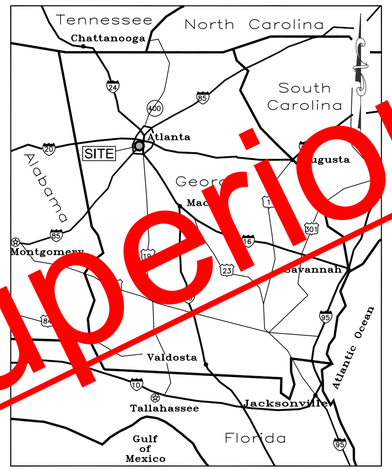
CONSTRUCTION PLANS

FOR

JEFFERSON TERRACE
STREAM CHANNEL STABILIZATION

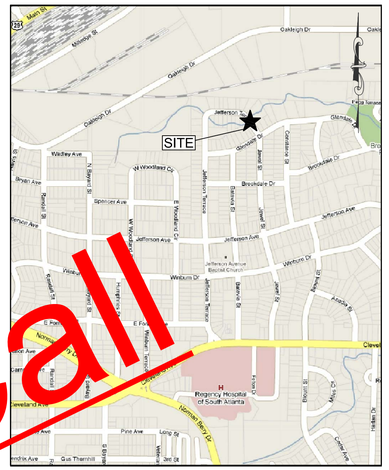
LOCATED IN
LAND LOT 124, DISTRICT 14
CITY OF EAST POINT, FULTON COUNTY, GA

OWNER/DEVELOPER	
COMPANY:	CITY OF EAST POINT, GEORGIA
ADDRESS:	1526 E. FORREST AVE, SUITE 400 EAST POINT, GA 30344
24-HR CONTACT:	MR. KAABA JOHNSON 404.825.9349
PHONE:	404.270.7114
SURVEYOR	
COMPANY:	CORPORATE ENVIRONMENTAL RISK MANAGEMENT, LLC
ADDRESS:	2296 HENDERSON MILL ROAD, SUITE 200, ATLANTA, GA 30345
PHONE:	678.999.0173
ENGINEER	
NAME:	CORPORATE ENVIRONMENTAL RISK MANAGEMENT, LLC
ADDRESS:	2296 HENDERSON MILL ROAD SUITE 200, ATLANTA, GA 30345
PHONE:	678.999.0173



VICINITY MAP
SCALE: N.T.S.

FULTON COUNTY MAP
SCALE: N.T.S.



LOCATION MAP
SCALE: N.T.S.

UTILITY PROVIDERS	
WATER/ SEWER PROVIDER:	CITY OF EAST POINT, GA 1526 E. FORREST AVE. SUITE 400 EAST POINT, GA 30344 PH: 404-270-7097
GAS PROVIDER:	ATLANTA GAS LIGHT P.O. BOX 4569 DEPT. 6250 ATLANTA, GA 30302 PH: 770-994-1946
TELEPHONE PROVIDER:	AT&T Ph: 1-800-288-2747
POWER PROVIDER:	GEORGIA POWER COMPANY 241 RALPH MCGILL BOULEVARD ATLANTA, GA 30308 PH: 404-506-6526

Sheet List Table	
1.0	COVER SHEET
2.0	GENERAL NOTES
3.0	EXISTING CONDITIONS
4.0	EROSION CONTROL PLAN - INITIAL
5.0	EROSION CONTROL PLAN - INTERMEDIATE
6.0	EROSION CONTROL PLAN - FINAL
7.0	EROSION CONTROL NOTES
8.0	EROSION CONTROL DETAILS
9.0	STREAM CHANNEL PROTECTION PLAN
10.0	STREAM CHANNEL PROTECTION PROFILES

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF STREAM CHANNEL STABILIZATION DOWNSTREAM OF A PROPOSED CULVERT REPLACEMENT PROJECT LOCATED AT JEFFERSON TERRACE. THE PROPOSED CULVERTS ARE S DOUBLE 10'x4' REINFORCED CONCRETE BOX CULVERTS WHICH WILL ALLOW MORE STREAM FLOW TO PASS THROUGH WHICH SUBSEQUENTLY COULD CAUSE MORE EROSION. THEREFORE, STREAMBANK GRADING, BANK STABILIZATION, AND ENERGY DISSIPATION MEASURES ARE INCLUDED TO PREVENT FUTURE ERODING OF THE STREAM AND STREAM BANKS.

TOTAL SITE AREA: 0.06 Ac.
DISTURBED AREA: 0.04 Ac.

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA REGISTERED PE032281 PROFESSIONAL ENGINEER ANTHONY L. WIGGINS

Revisions
No. Description Date

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

DESIGNED BY: A.L.W.
DRAWN BY: A.L.W.
DATE: 2/11/2011
PROJ NO. 11-1233-003

SHEET TITLE
COVER SHEET

DRAWING NO.
1.0

GENERAL NOTES:

1. CAUTION, UNDERGROUND SERVICE ALERT! THE CONTRACTOR SHALL TELEPHONE TOLL FREE 1-800-282-7411 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN AND NOTED ON THE APPROVED PLANS.
2. ALL NECESSARY PERMITS TO PERFORM THE WORK AS SHOWN AND NOTED HEREON SHALL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION FROM THE LOCAL ISSUING AUTHORITY.
3. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND STANDARDS OF THE GEORGIA STATE D.O.T. (DEPARTMENT OF TRANSPORTATION) AND THE LOCAL ISSUING AUTHORITY.
4. UNDERGROUND UTILITY LINE LOCATIONS (IF ANY) ARE APPROX. ONLY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ANY SUCH UTILITIES. UTILITIES SHOWN ON PLANS ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY TO VERIFY ALL UTILITY LOCATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY EXISTING UTILITIES WILL EFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
5. THERE IS A LIVE STREAM AND NO WETLANDS LOCATED WITHIN 300 FEET OF THIS SITE. (SEE STATE WATERS NOTES)
6. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY ENTITY PRIOR TO THE START OF ANY CONSTRUCTION.
7. THE OWNER SHALL DIRECT THE CONTRACTOR AS TO WHAT EXISTING VEGETATION ON SITE SHALL BE REMOVED BEYOND THE CLEARING LIMITS AS SHOWN AND NOTED HEREON. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN PROTECTING EXISTING TREES. COORDINATE ALL TREE REMOVAL WITH OWNER PRIOR TO THE START OF ANY CONSTRUCTION.
8. MISCELLANEOUS MAPPING NOTES:
   A. UTILITIES SHOWN ARE LOCATIONS OF GROUND IDENTIFIABLE ITEMS. ADDITIONAL UTILITIES MAY EXIST ABOVE OR BELOW THE GROUND. THE SURVEYOR ACCEPTS NO RESPONSIBILITY FOR THE COMPLETENESS OF THIS DATA.
   B. THIS PROPERTY IS SUBJECT TO ALL RIGHT-OF-WAYS & EASEMENTS SHOWN OR NOT SHOWN, RECORDED OR NOT RECORDED.
9. THE CONTRACTOR SHALL REMOVE AND ABANDON EXISTING UTILITIES ONLY AFTER APPROVAL FROM ALL INTERESTED PARTIES. THESE FACILITIES MAY INCLUDE, BUT NOT BE LIMITED TO EXISTING ON-SITE DRAINAGE PIPING, ON-SITE PRIVATE ELECTRICAL LINES AND APPURTENANCES, AND ABANDONED EROSION CONTROL DEVICES AND STRUCTURES. THE CONTRACTOR SHALL COORDINATE ANY AND ALL ABANDONMENT AND/OR RELOCATION WITH THE APPROPRIATE UTILITY COMPANIES OR ENTITY. ANY DISPOSAL OF SAID FACILITIES SHALL BE DONE IN ACCORDANCE WITH LOCAL UTILITY AND/OR GOVERNMENTAL REGULATIONS. RELOCATION AND/OR ABANDONMENT OF SAID FACILITIES AND/OR UTILITIES SHALL BE DONE AT THE EXPENSE OF THE OWNER/DEVELOPER. PERMITS (IF ANY) SHALL BE OBTAINED BY THE CONTRACTOR AND/OR OWNER/DEVELOPER.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT PRIOR TO ORDERING PROJECT MATERIALS, THAT THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS HAVE BEEN OBTAINED FROM THE PROJECT ENGINEER INCLUDING, BUT NOT LIMITED TO, THE PERMITTED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE. THE PROJECT ENGINEER ACCEPTS NO RESPONSIBILITY FOR IMPROPER ORDERING OF MATERIALS.
11. ALL CONSTRUCTION MUST CONFORM TO THE LOCAL AUTHORITIES STANDARDS AND SPECIFICATIONS, WHETHER OR NOT REVIEW COMMENTS WERE MADE.
12. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND STORMWATER MANAGEMENT FACILITIES ARE CONSTRUCTED.
13. SILT BARRIERS TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY PROJECT ENGINEER AND/OR THE LOCAL ISSUING AUTHORITY'S INSPECTOR.
14. NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
15. NO BURIAL PITS OR BURNING WILL BE ALLOWED ON SITE WITHOUT PRIOR APPROVALS FROM THE PROPER PERMITTING AGENCIES AND THE CITY OF EAST POINT.
16. THE OWNER/DEVELOPER AND ENGINEER HAVE REVIEWED THE APPROPRIATE LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING DEVELOPMENT ACTIVITIES ADJACENT TO FLOOD PLAINS AND WETLANDS AND HAVE DETERMINED THAT THIS DEVELOPMENT PLAN SATISFIES THE STANDARDS PRESENTED IN APPLICABLE REGULATIONS.
17. THIS PROJECT TO BE SERVED BY PUBLIC GRAVITY SEWER. ALL SEWERS MUST BE GRAVITY FED, UNLESS SPECIFICALLY APPROVED BY THE LOCAL ISSUING AUTHORITY, AND SO NOTED ON DEVELOPMENT PLANS. (SEE WATER AND SEWER NOTES)
18. REFER TO UTILITY NOTES FOR PROVIDER INFORMATION.
19. ALL EROSION AND SEDIMENTATION CONTROLS, AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING.
20. SIGNING AND STRIPING TO BE PROVIDED BY THE DEVELOPER ACCORDING TO M.U.T.C.D. SPECIFICATIONS.
21. ALL FILL AREAS MUST BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR.
22. ALL UNDISTURBED BUFFERS SHALL BE FIELD DELINEATED, STAKED AND FLAGGED OR MARKED WITH "TENZAL" OR SIMILAR TYPE FENCING AND SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL PRIOR TO GRADING.
23. EXISTING VEGETATION SHALL BE PRESERVED WITHIN ALL BUFFER AREAS.
24. BUFFER AREAS ARE NOT TO BE DISTURBED BY GRADING, PROPERTY IMPROVEMENTS OR CONSTRUCTION ACTIVITIES. ANY CONTEMPLATED DISTURBANCES SHALL FIRST BE BROUGHT TO THE ATTENTION OF THE CITY OF DUNWOODY DEPARTMENT OF PLANNING & DEVELOPMENT AND FORMAL APPROVAL SECURED BEFORE INITIATING ACTIVITY WITHIN THE REQUIRED BUFFER AREAS.
25. NEW PAVEMENT / SURFACING IS REQUIRED ACROSS ALL PROPERTY FRONTAGES TO EXISTING CENTERLINE, TO BE INSTALLED PER EAST POINT STANDARD DETAILS OR AS ADDITIONALLY DIRECTED BY EAST POINT TRAFFIC ENGINEER.
26. ALL TRAFFIC CONTROL AND WARNING DEVICES MUST BE SHOWN AND PLACED PER MUTCD.
27. TEMPORARY TRAFFIC CONTROL AND WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROAD IMPROVEMENT WORK ON CITY ROADS AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.
28. ALL SIGNS SHALL CONFORM TO THE MUTCD STANDARDS AND EAST POINT FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
29. STRIPING (WHITE AND YELLOW) AND ARROW MARKING SHALL BE APPLIED USING GDOT STANDARDS FOR THERMOPLASTIC STRIPING.
30. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED BY EAST POINT TRANSPORTATION ENGINEER.
31. ALL FINAL SIGNAGE MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.
32. CONTACT THE EAST POINT TRANSPORTATION ENGINEER (404) 270-7114 OR (404) 895-5436 ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.
33. CURB & GUTTER IMPROVEMENTS TO BE BUILT PER FULTON COUNTY STANDARDS.

