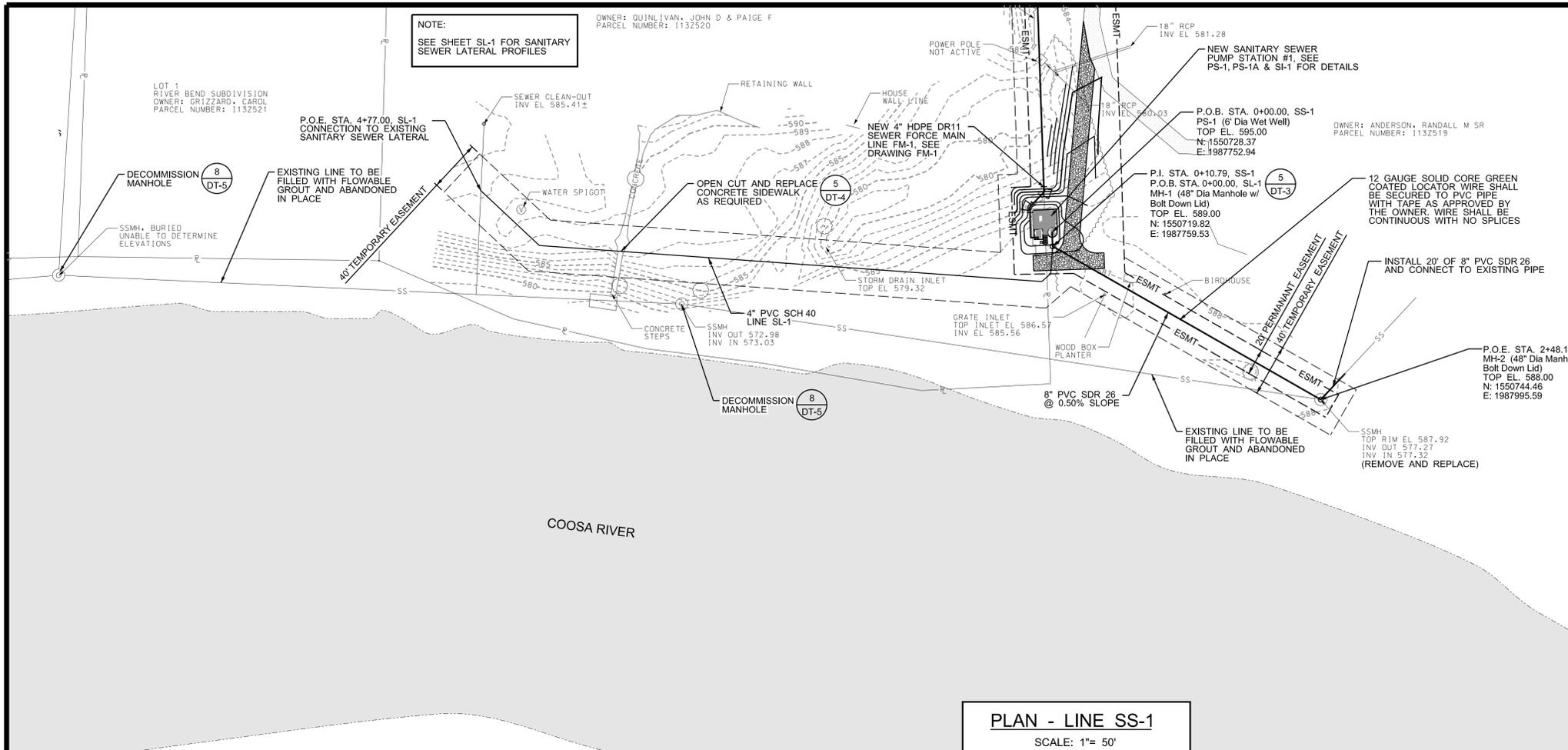
 9/25/19

THIS SHEET CONTAINS:
OVERALL
PROJECT MAP

SCALE: 1" = 200'
SHEET 9 OF 37

OV-1

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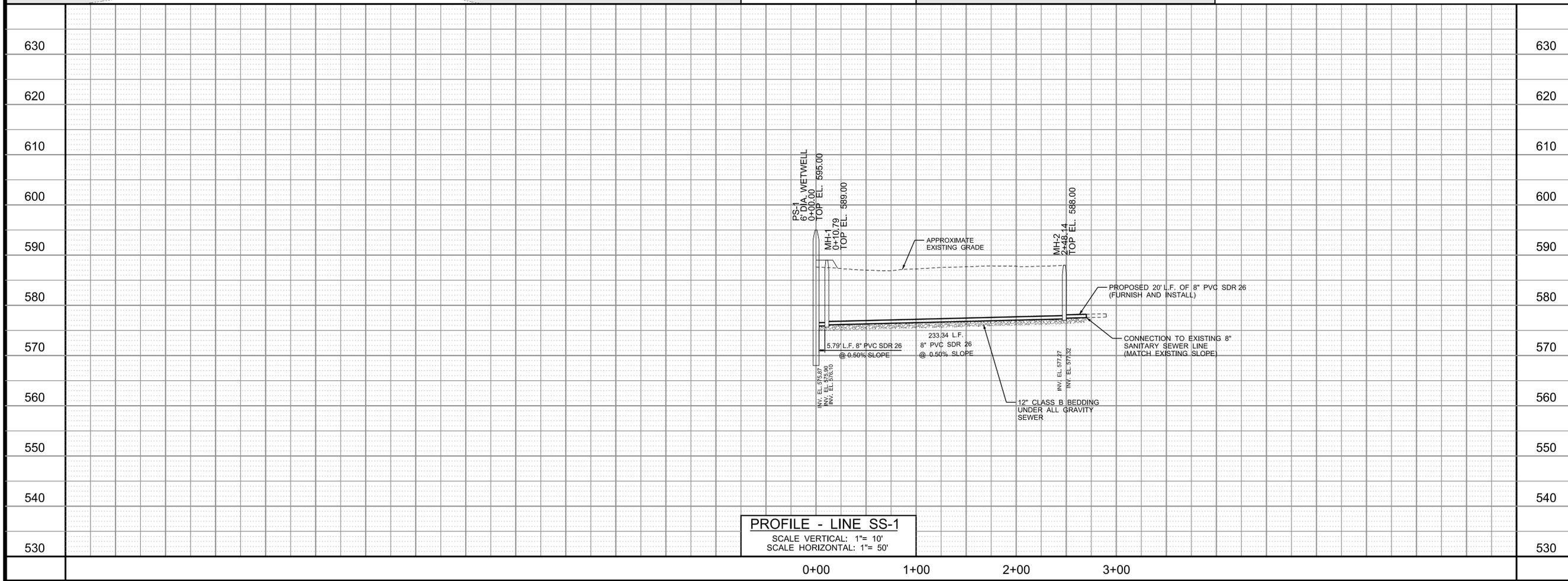
50' 0 50' 100'
GRAPHIC SCALE

ALL COORDINATES ARE GEORGIA STATE PLANE - WEST ZONE NAD 83.
ALL ELEVATIONS SHOWN ARE NAVD 88.

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- NOTES:
- CONTRACTOR SHALL NOTIFY MR. TIM BRUNSON WITH THE CITY OF ROME UTILITIES AT (706) 236-4560 A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.
 - UNDERGROUND UTILITY LOCATIONS SHOWN ARE FROM UTILITY COMPANY RECORDS OR FROM LINE LOCATOR MARKS AND ARE SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, SIZE, AND TYPE OF ANY AND ALL UTILITY LINES PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF HIS CONSTRUCTION OPERATIONS.
 - ALL DRIVEWAYS TO BE BACKFILLED WITH 100% STONE.
 - ALL YARDS, DRIVES, ETC. TO BE REPLACED IN LIKE KIND CONDITION.
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 - THE CONTRACTOR MAY UTILIZE FLEXIBLE ADAPTERS SECURED WITH 1#2" STAINLESS STEEL BANDS AS JOINTING MATERIALS WHERE NECESSARY.
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 - CONTRACTOR SHALL REFER TO THE INTERNATIONAL BUILDING CODE FOR REQUIRED SPACINGS AND LOCATIONS OF CLEANOUTS AND UTILITIES.

PLAN - LINE SS-1
SCALE: 1"= 50'



PROFILE - LINE SS-1
SCALE VERTICAL: 1"= 10'
SCALE HORIZONTAL: 1"= 50'

CONSTRUCTION PLANS FOR:

HORSELEG CREEK SANITARY SEWER PUMP STATION ADDITION

ROME, GEORGIA

ROME
G.E.O.R.G.I.A.

PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 9/25/19
LEVEL II CERT. #: 0000084423

9/25/19

THIS SHEET CONTAINS:
SANITARY SEWER
PLAN AND PROFILE
LINE No. SS-1

SCALE: AS NOTED
SHEET 10 OF 37

SS-1

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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
 SEWER PUMP STATION ADDITION**
 ROME, GEORGIA



PROJECT INFO:
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 PLOTTED: 9/25/19
 LEVEL II CERT. #: 0000084423

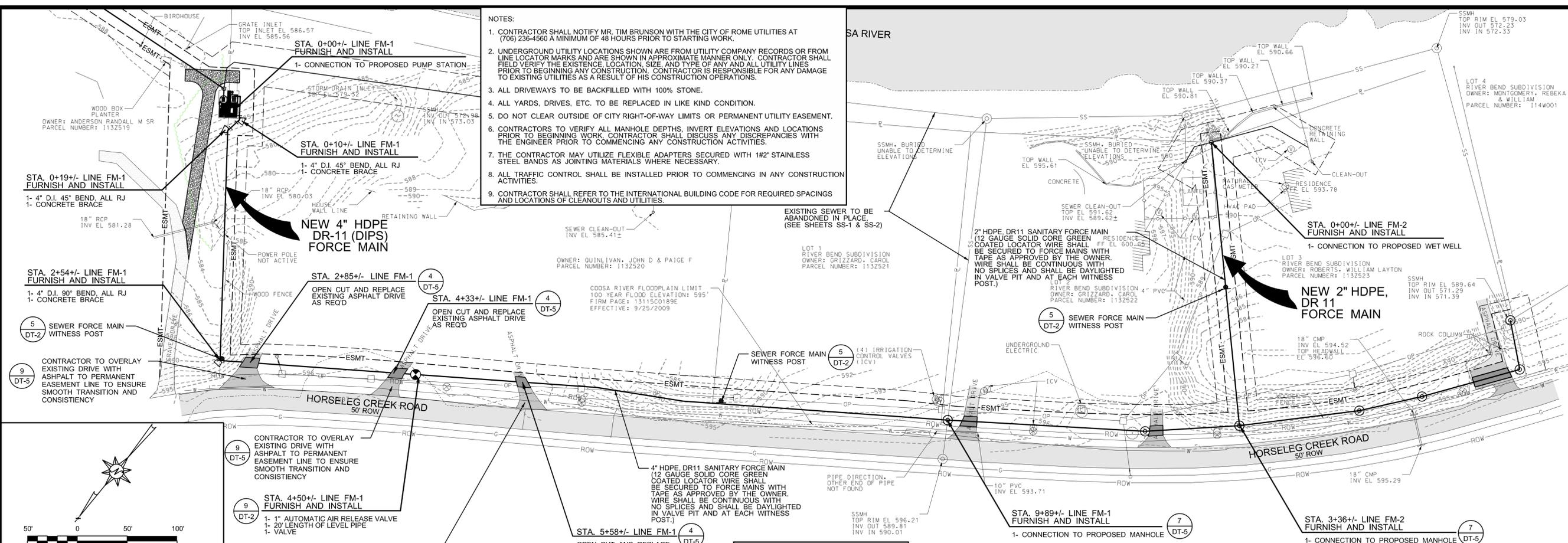
GEORGIA REGISTERED PROFESSIONAL ENGINEER
 STEVEN COLLAB
 9/25/19

THIS SHEET CONTAINS:
 SANITARY SEWER
 PLAN AND PROFILE
 LINE No. FM-1 &
 FM-2

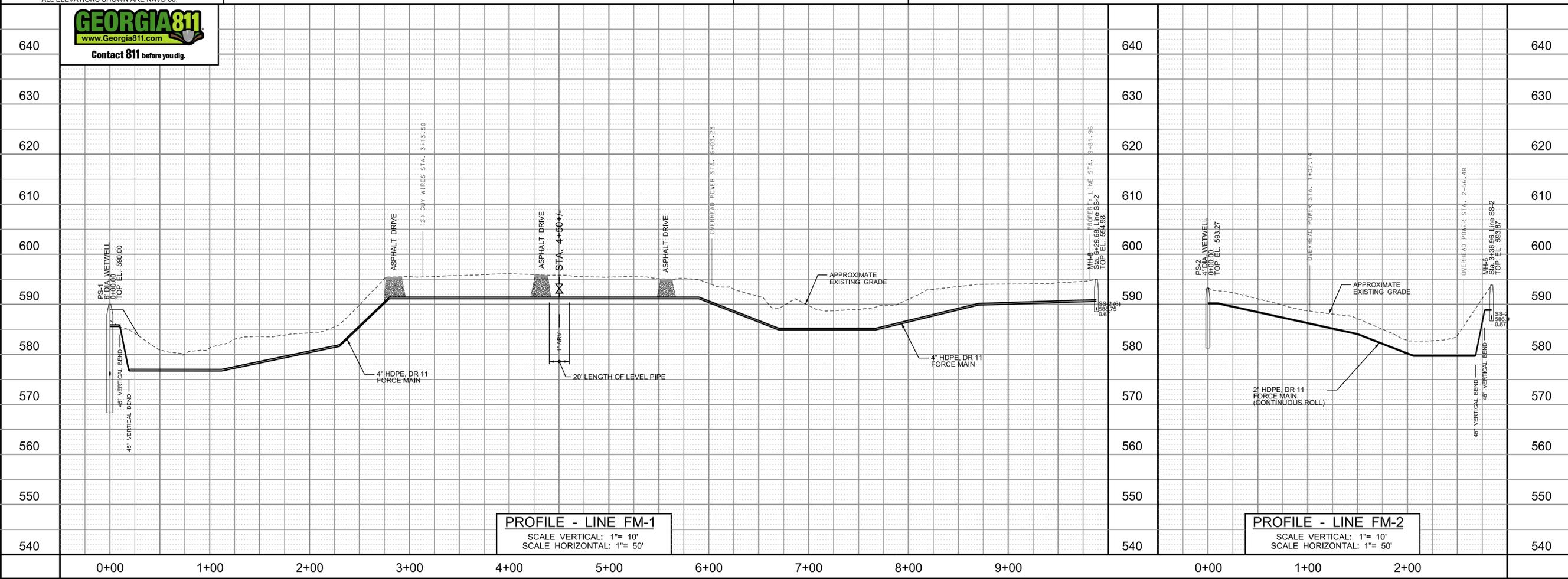
SCALE: AS NOTED
 SHEET 12 OF 37

FM-1

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PLAN - LINE FM-1-2
 SCALE: 1"= 50'



PROFILE - LINE FM-1
 SCALE VERTICAL: 1"= 10'
 SCALE HORIZONTAL: 1"= 50'

PROFILE - LINE FM-2
 SCALE VERTICAL: 1"= 10'
 SCALE HORIZONTAL: 1"= 50'

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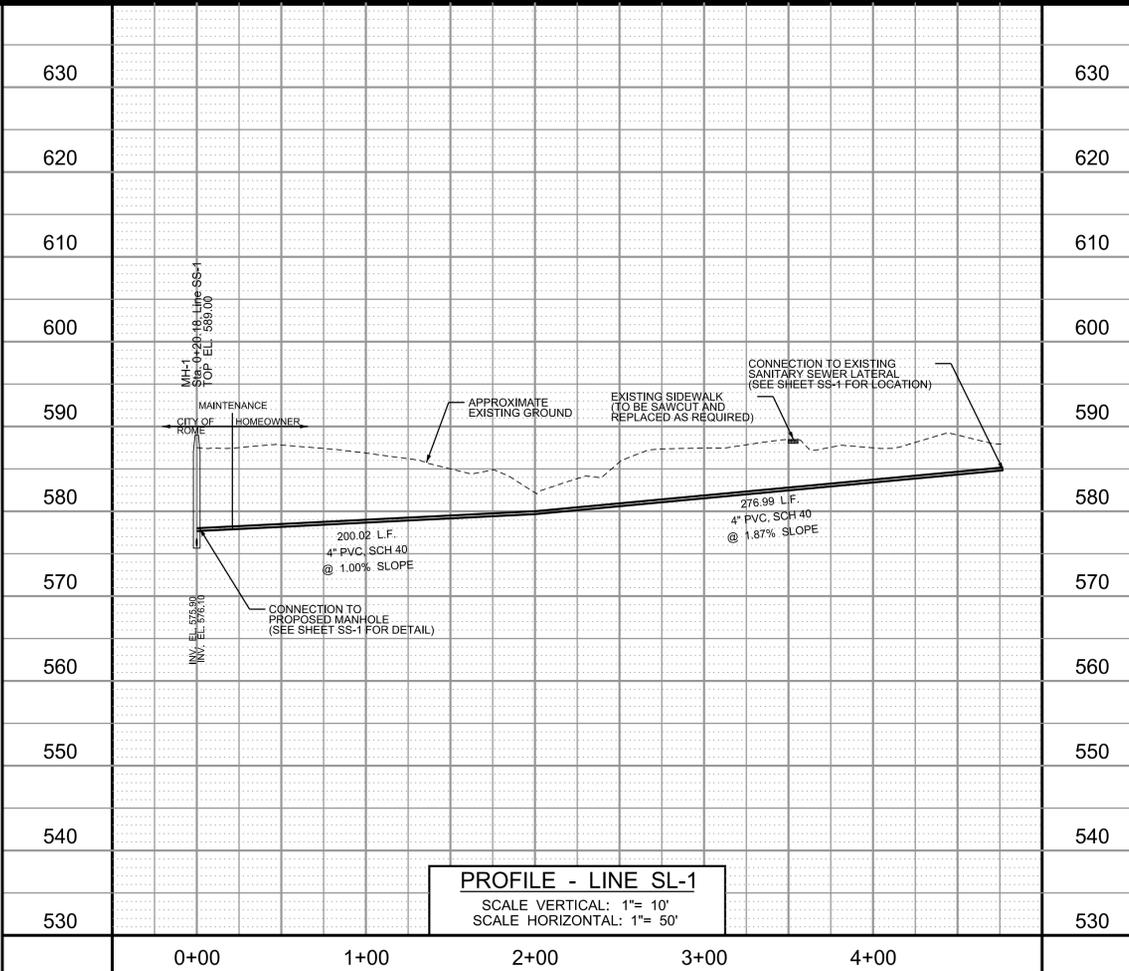
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NOTES:

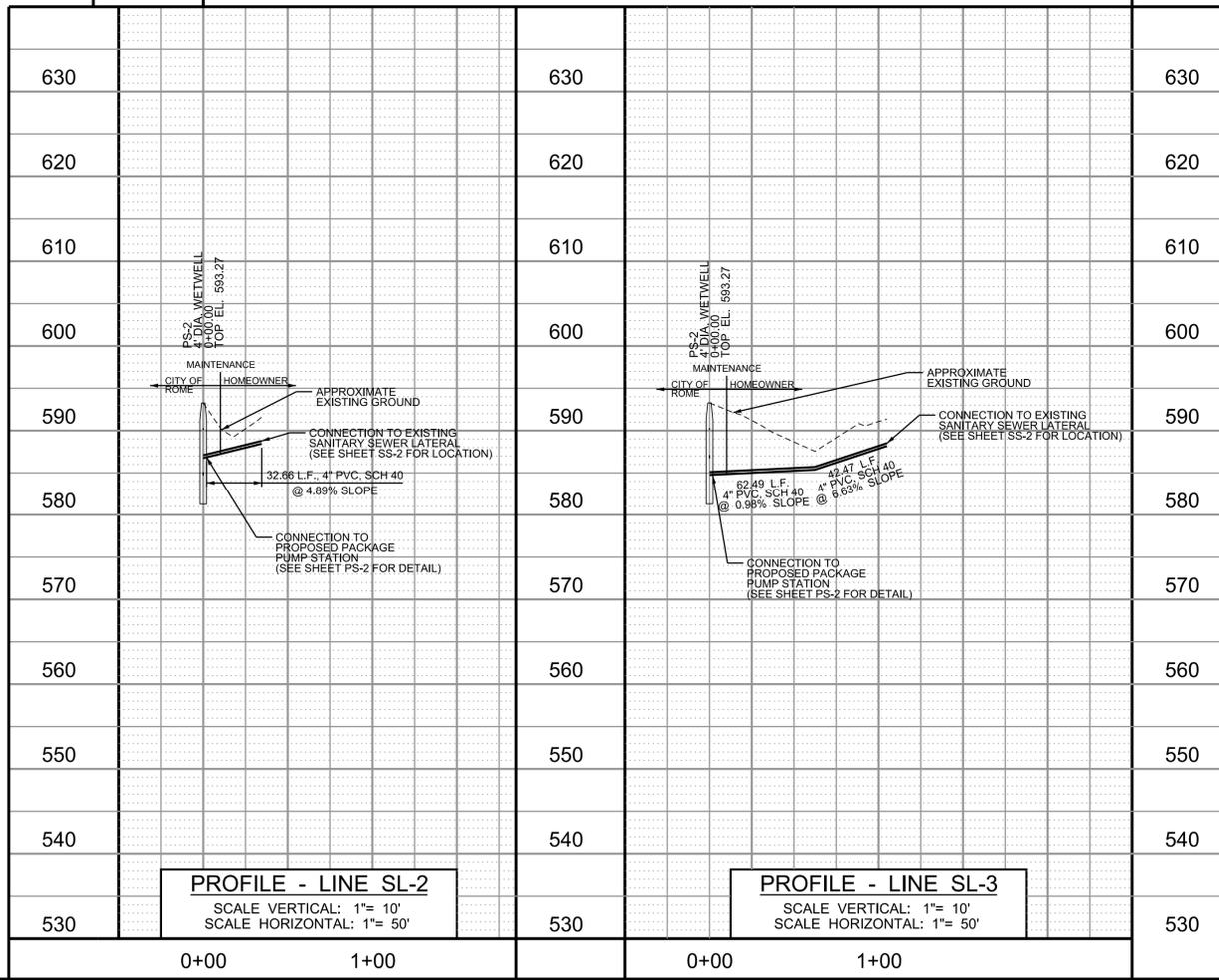
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PROFILE - LINE SL-1
SCALE VERTICAL: 1"= 10'
SCALE HORIZONTAL: 1"= 50'



PROFILE - LINE SL-2
SCALE VERTICAL: 1"= 10'
SCALE HORIZONTAL: 1"= 50'

PROFILE - LINE SL-3
SCALE VERTICAL: 1"= 10'
SCALE HORIZONTAL: 1"= 50'



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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 9/25/19

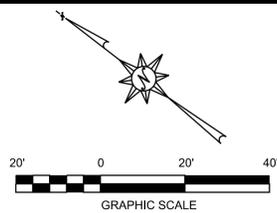


9/25/19
THIS SHEET CONTAINS:
SANITARY SEWER
LATERAL PROFILE
LINE No. SL-1, SL-2
AND SL-3

SCALE: AS NOTED
SHEET 13 OF 37

SL-1

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ALL ELEVATIONS SHOWN ARE NAVD 88.



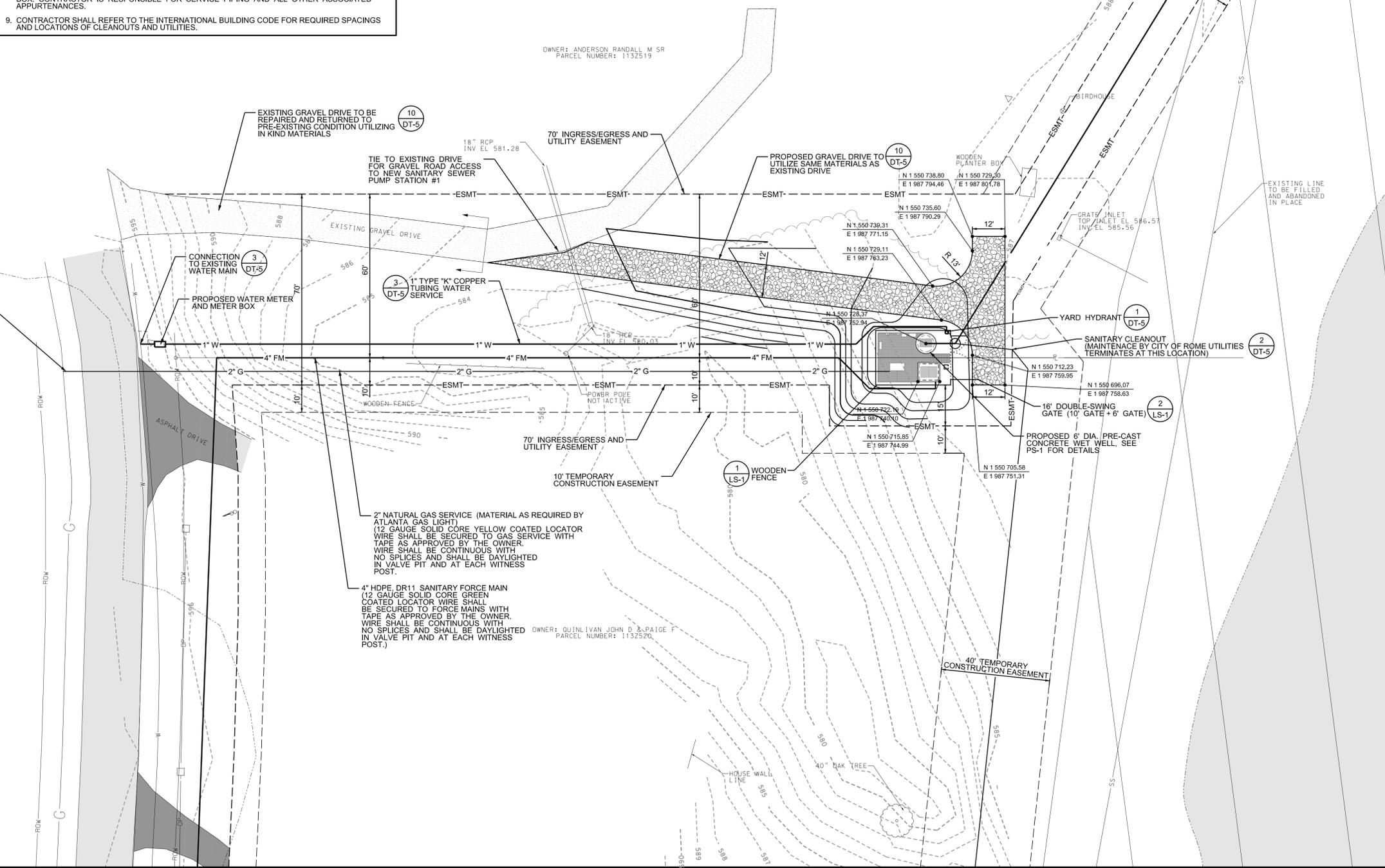
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3. ALL DRIVEWAYS TO BE BACKFILLED WITH 100% STONE.
4. ALL YARDS, DRIVES, ETC. TO BE REPLACED IN LIKE KIND CONDITION.
5. CONTRACTOR TO FIGURE ALL REQUIRED VERTICAL AND HORIZONTAL BENDS. ONLY KNOWN HORIZONTAL BENDS HAVE BEEN SHOWN.
6. DO NOT CLEAR OUTSIDE ROAD RIGHT-OF-WAY LIMITS OR OUTSIDE OF UTILITY EASEMENTS.
7. CONTRACTOR TO REMOVE AND REINSTALL ALL MAILBOXES, PLANTERS, ETC. REQUIRED FOR NEW WATER LINE, SEWER LINE, AND/OR GAS LINE INSTALLATION.
8. OWNER WILL FURNISH AND INSTALL WATER TAP, NEW WATER METER AND WATER METER BOX. CONTRACTOR IS RESPONSIBLE FOR SERVICE PIPING AND ALL OTHER ASSOCIATED APPURTENANCES.
9. CONTRACTOR SHALL REFER TO THE INTERNATIONAL BUILDING CODE FOR REQUIRED SPACINGS AND LOCATIONS OF CLEANOUTS AND UTILITIES.

OWNER: ANDERSON RANDALL M SR
PARCEL NUMBER: 1132519

OWNER: QUINLIVAN JOHN D & PAIGE F
PARCEL NUMBER: 1132520

REQUIRED CONNECTION TO EXISTING GAS LINE. CONTRACTOR TO CONTACT ATLANTA GAS LIGHT AT 1-800-599-3770 TO COORDINATE SERVICE INSTALLATION REQUIREMENTS.



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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423



THIS SHEET CONTAINS:

SANITARY SEWER
PUMP STATION #1
SITE LAYOUT AND
CONTROL PLAN

SCALE: 1"=20'
SHEET 14 OF 37

SI-1



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PLOTTED: 9/25/19

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9/25/19

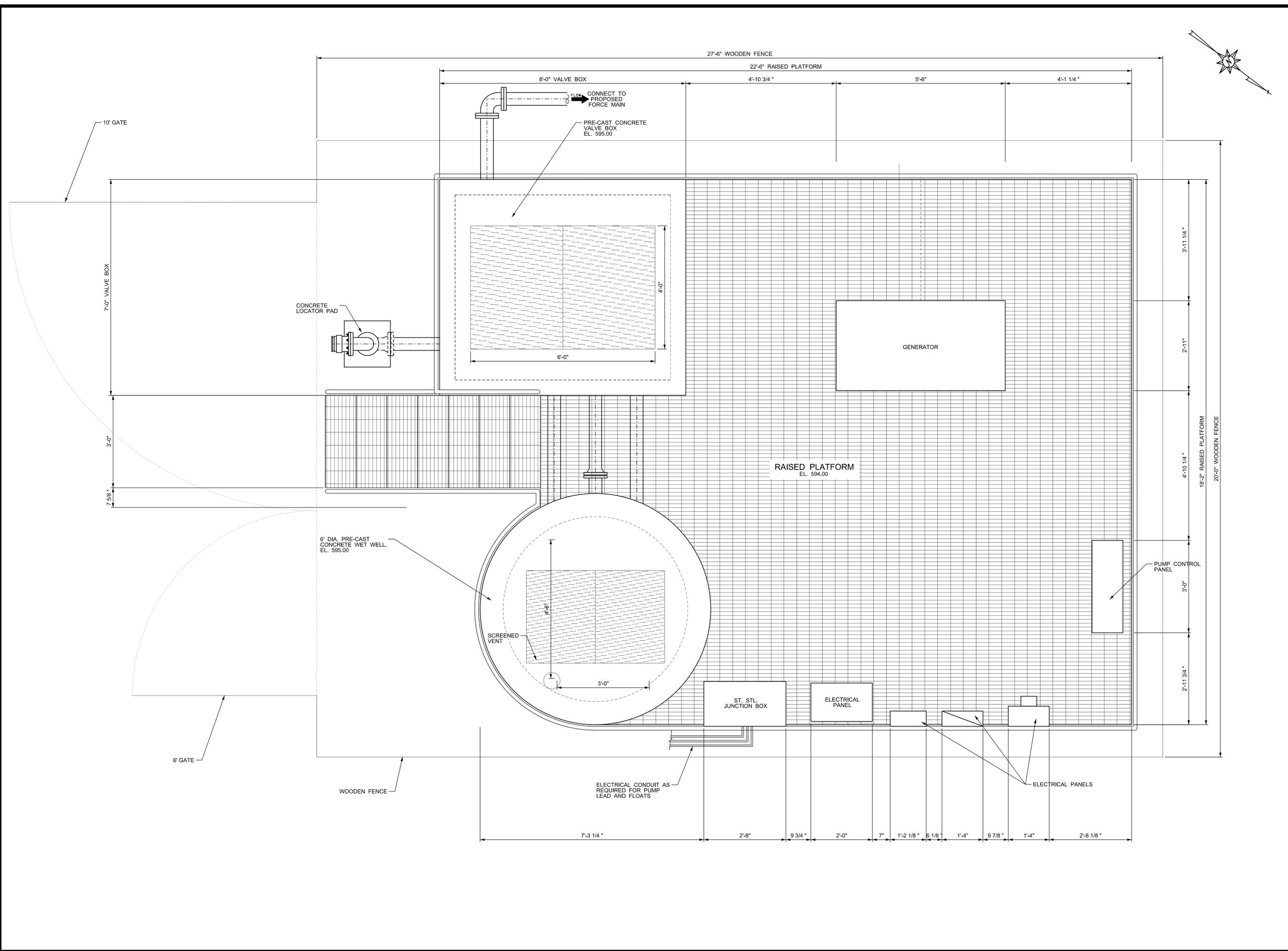
THIS SHEET CONTAINS:

SANITARY SEWER
PUMP STATION #1
MECHANICAL PLAN

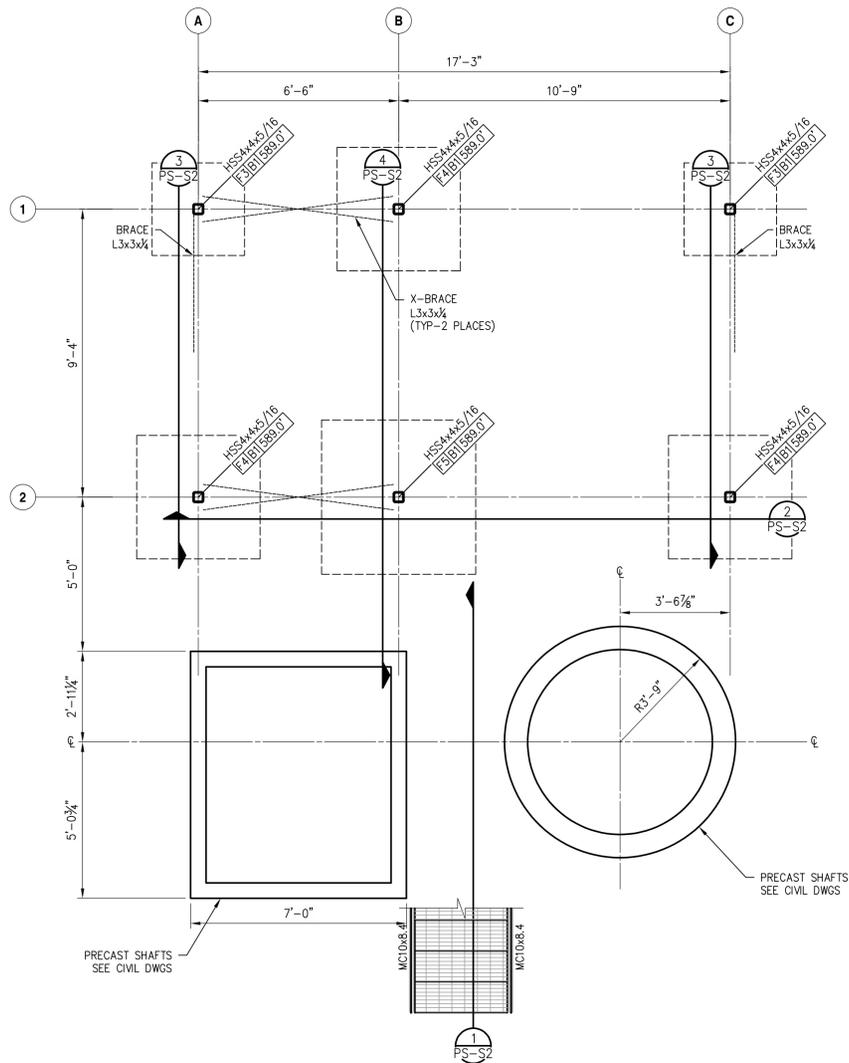
SCALE: 3/4" = 1'-0"

SHEET 15 OF 37

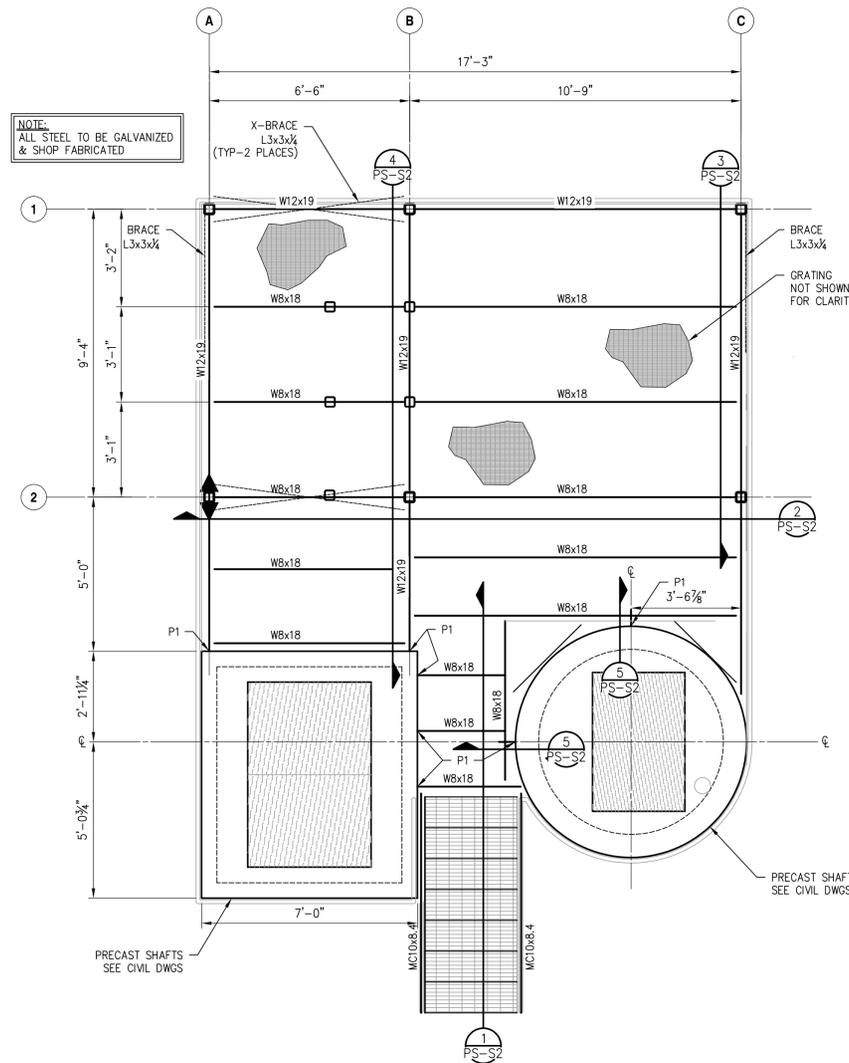
PS-1



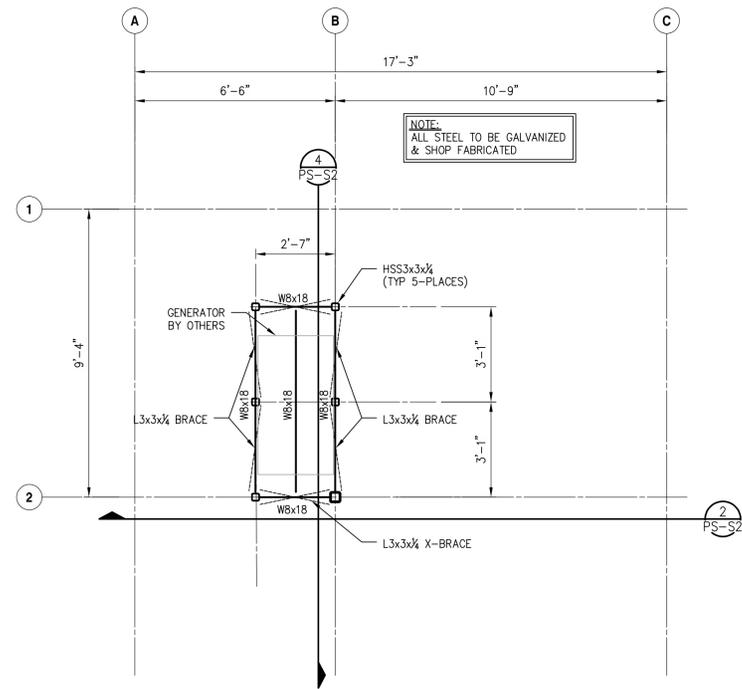
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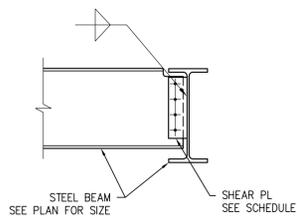
FOUNDATION PLAN
 A PS-S1 3/8"=1'-0"



PLATFORM FRAMING PLAN
 B PS-S1 3/8"=1'-0"



GENERATOR FRAMING PLAN
 A PS-S1 3/8"=1'-0"



STL SECTION	A325-N NO. BOLTS	SHEAR PLATE THICKNESS	FILLET WELD SIZE
WB, W10	2-3/4"	3/8"	3/16"
W12, W14	3-3/4"	3/8"	3/16"
W16, W18	4-3/4"	3/8"	3/16"
W21, W24	5-3/4"	3/8"	3/16"

NOTES
 SHEAR PLATE TO BE CLEARLY MARKED TO IDENTIFY CORRECT PLACEMENT OF BEAM TO SHEAR PLATE UPON ERECTION.

DETAIL-TYP SINGLE SHEAR PL CONN
 1 PS-S1 3/4"=1'-0"

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 SEWER PUMP STATION ADDITION**

ROME, GEORGIA



PROJECT INFO:
 INSITE JOB No. 16120.04
 PLOTTED: 08/20/19
 ISSUED FOR CONSTRUCTION

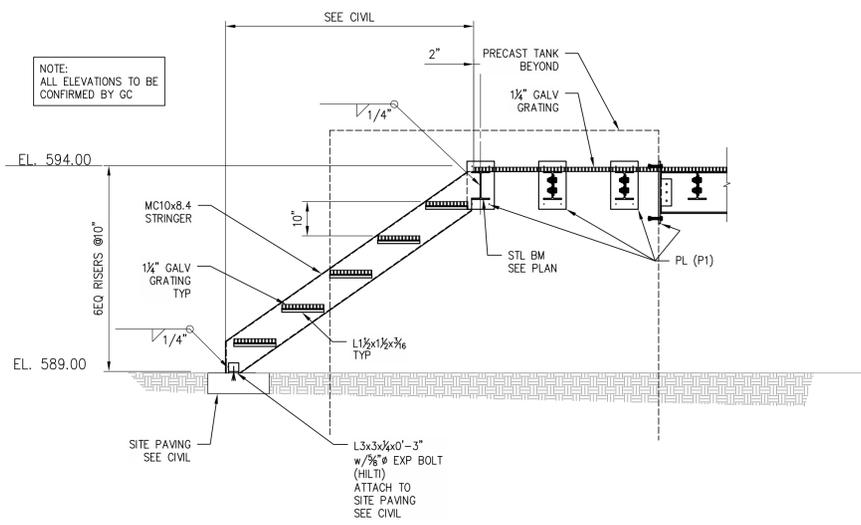
GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 31944
 M. L. LORE

SIGNED: 08/20/19

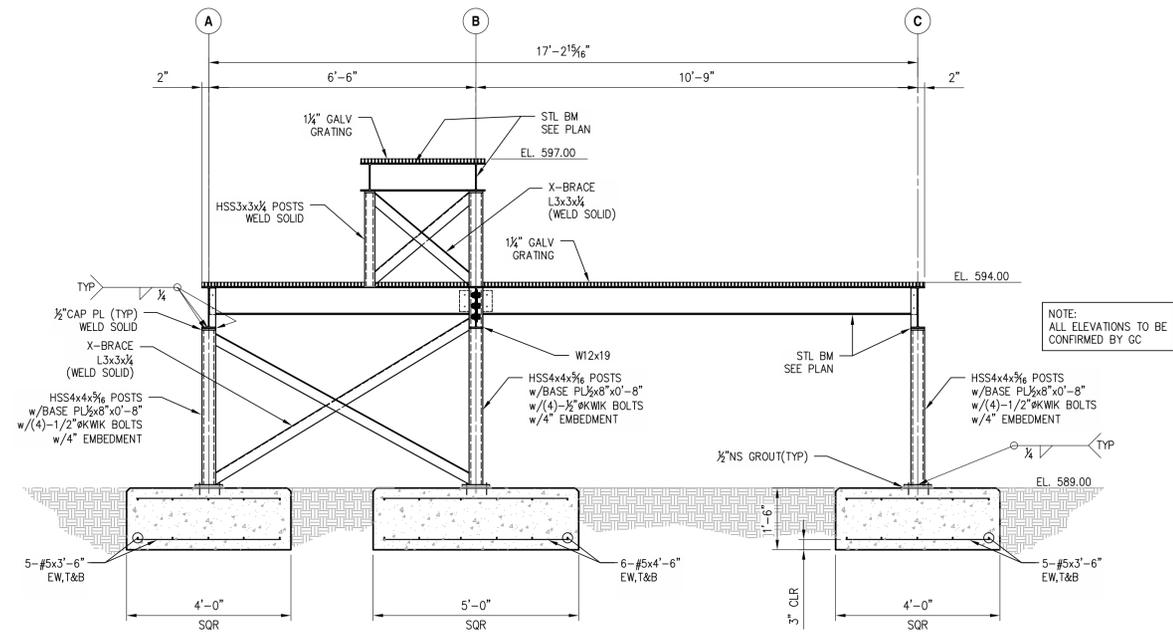
THIS SHEET CONTAINS:
 SANITARY SEWER PUMP STATION #1
 STRUCTURAL PLATFORM PLANS & DETAILS

SCALE: 3/8"=1'-0"
 SHEET 17 OF 37

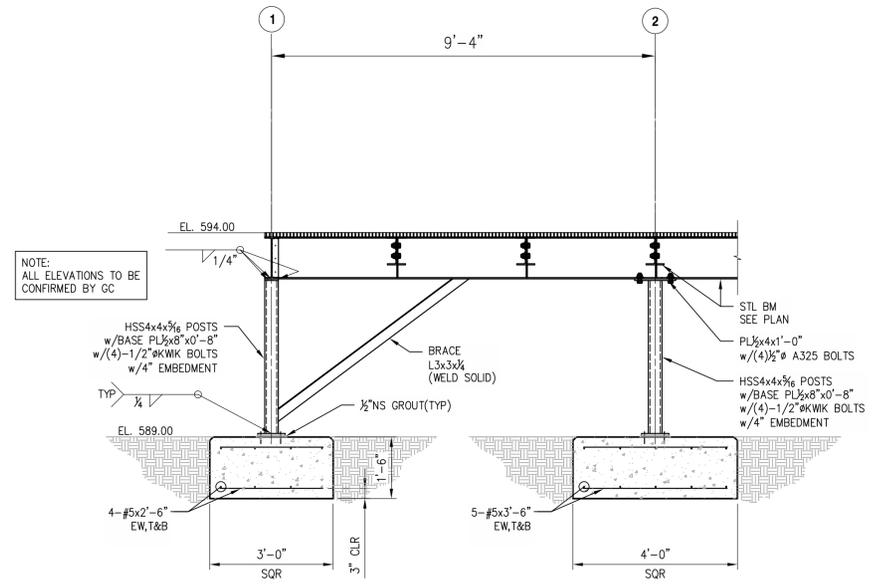
PS-S1



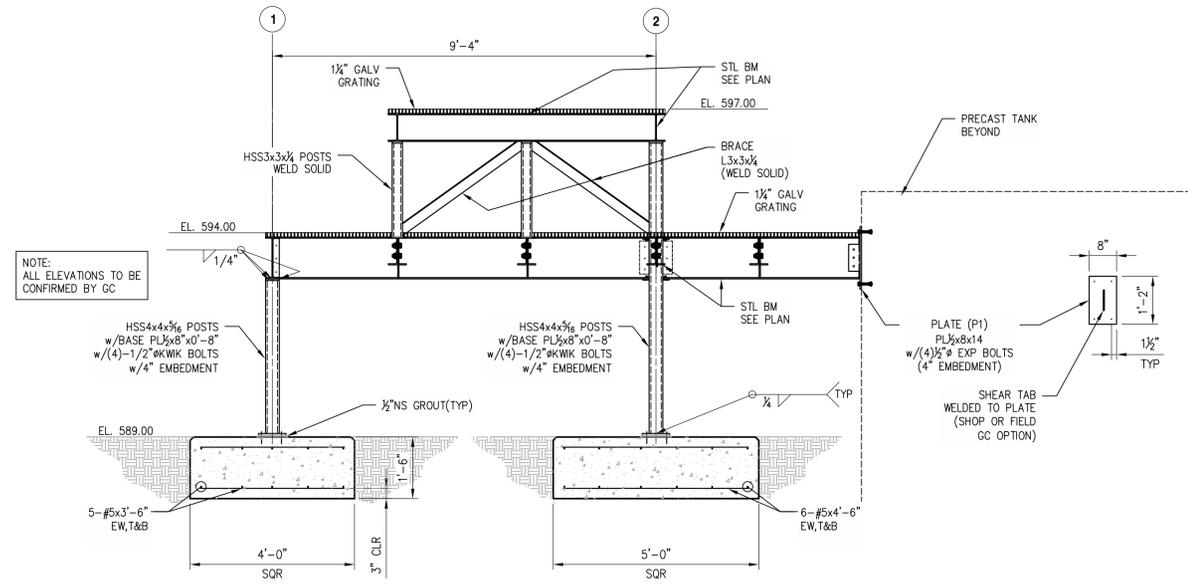
1 SECTION-PLATFORM
PS-S2 1/2"=1'-0"



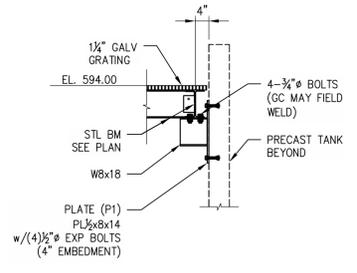
2 SECTION-PLATFORM
PS-S2 1/2"=1'-0"



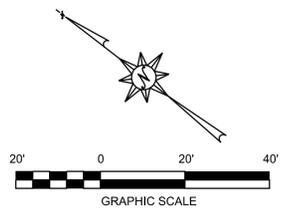
3 SECTION-PLATFORM
PS-S2 1/2"=1'-0"



4 SECTION-PLATFORM
PS-S2 1/2"=1'-0"

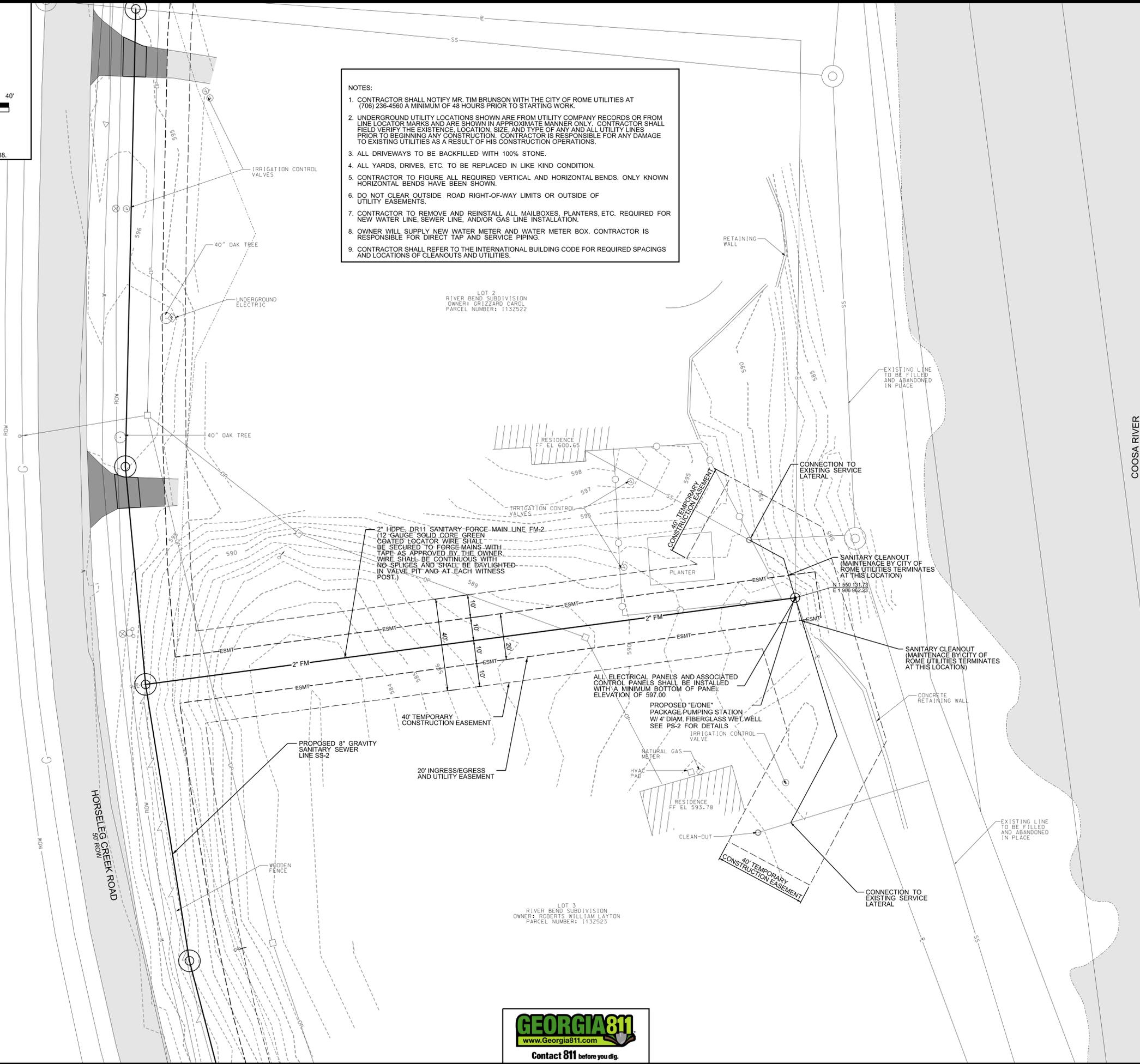


5 SECTION
PS-S2 1/2"=1'-0"



ALL COORDINATES ARE GEORGIA STATE PLANE - WEST ZONE NAD 83.
ALL ELEVATIONS SHOWN ARE NAVD 88.