GRADING NOTES: PLACEMENT AND COMPACTION

1. GROUND SURFACE PREPARATION: REMOVE VEGETATION INCLUDING GRASS, ROOTS, AND SURFICIAL ORGANICS, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. PLOW STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERT. TO 2 HORIZ. SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER COMPACTION FOR PARTICULAR AREA CLASSIFICATION, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY.
2. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 12 INCHES IN LOOSE DEPTH MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
3. BEFORE COMPACTION, MOISTEN AND AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST OR ICE.
4. COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MAT'L. TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY TO A DEPTH OF 6" BELOW BOTTOM OF FINAL GRADE.
5. MOISTURE CONTROL: WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MAT'L. APPLY WATER IN MINIMUM QUANTITY AS NECESSARY TO PREVENT FREE WATER FROM APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS.
6. REMOVE AND REPLACE OR SCARIFY AND AIR DRY SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.

   SPREAD SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION. ASSIST DRYING BY DISKING, HARROWING, OR PULVERIZING UNTIL MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE.
8. QUALITY CONTROL TESTING DURING CONSTRUCTION: ALLOW GEOTECHNICAL TESTING SERVICE TO INSPECT AND APPROVE EACH SUB-GRADE AND BACKFILL OR FILL LAYER BEFORE FURTHER BACKFILL OR CONSTRUCTION WORK IS PERFORMED. TEST SHALL BE PERFORMED EVERY 10,000 SQ. FT. OF AREA OR ONE FOOT LIFT (OR AS DIRECTED BY A REGISTERED GEOTECHNICAL ENGINEER).
9. GEOTECHNICAL SPEC'S DEPICTED HEREON ARE GUIDELINES ONLY AND SHOULD BE VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. RECOMMENDATIONS FROM A REGISTERED GEOTECHNICAL ENGINEER (IF ANY) SHALL SUPERSEDE THE ABOVE REFERENCED SPEC'S.
10. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DISCOVERY OF ANY GROUNDWATER, SUBSURFACE SEEPAGE OR SPRINGS DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH A REGISTERED GEOTECHNICAL ENGINEER TO INSPECT THE SITE, AND TO MAKE ANY RECOMMENDATIONS REGARDING EVIDENCE AND REMEDIATION (IF ANY) OF SAID SUBSURFACE WATERS.
11. ALL CUT AND FILL SLOPES (WITH THE EXCEPTION OF DETENTION AREAS) NOT POND SHALL BE LESS THAN OR EQUAL TO 2:1. POND SLOPES SHALL BE 3:1.

UTILITY NOTES:

1. WATER SERVICE IS PROVIDED BY CITY OF EAST POINT.
2. ALL WATER LINES UPON ACCEPTANCE SHALL BECOME THE PROPERTY OF EAST POINT.
3. WATER VALVE MARKERS SHALL BE PLACED AT ALL LOCATIONS WHERE WATER VALVES ARE NOT IN THE STREETS. WATER VALVES THAT ARE IN THE STREET SHALL BE CLEARLY MARKED ON THE CURB.
4. THE APPROVAL OF THESE PLANS DOES NOT IN ANY WAY IMPLY THAT SEWER TAPS FOR BUILDING PERMITS WILL BE ISSUED.
5. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE EAST POINT WATER SYSTEM MUST BE MADE OF DUCTILE IRON, AND COMPLY IN RESPECT TO ANS/AWWAA21.111/C111-85 STANDARD SPECIFICATIONS. PLANS THAT DO NOT MEET THE SPECIFICATIONS IN ALL RESPECTS WILL NOT BE ACCEPTED.
6. THE CONTRACTOR SHALL INSTALL CAST IRON WATER METER BOXES AND 1" TYPE "K" COPPER SERVICE LINES IN ALL CUL-DE-SACS.
7. LOT LINES WILL BE CLEARLY IDENTIFIED AND MARKED ON TOP OF CURBS BEFORE THE WATER MAIN IS INSTALLED.
8. CONDUIT ACROSS THE ROAD, FOR INSTALLATION OF WATER SERVICES, IS TO BE INSTALLED BY THE DEVELOPER PRIOR TO PAVING. MATERIAL FOR CONDUIT SHALL BE PVC PIPE OR APPROVED ALTERNATE AND IS TO BE INSTALLED 3 FEET BELOW FINAL GRADE.
9. A 6" P.V.C. CONDUIT WILL BE USED TO ACCESS ALL LOTS ON OPPOSITE SIDES OF THE STREET, EXCEPT IN CUL-DE-SACS.
10. INSPECTOR MUST BE NOTIFIED 24 HOURS BEFORE CONSTRUCTION BEGINS.
11. THRUST BLOCKING WILL BE USED AT ALL BENDS, PLUGS, TEES, AND FIRE HYDRANTS.
12. FIRE HYDRANTS SHOWN IN THE RADIUS OF A CURVE SHALL BE FIELD ADJUSTED SO THAT THE ACTUAL INSTALLATION OF FIRE HYDRANTS WILL BE OUTSIDE OF CURVE RADIUS.
13. ANY CHANGES TO THE WATER DRAWINGS MUST BE APPROVED BY EAST POINT.
14. ALL LINES 6" OR GREATER MUST BE PRESSURE TESTED AT 250 PSI FOR A MINIMUM OF TWO (2) HOURS.
15. NON RESIDENTIAL SUBDIVISIONS, THE WATER TAP, LATERALS, AND METER BOXES WILL BE INSTALLED BY THE DEVELOPER PER CURRENT EAST POINT SPECIFICATIONS.
16. WHEN CONNECTING TO A 10' WATER MAIN OR GREATER AND THE PROPOSED WATER LINE IS 600' LONG YOU MUST INSTALL 10" WATER LINE OR HAVE A LOOP SYSTEM

STATE WATERS BUFFER NOTE:

THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. NO LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. ONCE THE FINAL STABILIZATION OF THE SITE IS ACHIEVED, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT, AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED; PROVIDED, HOWEVER, THAT ANY PERSON CONSTRUCTING A SINGLE FAMILY RESIDENCE, WHEN SUCH RESIDENCE IS CONSTRUCTED BY OR UNDER CONTRACT WITH THE OWNER FOR HIS OR HER OWN OCCUPANCY, MAY THIN OR TRIM VEGETATION IN A BUFFER AT ANY TIME AS LONG AS PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT, AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM.

WASTE WATER NOTES:

1. ALL WASTEWATER PIPE CONSTRUCTION SHOWN ON THESE PLANS MUST CONFORM TO FULTON COUNTY'S STANDARDS AND SPECIFICATIONS, INCLUDING SANITARY SEWER REGULATIONS LATEST EDITION.
2. ALL WASTEWATER EASEMENTS MUST BE CLEARED, GRUBBED AND GRASSED TO CONTROL EROSION PRIOR TO ACCEPTANCE. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT AREA.
3. AS-BUILT DRAWINGS AND MAINTENANCE BOND(S) MUST BE SUBMITTED ARE REQUIRED PRIOR TO FINAL INSPECTION AND ACCEPTANCE INCLUDING THE CCTV INSPECTION CD AND CAD FILES.
4. NEOPRENE COUPLINGS WITH STAINLESS STEEL BANDS AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES CONCRETE REQUIRED WHERE APPLICABLE.
5. POOLS SHALL NOT DRAIN INTO WASTEWATER PIPE SYSTEMS.
6. LOW PRESSURE AIR TESTING REQUIRED FOR ALL WASTEWATER PIPE SYSTEMS. THIS TEST MUST MEET ALL REQUIREMENTS AS OUTLINED IN ASTM C\-80 OR CURRENT REVISION. AN EAST POINT INSPECTOR MUST BE PRESENT DURING TESTING.
7. ISSUANCE OF THIS PERMIT DOES NOT IN ANY WAY IMPLY THAT WASTEWATER TAPS FOR BUILDING PERMITS WILL BE ISSUED. CONTACT THE DEPARTMENT OF WATER RESOURCES AT (404) 270-7090 FOR FURTHER INFORMATION.
8. CONTRACTOR TO FIELD VERIFIES THE LOCATIONS AND INVERT ELEVATIONS OF EXISTING WASTEWATER PIPES FOR A CONNECTION TO EXISTING WASTEWATER SYSTEMS.
9. NOTIFY INSPECTOR 24-HOURS PRIOR TO CONSTRUCTION.
10. FOR ALL PROJECTS UTILIZING INDIVIDUAL ONSITE WASTEWATER SYSTEMS DESIGN AND PROVISIONS SHALL BE IN CONFORMANCE WITH FULTON COUNTY HEALTH DEPARTMENT REGULATIONS.
11. EIGHT INCH (8") OR LARGER PIPE LINES SHOULD SHALL BE TV INSPECTED. A DVD AND A WRITTEN INSPECTION LOG CERTIFIED BY A GEORGIA REGISTERED ENGINEER SHALL BE PROVIDED WHEN AS-BUILTS ARE SUBMITTED.
12. MAXIMUM DISTANCE BETWEEN MANHOLES 400 FEET.
13. USF 7625 BOX REQUIRED FOR CLEANOUTS IN PAVED AREA.
14. COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO 95% OF THE PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN 1 YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. SANITARY SEWER LATERALS SHOULD BE MARKED WITH 4"X4"POST WITH MIN. 4' ABOVE GROUND. THE TOP 1' SHOULD BE PAINTED GREEN. EACH LATERAL IS TO BE BROUGHT TO THE GROUND SURFACE IN ACCORDANCE WITH FULTON COUNTY STANDARD 909.
16. ALL REQUIRED OFF SITE EASEMENTS SHALL BE DEDICATED TO CITY OF EAST POINT PRIOR TO LDP PERMITTING. ALL PUBLIC ONSITE EASEMENTS FOR OTHER THAN SINGLE-FAMILY RESIDENTIAL PROJECTS SHALL BE DEDICATED TO CITY OF EAST AS PART OF THE AS-BUILT APPROVAL.
17. PIPE SHALL BE ASTM, SDR35 IN 12.5 FOOT LAYING LENGTHS WITH ELASTOMERIC SEALED JOINTS IN ACCORDANCE WITH ASTMD3212.
18. PIPE BEDDING SHALL BE #57, SHARP, ANGULAR, CRUSHED STONE. BEDDING SHALL EXTEND A MINIMUM OF 4" BELOW THE PIPE AND EXTEND TO THE TOP OF THE PIPE. THE BEDDING SHALL BE COMPACTED BY ``SLICING WITH A FLAW SHOVEL". THE WIDTH OF THE DITCH AT THE TOP OF THE PIPE SHALL BE A MAXIMUM OF 3 FEET.
19. INITIAL BACKFILL: AFTER BEDDING, COMPLETE INITIAL BACKFILL WITH #57 STONE. IF NO ROCK IS ENCOUNTERED, INITIAL BACKFILL SHALL EXTEND TO A HEIGHT 6" ABOVE OF THE TOP OF THE PIPE, OTHERWISE INITIAL BACKFILL SHALL EXTEND TO 12" ABOVE THE TOP OF THE PIPE.
20. FITTINGS FOR LATERAL CONNECTIONS SHALL BE 45° WYES AND BENDS. PROVIDE PVC PIPE STOPPERS FOR EACH LATERAL. PROVIDE SPECIAL WATER TIGHT CONNECTIONS AT MANHOLES AND TRANSITIONS TO DUCTILE IRON PIPE AS RECOMMENDED BY THE PIPE MANUFACTURER.
21. AFTER INSTALLATION A DEFLECTION TEST IS REQUIRED. INITIAL DEFLECTION SHALL BE LIMITED TO 3% OF THE UNDEFLECTED DIAMETER. A SECOND TEST SHALL BE MADE AT LEAST 8 MONTHS AFTER THE INSTALLATION BUT BEFORE FINAL ACCEPTANCE. AT THAT TIME DEFLECTION SHALL BE LIMITED TO 5% OF THE UNDEFLECTED DIAMETER.
22. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WASTEWATER PIPE FOR CONNECTION TO EXISTING WASTEWATER SYSTEMS.
23. COMPLETE CONSTRUCTION SCHEDULE INCLUDING STANDARD TEMPORARY AND PERMANENT STABILIZATION.
24. IF OPEN PUMPING IS USED, THEN FURTHER EROSION CONTROL MEASURES SHALL BE REQUIRED, AS PER FULTON COUNTY STANDARDS.
25. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANKS PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER FULTON COUNTY STANDARDS.
26. FOR ALL PROJECTS UTILIZING INDIVIDUAL ON SITE WASTEWATER SYSTEMS, DESIGN AND PROVISIONS SHALL BE IN CONFORMANCE WITH FULTON COUNTY HEALTH DEPARTMENT REGULATIONS.
27. EIGHT (8") INCH OR LARGER PIPE LINES SHALL BE TV INSPECTED. A CD/DVD AND A WRITTEN INSPECTION LOG CERTIFIED BY A GEORGIA REGISTERED ENGINEER, SHALL BE PROVIDED TO THE PROJECT ENGINEERING SECTION AT THE TIME OF FINAL ACCEPTANCE.