- NOTES:**
1. CONTRACTOR SHALL NOTIFY MR. TIM BRUNSON WITH THE CITY OF ROME UTILITIES AT (706) 236-4560 A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.
 2. UNDERGROUND UTILITY LOCATIONS SHOWN ARE FROM UTILITY COMPANY RECORDS OR FROM LINE LOCATOR MARKS AND ARE SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, SIZE, AND TYPE OF ANY AND ALL UTILITY LINES PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF HIS CONSTRUCTION OPERATIONS.
 3. ALL DRIVEWAYS TO BE BACKFILLED WITH 100% STONE.
 4. ALL YARDS, DRIVES, ETC. TO BE REPLACED IN LIKE KIND CONDITION.
 5. CONTRACTOR TO FIGURE ALL REQUIRED VERTICAL AND HORIZONTAL BENDS. ONLY KNOWN HORIZONTAL BENDS HAVE BEEN SHOWN.
 6. DO NOT CLEAR OUTSIDE ROAD RIGHT-OF-WAY LIMITS OR OUTSIDE OF UTILITY EASEMENTS.
 7. CONTRACTOR TO REMOVE AND REINSTALL ALL MAILBOXES, PLANTERS, ETC. REQUIRED FOR NEW WATER LINE, SEWER LINE, AND/OR GAS LINE INSTALLATION.
 8. OWNER WILL SUPPLY NEW WATER METER AND WATER METER BOX. CONTRACTOR IS RESPONSIBLE FOR DIRECT TAP AND SERVICE PIPING.
 9. CONTRACTOR SHALL REFER TO THE INTERNATIONAL BUILDING CODE FOR REQUIRED SPACINGS AND LOCATIONS OF CLEANOUTS AND UTILITIES.



2" HDPE, DR11 SANITARY FORCE MAIN LINE FM-2 (12 GAUGE SOLID CORE GREEN COATED LOCATOR WIRE SHALL BE SECURED TO FORCE MAINS WITH TAPE AS APPROVED BY THE OWNER. WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL BE DAYLIGHTED IN VALVE PIT AND AT EACH WITNESS POST.)

ALL ELECTRICAL PANELS AND ASSOCIATED CONTROL PANELS SHALL BE INSTALLED WITH A MINIMUM BOTTOM OF PANEL ELEVATION OF 597.00

PROPOSED 'E/ONE' PACKAGE PUMPING STATION - W/ 4" DIAM. FIBERGLASS WET WELL SEE PS-2 FOR DETAILS

LOT 3
RIVER BEND SUBDIVISION
OWNER: ROBERTS WILLIAM LAYTON
PARCEL NUMBER: 1132523

LOT 2
RIVER BEND SUBDIVISION
OWNER: GRIZZARD CAROL
PARCEL NUMBER: 1132522

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SEWER PUMP STATION ADDITION**
ROME, GEORGIA



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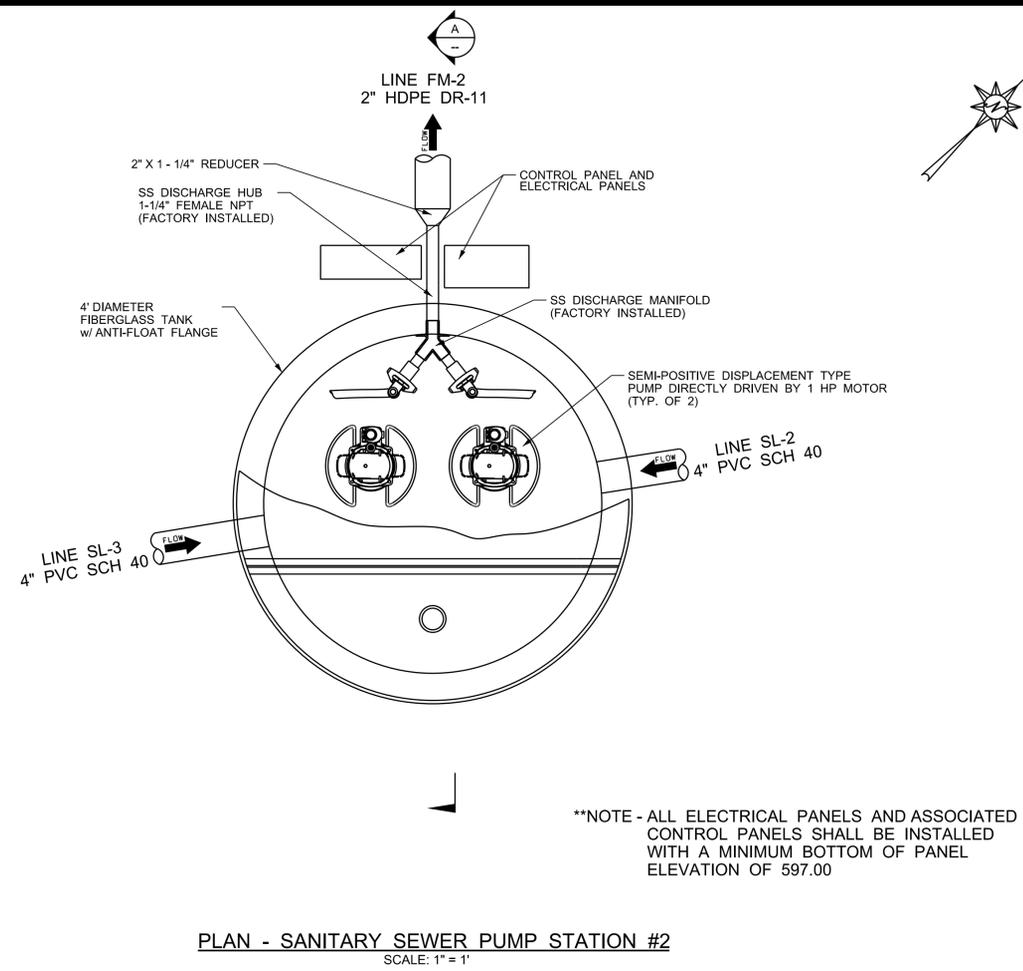
INSITE JOB No. 16120.04
PLOTTED: 9/25/19
LEVEL II CERT. #: 0000084423

9/25/19

THIS SHEET CONTAINS:
SANITARY SEWER
PUMP STATION #2
SITE LAYOUT AND
CONTROL PLAN

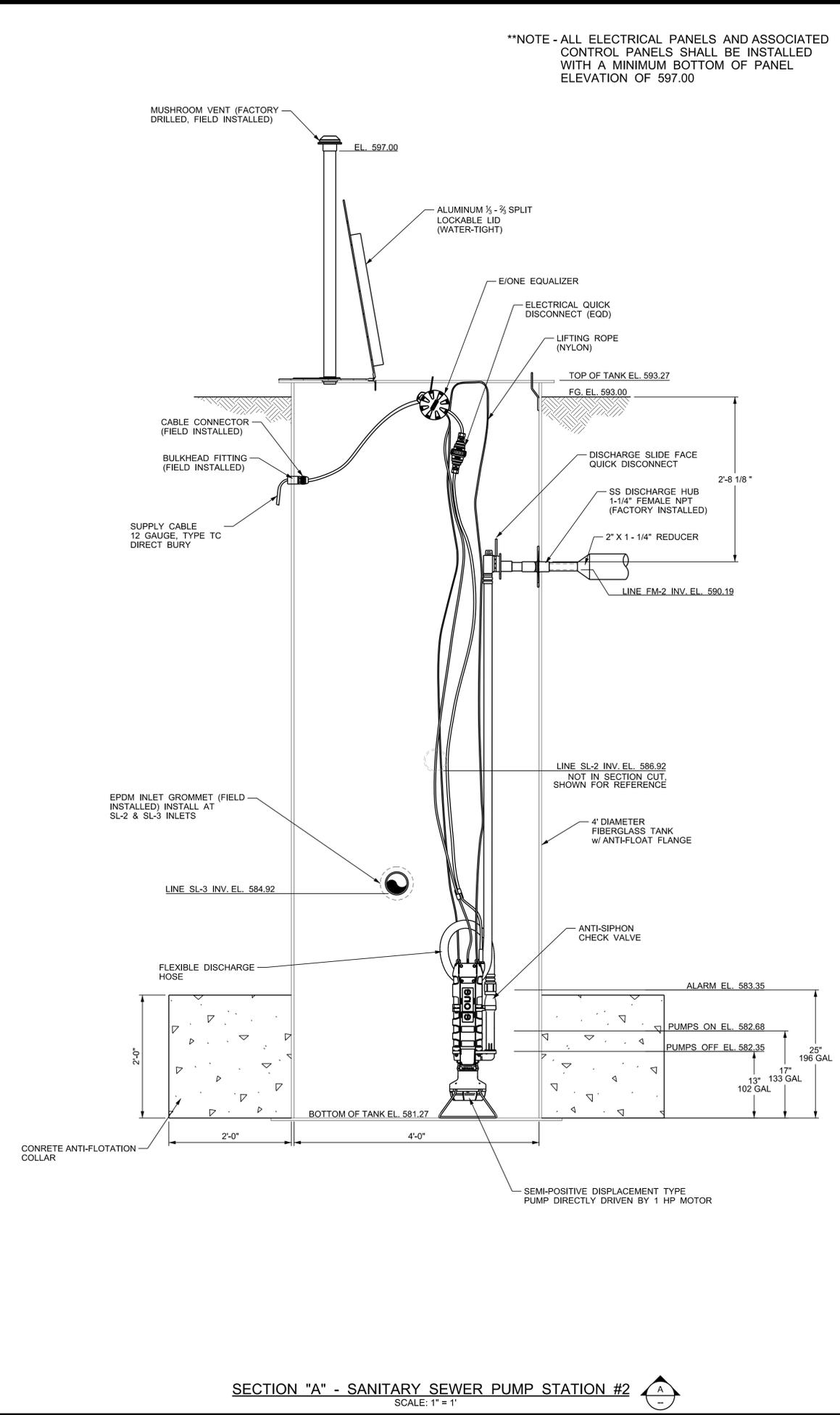
SCALE: 1"= 20'
SHEET 19 OF 37

SI-2



PLAN - SANITARY SEWER PUMP STATION #2
SCALE: 1" = 1'

**NOTE - ALL ELECTRICAL PANELS AND ASSOCIATED CONTROL PANELS SHALL BE INSTALLED WITH A MINIMUM BOTTOM OF PANEL ELEVATION OF 597.00



SECTION "A" - SANITARY SEWER PUMP STATION #2
SCALE: 1" = 1'

**NOTE - ALL ELECTRICAL PANELS AND ASSOCIATED CONTROL PANELS SHALL BE INSTALLED WITH A MINIMUM BOTTOM OF PANEL ELEVATION OF 597.00

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PROJECT INFO:

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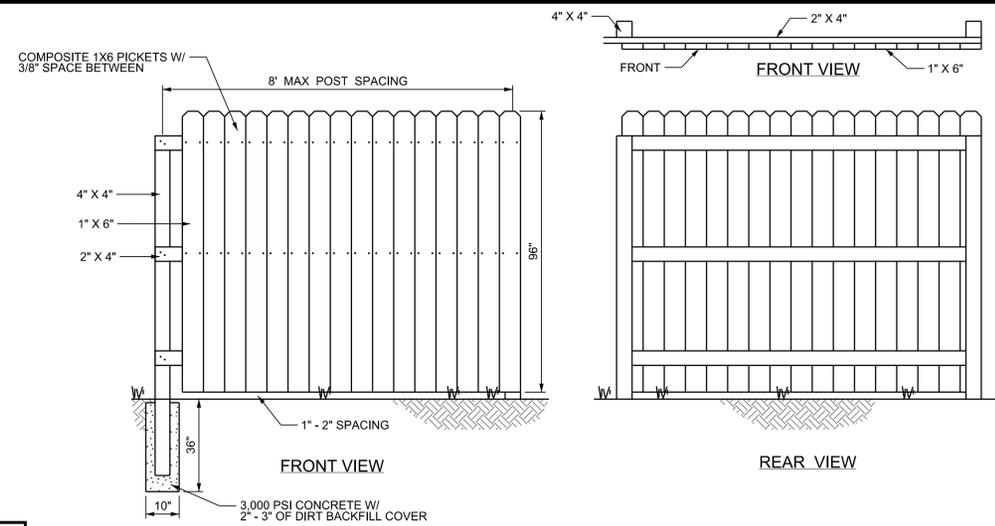
9/25/19

THIS SHEET CONTAINS:
SANITARY SEWER
PUMP STATION #2
MECHANICAL PLAN
AND SECTION

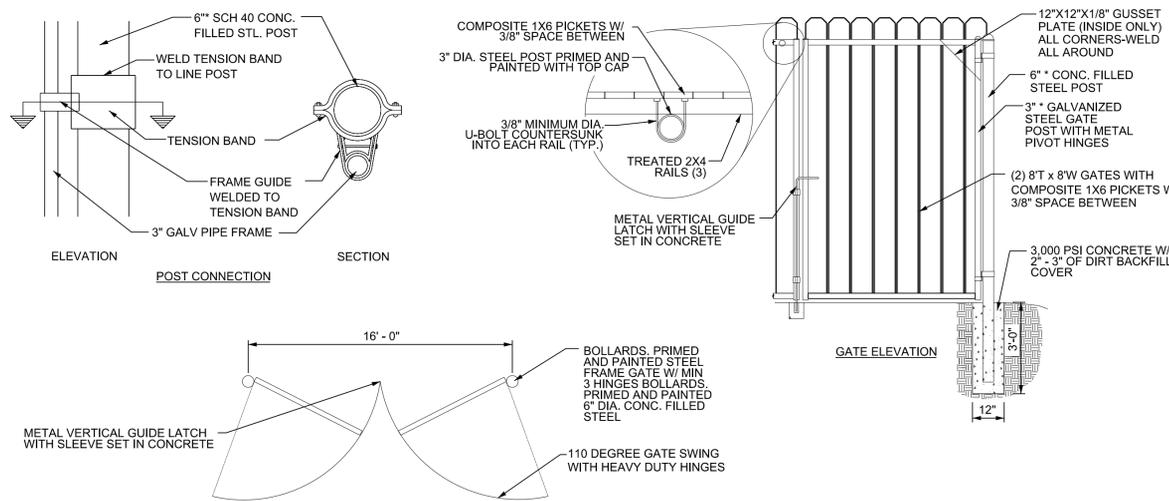
SCALE: 1" = 1'
SHEET 20 OF 37

PS-2

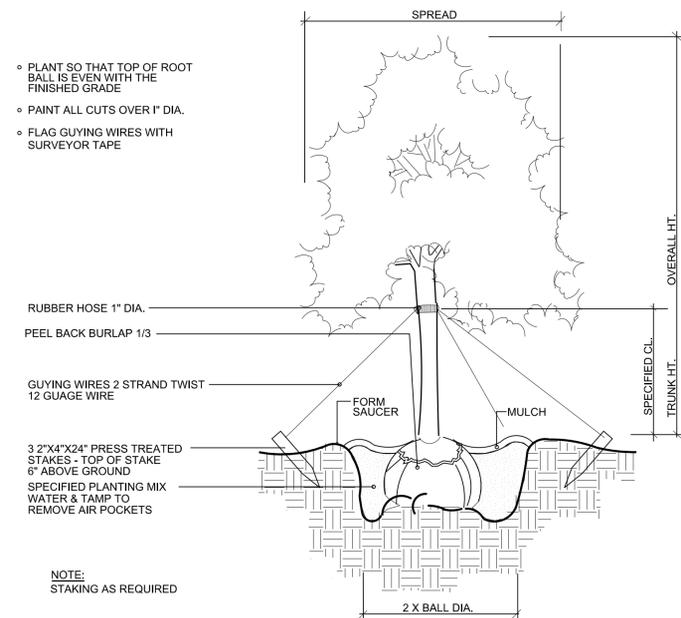
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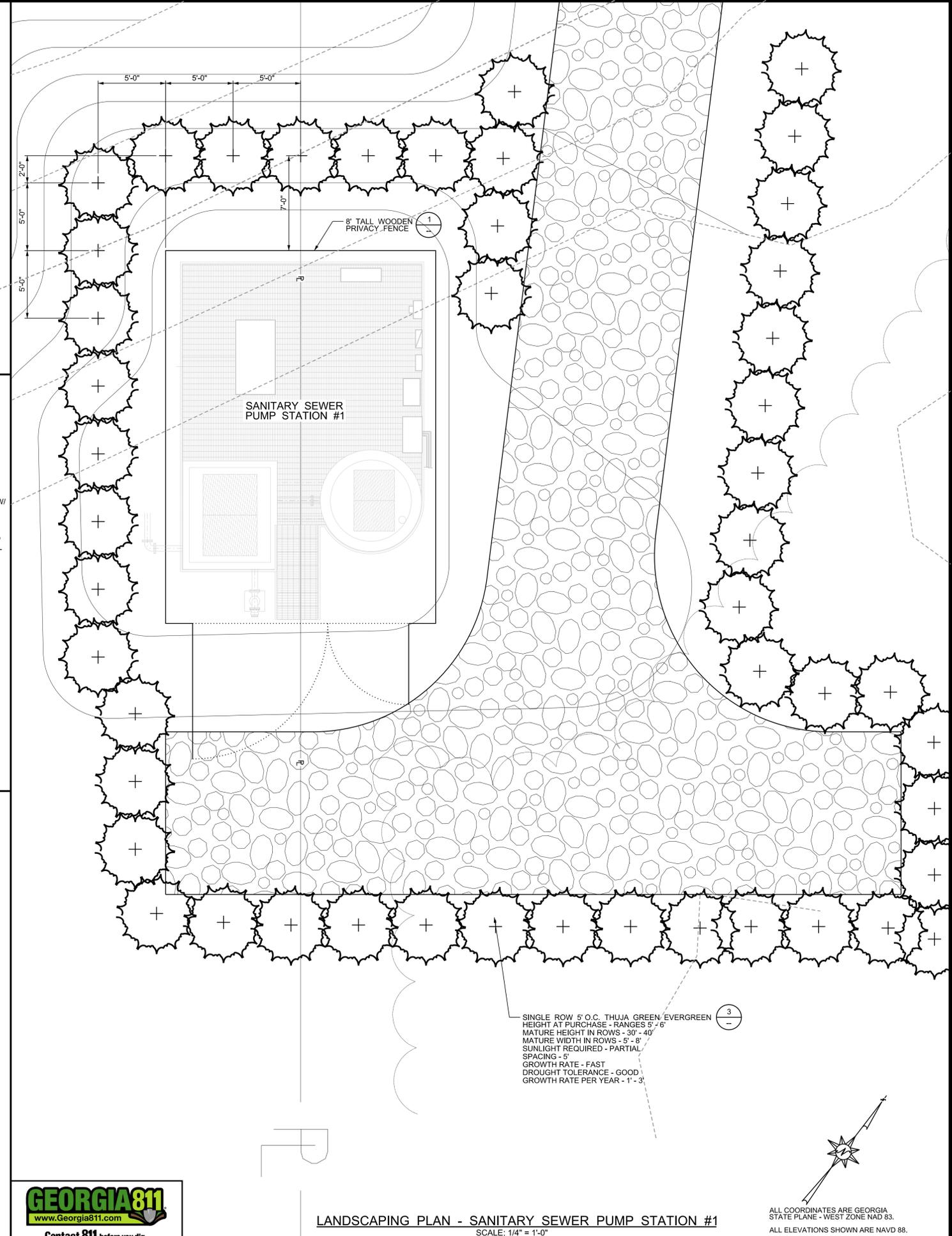
DETAIL - 8' WOODEN PRIVACY FENCE
SCALE: NONE



DETAIL - 16' DOUBLE-SWING WOODEN GATE
SCALE: NONE



TREE PLANTING - GUY WIRES
SCALE: NONE



LANDSCAPING PLAN - SANITARY SEWER PUMP STATION #1
SCALE: 1/4" = 1'-0"



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PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423



9/25/19

THIS SHEET CONTAINS:
SANITARY SEWER
PUMP STATION #1
LANDSCAPING PLAN

SCALE: AS NOTED
SHEET 21 OF 37

LS-1

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ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 7/16/2019
SUBMITTED FOR APPROVAL



7/16/2019
THIS SHEET CONTAINS:
**ELECTRICAL LEGEND,
NOTES & LIGHTING
FIXTURE SCHEDULE**

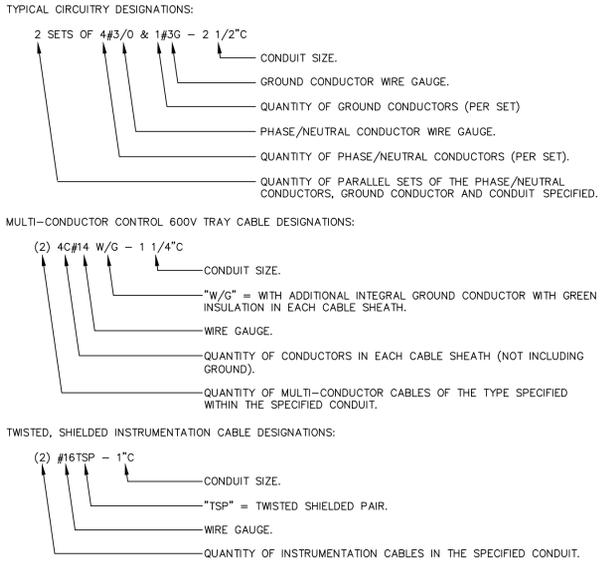
SCALE: SEE PLANS
SHEET 22 OF 37

GE-1

GENERAL ELECTRICAL LEGEND

- FIXTURE OUTLET - POLELIGHT - SINGLE FIXTURE.
- FIXTURE DESIGNATIONS:
 - A. FIXTURE TYPE "A" - MAY BE USED WITH OTHER TYPES.
 - 2. CIRCUIT NUMBER - MAY BE USED WITH OTHER NUMBERS.
 - b. SWITCH LEG TO WHICH FIXTURE IS CONNECTED - MAY BE USED WITH OTHER LOWER-CASE LETTERS.
- SWITCH OUTLET - S.P.S.T. - 20A - 120VAC - WEATHERPROOF OIL-TIGHT, 2-POSITION, MAINTAINED CONTACT, 30MM SELECTOR SWITCH WITH "AUTO-OFF" LEGEND PLATE - LABEL FUNCTION WITH ENGRAVED NAMEPLATE (SUCH AS "POLE LIGHTS") - SEE DETAIL "E-CS".
- DOUBLE DUPLEX
- WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - "GFI" TYPE - WEATHER RESISTANT - NEMA 5-20R - SINGLE PLATE.
- OUTLET INSTALLATION DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):
 - ES. EQUIPMENT MOUNTED TO ALUMINUM SUPPORT FRAME - SEE DETAIL "E-ES".
 - VL. VERIFY EXACT OUTLET LOCATION PRIOR TO BID.
 - W. WEATHER PROOF - OUTLET SHALL BE INSTALLED WITH WEATHERPROOF, IN-USE, CAST COVER.
- BRANCH/FEEDER CIRCUIT - EXPOSED ON WALLS OR CEILING.
- BRANCH/FEEDER CIRCUIT - CONCEALED IN FLOOR SLAB OR DIRT FILL.
- BRANCH/FEEDER CIRCUIT - OVERHEAD BETWEEN POLES.
- BRANCH/FEEDER CIRCUIT - HOMERUN - CAN BE USED WITH OTHER BRANCH/FEEDER TYPES.
- BRANCH/FEEDER CIRCUIT MODIFIERS:
 - 2#12 & 1#12G UNLESS NOTED OTHERWISE.
 - 3#12 & 1#12G, ETC. UNLESS NOTED OTHERWISE (TICK MARKS INDICATE CONDUCTOR QUANTITY NOT INCLUDING GROUND WIRE).
 - 2#10 & 1#10G UNLESS NOTED OTHERWISE (NUMBER INDICATES WIRE AWG).
- SIZE CONDUIT PER N.E.C. UNLESS INDICATED OTHERWISE.
- OVERHEAD PRIMARY POWER SERVICE CABLING (WITH TELECOMMUNICATIONS CABLING WHERE APPLICABLE).
- OVERHEAD SECONDARY POWER SERVICE CABLING (WITH TELECOMMUNICATIONS CABLING WHERE APPLICABLE).
- UNDERGROUND SECONDARY POWER SERVICE
- POWER/TELECOMMUNICATIONS POLE WITH GUYING AS REQUIRED.
- FLEXIBLE CONNECTION TO EQUIPMENT.
- BRANCH CIRCUIT - RISER DOWN OR GENERAL CONDUIT STUB-OUT.
- SURGE PROTECTION DEVICE.
- LIGHTING PANEL - SURFACE MOUNTED.
- DISCONNECT SWITCH - NONFUSED.
- DISCONNECT SWITCH - FUSED.
- GROUND CONNECTION.
- BARE SUPPLEMENTAL GROUND WIRE - #4/0G IF NOT INDICATED OTHERWISE - INSTALLED A MINIMUM OF 24" BELOW GRADE AND 24" MINIMUM FROM STRUCTURES WHERE POSSIBLE.
- SUPPLEMENTAL GROUNDING SYSTEM - GROUND ROD - 3/4" x10'-0" COPPER-CLAD - TOP DRIVEN A MINIMUM OF 24" BELOW GRADE.
- SUPPLEMENTAL GROUNDING SYSTEM - GROUND CONNECTION - CADWELD WHERE BELOW GRADE OR CONCEALED.
- SUPPLEMENTAL GROUNDING SYSTEM - GROUND CONNECTION - TO EQUIPMENT OR STRUCTURE.
- MOTOR OUTLET - SIZE AS SHOWN.

- WELL WETWELL JUNCTION BOX(ES) - SEE DETAIL "E-WWJB".
- FS^{x4} FLOAT SWITCH(ES) - "x4" OR SIMILAR INDICATES QUANTITIES OF FLOAT SWITCHES -SEE DETAIL "E-SUBC".
- PTV SUBMERSIBLE PRESSURE TRANSDUCER - SEE DETAIL "E-SUBC".
- PRE-WIRED LIFT STATION CONTROL PANEL - VERIFY EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN - PROVIDE ALL CIRCUITRY TO PUMPS, FLOAT SWITCHES, ALARMS, ETC. AS DIRECTED BY EQUIPMENT SUPPLIER IN CONDUIT SIZED PER NEC/SUPPLIER AS REQUIRED FOR A COMPLETE, FULLY-FUNCTIONAL INSTALLATION - PROVIDE 10 FOOT MINIMUM COIL OF ALL WETWELL CABLING AT TOP OF WETWELL - WETWELL SHALL BE CONSIDERED CLASS I, DIV I HAZARDOUS LOCATION AND ENTIRE INSTALLATION SHALL COMPLY WITH NFPA 820 REQUIREMENTS - ALL CONDUITS PASSING THROUGH HAZARDOUS LOCATION SHALL HAVE CONDUIT SEALS OR OTHER CODE ACCEPTED MEANS OF HAZARDOUS LOCATION ISOLATION - MOUNT CONTROL PANEL AND ALL OTHER ASSOCIATED ELECTRICAL DEVICES A MINIMUM OF 18" ABOVE GRADE AND AT LEAST 5 FEET FROM WETWELL VENTILATION.
- GENERAL ABBREVIATIONS:
 - EX EXISTING TO REMAIN.
 - EX-R EXISTING TO BE REMOVED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING CONNECTIONS TO OTHER ELECTRICAL ITEMS UNLESS SHOWN OTHERWISE.
 - EX-RL EXISTING TO BE RELOCATED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING AT EXISTING LOCATION. RELOCATE ITEM TO NEW LOCATION SHOWN ON ELECTRICAL PLANS. EXTEND AND RECONNECT EXISTING CONDUIT, WIRING, ETC. TO NEW LOCATION AS REQUIRED UNLESS SHOWN OTHERWISE.
 - EX-RP EXISTING TO BE REPLACED - EXTEND AND RECONNECT EXISTING CONDUIT AND WIRING TO REPLACED ITEM.
- ELECTRICAL ABBREVIATIONS:
 - A AMPERES.
 - AIC AMPERES INTERRUPTING CAPACITY.
 - AF ABOVE FINISHED FLOOR.
 - AL ALUMINUM.
 - ATS AUTOMATIC TRANSFER SWITCH.
 - AWG AMERICAN WIRE GAUGE.
 - C CONDUIT.
 - CU COPPER.
 - EC EMPTY CONDUIT OR ELECTRICAL CONTRACTOR.
 - FPN FUSE PER NAMEPLATE.
 - G GROUND CONDUCTOR.
 - KVA KILOWATT-AMPERES.
 - KW KILOWATT.
 - LV LOW VOLTAGE.
 - MCM THOUSAND CIRCULAR MILS.
 - MV MEDIUM VOLTAGE.
 - N NEUTRAL.
 - NEC NATIONAL ELECTRICAL CODE.
 - NEMA NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION.
 - NIC NOT IN CONTRACT.
 - NSV NEW, SPARE OR VACATED.
 - OC ON CENTER.
 - P POLES.
 - PF POWER FACTOR.
 - PH PHASE.
 - PVC POLYVINYL CHLORIDE.
 - SLD SINGLE LINE DIAGRAM.
 - SS STAINLESS STEEL.
 - UL UNDERWRITERS LABORATORY.
 - UNO UNLESS NOTED OTHERWISE.
 - V VOLTS.
 - W WIRES.
 - CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
 - CFOI CONTRACTOR FURNISHED, OWNER INSTALLED.
 - OFI OWNER FURNISHED, OWNER INSTALLED.
 - OFU OWNER FURNISHED, CONTRACTOR INSTALLED.



GENERAL ELECTRICAL NOTES

- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH NEC.
- CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR POWER SERVICES WITH UTILITY COMPANIES PRIOR TO SUBMITTING BID. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THOSE SHOWN ON PLANS THE CONTRACTOR SHALL INFORM ENGINEER IMMEDIATELY. ALL COSTS INCURRED WITH THE UTILITY COMPANY FOR SERVICE SHALL BE INCLUDED IN BID PRICE. IF SUCH COSTS ARE NOT AVAILABLE AT BID TIME CONTRACTOR SHALL INCLUDE WITH BID A LETTER FROM A RESPONSIBLE PARTY WITH THE UTILITY COMPANY STATING SUCH, AND COSTS WILL THEN BE EXCLUDED FROM THE BID PRICE.
- ELECTRICAL PLANS & DETAILS INDICATE TYPICAL WIRING REQUIREMENTS FOR PROCESS EQUIPMENT BASED ON BASIS-OF-DESIGN SYSTEMS/EQUIPMENT. VERIFY EXACT WIRING REQUIREMENTS & ALL DEVICE LOCATIONS WITH APPROVED MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN. NO ADDITIONAL COMPENSATION WILL BE PAID FOR ADJUSTMENTS REQUIRED TO COMPLY WITH REQUIREMENTS OF NON BASIS-OF-DESIGN SYSTEMS/EQUIPMENT SUPPLIERS.
- ENTIRE ELECTRICAL INSTALLATION WITHIN HAZARDOUS AREAS AS DEFINED BELOW AND BY NFPA 820 SHALL COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS FOR CONDUIT SEALS, RACEWAY TYPES, MATERIAL/DEVICE TYPES, ETC.
 - THE FOLLOWING AREAS SHALL BE CONSIDERED CLASS I, DIVISION I, GROUP D AREAS:
 - A. AREAS WITHIN PUMPING STATION WET WELLS AND VALVE VAULTS.
 - B. AREAS WITHIN 3' (UNOBSTRUCTED) OF ANY WET WELL OR VALVE VAULT VENTILATION OUTLET (SUCH AS PIPE VENT).
 - THE FOLLOWING AREAS SHALL BE CONSIDERED CLASS I, DIVISION II, GROUP D AREAS:
 - A. AREAS UP TO 18" ABOVE TOP OF WET WELL SLABS AND WITHIN 3' (UNOBSTRUCTED) HORIZONTALLY OF HATCHES OR OTHER OPENING.
 - B. AREAS WITHIN 5' (UNOBSTRUCTED) OF ANY WET WELL VENTILATION OUTLET BUT MORE THAN 3' (UNOBSTRUCTED) AWAY.

SCADA RTU POINT LIST AND CONTROL & INSTRUMENTATION WIRING SCHEDULE

HOMERUN MARK	TO	EQUIPMENT DESCRIPTION	PARAMETER	POINT TYPE	TAG	WIRING	SHEET	REMARKS
SC-1100	SCADA RTU	PUMP CONTROL PANEL	LOSS OF PHASE/POWER ALARM	DI	1100-JA	(3) 8C#14 - 2'C & (1) #16TSP - 1'C	PSE-1	
			LEVEL ALARM - HIGH	DI	1100-LAH			
			LEVEL INDICATION	AI	1100-LI			
			ON/OFF STATUS	DI	1110-YI			
			OVERLOAD ALARM	DI	1110-YA.OL			
			PUMP OVERTEMP ALARM	DI	1110-YA.OT			
SC-2100	SCADA RTU	GENERATOR GEN-A	ON/OFF STATUS	DI	2100-YI	(1) 8C#14 - 1'C	PSE-1	
			OVERLOAD ALARM	DI	1120-YA.OL			
			PUMP OVERTEMP ALARM	DI	1120-YA.OT			
			PUMP LEAKAGE ALARM	DI	1110-YA.LK			
			MINOR ALARM	DI	2100-YAH			
			MAJOR ALARM	DI	2100-YAHH			
SC-2200	SCADA RTU	ATS-A	ATS IN GENERATOR POSITION	DI	2200-GP	(1) 4C#14 - 3/4'C	PSE-1	

CONTROL & INSTRUMENTATION WIRING SCHEDULES LEGEND & NOTES

- LEGEND:
- DI - DISCRETE INPUT POINT
 - DO - DISCRETE OUTPUT POINT
 - AI - ANALOG INPUT POINT
 - AO - ANALOG OUTPUT POINT
- NOTES:
- SCADA RTU IS INTENDED TO BE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
 - ALL CONTROL CABLING (IDENTIFIED WITH "OH4" OR SIMILAR DESIGNATIONS) SHALL BE 600V MULTI-CONDUCTOR TRAY CABLE PER SPECIFICATION REQUIREMENTS.
 - ALL INSTRUMENTATION CABLING (IDENTIFIED WITH "TSP" OR "SHD" DESIGNATIONS) SHALL BE 300V TWISTED, OVERALL-SHEATHED TRAY CABLE.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMPS			MOUNTING HEIGHT	MOUNTING TYPE	REMARKS
				NUMBER	WATTS	TYPE			
Z	LITHONIA COLUMBIA DAY-BRITE	DSXO-LED-P2-40K-T5M-RPA-DNAXD WITH DLL127F-1.5-JU	120	1	49 (6,237 LUMENS)	LED		MOUNT TO POLE PER DETAIL "E-LP2"	WITH INTEGRAL PHOTOCELL

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE ALL FIXTURE MOUNTING PROVISIONS PRIOR TO ORDERING FIXTURES.
- ALL FIXTURES AND BALLASTS/DRIVERS SHALL BE RATED FOR OPERATION IN AMBIENT TEMPERATURES UP TO 55 DEGREES CELSIUS.

GENERATOR SCHEDULE

KW RATING: 20KW (MINIMUM)		SKVA RATING (AT 35%V. DIP):							
VOLTAGE: 120/240V-3P-4W		SOUND ATTENUATION: CRITICAL SILENCER							
FUEL TYPE: NATURAL GAS		LOCATION: EXTERIOR, PLATFORM							
CIR. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	SWITCH SIZE	WIRE AND COND. SIZE
1	ATS-A(E)	120/240	3		15.2		100/3		SEE SINGLE LINE DIAGRAM
TOTAL CONNECTED LOAD:							14.8 KVA		
TOTAL DEMAND LOAD:							14.8 KVA		
TOTAL COMPUTED LOAD:							15.2 KVA		
							37.0 AMPS		
							37.0 AMPS		
							15.2 KVA		
							38.1 AMPS		

NOTES:

- THE GENERATOR SUPPLIER SHALL SUBMIT A SIZING REPORT SHOWING THAT THE MAXIMUM GENERATOR VOLTAGE DIP WILL BE LESS THAN 20% WITH THE LOAD SEPARATED INTO TWO (2) STEPS AS FOLLOWS:
 - STEP 1 - 3KVAMISCELLANEOUS 1₀ LOAD PLUS ONE (1) 4HP PUMP MOTOR WITH ACROSS-THE-LINE STARTING.
 - STEP 2 - ONE (1) 4HP PUMP MOTOR WITH ACROSS-THE-LINE STARTING.
- CONTRACTOR SHALL COORDINATE THE EXACT STARTER TYPES AND MOTOR CHARACTERISTICS PRIOR TO SUBMITTING SHOP DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS AND AVAILABILITY OF NATURAL GAS FUEL SERVICE (PER SPECIFICATION REQUIREMENTS) FOR THE GENERATOR PRIOR TO SUBMITTING SHOP DRAWINGS.
- GENERATOR ENCLOSURE LENGTH/WIDTH SHALL NOT EXCEED THE SIZE(S) SHOWN ON PLANS.

AUTOMATIC TRANSFER SWITCH SCHEDULE - ATS-A

AIC RATING: 30KAIC (MINIMUM)		NORMAL FED FROM: MAIN FUSED DISCONNECT SWITCH				
VOLTAGE: 120/240V-3P-4W		NORMAL FEEDER: SEE SINGLE LINE DIAGRAM				
AMP RATING: 100 AMP		EMERGENCY FED FROM: GEN-A				
LOCATION: EXTERIOR		EMERGENCY FEEDER: SEE SINGLE LINE DIAGRAM				
LOAD SIDE FEEDER DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	WIRE AND COND. SIZE
PUMP C.P.	120/240	3		15.2		SEE SINGLE LINE DIAGRAM
EMERGENCY			NORMAL			
14.8 KVA			TOTAL CONNECTED LOAD: 14.8 KVA			
37.0 AMPS			TOTAL DEMAND LOAD: 14.8 KVA			
14.8 KVA			TOTAL COMPUTED LOAD: 15.2 KVA			
37.0 AMPS			38.1 AMPS			
15.2 KVA			38.1 AMPS			
38.1 AMPS						

NOTES:

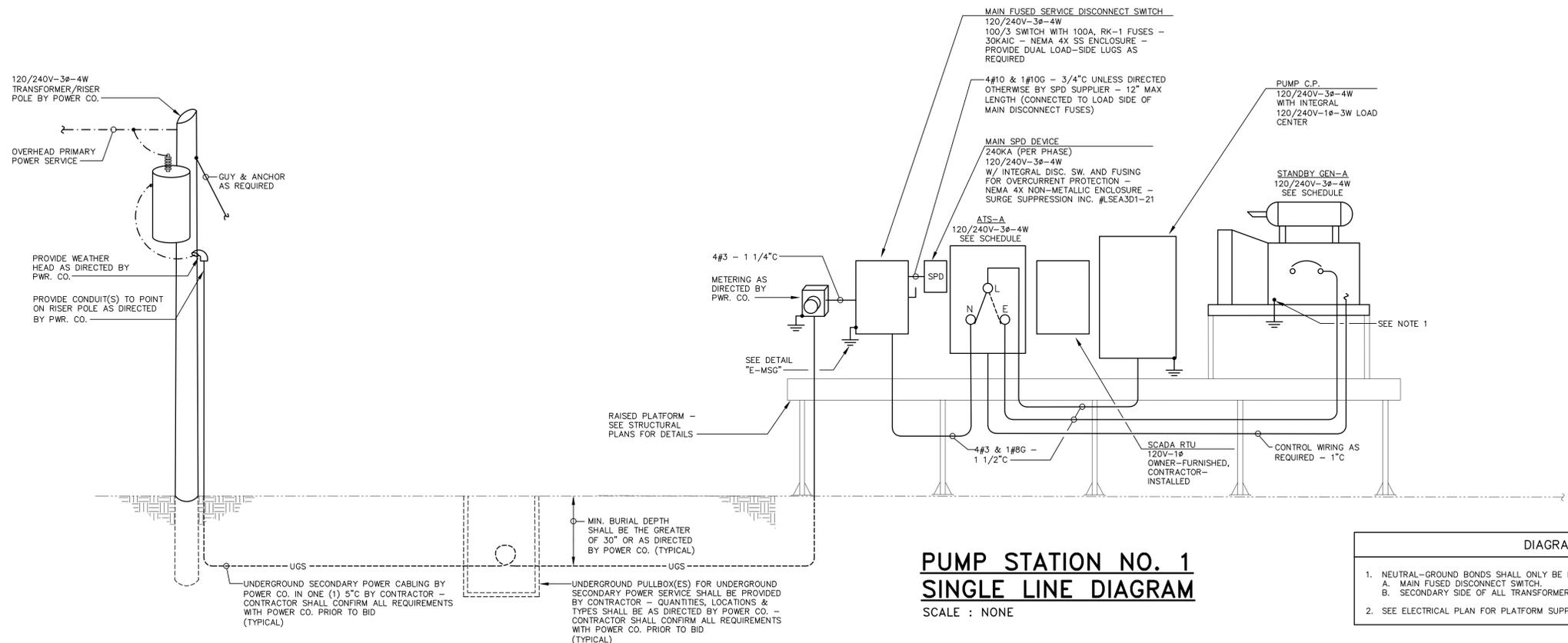
- ENCLOSURE SHALL BE NEMA4X STAINLESS STEEL.
- GENERATOR ENCLOSURE LENGTH/ WIDTH SHALL NOT EXCEED THAT SHOWN ON PLANS. MAINTAIN CODE-REQUIRED CLEARANCES ON ALL SIDES OF GENERATOR.



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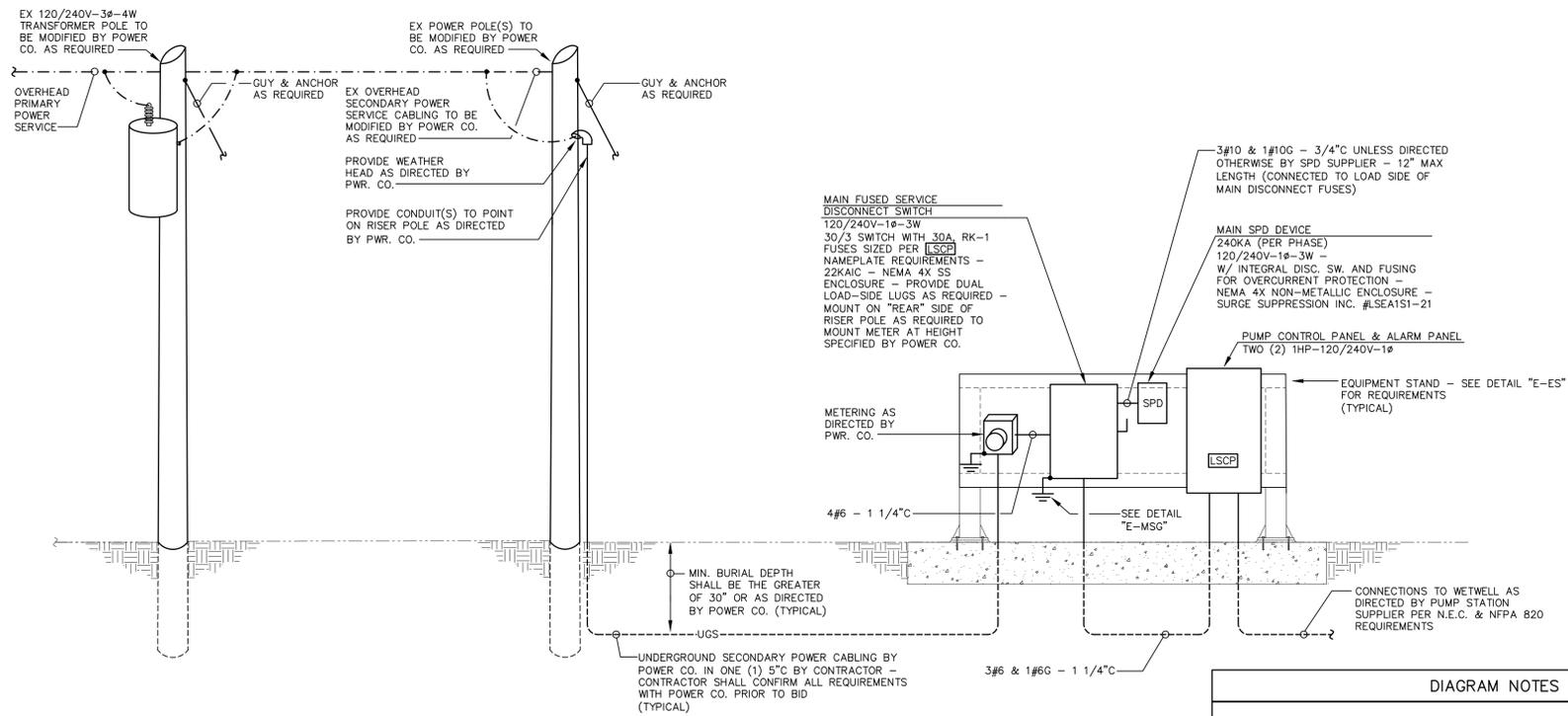
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**PUMP STATION NO. 1
SINGLE LINE DIAGRAM**
SCALE : NONE

- DIAGRAM NOTES**
- NEUTRAL-GROUND BONDS SHALL ONLY BE MADE AT THE FOLLOWING LOCATIONS:
 - MAIN FUSED DISCONNECT SWITCH.
 - SECONDARY SIDE OF ALL TRANSFORMERS.
 - SEE ELECTRICAL PLAN FOR PLATFORM SUPPLEMENTAL GROUNDING REQUIREMENTS.



**PUMP STATION NO. 2
SINGLE LINE DIAGRAM**
SCALE : NONE

- DIAGRAM NOTES**
- NEUTRAL-GROUND BONDS SHALL ONLY BE MADE AT THE FOLLOWING LOCATIONS:
 - MAIN FUSED DISCONNECT SWITCH.
 - SECONDARY SIDE OF ALL TRANSFORMERS.