STORM SEWER NOTES:

1. ALL PIPE IS TO BE DOUBLE WALL , SMOOTH INTERIOR HDPE (HIGH DENSITY POLYETHYLENE PIPE) MEETING AASHTO M294 STANDARDS. INSTALLATION AND BEDDING REQUIREMENTS ARE TO BE PER THE MANUFACTURER'S INSTRUCTIONS.
2. ALL DROP INLETS ARE TO BE PER GA. D.O.T. STD. 1019A. RISER SECTIONS MAY BE PRECAST (GDOT STD. 1019-AP OR CIRCULAR PRECAST GDOT STD. 1030) STANDARDS.
3. ALL FLARED END SECTIONS ARE TO BE PER GA. D.O.T. STD. 1120.
4. ALL HEADWALLS ARE TO BE PER GA. D.O.T. STD. 1125. ENERGY DISSIPATORS ARE REQUIRED TO BE INSTALLED IF INDICATED ON THE PLANS AND/OR PROFILES.
5. SEE THE CUT/FILL PLAN FOR NOTES REGARDING TO COMPACTION AND MAXIMUM SLOPES FOR EARTHWORK.
6. THE STORMWATER MANAGEMENT FACILITY IN THESE PLANS HAS BEEN DESIGNED FOR FUTURE EXPANSION OF THE PROPOSED SUBSTATION.
7. CONTRACTOR TO VERIFY THE CONDITION OF EXISTING CATCH BASINS TO DETERMINE IF RETROFITTING THE NEW STRUCTURE TOPS IS FEASIBLE.

ABBREVIATIONS

PL	PROPERTY LINE
R/W	RIGHT OF WAY
SSMH	SANITARY SEWER MANHOLE
WV	WATER VALVE
WM	WATER METER
I.E.	INVERT ELEVATION
ELEV	ELEVATION
N/F	NOW OR FORMERLY
DB PG	DEED BOOK, PAGE NUMBER
HW	HEADWALL
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
CB	CATCH BASIN
JB	JUNCTION BOX
DI	DROP INLET
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORID PIPE
DIP	DUCTILE IRON PIPE
LAT	SEWER LATERAL
TYP	TYPICAL
CL	CENTERLINE
FFE	FINISHED FLOOR ELEVATION
IPF	IRON PIN FOUND
TOPO	TOPOGRAPHY

LEGEND

PL	PROPERTY LINE
G	GAS LINE
	RIGHT-OF-WAY
	STORM DRAIN
SS	SAN. SEWER LINE
W	WATER LINE
E	OVERHEAD ELECTRIC LINE
EU	UNDERGROUND ELECTRIC LINE
	FENCE LINE
	CREEK CENTERLINE
	WATER METER
	WATER VALVE
	DOUBLE WING CATCH BASIN
	SPOT ELEVATION
	MAILBOX
	CATCH BASIN
	FIRE HYDRANT
	IRON PIN FOUND
	ROADWAY SIGN
	GUY WIRE
	POWER POLE
SS	SANITARY SEWER CLEAN OUT
SS	SANITARY SEWER MAN HOLE
	SANITARY SEWER FLOW DIRECTION
	PAVEMENT

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA REGISTERED PE032281 PROFESSIONAL ENGINEER ANTHONY L. WIGGINS

No.	Description	Date
	REVISIONS	

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

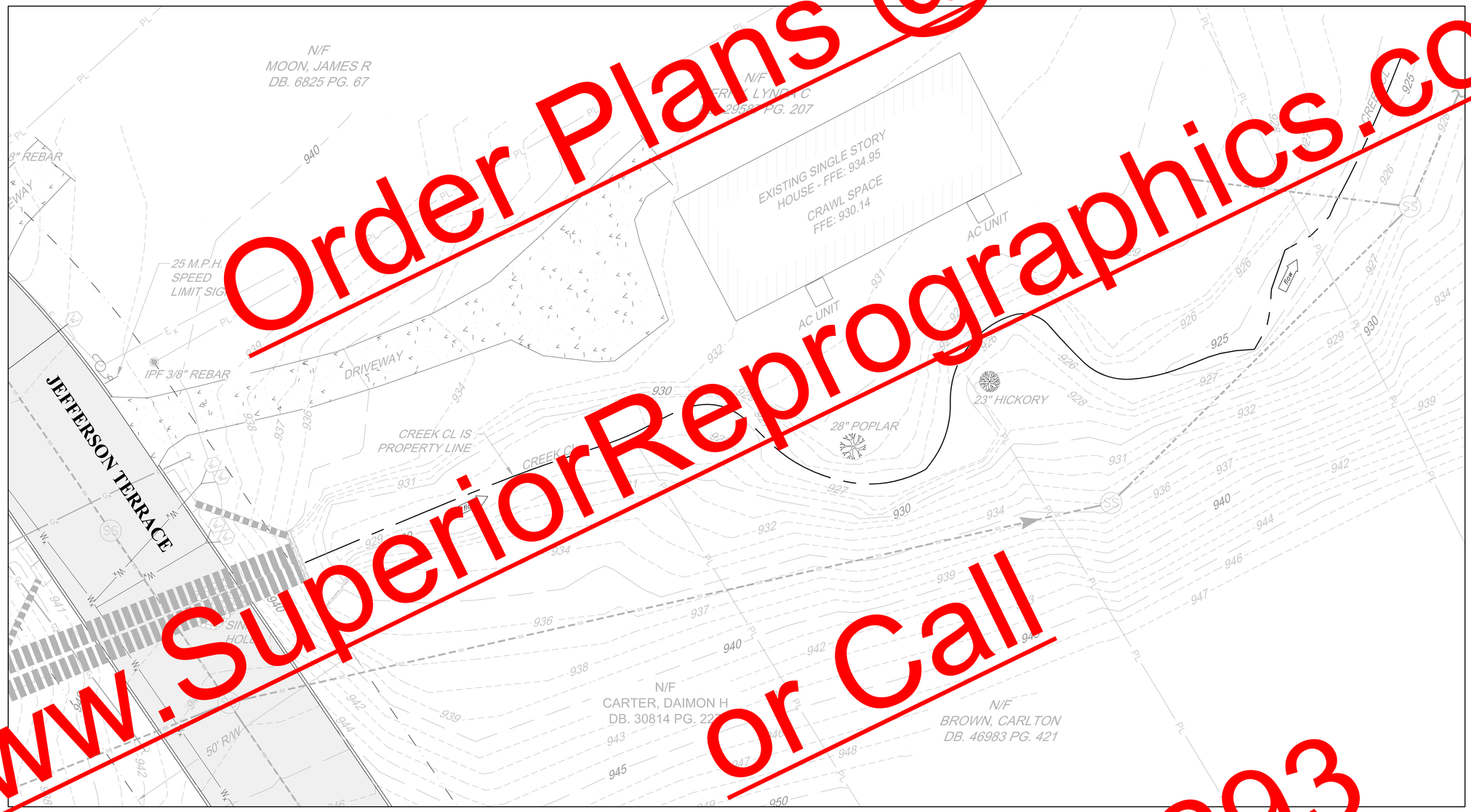
CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

DESIGNED BY:	A.L.W.
DRAWN BY:	A.L.W.
DATE:	2/11/2011
PROJ NO.	111233-003

SHEET TITLE
GENERAL NOTES

DRAWING NO.
2.0



EXISTING CONDITIONS
SCALE: 1" = 10'

LEGEND

PL	PROPERTY LINE
G_x	GAS LINE
	RIGHT-OF-WAY
	STORM DRAIN
SS_x	SAN. SEWER LINE
W_x	WATER LINE
E_x	OVERHEAD ELECTRIC LINE
EU_x	UNDERGROUND ELECTRIC LINE
	FENCE LINE
	CREEK CENTERLINE
	WATER METER
	WATER VALVE
	DOUBLE WING CATCH BASIN
	SPOT ELEVATION
	MAILBOX
	CATCH BASIN
	FIRE HYDRANT
	IRON PIN FOUND
	ROADWAY SIGN
	GUY WIRE
	POWER POLE
	SANITARY SEWER CLEAN OUT
	SANITARY SEWER MAN HOLE
	SANITARY SEWER FLOW DIRECTION
	PAVEMENT

ABBREVIATIONS

PL	PROPERTY LINE
R/W	RIGHT OF WAY
SSMH	SANITARY SEWER MANHOLE
WV	WATER VALVE
WM	WATER METER
I.E.	INVERT ELEVATION
ELEV	ELEVATION
N/F	NOW OR FORMERLY
DB PG	DEED BOOK, PAGE NUMBER
HW	HEADWALL
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
CB	CATCH BASIN
JB	JUNCTION BOX
DI	DROP INLET
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORID PIPE
DIP	DUCTILE IRON PIPE
LAT	SEWER LATERAL
TYP	TYPICAL
CL	CENTERLINE
FFE	FINISHED FLOOR ELEVATION
IPF	IRON PIN FOUND
TOPO	TOPOGRAPHY

GRAPHIC SCALE

10 0 10 20 40

(IN FEET)
GRAPHIC SCALE: 1 INCH = 10 FT.