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SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 7/16/2019
SUBMITTED FOR APPROVAL



THIS SHEET CONTAINS:
**SINGLE LINE
DIAGRAMS**

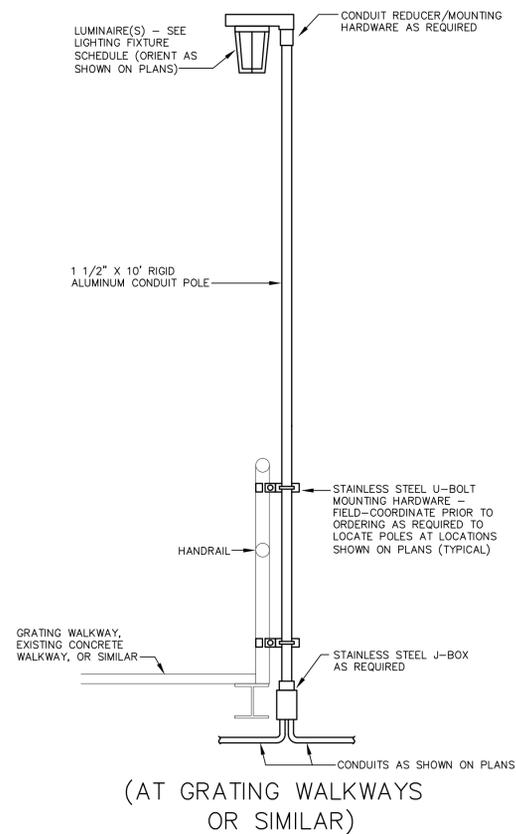
SCALE: SEE PLANS
SHEET 23 OF 37

GE-2

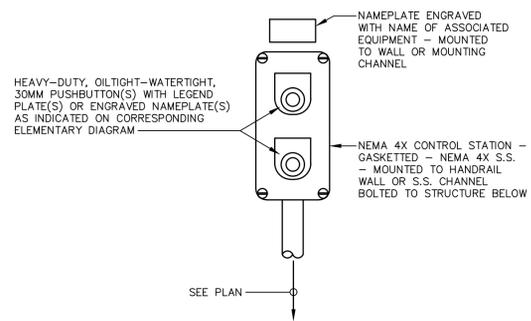
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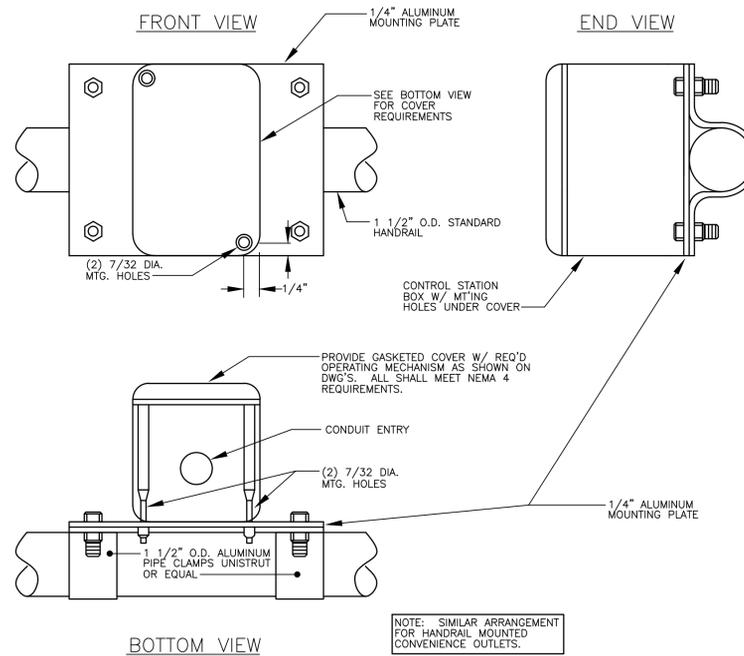
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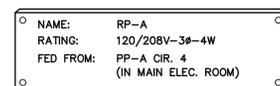
DETAIL "E-LP2"
TYPE Z
POLELIGHT MOUNTING
 SCALE : NONE



DETAIL "E-CS"
TYPICAL CONTROL STATION
 SCALE : NONE

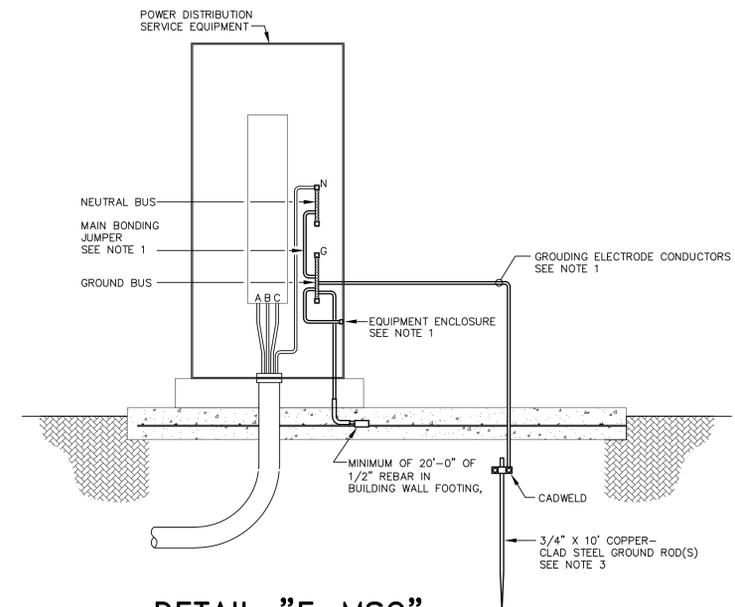


DETAIL "E-HR"
NEMA 4 HANDRAIL MOUNTING
 SCALE : NONE



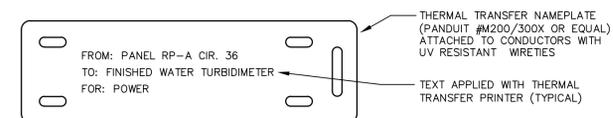
DETAIL "E-EDL" ELECTRICAL DISTRIBUTION EQUIPMENT LABEL
 SCALE : NONE

- DETAIL NOTES
- PANEL NAMES & RATINGS LISTED ABOVE ARE FOR EXAMPLE PURPOSES ONLY. NAMES & RATINGS SHALL BE ADJUSTED TO MATCH ASSOCIATED EQUIPMENT.
 - THE INTENT OF THIS DETAIL IS TO DEMONSTRATE GENERAL ELECTRICAL IDENTIFICATION REQUIREMENTS FOR ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS REGARDING LOCATIONS, CONTENT, MATERIALS, ETC..



DETAIL "E-MSG"
MAIN SERVICE GROUNDING
 SCALE : NONE

- DETAIL NOTES
- ALL GROUNDING ELECTRODE CONDUCTORS AND MAIN BONDING JUMPERS SHALL BE INSULATED COPPER, SIZED IN ACCORDANCE WITH NEC TABLE 250.66 UNLESS NOTED OTHERWISE.
 - THE INTERSYSTEM BONDING JUMPER SHALL BE INSULATED COPPER, SIZED TO MATCH THE GROUNDING ELECTRODE CONDUCTOR OR #6AWG, WHICHEVER IS GREATER.
 - ADDITIONAL GROUND RODS SHALL BE INSTALLED A MINIMUM OF SIX (6) FEET APART AND CONNECTED BY GROUNDING ELECTRODE CONDUCTORS UNTIL THE GROUND RESISTANCE DOES NOT EXCEED FIVE (5) OHMS.
 - ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT (TYPE PER SPECIFICATION REQUIREMENTS) UNLESS SPECIFICALLY NOTED OTHERWISE. METAL CONDUITS SHALL BE GROUNDED PER NEC REQUIREMENTS.
 - REFER TO "GROUNDING" SPECIFICATIONS SECTION FOR ADDITIONAL GROUNDING REQUIREMENTS.



DETAIL "E-CL"
TYPICAL CIRCUIT LABEL
 SCALE : NONE

- NOTES THIS DETAIL ONLY
- CIRCUIT LABEL TYPES SHOWN ABOVE SHALL BE USED TO IDENTIFY ALL CIRCUITS WITHIN PULLBOXES, HANDHOLES, VAULTS, JUNCTION BOXES LARGER THAN 4-11/16", APPROXIMATELY EVERY 50 FEET WITHIN CABLE TRAYS (INCLUDING AT MAJOR CABLE TRAY JUNCTIONS AND BREAKOUT LOCATIONS) AND AT OTHER SIMILAR LOCATIONS. SEE SPECIFICATIONS FOR LABELING REQUIREMENTS IN OTHER AREAS.
 - CIRCUIT NUMBERS SHALL BE IDENTIFIED FOR ALL CIRCUITS FED FROM LIGHTING OR POWER PANELBOARDS.
 - "FROM", "TO" & "FOR" TEXT SHOWN ABOVE ARE FOR EXAMPLE PURPOSES ONLY. NAMES/NUMBERS SHALL BE ADJUSTED TO MATCH ASSOCIATED CIRCUITS/CABLES.
 - SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
 SEWER PUMP STATION ADDITION**
 ROME, GEORGIA



PROJECT INFO:
 INSITE JOB No. 16120.04
 PLOTTED: 7/16/2019
 SUBMITTED FOR APPROVAL



THIS SHEET CONTAINS:
 ELECTRICAL DETAILS

SCALE: SEE PLANS
 SHEET 24 OF 37

GE-3

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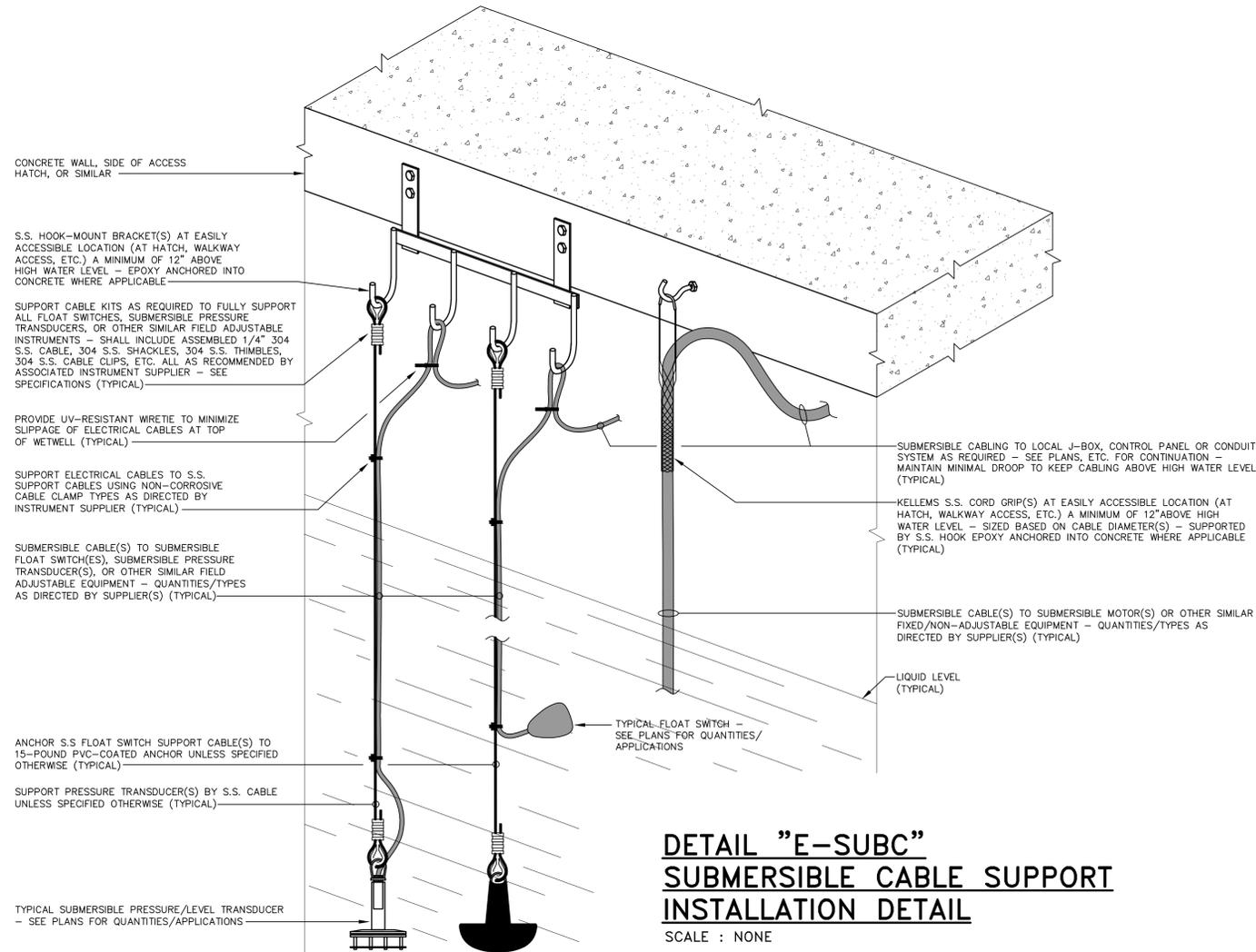
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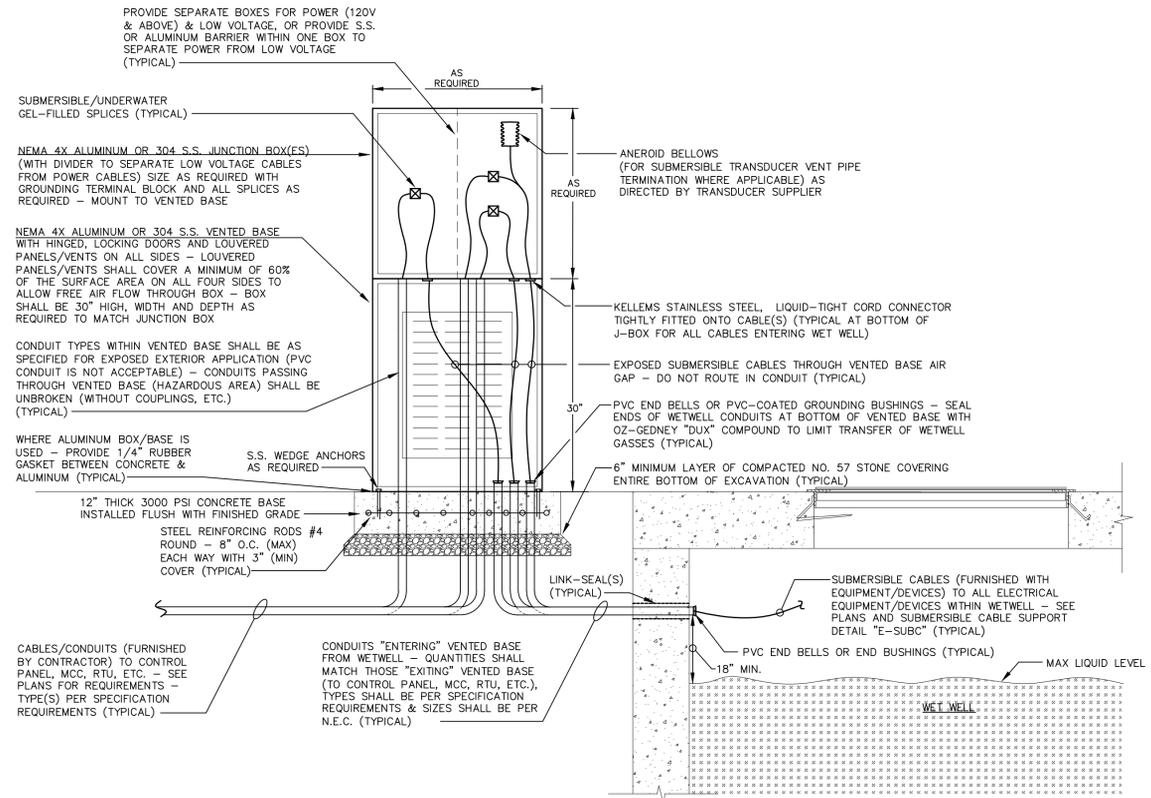
SCALE: SEE PLANS
SHEET 25 OF 37

GE-4



**DETAIL "E-SUBC"
SUBMERSIBLE CABLE SUPPORT
INSTALLATION DETAIL**

SCALE : NONE



**DETAIL "E-WWJB"
WET WELL JUNCTION BOX**

SCALE : NONE

DETAIL NOTES

- ENTIRE ELECTRICAL INSTALLATION WITHIN HAZARDOUS AREAS AS DEFINED BELOW AND BY NFPA 820 SHALL COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS FOR RACEWAY TYPES, MATERIAL/DEVICE TYPES, ETC. CONTRACTOR SHALL COORDINATE EXACT WETWELL JUNCTION BOX LOCATION(S) TO BE OUTSIDE OF THESE HAZARDOUS AREAS:
 - THE FOLLOWING AREAS SHALL BE CONSIDERED CLASS I, DIVISION I, GROUP D AREAS:
 - AREAS WITHIN WASTEWATER PUMPING STATION WET WELLS AND VALVE VAULTS.
 - AREAS WITHIN 3' OF ANY WASTEWATER WET WELL OR VALVE VAULT VENTILATION OUTLET (SUCH AS PIPE VENT).
 - THE FOLLOWING AREAS SHALL BE CONSIDERED CLASS I, DIVISION II, GROUP D AREAS:
 - AREAS UP TO 18" ABOVE TOP OF WASTEWATER WET WELL SLABS AND WITHIN 3' HORIZONTALLY OF HATCHES OR OTHER OPENINGS.
 - AREAS WITHIN 5' OF ANY WASTEWATER WET WELL VENTILATION OUTLET BUT MORE THAN 3' AWAY.
- THIS DETAIL IS TYPICAL ONLY. PROVIDE QUANTITIES/ARRANGEMENTS OF WET WELL JUNCTION BOXES AS REQUIRED BY APPLICATION.
- EXACT HEIGHTS OF ALL LEVEL SENSING TRANSDUCERS & FLOAT SWITCHES SHALL BE AS DIRECTED BY CIVIL ENGINEER.
- ALL LEVEL SENSING TRANSDUCERS SHALL BE LOCATED WITHIN WETWELL AS DIRECTED BY EQUIPMENT SUPPLIER.
- CONTRACTOR SHALL PROVIDE ALL FIELD CONNECTIONS AS DIRECTED BY THE EQUIPMENT/DEVICE SUPPLIERS.



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PROJECT INFO:

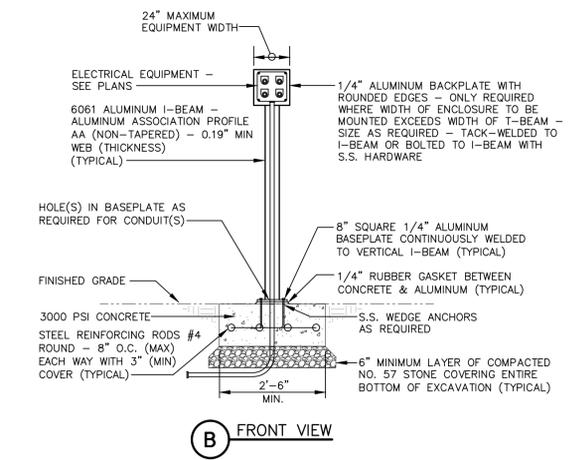
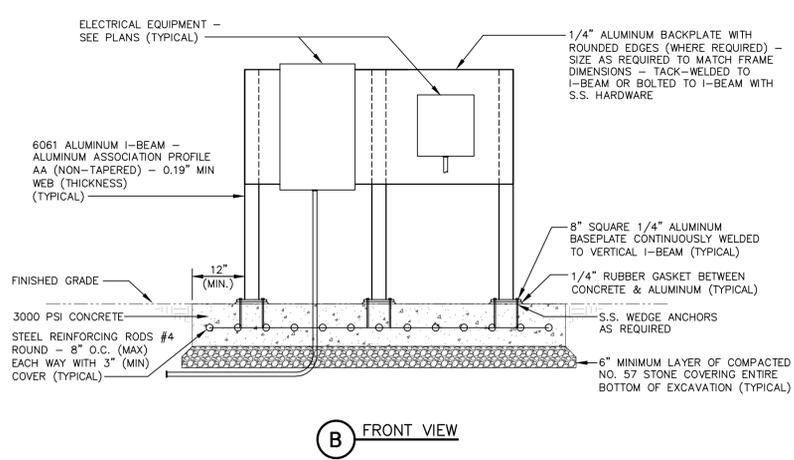
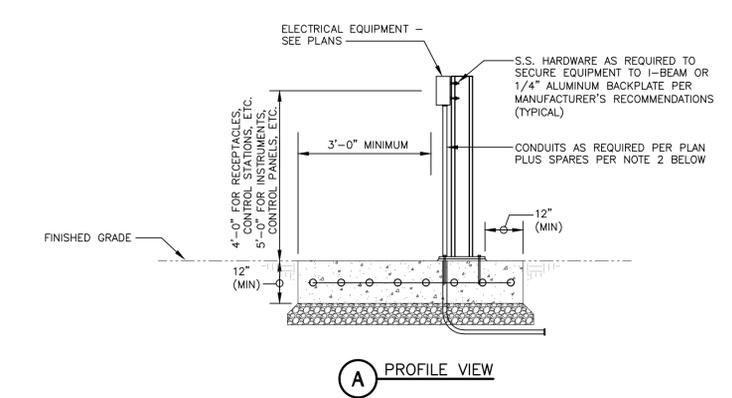
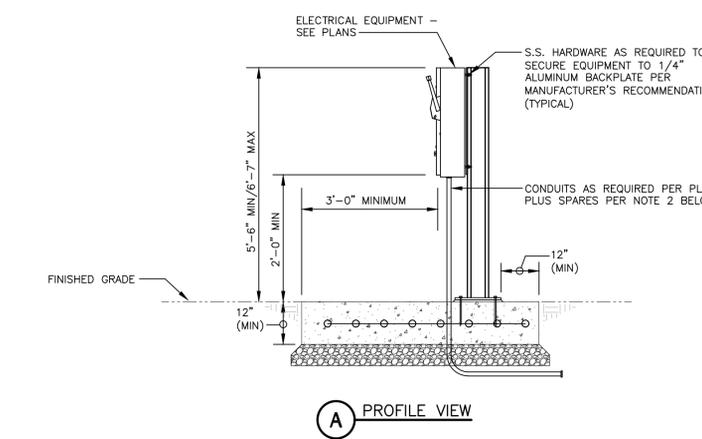
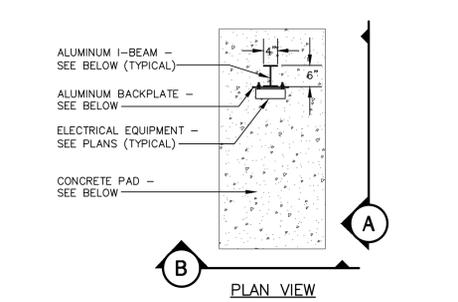
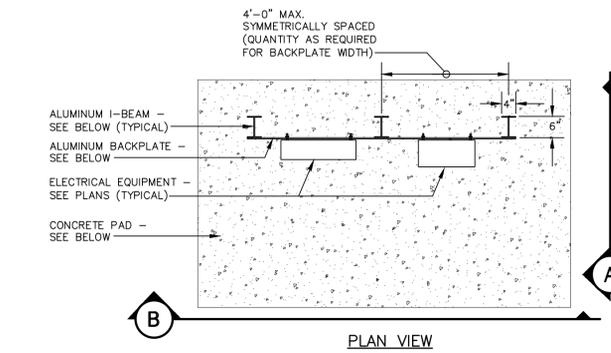
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PLOTTED: 7/16/2019
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7/16/2019
THIS SHEET CONTAINS:
ELECTRICAL DETAILS

SCALE: SEE PLANS
SHEET 26 OF 37

GE-5



**DETAIL "E-ES"
EQUIPMENT SUPPORT**
SCALE : NONE

- | DETAIL NOTES |
|--|
| 1. ALL DIMENSIONS SHOWN ARE TYPICAL. |
| 2. PROVIDE TWO (2) 1"E.C. FROM ALL DISTRIBUTION PANELS, LIGHTING PANELS, PLC'S AND CONTROL PANELS ROUTED BELOW CONCRETE PAD TO NEAREST PULLBOX OR ACCESSIBLE STUB OUT LOCATION (NOT UNDERNEATH CONCRETE/ROCK/STRUCTURE/ETC). |

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CONSTRUCTION PLANS FOR:

HORSELEG CREEK SANITARY SEWER PUMP STATION ADDITION

ROME, GEORGIA



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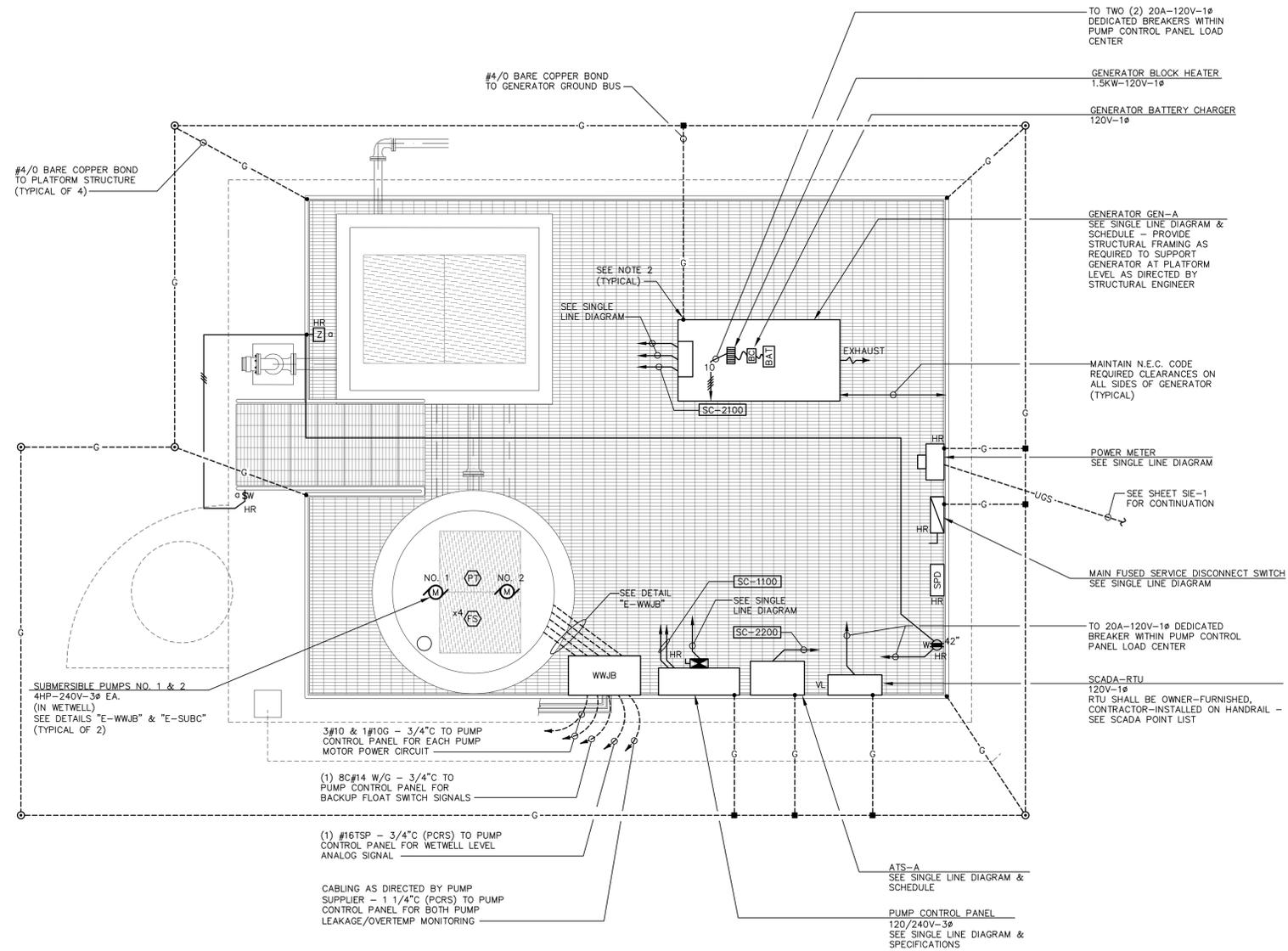
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THIS SHEET CONTAINS:

**PUMP STATION NO. 1
ELECTRICAL PLAN**

SCALE: SEE PLANS
SHEET 27 OF 37

PSE-1



PUMP STATION NO. 1 ELECTRICAL PLAN

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

SHEET NOTES

- ENTIRE ELECTRICAL INSTALLATION WITHIN HAZARDOUS AREAS AS DEFINED BELOW AND BY NFPA 820 SHALL COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS FOR RACEWAY TYPES, MATERIAL/DEVICE TYPES, ETC. CONTRACTOR SHALL COORDINATE EXACT WETWELL JUNCTION BOX LOCATION(S) TO BE OUTSIDE OF THESE HAZARDOUS AREAS:
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 - AREAS WITHIN 3' OF ANY WASTEWATER WET WELL VENTILATION OUTLET BUT MORE THAN 3' AWAY.
- ALL BARE COPPER SUPPLEMENTAL GROUND BONDS/WIRES EXPOSED ABOVE GRADE (FOR EQUIPMENT AT PLATFORM LEVEL) SHALL BE ROUTED WITHIN CONDUIT TYPES PER SPECIFICATION REQUIREMENTS.