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA REGISTERED PE032281 PROFESSIONAL ENGINEER ANTHONY L. WIGGINS

Revisions

No.	Description	Date

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

DESIGNED BY:	A.L.W.
DRAWN BY:	A.L.W.
DATE:	2/11/2011
PROJ NO.	111233-003

SHEET TITLE
EXISTING CONDITIONS

DRAWING NO.
3.0

GENERAL INFORMATION PART IV.D.1

a. THE SITE IS A STREAM LOCATED APPROXIMATELY 200 FEET DOWNSTREAM OF AN EXISTING ROAD CULVERT. THE STREAM MAKES AN ABRUPT 90° TURN AND IN A SHORT DISTANCE MAKES ANOTHER 90° TURN. THE STREAMBANKS WILL BE STABILIZED TO WITHSTAND INCREASED FLOWS FROM A PROPOSED CULVERT UPSTREAM. LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE IS SHOWN WITH CONSTRUCTION ACTIVITY SCHEDULE ON THIS SHEET.
b. TOTAL SITE AREA IS 0.06 Ac. DISTURBED AREA FOR SITE IS 0.04 Ac.
c. THE RUNOFF COEFFICIENT (USING 0.95 FOR IMPERVIOUS AREA, 0.40 FOR LANDSCAPED AREA, AND 0.25 FOR UNDISTURBED AREAS) IS ESTIMATED TO BE 0.30 FOR EXISTING CONDITIONS AND 0.45 FOR PROPOSED CONDITIONS.
d. THE RECEIVING WATER IS AN UNNAMED TRIBUTARY TO SOUTH RIVER.
e. THERE ARE KNOWN STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE DISTURBED AREA. THERE ARE 0 ACRES OF KNOWN WETLANDS ON THIS SITE.

GENERAL ESPCP NOTES:

1. **EROSION CONTROL MEASURES WILL 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.**
2. **NOTICE ! THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.**
3. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
4. THE DESIGN PROFESSIONAL OR AN AUTHORIZED AGENT WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF BMP'S WITHIN SEVEN DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.
5. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND-DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND ADEQUATE EROSION MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES.
6. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS 'TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND-DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND ADEQUATE EROSION MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES.
7. EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO ITEM 4 AND 5, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. BETWEEN THE TIME FINAL STABILIZATION OF THE SITE IS ACHIEVED AND UPON THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.
8. VELOCITY DISSIPATION DEVICES (I.E. STORM DRAIN OUTLET PROTECTION (St), CHECK DAMS (Cd), ROCK DAMS (Rd), STILLING BASINS, ETC.) SHALL BE PLACED AT ALL POINT DISCHARGE LOCATIONS.
9. A DOUBLE ROW OF GEORGIA DOT TYPE 'C' SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF ALL LAND DISTURBING ACTIVITIES AND ALONG UNDISTURBED BUFFERS ON WATERS OF THE STATE, OR AS SHOWN ON THE PLANS.
10. EROSION AND SEDIMENT CONTROL MEASURES MUST BE CHECKED AT THE END OF EACH DAY CONSTRUCTION ACTIVITY OCCURS AND AFTER EACH RAINFALL EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE THIRD THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF RILL EROSION DEVELOPS.

PRIMARY PERMITTEE INSPECTIONS PART IV.D.3.a

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, QUALIFIED 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; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH TWENTY FOUR HOURS [illegible] SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(2). QUALIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER THE FOLLOWING: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; 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, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(3). QUALIFIED 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 RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. 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).
(4). BASED ON THE 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 BUT 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.3.B.(4). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.
(5). A REPORT (I.E., NOT INDIVIDUAL INSPECTION FORMS) SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART V.A.6.A.(4) 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 IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

POLLUTION CONTROL PART IV.D

1. POLLUTION CONTROL MEASURES FOR THE SITE INCLUDE PROPER WASTE DISPOSAL, PROPER MANAGEMENT OF CHEMICAL STORAGE TANKS, EROSION FROM EGRESSES, SANITARY SEWAGE DISPOSAL AND ON-SITE VEHICLE STORAGE AND MAINTENANCE. NO DEBRIS THAT IS GENERATED WILL BE BURIED ON SITE.

1.1. WASTE DISPOSAL: SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE PROPERLY DISPOSED OF OR REMOVED FROM THE SITE TO AN APPROPRIATE LANDFILL, AND SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. CLEANUP AND DISPOSAL OF ALL WASTE MATERIALS (SOLID OR HAZARDOUS) SHALL BE IN ACCORDANCE WITH ALL RECOGNIZED LOCAL AND FEDERAL REQUIREMENTS. ALL DISPOSAL SHALL BE TO APPROVED OFF-SITE WASTE FACILITIES. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE APPROPRIATE ON-SITE OR OFF-SITE LOCATION. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

1.2. OFF-SITE VEHICLE TRACKING: OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. A STABILIZED CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE CLEANED AS NECESSARY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN ON AN AS NEEDED BASIS. A CONCRETE TRUCK WASHOUT LOCATION SHALL BE IN A TEMPORARY TRUCK WASH AREA LOCATED AT THE SITE ENTRANCE. WASHOUT SHALL BE CONTAINED WITHIN A PIT OR TRENCH WITH NO MATERIAL LEAVING THE SITE OR IMPACTING VEGETATED OR NON-DISTURBED AREAS.

1.3. SANITARY WASTE: AS SITE CONDITIONS WARRANT, SANITARY WASTE WILL BE MANAGED APPROPRIATELY BY EITHER AN ON-SITE PORTABLE UNIT(S) COLLECTED A MINIMUM OF ONCE PER WEEK BY THE LOCAL MUNICIPALITY AND/OR STATE OF GEORGIA LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, OR WITH A MANAGEMENT PLAN THAT ROUTES INDIVIDUALS TO A LEGAL AND APPROPRIATE SANITARY WASTE FACILITY.

1.4. SPILL REMEDIATION MANAGEMENT PRACTICES: THE FOLLOWING ARE THE BEST MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES AS WELL AS A CLEANUP PLAN IF NECESSARY.

RISK REDUCTION: PETROLEUM, FERTILIZER AND PAINT PRODUCTS
- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- PRODUCTS WILL BE STORED IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL, AND MUST BE KEPT OFF THE GROUND IN SECURELY FASTENED LIDS.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) WILL BE RETAINED.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.
- ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
- ALL PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE, AND SHALL BE LOCATED IN AN AREA WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR. FACILITIES SHOULD BE COVERED AND ACCESS RESTRICTED TO EMPLOYEES ONLY.
- FERTILIZERS USED WILL BE APPLIED ONLY IN MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- KEEP FLAMMABLE LIQUIDS IN CLOSED CONTAINERS WHEN NOT IN USE.
- USE PROPER RECEPTACLES TO DISPOSE OF CONTAMINATED WASTES THAT CANNOT BE RECYCLED IN CONFORMANCE WITH FEDERAL, STATE AND/OR LOCAL REGULATIONS.
- DO NOT DUMP PETROLEUM PRODUCT WASTE, PESTICIDES, FERTILIZERS, PAINTS OR OTHER CHEMICALS INTO SEWERS, STORM DRAINS OR DRAINAGE CHANNELS.
- PREVENT SPILLS OF PETROLEUM PRODUCTS FROM OCCURRING BY TAKING SPECIAL CARE WHEN HANDLING, AND KEEP FACILITIES AND EQUIPMENT MAINTAINED.
- USE SPILL PROOF CONTAINERS AND FUNNELS WHEN TRANSFERRING FLUIDS FROM ONE CONTAINER TO ANOTHER.
- POST INFORMATIONAL MATERIALS REGARDING CHEMICAL CONTROL.

SPILL CONTROL PLAN: THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
- EMERGENCY CONTACT NUMBERS FOR SPILLS SHALL BE AVAILABLE ON-SITE.
- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE ON SITE.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE AVAILABLE ON-SITE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- KEEP TRAINED STAFF IN SPILL RESPONSE ON-SITE.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE LOCAL OR FEDERAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE FOLLOWING MATERIALS OR SUBSTANCES ARE ANTICIPATED TO BE PRESENT ON-SITE DURING CONSTRUCTION: CONCRETE AND ASPHALT; GRADED AGGREGATE BASE AND OTHER AGGREGATES; DETERGENTS; PAINTS (ENAMEL AND LATEX); METAL STUDS; CONCRETE; TAR; FERTILIZERS; PETROLEUM BASED PRODUCTS; CLEANING SOLVENTS; WOOD; MASONRY BLOCK; ROOFING SHINGLES.

3. ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE, AND SHALL BE LOCATED IN AN AREA WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR. EMERGENCY CONTACT NUMBERS AND PROCEDURES FOR SPILLS SHALL BE AVAILABLE ON-SITE.

4. WASTE DISPOSAL: SOLID MATERIALS, INCLUDING BUILDING MATERIALS WILL BE DISPOSED OF OFF SITE AND THEREFORE WILL NOT BE DISCHARGED TO WATERS OF THE STATE FROM THE CONSTRUCTION SITE.

5. ALL POTENTIAL POLLUTION SOURCES WILL BE IDENTIFIED, INCLUDING PETROLEUM PRODUCT STORAGE, CONCRETE HANDLING, HERBICIDES AND ANY OTHER POLLUTANTS WHICH HAVE THE POTENTIAL TO BE EXPOSED TO RAINFALL AND BE DISCHARGED IN THE STORM WATER RUNOFF. PRACTICES WILL BE IMPLEMENTED TO ENSURE THE REDUCTION OF THESE POLLUTANTS IN STORM WATER DISCHARGES.

BMP MAINTENANCE PART IV.D.4

1. THE CONTRACTOR OR OTHER RESPONSIBLE PARTY IS TO TAKE IMMEDIATE ACTION UPON DISCOVERY OF DEFICIENCIES, WHETHER INCLUDED IN AN INSPECTION REPORT OR NOT.
2. ALL STRUCTURAL MEASURES MUST BE CLEANED OUT OR RECONSTRUCTED WHEN SEDIMENT VOLUMES EXCEED 1/3 THE STORAGE CAPACITY OF THE MEASURE. SEDIMENT CLEANED OUT SHOULD BE SPREAD IN UPLAND AREAS, MIXED WITH TOPSOIL, AND MULCHED OR SEEDED IMMEDIATELY, DO NOT SPOIL IN AREAS WHERE STRUCTURAL FILLS ARE REQUIRED (SUCH AS PAVEMENT, BUILDING FOOTPRINTS, ETC.)

REPORTING PART IV.E.

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.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. SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. EACH PERMITTEE MUST RETAIN COPIES OF ALL MONITORING REPORTED BY THAT PERMITTEE IN ACCORDANCE WITH THIS PART. IN ADDITION TO OTHER RECORDS KEEPING REQUIREMENTS, THE MONITORING INFORMATION SHALL INCLUDE:
THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;

2.B. THE NAME(S) OF THE INDIVIDUALS WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

2.C. THE DATE(S) ANALYSES WERE PERFORMED;

THE TIME(S) ANALYSES WERE INITIATED;

2.E. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;

2.F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED.;

2.G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; AND

2.H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

3. RETENTION OF RECORDS.

3.A. EACH PRIMARY PERMITTEE SHALL RETAIN A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE OR THE PLAN SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION. PRIMARY PERMITTEES ARE ENCOURAGED TO POST COPIES OF THEIR NOI, EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN, SAMPLING RESULTS, INSPECTION REPORTS, ETC. ON OR IN A PERMIT BOARD AT THE CONSTRUCTION EXIT TO FACILITATE INSPECTIONS BY LOCAL ISSUING AUTHORITIES AND EPD.

3.B. THE SECONDARY PERMITTEE MUST RETAIN A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR THE APPLICABLE PORTION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN FOR THEIR ACTIVITIES AT THE CONSTRUCTION SITE OR THE PLAN SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM THE DATE OF THE SECONDARY PERMITTEE'S PROJECT BEGINS TO THE DATE OF FINAL STABILIZATION. THE TERTIARY PERMITTEE SHALL RETAIN A COPY OF THE TERTIARY EROSION CONTROL PLAN AND INSPECTION REPORTS REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE OR READILY AVAILABLE DESIGNATED ALTERNATE LOCATION FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

3.C. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, TERTIARY EROSION 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 SITE IS FINALLY STABILIZED. 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 TO THE PERMITTEE.

4. **REPORT SUBMITTAL.** 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.

SAMPLING REQUIREMENTS PART IV.D.5.a

1. SAMPLING AND RECORDS OF THE DATA WILL BE MAINTAINED BY THE RESPECTIVE PERMITTEE, OR THEIR DESIGNEE.
2. ALL SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS, EVEN IF BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT, MUST BE REPORTED TO THE EPD AS SPECIFIED UNDER THE GENERAL PERMIT IN PART IV.B.
3. 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 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001. THESE GUIDANCE DOCUMENTS ARE AVAILABLE UPON REQUEST BY THE DESIGN PROFESSIONAL.
4. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
5. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
6. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
7. 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 ARE NOT REQUIRED TO BE COOLED.
8. SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
9. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
10. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
11. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

LEVEL 2 CERTIFICATION
#0000002158

GEORGIA REGISTERED PE032281 PROFESSIONAL ENGINEER ANTHONY L. WIGGINS 4-26-11

SOILS LEGEND			
MAP SYMBOL	SOIL NAME	K FACTOR	SLOPE
UrE	Urban land-Rion Complex	0.57	10 - 25%

SAMPLING REQUIREMENTS PART IV.D.5.a (CONT.)

2. 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 STORMWATER 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 STORMWATER 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.

HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE, OR ARE 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 STORMWATER DISCHARGE.

THE PERMITTEE SHALL SAMPLE 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 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU SATURDAY 8:00 AM TO 5:00 PM 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 LOCATION;
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* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST 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 FIRST;
C. AT THE TIME OF SAMPLING PERFORMED 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 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 THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.

**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.

DEFINITION OF "CERTIFY"
AS USED HEREIN, THE WORD *CERTIFY* SHALL MEAN AN EXPRESSION OF THE CONSULTANT'S PROFESSIONAL OPINION TO THE BEST OF ITS INFORMATION, KNOWLEDGE AND BELIEF, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE BY THE CONSULTANT.

"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', PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER 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. GAR100001."

"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."

SIGNATURE *[signature]* DATE 4.26.11
GA LEVEL II DESIGN PROFESSIONAL CERTIFICATION NO. 0000002158

"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 ON 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."

SIGNATURE *[signature]* DATE 4.26.11

"THE PRIMARY, SECONDARY OR TERTIARY PERMITTEE SHALL MAKE EROSION, SEDIMENTATION & POLLUTION CONTROL PLANS AVAILABLE UPON REQUEST TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT. INSPECTIONS SHALL BE DONE BY A QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON-SITE IN COMPLIANCE WITH GAR. 100001.

NOTICE:
AMENDMENTS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECTS ON THE BMP's WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE PART IV.D.1.b

THE FOLLOWING SEQUENCES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, PRE-CONSTRUCTION CONFERENCE, ETC., DICTATES A DEVIATION FROM THIS SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE ENGINEER SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE SHALL BE RECORDED IN THE DAILY LOG.

PHASE 1 - CLEARING & GRUBBING PLAN

1. DEVELOPER TO FILE A NOTICE OF INTENT. THIS MUST BE DONE A MINIMUM OF 14 DAYS PRIOR TO LAND DISTURBANCE.
2. OBTAIN AND POST COPY OF LAND DISTURBANCE PERMIT ON SITE.
3. SET UP A PRE-CONSTRUCTION CONFERENCE AT THE SITE WITH THE OWNER'S REPRESENTATIVE, CONTRACTOR, PROJECT DESIGN TEAM, AND COUNTY/CITY INSPECTOR TO REVIEW THE EROSION CONTROL AND SITE WORK CONSTRUCTION DOCUMENTS REQUIREMENTS.
4. SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER OR AT A NEARBY ACCESSIBLE LOCATION (SALES OFFICE, ETC.)
5. CONSTRUCT THE CONSTRUCTION ENTRANCES/EXITS AT THE PROPOSED LOCATIONS AS SHOWN ON THE PLANS.
6. FIELD LOCATE BUFFERS AND TREE PROTECTION LIMITS WITH TREE PROTECTION FENCING AS SHOWN ON PLANS.
7. FLAG AND STAKE PROPOSED RIGHTS OF WAY AND OTHER STRUCTURES, AS NECESSARY.
8. INSTALL SILT FENCE AND OTHER PERIMETER SILT BARRIERS AS SHOWN ON PHASE-I EROSION CONTROL PLAN (ECP).
9. CLEAR AND GRUB ROUTES TO AREAS FOR TEMPORARY AND PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICES (BMP).
10. INSTALL RIP RAP CHECK DAMS AND OTHER STRUCTURAL BMP'S IN CONCENTRATED FLOW AREAS, AS SHOWN ON THE PLANS, WITH MINIMAL DISTURBANCE TO THE ADJACENT AREA.
11. CONSTRUCT ALL REMAINING STRUCTURAL BMP'S SHOWN ON THE PHASE-1 ECP CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS.
12. CONTRACTOR SHALL COMPLETE CLEARING AND GRUBBING FOR REMAINING AREAS OF CONSTRUCTION. ALL CLEARED MATERIAL TO BE HAULED OFF SITE OR STOCKPILED FOR CHIPPING OR TUB GRINDING, OR BURNING, IF PERMITTED.

PHASE 2 - GRADING AND TEMPORARY VEGETATIVE PLAN

1. APPLY TEMPORARY VEGETATION (Ds1/Ds2) IN ACCORDANCE WITH PLANS AND NOTES IN THESE DOCUMENTS FOR CLEARED AREAS.
2. CONSTRUCT ALL STRUCTURAL BMP'S SHOWN ON THE PHASE-II ECP WHERE COMPLETION OF ROUGH GRADING IS NOT NECESSARY FOR INSTALLATION (I.E. AT TOE OF SLOPES, OTHER AREAS NOT TO BE AFFECTED BY ROUGH GRADING.)
3. COMMENCE WITH ROUGH GRADING ON SITE. INSTALL STRUCTURAL AND VEGETATIVE BMP'S AS SHOWN ON PLANS AND IN ACCORDANCE WITH NOTES AS ROUGH GRADING FOR EACH AREA IS COMPLETED.
4. INSTALL PERMANENT DETENTION POND(S), IF APPLICABLE, AS SHOWN.
5. CONSTRUCT TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS NECESSARY FOR PROPER SITE DRAINAGE AND CONVEYANCE TO THE PROPER BEST MANAGEMENT PRACTICES SHOWN ON THE PHASE-II ECP. INSTALL ALL OUTLET PROTECTION BMP'S CONCURRENT WITH DRAINAGE OUTFALLS.
6. INSTALL INLET SEDIMENT TRAPS (Sd2) AT ALL INLET STRUCTURES. USE SD2-F OR SD2-Bg AS SHOWN ON DETAILS.
7. AS SLOPES ARE BEING CONSTRUCTED, SPREAD FERTILIZER AND GRASS SEED ALONG WITH RECOMMENDED MULCHING AS SOON AS FINAL GRADE IS ACHIEVED TO HELP STABILIZE THESE SLOPES.
8. CONSTRUCT DIVERSION DIKES(Di) WITH DOWN DRAINS (Dn1) AS NEEDED AND AS SHOWN ON THE PHASE II ECP. CONSTRUCT FILTER RINGS (Fr) AROUND EACH TEMPORARY DOWN DRAIN INLET.
9. SPREAD MATTING AND BLANKETS AND APPLY PERMANENT GRASSING TO ALL FINISHED SLOPES.
10. COMMENCE FINAL GRADING OF ALL ROADS, PARKING LOTS AND BUILDING PADS.