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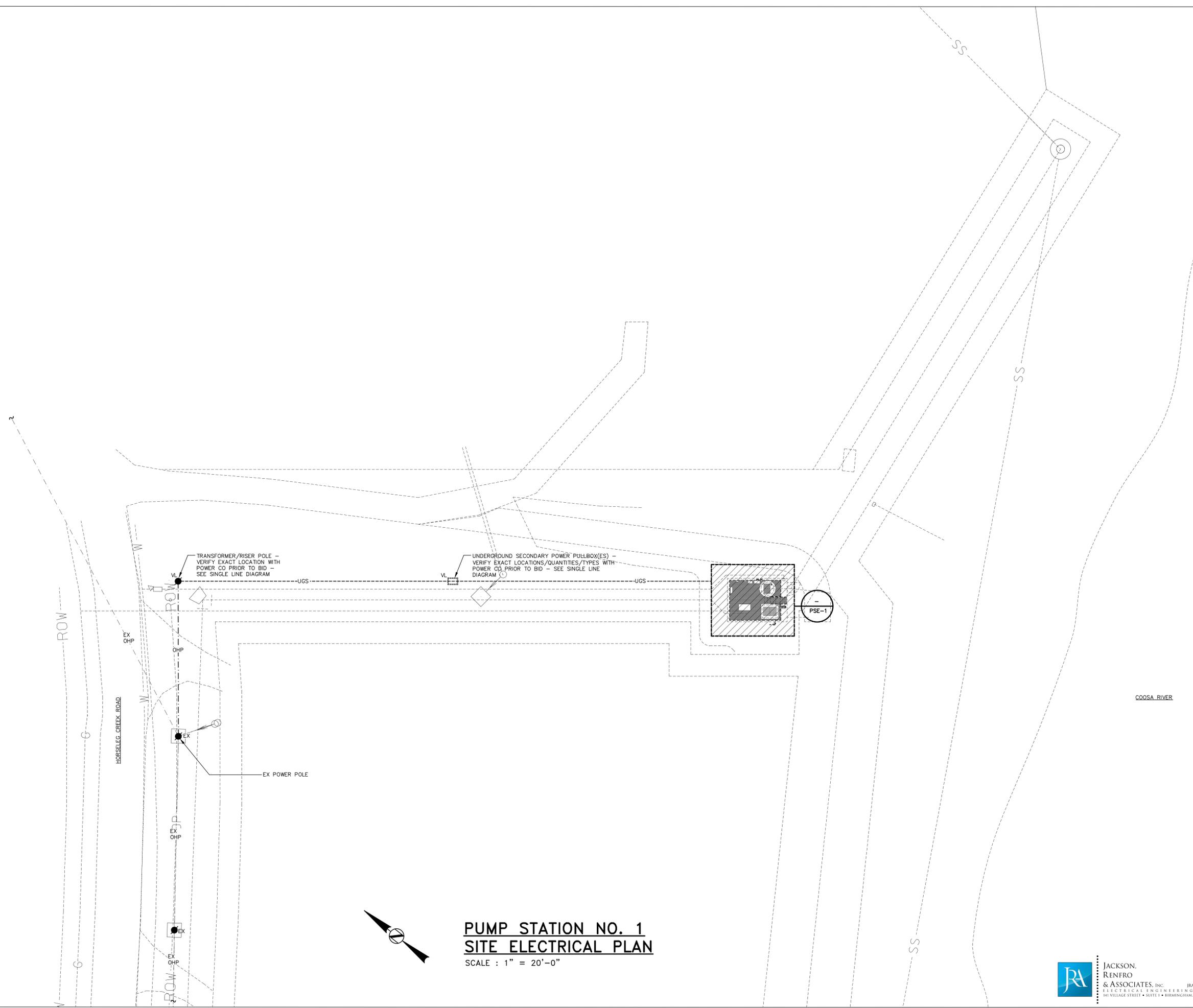
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THIS SHEET CONTAINS:

**PUMP STATION NO. 1
SITE ELECTRICAL PLAN**

SCALE: SEE PLANS
SHEET 28 OF 37

SIE-1



**PUMP STATION NO. 1
SITE ELECTRICAL PLAN**

SCALE : 1" = 20'-0"



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PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 7/16/2019
SUBMITTED FOR APPROVAL



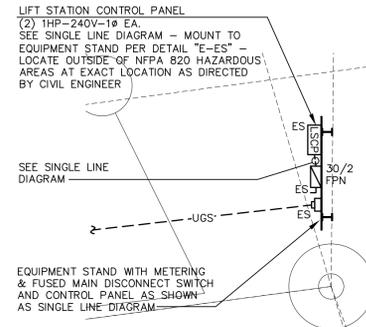
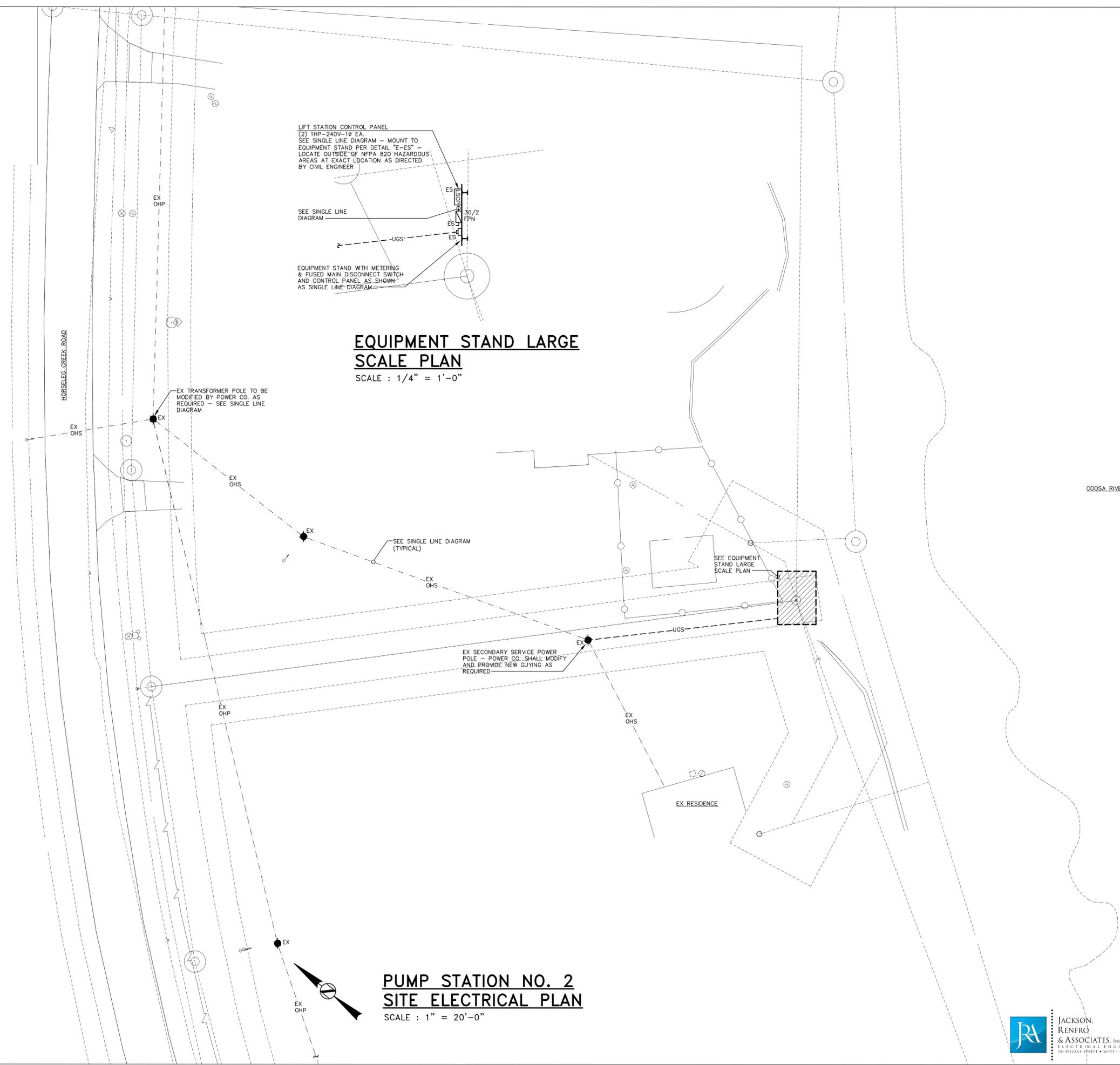
7/16/2019

THIS SHEET CONTAINS:

**PUMP STATION NO. 2
SITE ELECTRICAL PLAN**

SCALE: SEE PLANS
SHEET 29 OF 37

SIE-2



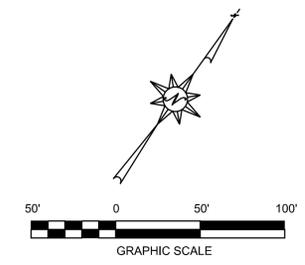
**EQUIPMENT STAND LARGE
SCALE PLAN**
SCALE : 1/4" = 1'-0"

**PUMP STATION NO. 2
SITE ELECTRICAL PLAN**
SCALE : 1" = 20'-0"

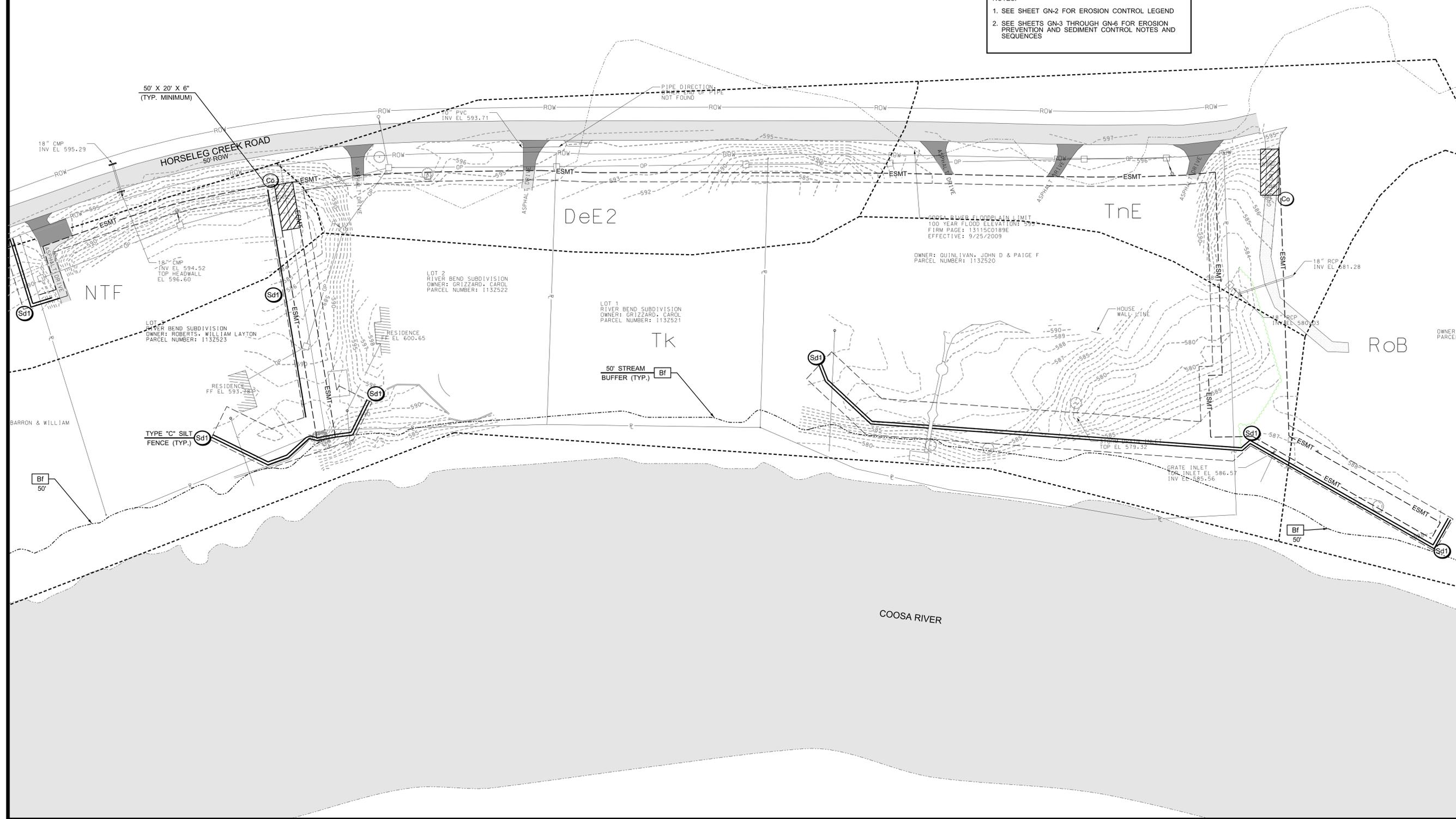
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NOTES:
1. SEE SHEET GN-2 FOR EROSION CONTROL LEGEND
2. SEE SHEETS GN-3 THROUGH GN-6 FOR EROSION PREVENTION AND SEDIMENT CONTROL NOTES AND SEQUENCES



CONSTRUCTION PLANS FOR:

HORSELEG CREEK SANITARY SEWER PUMP STATION ADDITION

ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423

9/25/19

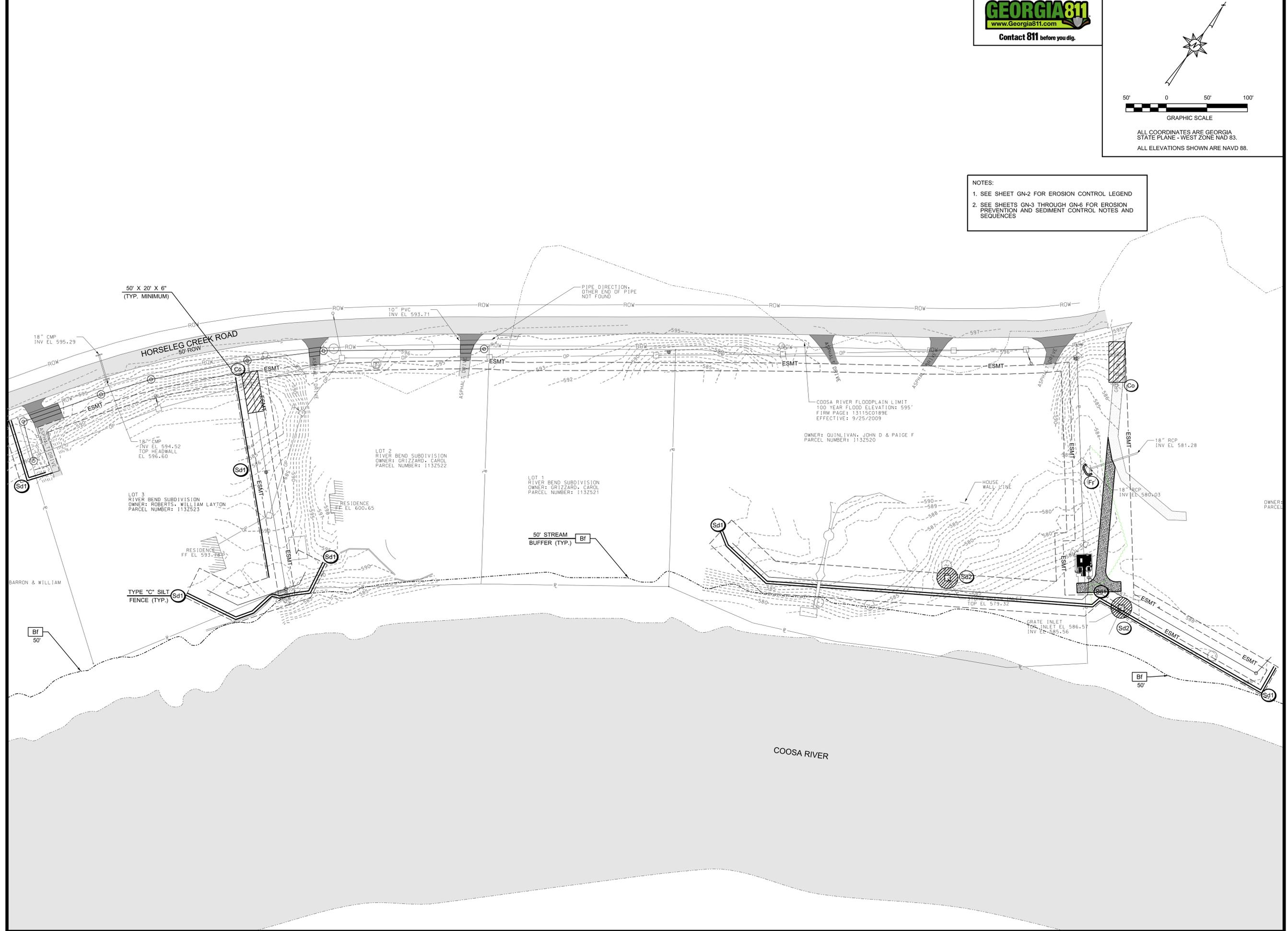
THIS SHEET CONTAINS:
EROSION CONTROL PLAN - PHASE 1

SCALE: AS NOTED
SHEET 30 OF 37

EC-1

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2. SEE SHEETS GN-3 THROUGH GN-6 FOR EROSION PREVENTION AND SEDIMENT CONTROL NOTES AND SEQUENCES



CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423

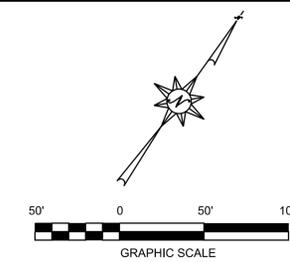
9/25/19

THIS SHEET CONTAINS:
EROSION CONTROL
PLAN - PHASE 2

SCALE: AS NOTED
SHEET 31 OF 37

EC-2

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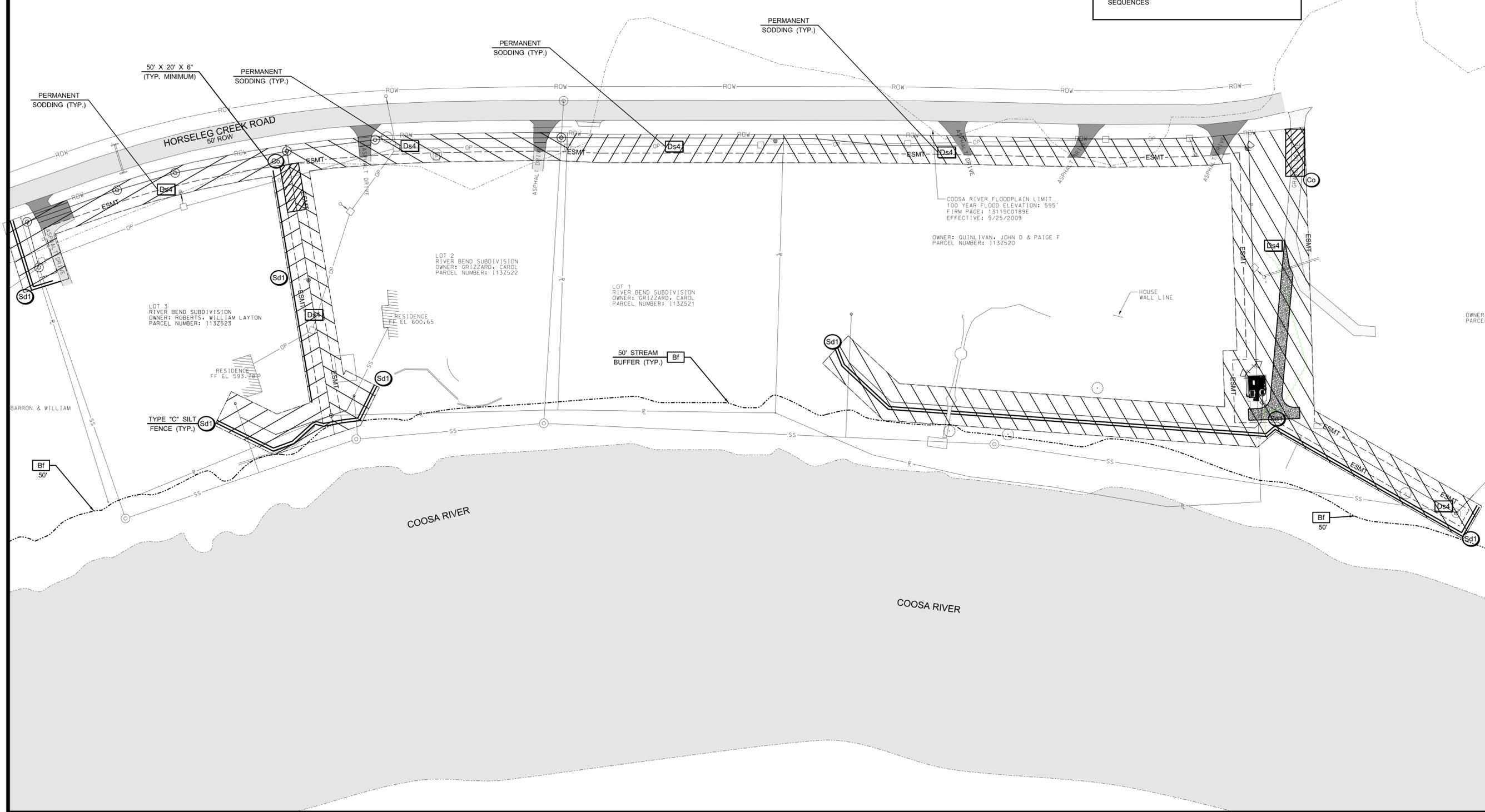
ALL COORDINATES ARE GEORGIA STATE PLANE - WEST ZONE NAD 83.
ALL ELEVATIONS SHOWN ARE NAVD 88.



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NOTES:
1. SEE SHEET GN-2 FOR EROSION CONTROL LEGEND
2. SEE SHEETS GN-3 THROUGH GN-6 FOR EROSION PREVENTION AND SEDIMENT CONTROL NOTES AND SEQUENCES



CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:
INSITE JOB No. 16120.04
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9/25/19

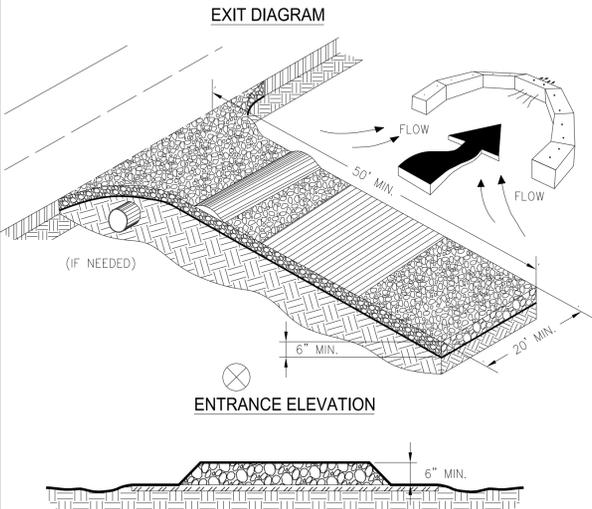
THIS SHEET CONTAINS:
EROSION CONTROL
PLAN - PHASE 3

SCALE: 1"= 50'
SHEET 32 OF 37

EC-3

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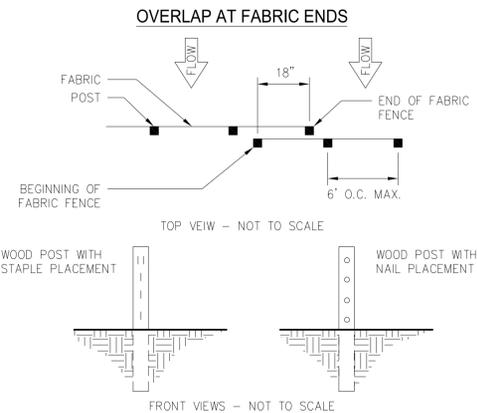
CRUSHED STONE CONSTRUCTION EXIT (Co)



- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

1

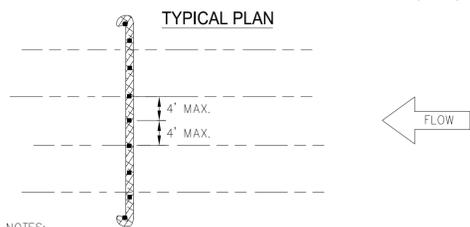
FASTENERS FOR SILT FENCES (Sd1)



- NOTES:**
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

2

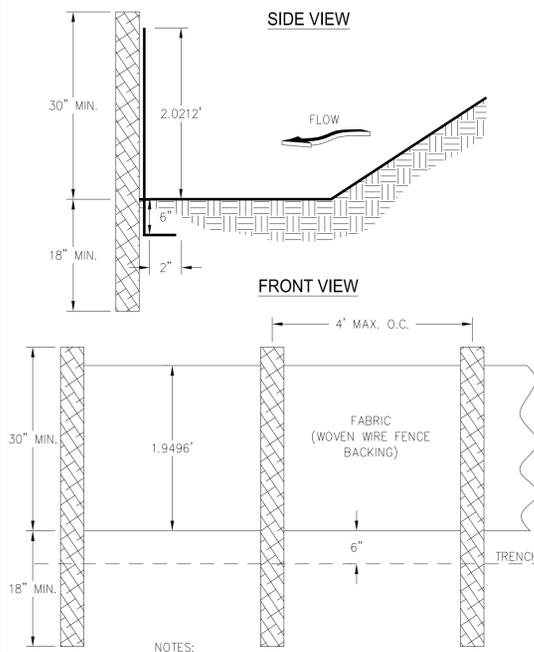
COMPOST SOCKS FOR CHECK DAMS (Cd)



- NOTES:**
1. ALL MATERIAL TO MEET SPECIFICATIONS.
 2. PLACE ONE STAKE AT CENTER OF THE DITCH/CHANNEL. ALSO PLACE STAKES AT BED/BANK JUNCTION & AT END OF THE DEVICE NOT SPACED MORE THAN 4 FEET APART.
 3. SEDIMENT SHOULD BE REMOVED FROM BEHIND THE CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.
 4. CHECK DAMS CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
 5. MINIMUM STAKING DEPTH FOR SAND, SILT, AND CLAY SHALL BE 18".