PHASE 3 - INFRASTRUCTURE AND PERMANENT VEGETATIVE PLAN

1. INSTALL ALL SANITARY SEWER LINES AND REMAINING STORM DRAINS WITH OUTLET PROTECTION (St), LEVEL SPREADERS (Lv), AND/OR OTHER NECESSARY CHANNEL STABILIZATION AS REQUIRED AT HEADWALLS.
2. INSTALL INLET PROTECTION (Sd2) AT ALL INLET STRUCTURES. SD2-P MAY BE INSTALLED ON INLET STRUCTURES WITH STRUCTURE TOPS IN PLACE.
3. SMOOTH GRADES AND PERMANENTLY VEGETATE DISTURBED AREAS AT COMPLETION OF PIPE CONSTRUCTION.
4. INSTALL AGGREGATE BASE FOR ALL ROADWAYS.
5. INSTALL CURB & GUTTER FOR ROADS AND PARKING LOTS.
6. AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, CURBS SHALL BE BACKFILLED AND SHOULDERS SHALL BE SMOOTH GRADED AND TEMPORARILY VEGETATED OR MULCHED. (Ds1/Ds2).
7. INSTALL UTILITIES IN ALL THE SHOULDERS. APPLY TEMPORARY VEGETATION TO AREAS DISTURBED BY UTILITY CONSTRUCTION IN ACCORDANCE WITH PLAN NOTES.
8. CONSTRUCT SIDEWALKS AS SHOWN ON PLANS. AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, REMOVE FORMS AND APPLY MULCH OR VEGETATION TO DISTURBED AREAS.
9. PAVE ALL STREETS. APPLY FINAL STABILIZATION TO ANY REMAINING AREAS THAT HAVE NOT BEEN PERMANENTLY VEGETATED IN ACCORDANCE WITH NOTES IN THESE PLANS.
10. ALL SEDIMENT PONDS AND PERIMETER SILT FENCING TO REMAIN THROUGHOUT BUILDING CONSTRUCTION TO BE DONE BY OTHERS. AT COMPLETION OF BUILDING CONSTRUCTION, ALL AREAS ARE TO BE PERMANENTLY VEGETATED.
11. REMOVE TEMPORARY SEDIMENT PONDS AND OTHER TEMPORARY STRUCTURAL BMP'S FOLLOWING FINAL STABILIZATION AND WHEN PERMANENT VEGETATIVE COVER IS ESTABLISHED ON 80% OF THE SURFACE. USE PERMANENT VEGETATIVE BMP'S TO STABILIZE BACKFILL FROM REMOVAL OF STRUCTURAL BMP'S.
12. AS SOON AS CONCRETE BUILDING PADS ARE POURED, ALL AREAS AROUND AND BETWEEN THESE PADS AND THE STREETS/PARKING LOTS SHALL BE TEMPORARILY VEGETATED.
13. AS SOON AS PRACTICALLY POSSIBLE, PERMANENT LANDSCAPING SHALL BE INSTALLED ALONG ALL STREETS AND THROUGHOUT THE SITE TO PROTECT THE LAND AND HELP MINIMIZE THE EFFECTS OF SEDIMENT RUNOFF INTO STATE BUFFERS OR ONTO ADJACENT PROPERTIES.
14. DEVELOPER TO SUBMIT A NOTICE OF TERMINATION. ONCE THE FOUR FOLLOWING CRITERIA ARE MET:
    - 14.1. THE SURFACE WATER DRAINAGE AREA HAS UNDERGONE FINAL STABILIZATION AND ALL PLANNED CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, AND
    - 14.2. ALL STORMWATER RUNOFF IN THE SURFACE WATER DRAINAGE IS COMING FROM UNDISTURBED OR STABILIZED AREAS, AND
    - 14.3. AT LEAST 90% OF THE LOTS IN THAT SURFACE WATER DRAINAGE AREA OF THE COMMON DEVELOPMENT HAVE BEEN SOLD TO AN UNRELATED PARTY, PERMANENT STRUCTURES COMPLETED AND FINAL STABILIZATION ACHIEVED, AND
    - 14.4. THE REMAINING ACREAGE TO BE DISTURBED ON UNDEVELOPED LOTS WITHIN THE SURFACE WATER DRAINAGE AREA IS LESS THAN ONE ACRE.
15. THE CONTRACTOR WILL NOTIFY ALL REMAINING LEGAL PROPERTY OWNERS IN THE COMMON DEVELOPMENT THAT REMAIN UNDEVELOPED THAT THESE OWNERS OR OPERATORS WILL BE COME TERTIARY PERMITTEES FOR PURPOSES OF THE PERMIT AND THESE TERTIARY PERMITTEES WILL BE RESPONSIBLE FOR OFF-SITE BEST MANAGEMENT PRACTICES AND THIS PLAN, AS APPLICABLE.

ESTIMATED START DATE: APRIL 2011

ANTICIPATED CONSTRUCTION ACTIVITY SCHEDULE

	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6
INSTALL EROSION, SEDIMENTATION, POLLUTION CONTROL, AND TREE PROTECTION MEASURES:	■					
CLEARING, GRUBBING, AND GRADING:	■	■	■	■		
TEMPORARY GRASSING:	■	■	■	■		
FINAL LANDSCAPING AND GRASSING:					■	
REMOVE BRUSH BARRIERS AND STABILIZE AREA:					■	
MAINTENANCE OF EROSION, SEDIMENTATION, POLLUTION CONTROL, AND TREE PROTECTION MEASURES:	■	■	■	■	■	

CONTRACTOR/ DEVELOPER MAY NEED TO ADJUST SCHEDULE BASED ON SPECIFIC FIELD CONDITIONS.

Date | No. | Description | Revisions

CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT
ENGINEERS MANAGERS SCIENTISTS PLANNERS
2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186

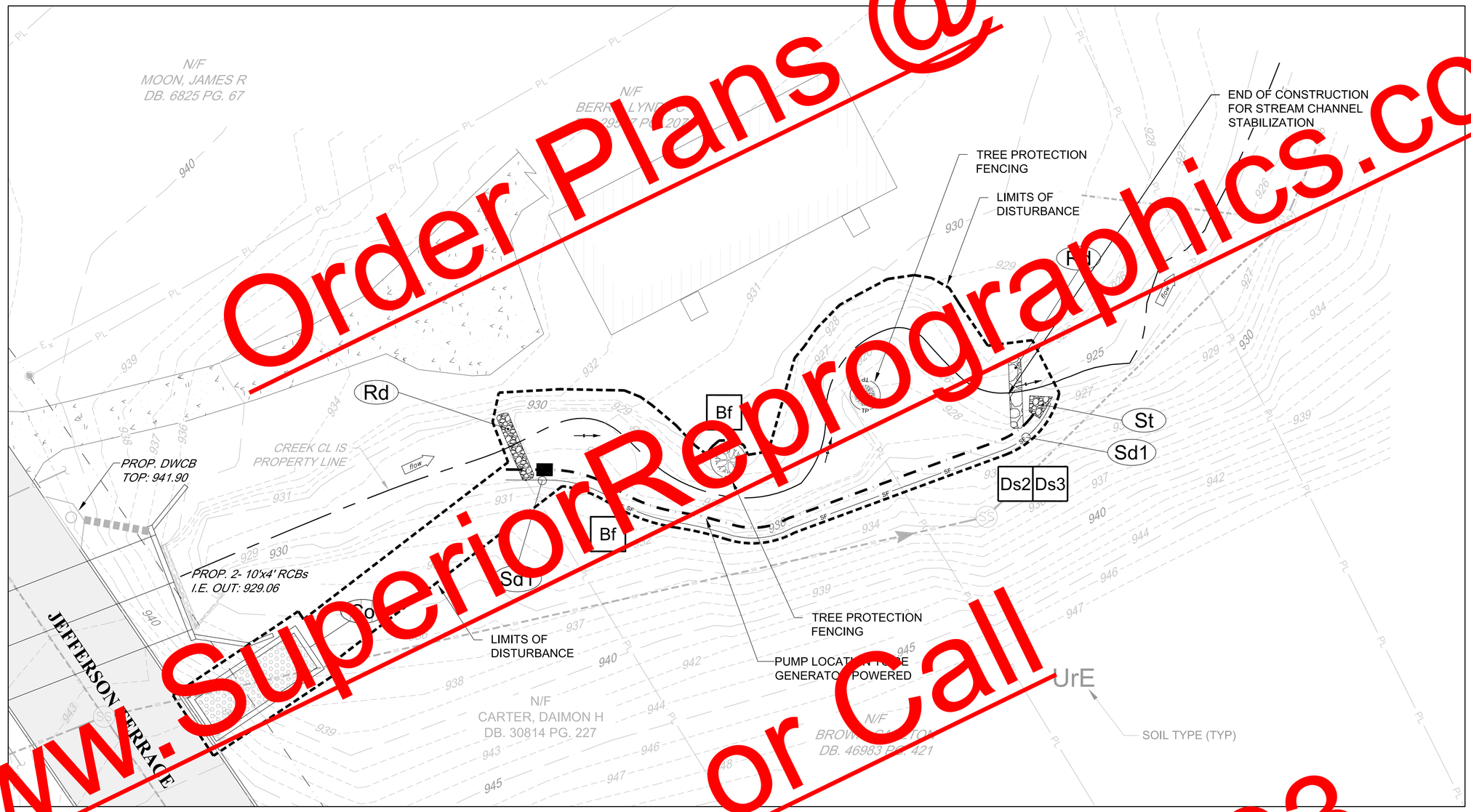
CLIENT: CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT: JEFFERSON TERRACE STREAM CHANNEL STABILIZATION

DESIGNED BY: A.L.W.
DRAWN BY: A.L.W.
DATE: 2/11/2011
PROJ NO. 11-1233-003

SHEET TITLE
EROSION CONTROL NOTES

DRAWING NO.
4.0



EROSION CONTROL PLAN - INITIAL

SCALE: 1" = 10'

LEGEND

- PROPERTY LINE
- GAS LINE
- RIGHT-OF-WAY
- STORM DRAIN
- SAN. SEWER LINE
- WATER LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- FENCE LINE
- CREEK CENTERLINE
- FLOW DIRECTION
- WATER METER
- WATER VALVE
- DOUBLE WING CATCH BASIN
- SPOT ELEVATION
- MAILBOX
- CATCH BASIN
- FIRE HYDRANT
- IRON PIN FOUND
- ROADWAY SIGN
- GUY WIRE
- POWER POLE
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MAN HOLE
- SANITARY SEWER FLOW DIRECTION
- PAVEMENT

ABBREVIATIONS

PL	PROPERTY LINE
R/W	RIGHT OF WAY
SSMH	SANITARY SEWER MANHOLE
WV	WATER VALVE
WM	WATER METER
I.E.	INVERT ELEVATION
ELEV	ELEVATION
N/F	NOW OR FORMERLY
DB PG	DEED BOOK, PAGE NUMBER
HW	HEADWALL
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
CB	CATCH BASIN
JB	JUNCTION BOX
DI	DROP INLET
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORID PIPE
DIP	DUCTILE IRON PIPE
LAT	SEWER LATERAL
TYP	TYPICAL
CL	CENTERLINE
FFE	FINISHED FLOOR ELEVATION
IPF	IRON PIN FOUND
TOPO	TOPOGRAPHY

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
2. SEDIMENT AND EROSION MEASURES AND PRACTICES TO BE INSPECTED DAILY AND MAINTAINED AS NEEDED.
3. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
5. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V. AND SHALL BE MATTED.
6. WEEKLY EROSION AND SEDIMENT CONTROL REPORTS SHALL BE SUBMITTED TO THE DEVELOPMENT DEPARTMENT STARTING WITH THE ISSUANCE OF THE DEVELOPMENT PERMIT AND ENDING WHEN PROJECT IS RELEASED BY THE INSPECTOR.
7. DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.

DEWATERING NOTES:

CONTRACTOR SHALL DEWATER AREAS WHEN NECESSARY 24 HRS 7 DAYS A WEEK UNTIL THE EXCAVATIONS ARE PROPERLY BACKFILLED OR STRUCTURES ARE PLACED TO AT LEAST 2 TO 3 FEET ABOVE THE AMBIENT STABILIZED GROUNDWATER LEVELS. THE CONTRACTOR IS RESPONSIBLE FOR LOWERING AND CONTINOUSLY MAINTAINING GROUNDWATER A MINIMUM OF 5 FEET BELOW THE DEEPEST EXCAVATIONS AT ALL TIMES, 24/7, DURING ALL BELOW GRADE WORK. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN PRIOR TO ANY WORK. WHEN DEWATERING, NO SILTED WATER SHALL BE PUMPED DIRECTLY BACK INTO THE STREAM WITHOUT GOING THROUGH A BMP.

GRAPHIC SCALE

10 0 10 20 40

(IN FEET)
GRAPHIC SCALE: 1 INCH = 10 FT.