3

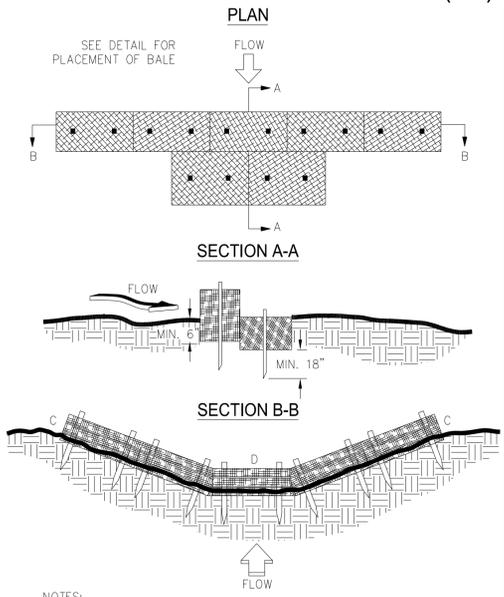
SILT FENCE - TYPE SENSITIVE (Sd1)



- NOTES:**
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) SHOWN ON EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN.

4

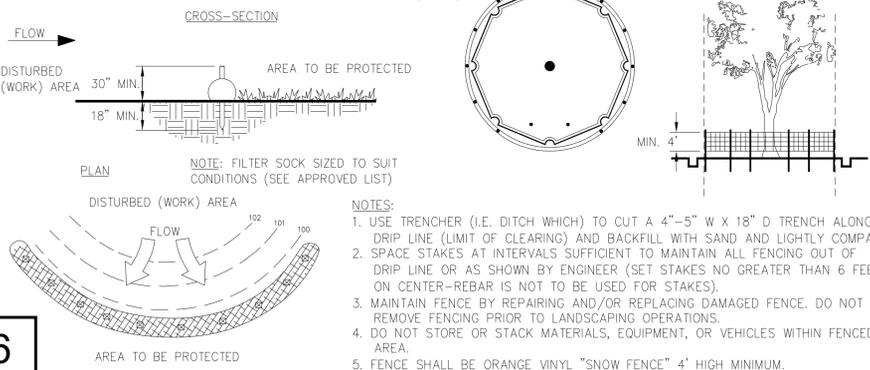
TYPICAL STRAW BALE CHECK DAM (Cd)



- NOTES:**
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING & SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES.
 2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
 3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

5

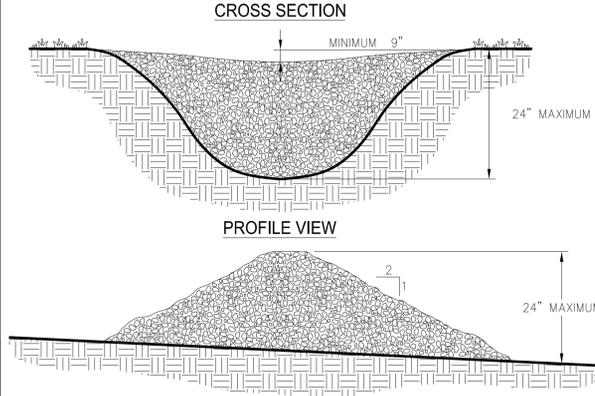
COMPOST FILTER SOCK (Cd)



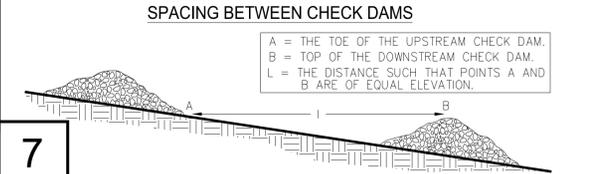
- NOTE:** FILTER SOCK SIZED TO SUIT CONDITIONS (SEE APPROVED LIST)
- NOTES:**
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
 2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
 5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

6

STONE CHECK DAM (Cd)

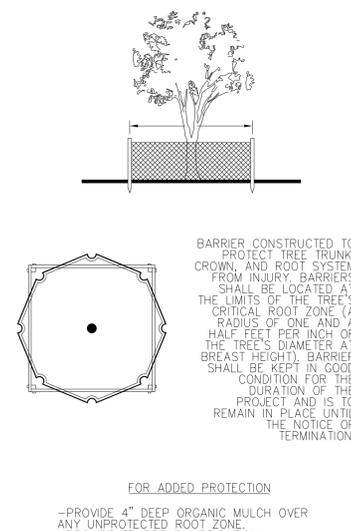


- NOTES:**
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
 2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
 3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
 4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
 5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
 6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).



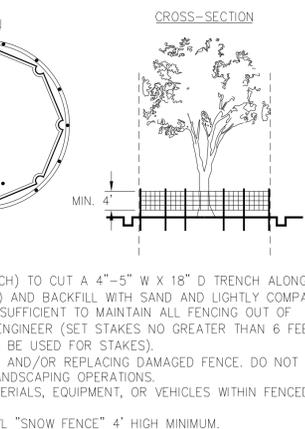
7

CHAIN LINK FENCE DETAIL



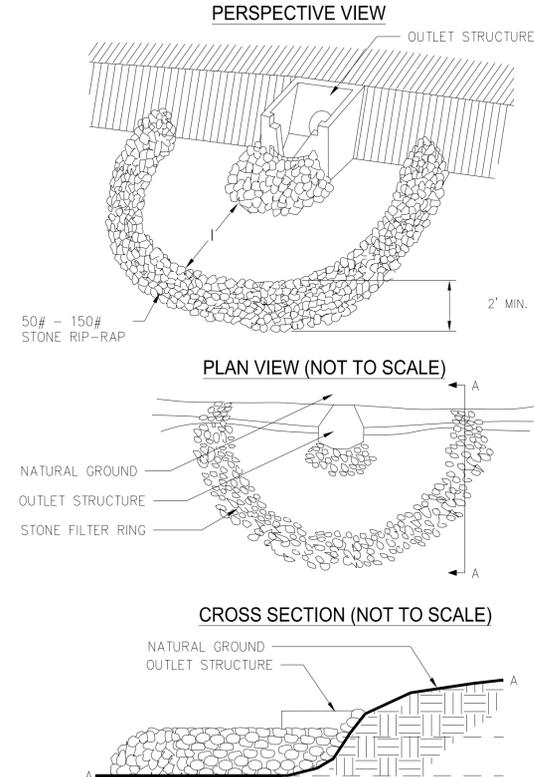
- FOR ADDED PROTECTION**
- PROVIDE 4" DEEP ORGANIC MULCH OVER ANY UNPROTECTED ROOT ZONE.
 - PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

"SNOW" FENCE



9

STONE FILTER RING (Fr)



- NOTES:**
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
 2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
 3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
 4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
 5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
 6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

8

DISTURBED AREA STABILIZATION (Ds4)

DEFINITION - A PERMANENT VEGETATION USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

CONDITIONS - THIS APPLICATION IS APPROPRIATE FOR AREAS WHICH REQUIRE IMMEDIATE VEGETATIVE COVERS, DROP INLETS, GRASS SWALES, AND WATERWAYS WITH INTERMITTENT FLOW.

CONSTRUCTION SPECIFICATIONS INSTALLATION:

SOIL PREPARATION

- BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES, AND CLODS LARGER THAN 1 INCH. APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS.
- TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE STAND. DON'T USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS.
- MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR TABLE 6-6-1. FOR FALL PLANTING OF WARM SEASON SPECIES, HALF THE FERTILIZER SHOULD BE APPLIED AT PLANTING AND THE OTHER HALF IN THE SPRING.

TABLE 6-6-1 FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

FERTILIZER TYPE (LBS./ACRE)	FERTILIZER RATE (LBS./ACRE)	FERTILIZER RATE	SEASON
10-10-10	1000	0.025	FALL

- AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.

INSTALLATION

- LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD.
- ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH WOODEN OR BIODEGRADABLE PINS OR OTHER APPROVED METHODS.
- INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SOIL.
- IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION.
- SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER.
- IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.

TABLE 6-6-3 FERTILIZER REQUIREMENTS FOR SOD

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	NITROGEN TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND MAINTENANCE	6-12-12	100	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND MAINTENANCE	6-12-12	800	50-100
		10-10-10	400	30

DISTURBED AREA STABILIZATION (WITH SODDING)

MATERIALS:

- SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE.
- SOD SHOULD BE MACHINE CUT AND CONTAIN 3/4" +- 1/4" OF SOIL, NOT INCLUDING SHOOTS OR THATCH.
- SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN +- 5% TORN OR UNEVEN PADS SHOULD BE REJECTED.
- SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
- AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
- THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO TABLE 6-6-2. SEE FIGURE 6-4-1 FOR YOUR RESOURCE AREA.

MAINTENANCE:

- RE-SOD AREAS WHERE AN ADEQUATE STAND OF SOD IS NOT OBTAINED.
- NEW SOD SHOULD BE MOWED SPARINGLY. GRASS HEIGHT SHOULD NOT BE CUT LESS THAN 2"-3" OR AS SPECIFIED. APPLY ONE TON OF AGRICULTURAL LIME AS INDICATED BY SOIL TEST OR EVERY 4-6 YEARS.
- FERTILIZE GRASSES IN ACCORDANCE WITH SOIL TESTS OR TABLE 6-6-3.

TABLE 6-6-2 SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDAGRASS	COMMON TIFWAY TIFGREEN TIFLAWN	M-I,P,C P,C P,C	WARM WEATHER
BAHGRASS	PENSACOLA	P,C	WARM WEATHER
CENTIPEDE	-	C	WARM WEATHER
ST. AUGUSTINE	COMMON BITTERBLUE RALEIGH	P,C	WARM WEATHER
ZOYSIA	EMERALD MYER	P,C	WARM WEATHER
TALL FESCUE	KENTUCKY	M-I,P	COOL WEATHER

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CONSTRUCTION PLANS FOR:

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ROME, GEORGIA

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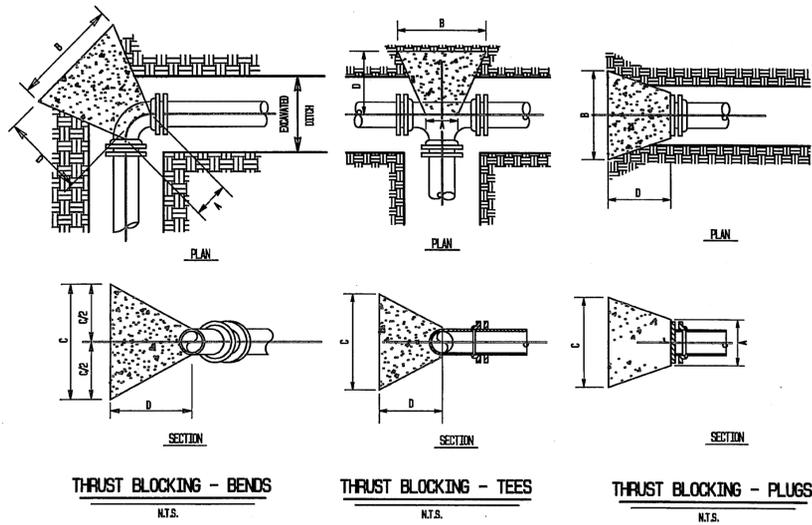
9/25/19

THIS SHEET CONTAINS:
STATE OF GEORGIA
EROSION & SEDIMENT
CONTROL STANDARD
DETAILS
(FOR REFERENCE ONLY)

SCALE: NONE
SHEET 33 OF 37

DT-1

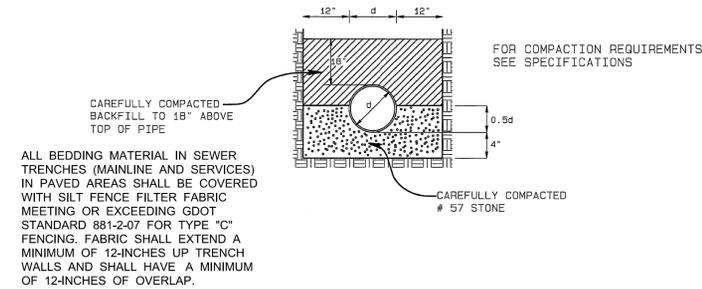
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PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND				11 1/4° BEND				TEE OR PLUG			
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
30"	2'-9"	10'-6"	10'-6"	7'-0"	1'-6"	7'-9"	7'-9"	4'-9"	1'-10"	5'-9"	5'-9"	3'-0"	1'-11"	4'-0"	4'-0"	2'-6"	2'-9"	8'-9"	9'-0"	5'-9"
24"	2'-7"	8'-6"	8'-6"	5'-9"	1'-3"	6'-3"	6'-3"	3'-9"	1'-8"	4'-6"	4'-6"	2'-3"	1'-9"	3'-3"	3'-3"	2'-6"	7'-0"	7'-3"	4'-9"	
20"	2'-1"	7'-0"	7'-0"	4'-9"	1'-0"	5'-3"	5'-3"	3'-3"	1'-5"	4'-0"	4'-0"	2'-0"	1'-6"	2'-9"	2'-9"	2'-4"	6'-0"	6'-0"	3'-9"	
18"	1'-11"	6'-0"	6'-0"	4'-0"	1'-0"	4'-9"	4'-9"	3'-0"	1'-3"	3'-6"	3'-6"	2'-0"	1'-4"	2'-6"	2'-6"	1'-9"	1'-2"	5'-3"	5'-6"	3'-6"
16"	1'-9"	5'-9"	5'-9"	4'-0"	0'-11"	4'-3"	4'-3"	2'-9"	1'-2"	3'-0"	3'-0"	1'-6"	1'-3"	2'-3"	2'-3"	1'-6"	4'-9"	4'-9"	3'-3"	
14"	1'-7"	5'-0"	5'-0"	3'-6"	0'-10"	3'-9"	3'-9"	2'-6"	1'-1"	2'-9"	2'-9"	1'-6"	1'-2"	2'-0"	2'-0"	1'-3"	4'-0"	4'-3"	2'-9"	
12"	1'-4"	4'-3"	4'-6"	3'-3"	0'-10"	3'-3"	3'-3"	2'-3"	1'-1"	2'-6"	2'-6"	1'-6"	1'-2"	1'-9"	1'-9"	1'-3"	3'-6"	3'-9"	2'-6"	
10"	1'-3"	3'-9"	3'-9"	2'-9"	0'-9"	2'-9"	2'-9"	1'-9"	1'-0"	2'-0"	2'-0"	1'-3"	1'-0"	1'-6"	1'-6"	1'-0"	1'-3"	3'-0"	3'-0"	2'-0"
8"	1'-0"	3'-0"	3'-0"	2'-3"	0'-7"	2'-3"	2'-3"	1'-6"	0'-10"	1'-9"	1'-9"	1'-0"	0'-10"	1'-3"	1'-3"	1'-0"	2'-3"	2'-6"	1'-9"	
6"	0'-11"	2'-3"	2'-3"	1'-9"	0'-7"	1'-9"	1'-9"	1'-3"	0'-9"	1'-6"	1'-6"	1'-0"	0'-9"	1'-0"	1'-0"	0'-9"	0'-11"	1'-9"	2'-0"	1'-6"
4"	0'-9"	1'-6"	1'-6"	1'-3"	0'-5"	1'-6"	1'-6"	1'-3"	0'-7"	1'-3"	1'-3"	1'-0"	0'-7"	0'-9"	0'-9"	0'-9"	0'-11"	1'-3"	1'-3"	1'-0"

- NOTES:
- THRUST BLOCKING TO BE CLASS "B" CONCRETE.
 - DIMENSIONS CALCULATED USING A SOIL LOAD BEARING CAPACITY OF 2000 PSF. IF SOIL BEARING CAPACITY IS FOUND TO BE LESS THAN 2000 PSF, THE CONTRACTOR SHALL INCREASE THESE DIMENSIONS.
 - THRUST BLOCKING SHALL BEAR AGAINST UNDISTURBED SOIL.
 - DESIGN PRESSURE = 200 PSI.

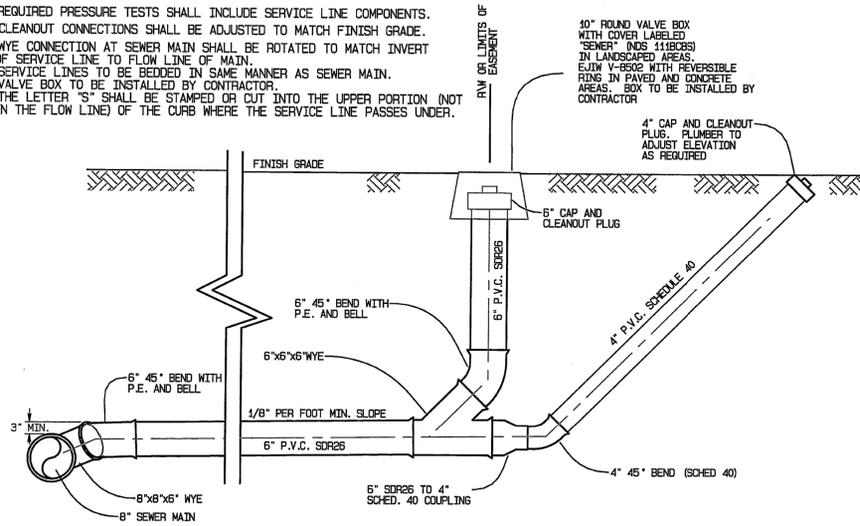
1. DETAIL - TYPICAL THRUST BLOCKING
SCALE: NONE



2. DETAIL - CLASS "B" PIPE BEDDING
SCALE: NONE

NOTES:

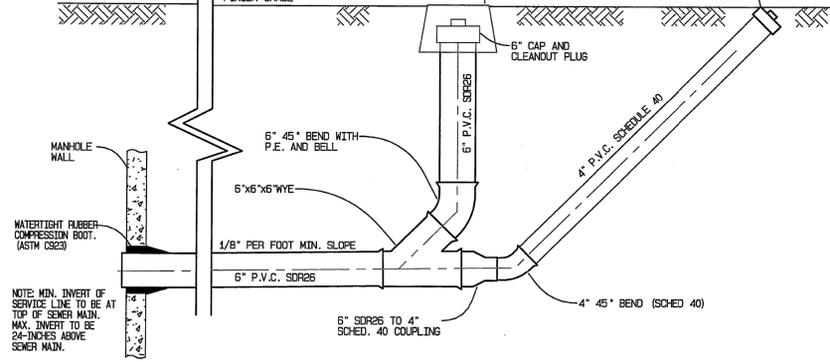
- REQUIRED PRESSURE TESTS SHALL INCLUDE SERVICE LINE COMPONENTS.
- CLEANOUT CONNECTIONS SHALL BE ADJUSTED TO MATCH FINISH GRADE.
- WYE CONNECTION AT SEWER MAIN SHALL BE ROTATED TO MATCH INVERT OF SERVICE LINE TO FLOW LINE OF MAIN.
- SERVICE LINES TO BE BEDDED IN SAME MANNER AS SEWER MAIN.
- VALVE BOX TO BE INSTALLED BY CONTRACTOR.
- THE LETTER "S" SHALL BE STAMPED OR CUT INTO THE UPPER PORTION (NOT IN THE FLOW LINE) OF THE CURB WHERE THE SERVICE LINE PASSES UNDER.



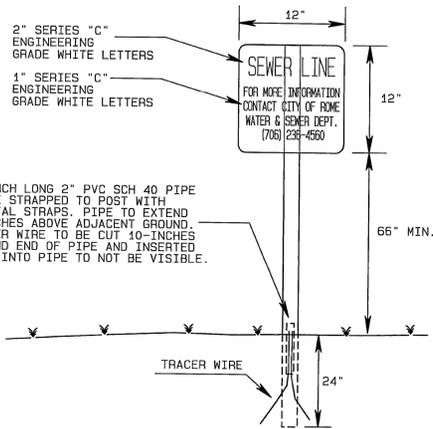
3. DETAIL - NEW SANITARY SEWER SERVICE CONNECTION
SCALE: NONE

NOTES:

- REQUIRED PRESSURE TESTS SHALL INCLUDE SERVICE LINE COMPONENTS.
- CLEANOUT CONNECTIONS SHALL BE ADJUSTED TO MATCH FINISH GRADE.
- WYE CONNECTION AT SEWER MAIN SHALL BE ROTATED TO MATCH INVERT OF SERVICE LINE TO FLOW LINE OF MAIN.
- SERVICE LINES TO BE BEDDED IN SAME MANNER AS SEWER MAIN.
- VALVE BOX TO BE INSTALLED BY CONTRACTOR.
- THE LETTER "S" TO BE STAMPED OR CUT INTO THE UPPER PORTION (NOT IN THE FLOW LINE) OF CURB WHERE THE SERVICE LINE PASSES UNDER.



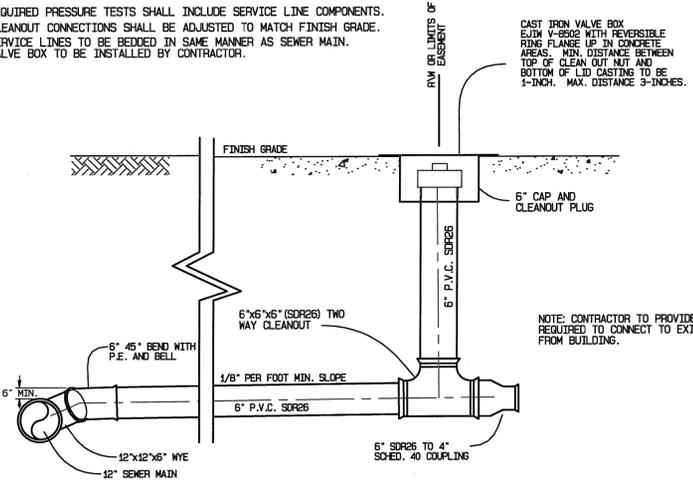
4. DETAIL - NEW SANITARY SEWER SERVICE TO MANHOLE CONNECTION
SCALE: NONE



5. DETAIL - SEWER FORCE MAIN WITNESS POST
SCALE: NONE

NOTES:

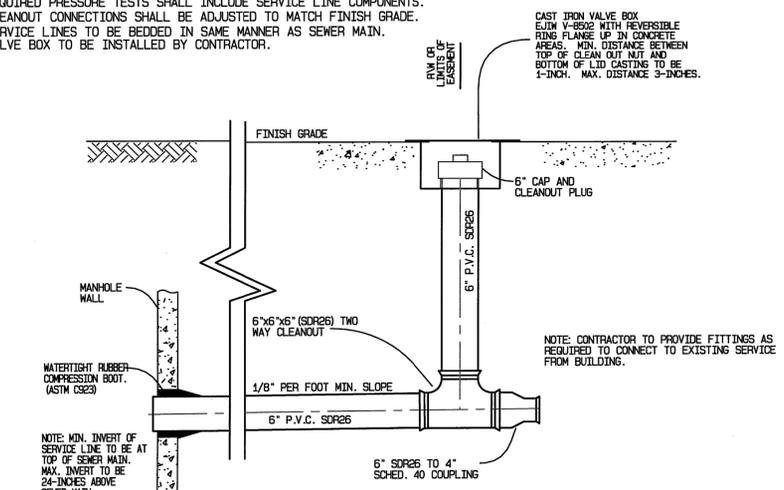
- REQUIRED PRESSURE TESTS SHALL INCLUDE SERVICE LINE COMPONENTS.
- CLEANOUT CONNECTIONS SHALL BE ADJUSTED TO MATCH FINISH GRADE.
- SERVICE LINES TO BE BEDDED IN SAME MANNER AS SEWER MAIN.
- VALVE BOX TO BE INSTALLED BY CONTRACTOR.



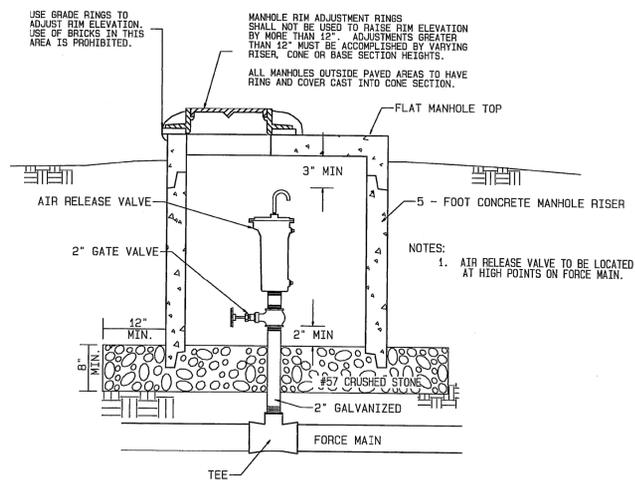
6. DETAIL - SANITARY SEWER SERVICE CONNECTION WITH TWO-WAY CLEANOUT TO SEWER MAIN
SCALE: NONE

NOTES:

- REQUIRED PRESSURE TESTS SHALL INCLUDE SERVICE LINE COMPONENTS.
- CLEANOUT CONNECTIONS SHALL BE ADJUSTED TO MATCH FINISH GRADE.
- SERVICE LINES TO BE BEDDED IN SAME MANNER AS SEWER MAIN.
- VALVE BOX TO BE INSTALLED BY CONTRACTOR.



7. DETAIL - SANITARY SEWER SERVICE CONNECTION WITH TWO-WAY CLEANOUT TO MANHOLE
SCALE: NONE



8. DETAIL - AIR RELEASE VALVE
SCALE: NONE



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CONSTRUCTION PLANS FOR:
**HORSELEG CREEK SANITARY
SEWER PUMP STATION ADDITION**
ROME, GEORGIA



PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

LEVEL II CERT. #: 0000084423

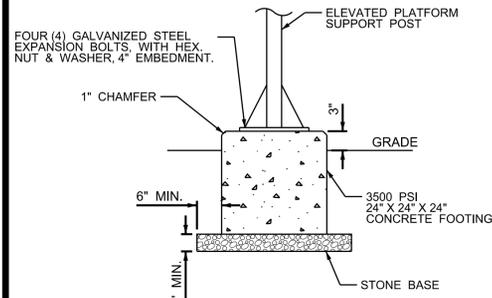


9/25/19

THIS SHEET CONTAINS:
MISCELLANEOUS
DETAILS

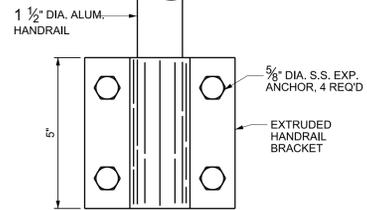
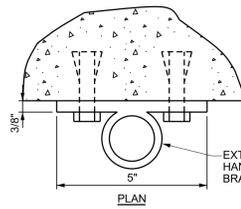
SCALE: AS NOTED
SHEET 34 OF 37

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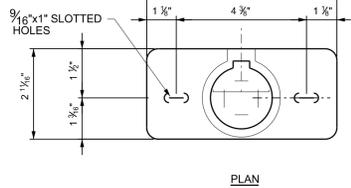


POST FOOTING DETAIL
SCALE: NONE

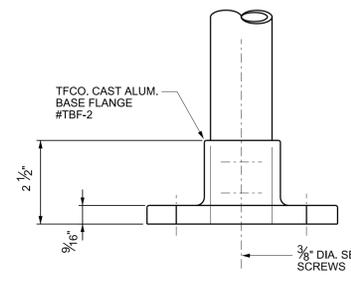
1



SECTION SIDE MOUNTED



PLAN



SECTION TOP MOUNTED

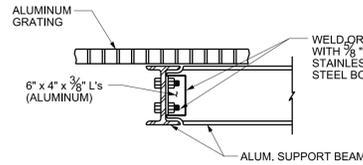
NOTE: LOCATE SET SCREWS IN BASE FLANGE AT 90° FROM CENTERLINE OF H.R. RUN AND ON SIDE AWAY FROM WALKING SURFACE.

DETAIL - HANDRAIL MOUNTING
SCALE: NONE

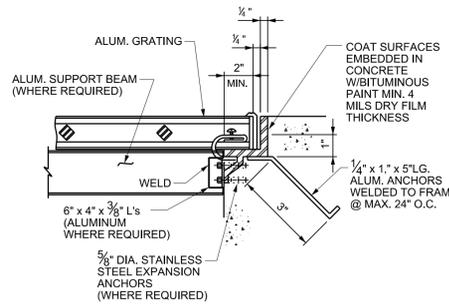
2

- NOTES:
1. GRATING TO BE FURNISHED IN PIECES SIZED FOR EASY HANDLING. ALL CUT OPENINGS TO BE Banded.
 2. ALL GRATING & FRAMES TO BE AL. ALLOY 6063-T6.
 3. ALL GRATING ABOVE LADDERS OR STEPS SHALL BE FURNISHED WITH A REMOVABLE SECTION FOR ACCESS.

GRATING SCHEDULE		
CLEAR SPAN	DEPTH OF GRATING	MIN. WEIGHT OF GRATING L.B./S.F.
0'-0" TO 5'-0"	1 1/2"	2.69
5'-0" TO 6'-0"	2"	3.42



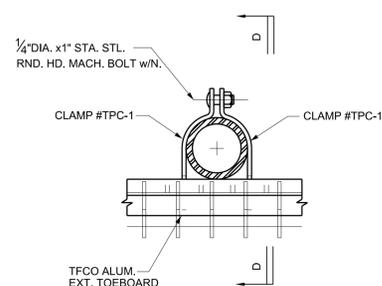
SUPPORT BEAM TYPICAL INTERSECTION



EMBEDDED INSTALLATION

DETAIL - ALUMINUM GRATING
SCALE: NONE

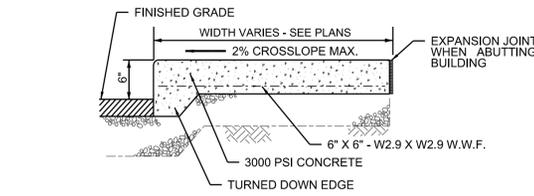
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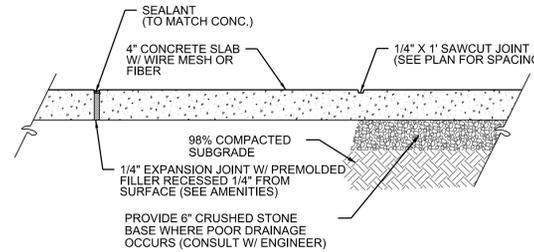
SECTION D-D

DETAIL - TOEBOARD
SCALE: NONE

4

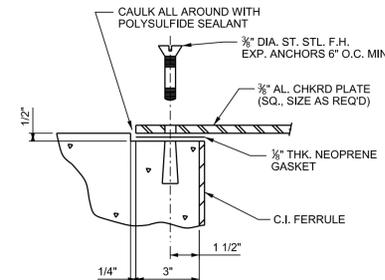


NOTE: SAWCUT JOINTS TO BE EVENLY SPACED BETWEEN EXPANSION JOINTS. JOINTS TO BE A MAXIMUM OF 5' O.C. UNLESS OTHERWISE NOTED.



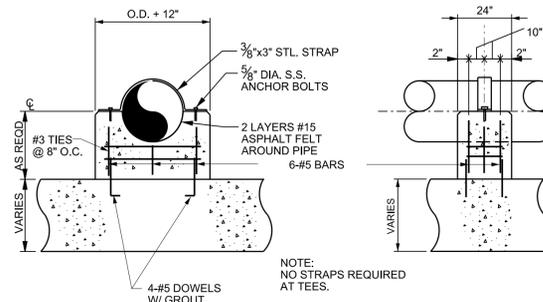
DETAIL - TYPICAL SIDEWALK
SCALE: NONE

5



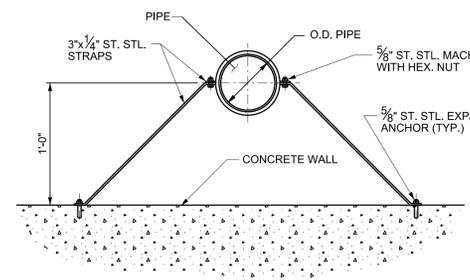
DETAIL - ALUMINUM CHECKER PLATE
SCALE: NONE

6



DETAIL - CONCRETE PIPE SUPPORT
SCALE: NONE

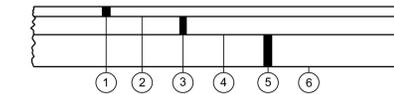
7



DETAIL - WALL MOUNTED PIPE SUPPORT
SCALE: NONE

8

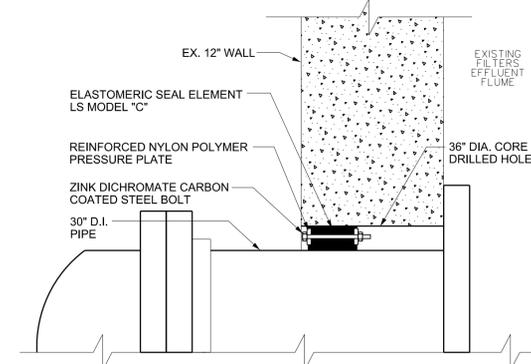
NOTE: CONTRACTOR SHALL VERIFY THE PAVEMENT BUILDUP AND STRENGTH WITH THE GEOTECHNICAL ENGINEERING REPORT. THE CIVIL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.



1. REQUIRED 1 1/2" IMPROVED BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A, B, AND C
2. REQUIRED TACK COAT
3. REQUIRED 2" IMPROVED BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A, B, AND C
4. REQUIRED BITUMINOUS TREATMENT (PRIME)
5. REQUIRED 6" CRUSHED AGGREGATE BASE COURSE, TYPE B.
6. SUBGRADE: TOP 24 INCHES - 100% COMPACTION ASTM

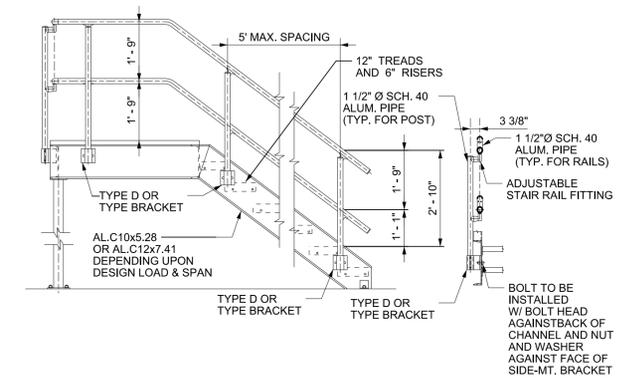
DETAIL - STANDARD DUTY ASPHALT PAVING
SCALE: NONE

9



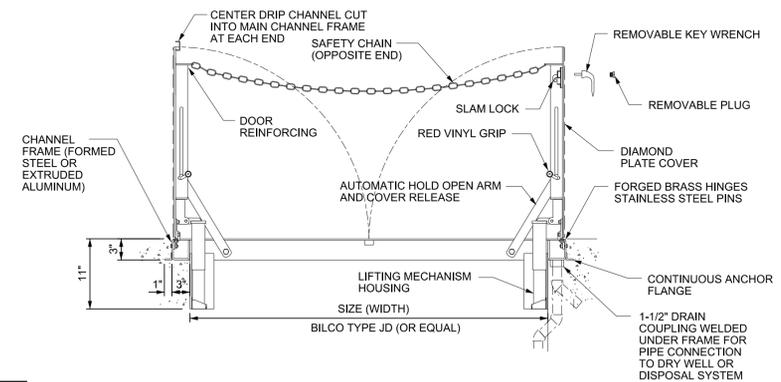
DETAIL - LINK-SEAL
SCALE: NONE

10



DETAIL - ALUMINUM STAIRS
SCALE: NONE

11



DETAIL - ALUMINUM ACCESS HATCH
SCALE: NONE

12



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CONSTRUCTION PLANS FOR:

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SEWER PUMP STATION ADDITION**

ROME, GEORGIA



PROJECT INFO:

INSITE JOB No. 16120.04
PLOTTED: 9/25/19

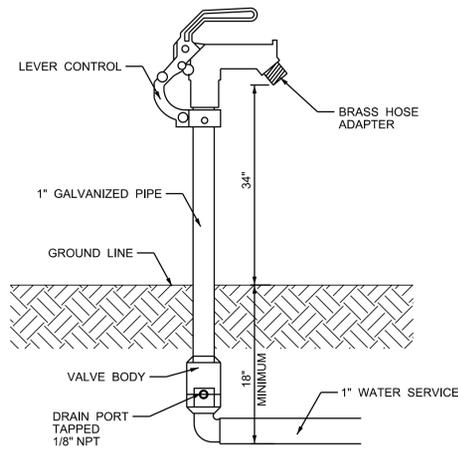
LEVEL II CERT. #: 0000084423



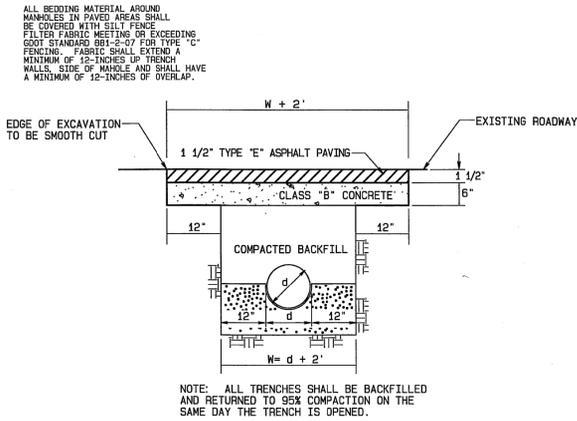
THIS SHEET CONTAINS:
MISCELLANEOUS
DETAILS

SCALE: AS NOTED
SHEET 36 OF 37

DT-4



1 DETAIL - YARD HYDRANT
SCALE: NONE



ALL BEDDING MATERIAL AROUND MANHOLES IN PAVED AREAS SHALL BE COVERED WITH SILLI FENCE. FILTER FABRIC RESTING ON EXCEEDING GOOT STANDARD 881-2-07 FOR TYPE "C" FENCING. FABRIC SHALL EXTEND A MINIMUM OF 12-INCHES UP TRENCH WALLS. SIDE OF MANGLE AND SHALL HAVE A MINIMUM OF 12-INCHES OF OVERLAP.

NOTE: ALL TRENCHES SHALL BE BACKFILLED AND RETURNED TO 95% COMPACTION ON THE SAME DAY THE TRENCH IS OPENED.

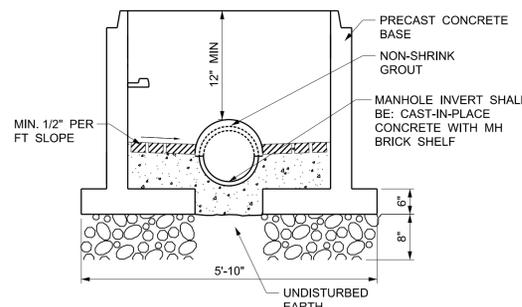
BACKFILL MATERIAL TO BE APPROVED BY A REPRESENTATIVE OF THE CITY OF ROME.

CONTRACTOR/UTILITY SHALL MAKE TWO (2) CUTS ACROSS THE STREET OR AROUND CUT-OUT. THE FIRST SAW CUT SHALL ALIGN WITH THE TRENCH/HOLE WALL. INITIAL EXCAVATION SHALL BE LIMITED TO THAT AREA. THE SECOND SAW CUT SHALL BE MADE AT THE LIMITS OF THE PATCH AREA WITH NO EXCAVATION TAKING PLACE IN THE 12-INCH AREA ON EACH SIDE OF THE TRENCH/HOLE UNTIL THE TRENCH HAS BEEN BACKFILLED UP TO AN ELEVATION 7-1/2-INCHES LOWER THAN THE ROADWAY.

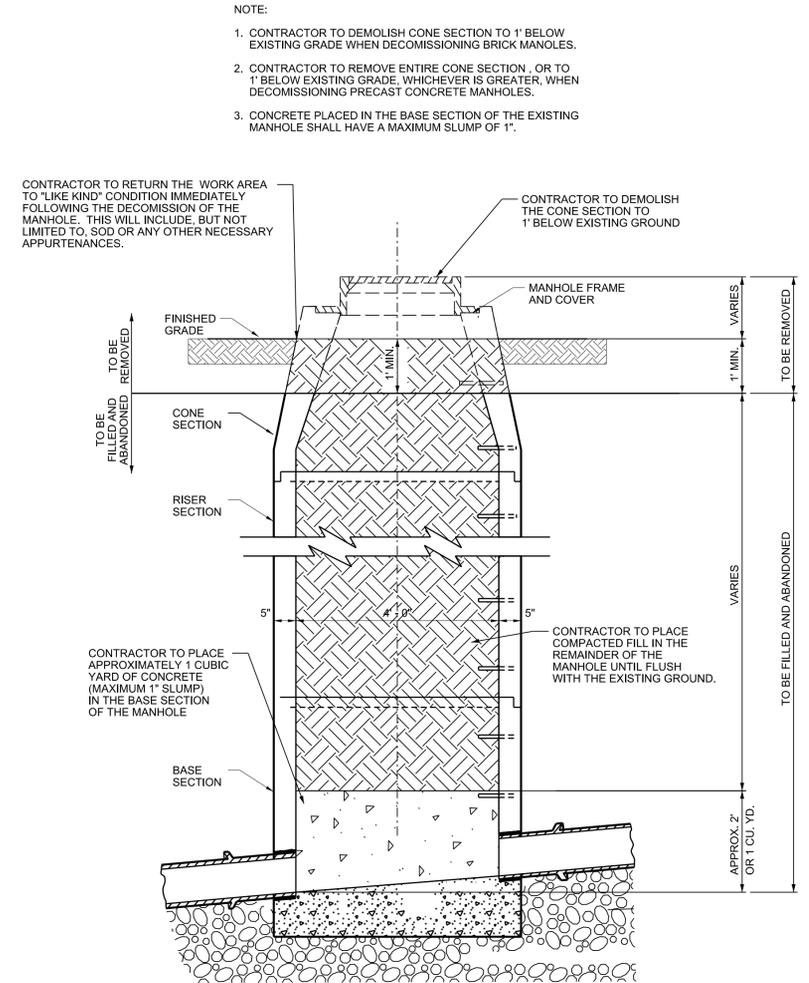
TRENCH SHALL BE INSPECTED BY A REPRESENTATIVE OF THE CITY OF ROME FOR PROPER COMPACTION PRIOR TO THE PLACEMENT OF CONCRETE.

4 DETAIL - REPAIR OF ROADWAY CUT
SCALE: NONE

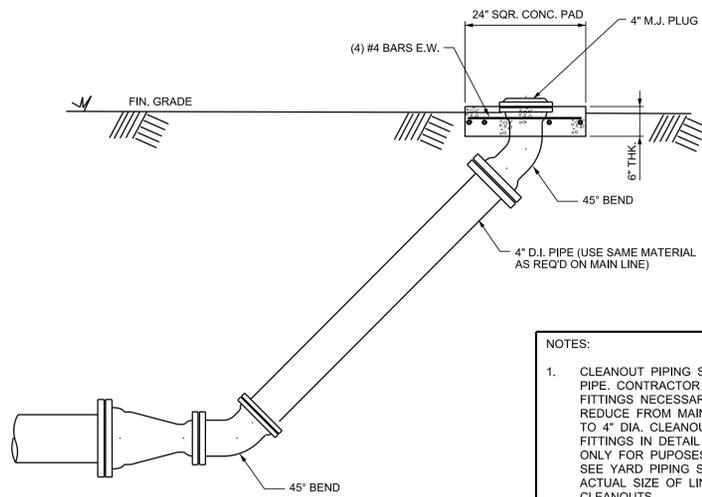
- NOTES:
- MINIMUM 4' DIAMETER MANHOLE. SEE SD523-01 FOR REMAINDER MH DETAILS. DOGHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE; OTHERWISE, THE OPENING MUST BE CAST.
 - OPENINGS IN PRECAST UNITS ARE TO BE 4" MINIMUM TO 8" MAXIMUM LARGER THAN THE OUTSIDE DIAMETER OF THE EXISTING PIPE.
 - TOP HALF OF EXISTING PIPE TO BE REMOVED FOR FULL LENGTH EXPOSED INSIDE MANHOLE. EXISTING MAIN TO BE NEATLY CUT ALONG THE SPRING LINE OF THE PIPE.
 - SEE DETAIL SD523-12 FOR ADDITIONAL INFORMATION.



5 DETAIL - DOGHOUSE MANHOLE BASE SECTION
SCALE: NONE

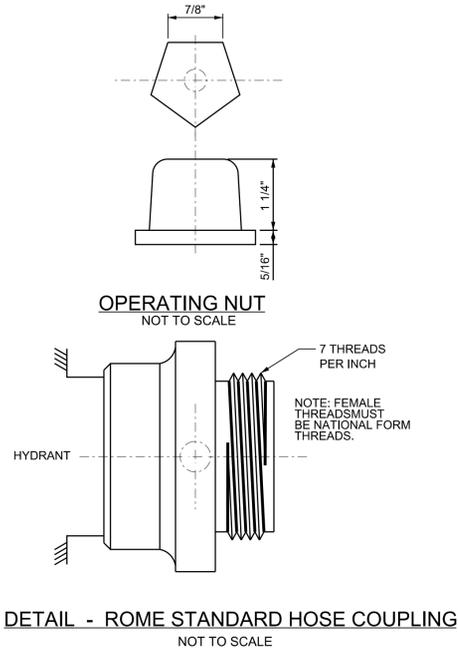


8 DETAIL - MANHOLE DECOMMISSION
SCALE: NONE

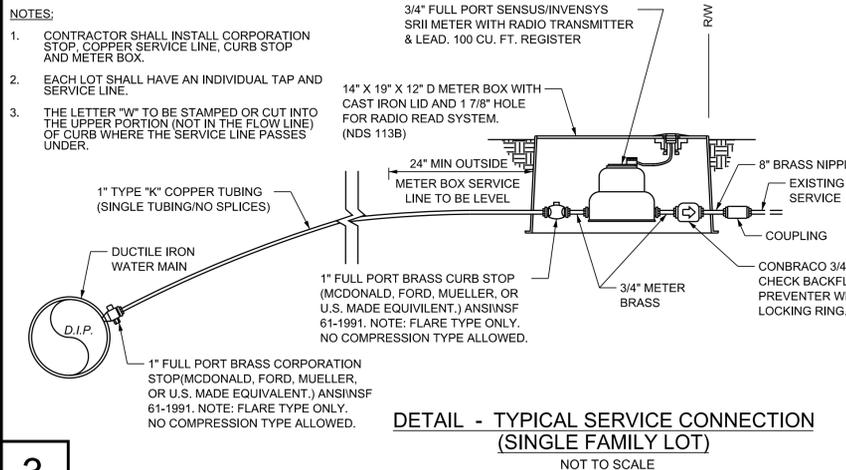


- NOTES:
- CLEANOUT PIPING SHALL BE 4" DIA. PIPE. CONTRACTOR TO PROVIDE ALL FITTINGS NECESSARY IN ORDER TO REDUCE FROM MAIN LINE PIPE DIA. TO 4" DIA. CLEANOUT PIPE. PIPE & FITTINGS IN DETAIL ARE SHOWN ONLY FOR PURPOSES OF ILLUSTRATION. SEE YARD PIPING SITE PLAN FOR ACTUAL SIZE OF LINES REQUIRING CLEANOUTS.
 - IF DEPTH OF MAIN PIPE IS SUCH THAT BY USING ONE 45° BEND (AS SHOWN HERE) WOULD RESULT IN INTERFERENCE WITH OTHER PIPING, STRUCTURES, ROADWAYS, ETC., A SECOND 45° BEND WILL BE REQ'D TO SHORTEN THE HORIZONTAL RUN OF PIPING.
 - FOR PIPING SUBJECT TO HEAD, ALL FITTINGS TO BE RESTRAINED.

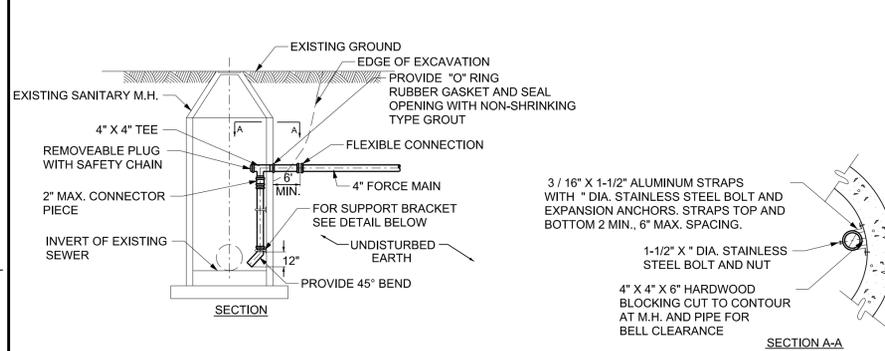
2 DETAIL - CLEANOUT
SCALE: NONE



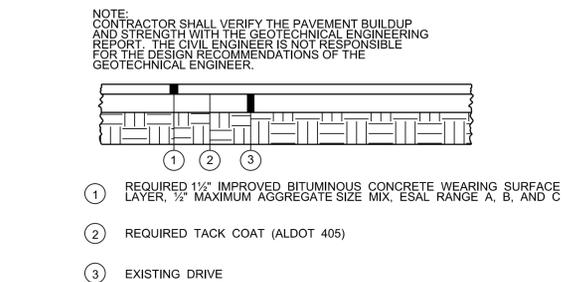
6 DETAIL - ROME STANDARD HOSE COUPLING
NOT TO SCALE



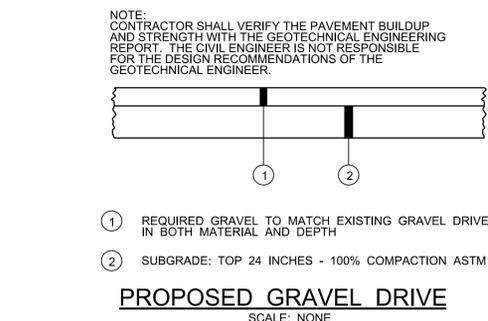
3 DETAIL - TYPICAL SERVICE CONNECTION (SINGLE FAMILY LOT)
NOT TO SCALE



7 FORCE-MAIN CONNECTION TO MANHOLE
SCALE: NONE



9 DETAIL - ASPHALT OVERLAY OF EXISTING DRIVES
SCALE: NONE



10 PROPOSED GRAVEL DRIVE
SCALE: NONE

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9/25/19

THIS SHEET CONTAINS:
MISCELLANEOUS
DETAILS

SCALE: NONE
SHEET 37 OF 37

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