N
W GRID E
S

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA REGISTERED PE032281 PROFESSIONAL ENGINEER ANTHONY L. WIGGINS

Revisions

No.	Description	Date

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

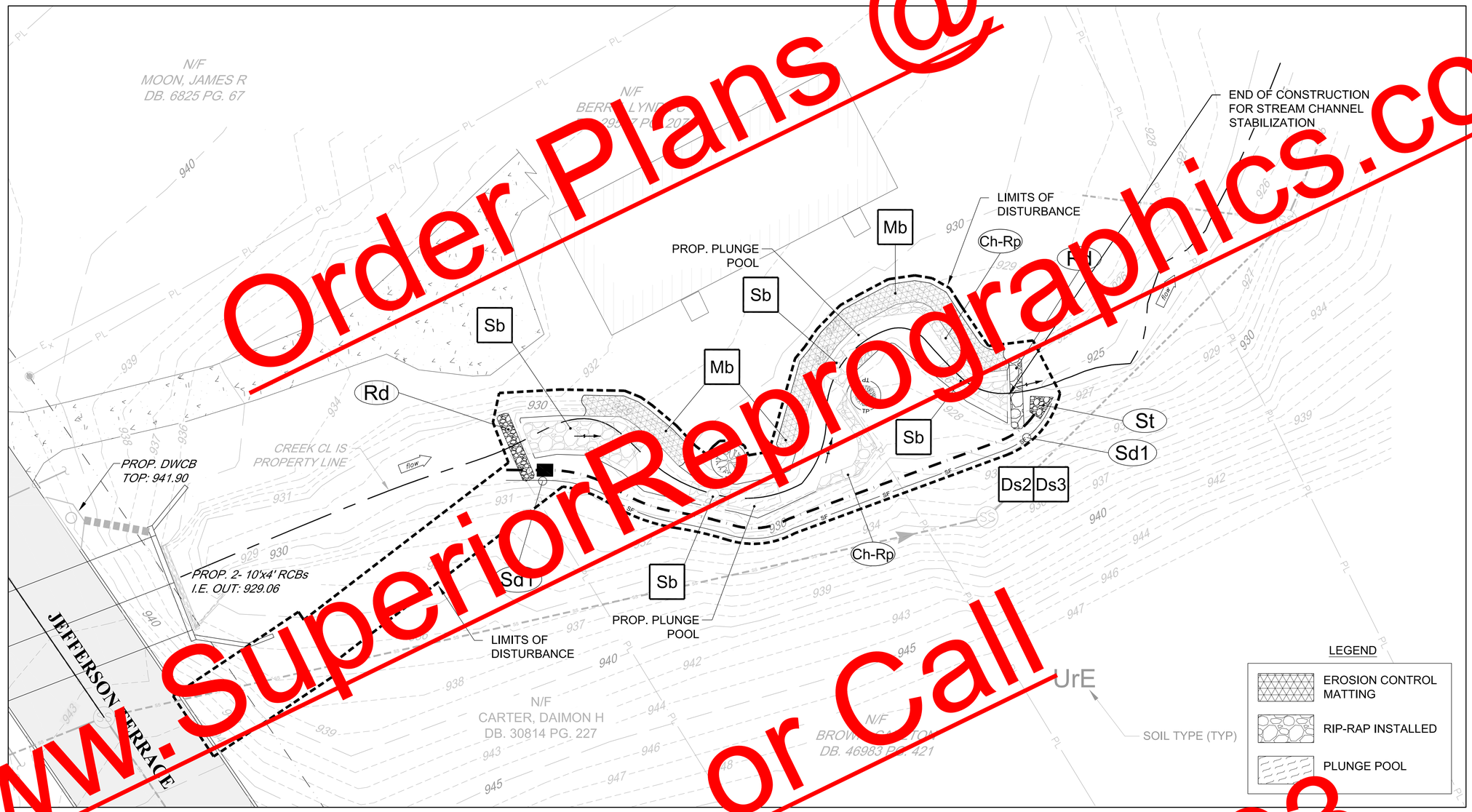
CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

DESIGNED BY:	A.L.W.
DRAWN BY:	A.L.W.
DATE:	2/11/2011
PROJ NO.	11-1233-003

SHEET TITLE
EROSION CONTROL PLAN (1 OF 3)

DRAWING NO.
5.0



EROSION CONTROL PLAN - INTERMEDIATE

SCALE: 1" = 10'

LEGEND

PL	PROPERTY LINE
G	GAS LINE
	RIGHT-OF-WAY
	STORM DRAIN
SS	SAN. SEWER LINE
W	WATER LINE
E	OVERHEAD ELECTRIC LINE
EU	UNDERGROUND ELECTRIC LINE
	FENCE LINE
	CREEK CENTERLINE
	FLOW DIRECTION
	WATER METER
	WATER VALVE
	DOUBLE WING CATCH BASIN
	SPOT ELEVATION
	MAILBOX
	CATCH BASIN
	FIRE HYDRANT
	IRON PIN FOUND
	ROADWAY SIGN
	GUY WIRE
	POWER POLE
	SANITARY SEWER CLEAN OUT
	SANITARY SEWER MAN HOLE
	SANITARY SEWER FLOW DIRECTION
	PAVEMENT

ABBREVIATIONS

PL	PROPERTY LINE
R/W	RIGHT OF WAY
SSMH	SANITARY SEWER MANHOLE
WV	WATER VALVE
WM	WATER METER
I.E.	INVERT ELEVATION
ELEV	ELEVATION
N/F	NOW OR FORMERLY
DB PG	DEED BOOK, PAGE NUMBER
HW	HEADWALL
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
CB	CATCH BASIN
JB	JUNCTION BOX
DI	DROP INLET
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORID PIPE
DIP	DUCTILE IRON PIPE
LAT	SEWER LATERAL
TYP	TYPICAL
CL	CENTERLINE
FFE	FINISHED FLOOR ELEVATION
IPF	IRON PIN FOUND
TOPO	TOPOGRAPHY

N
W GRID E
S

GRAPHIC SCALE

10 0 10 20 40

(IN FEET)
GRAPHIC SCALE: 1 INCH = 10 FT.

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA REGISTERED PE003281 PROFESSIONAL ENGINEER ANTHONY L. WIGGINS

Revisions
No. Description Date

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

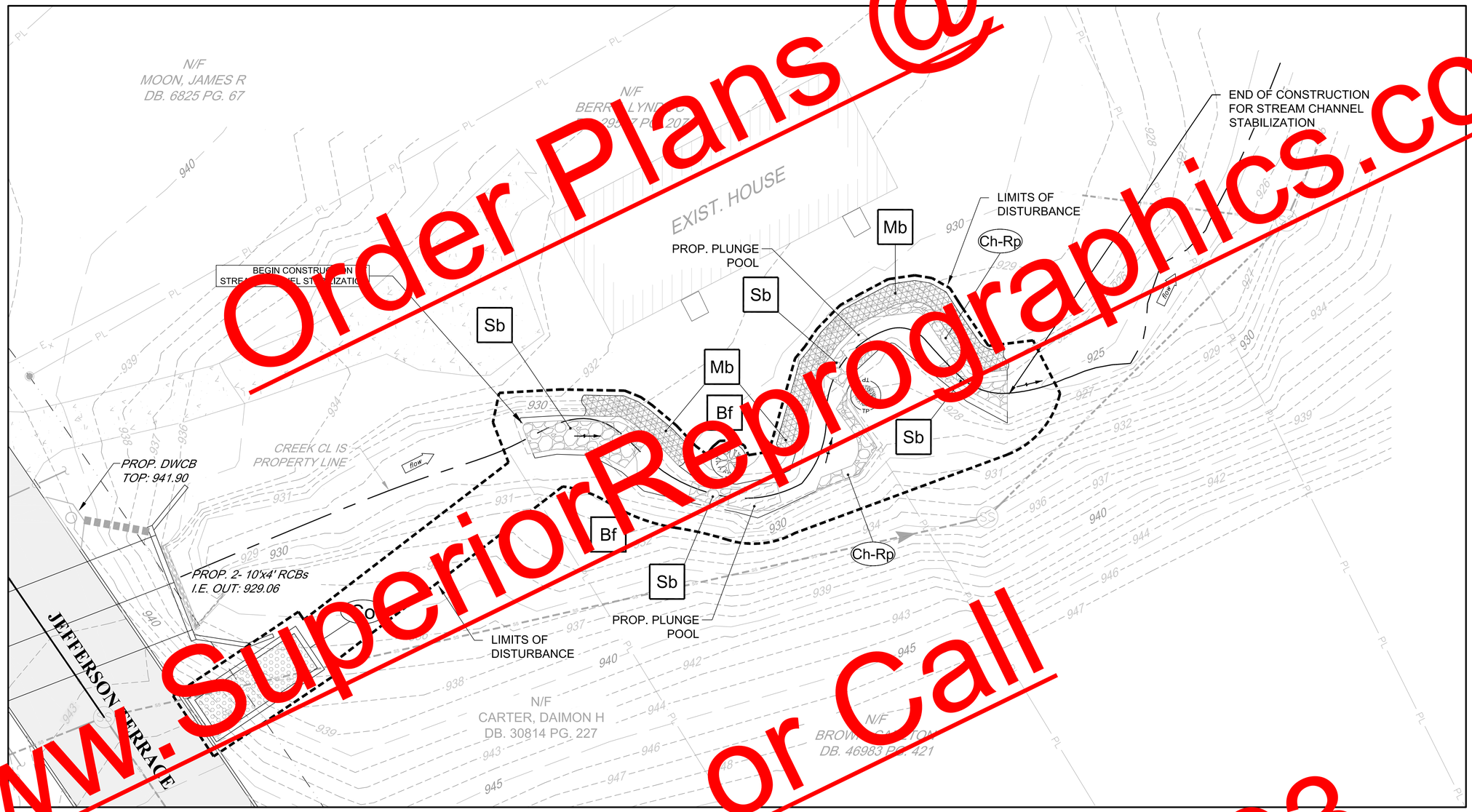
CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

DESIGNED BY: A. L. W.
DRAWN BY: A. L. W.
DATE: 2/11/2011
PROJ NO. 11-1233-003

SHEET TITLE
EROSION CONTROL PLAN (2 OF 3)

DRAWING NO.
6.0



EROSION CONTROL PLAN - FINAL

SCALE: 1" = 10'

LEGEND

- PROPERTY LINE
- GAS LINE
- RIGHT-OF-WAY
- STORM DRAIN
- SAN. SEWER LINE
- WATER LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- FENCE LINE
- CREEK CENTERLINE
- FLOW DIRECTION
- WATER METER
- WATER VALVE
- DOUBLE WING CATCH BASIN
- SPOT ELEVATION
- MAILBOX
- CATCH BASIN
- FIRE HYDRANT
- IRON PIN FOUND
- ROADWAY SIGN
- GUY WIRE
- POWER POLE
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MAN HOLE
- SANITARY SEWER FLOW DIRECTION
- PAVEMENT

ABBREVIATIONS

PL	PROPERTY LINE
R/W	RIGHT OF WAY
SSMH	SANITARY SEWER MANHOLE
WV	WATER VALVE
WM	WATER METER
I.E.	INVERT ELEVATION
ELEV	ELEVATION
N/F	NOW OR FORMERLY
DB PG	DEED BOOK, PAGE NUMBER
HW	HEADWALL
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
CB	CATCH BASIN
JB	JUNCTION BOX
DI	DROP INLET
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORID PIPE
DIP	DUCTILE IRON PIPE
LAT	SEWER LATERAL
TYP	TYPICAL
CL	CENTERLINE
FFE	FINISHED FLOOR ELEVATION
IPF	IRON PIN FOUND
TOPO	TOPOGRAPHY

N
W GRID E
S

GRAPHIC SCALE

10 0 10 20 40

(IN FEET)
GRAPHIC SCALE: 1 INCH = 10 FT.

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
PE032281
ANTHONY L. WIGGINS

Revisions
No. Description Date

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

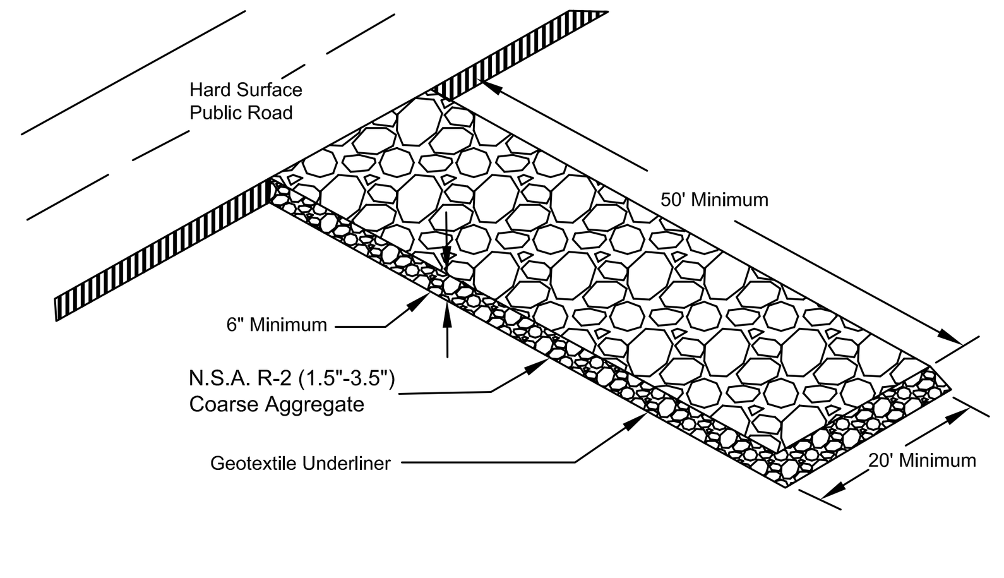
CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

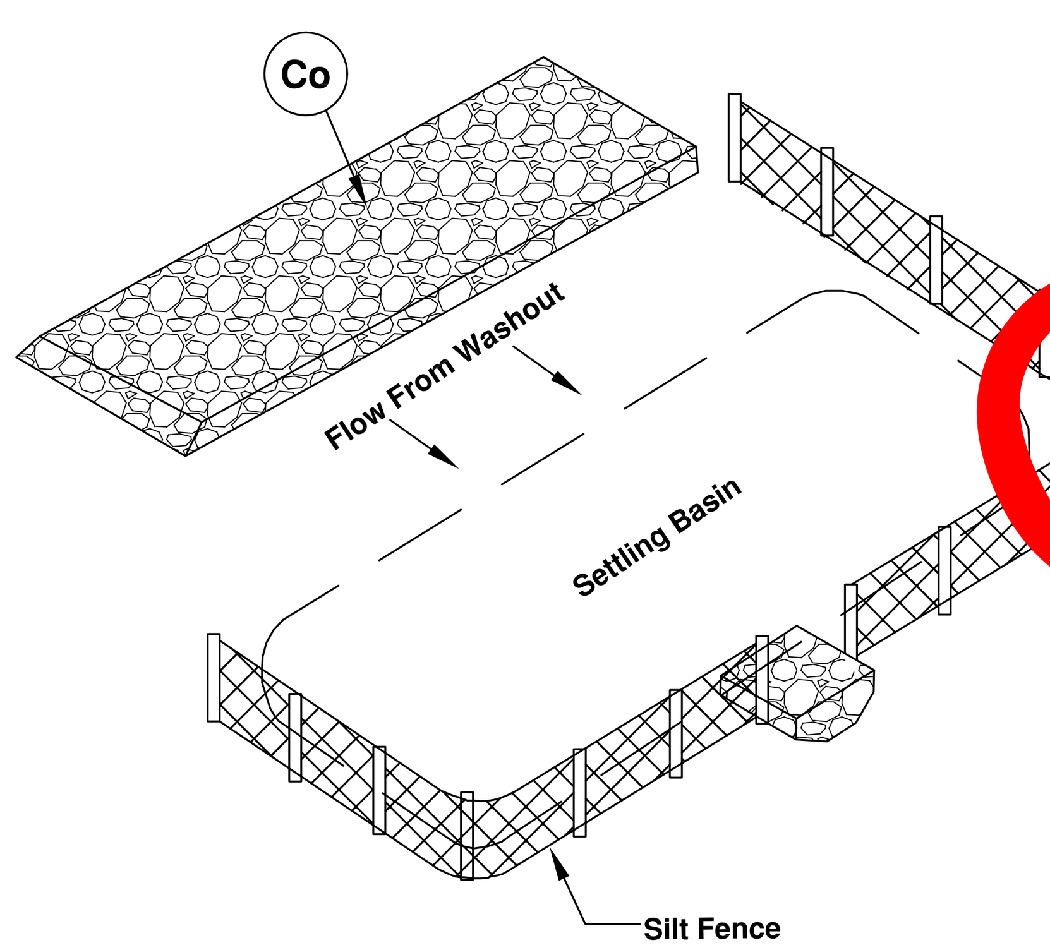
DESIGNED BY: A.L.W.
DRAWN BY: A.L.W.
DATE: 2/11/2011
PROJ NO. 11-1233-003

SHEET TITLE
EROSION CONTROL PLAN (3 OF 3)

DRAWING NO.
7.0

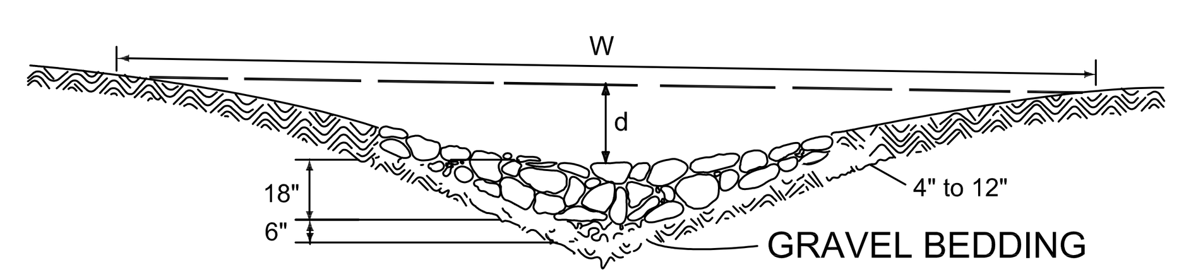


Co CRUSHED STONE CONSTRUCTION EXIT

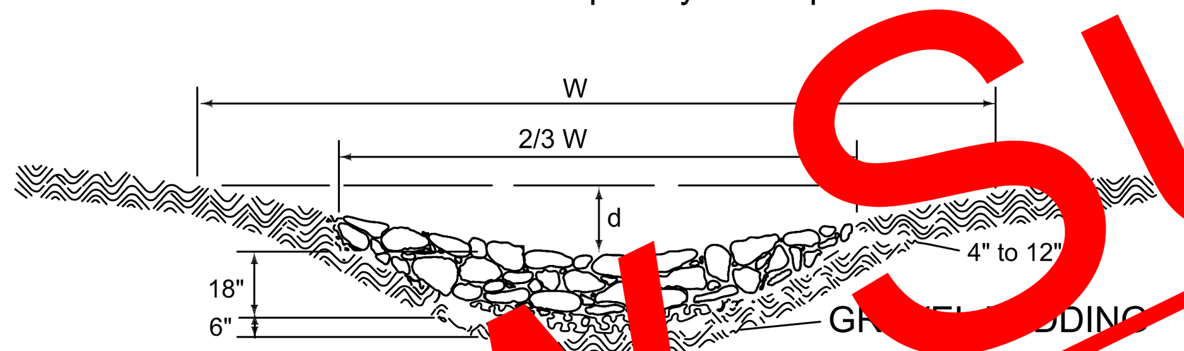


CONCRETE TRUCK WASHOUT

NTS



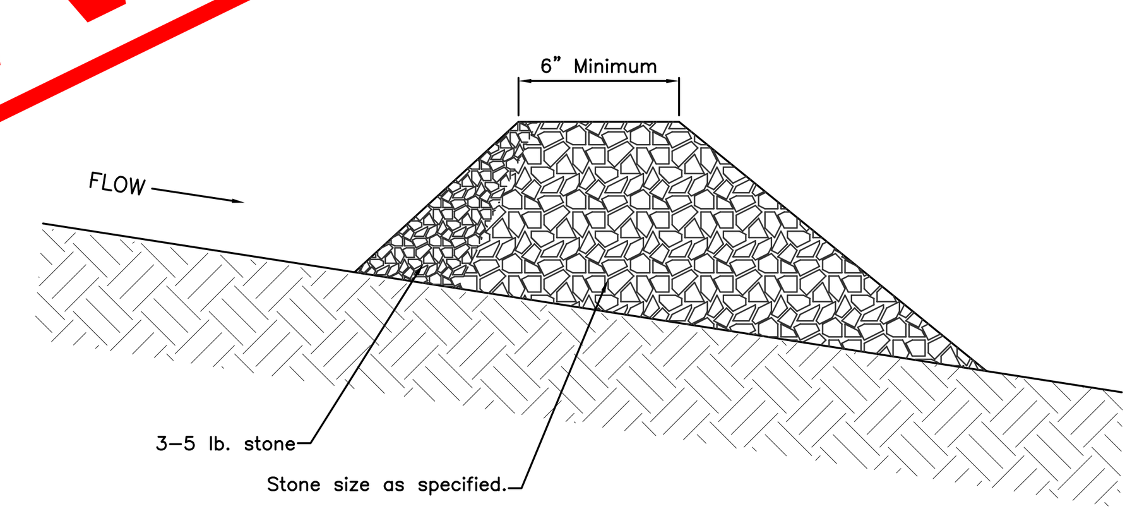
Waterway with stone center drain
V section shaped by motor patrol



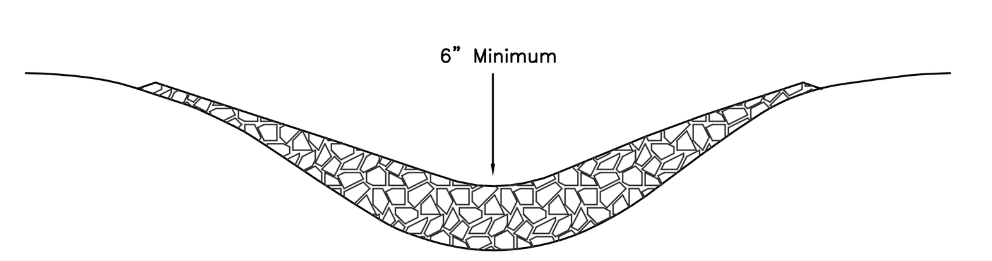
Waterway with stone center drain
Rounded section shaped by bulldozer

Wt STONE CENTER WATERWAYS

Figure 6-27 - Waterway With Stone Center

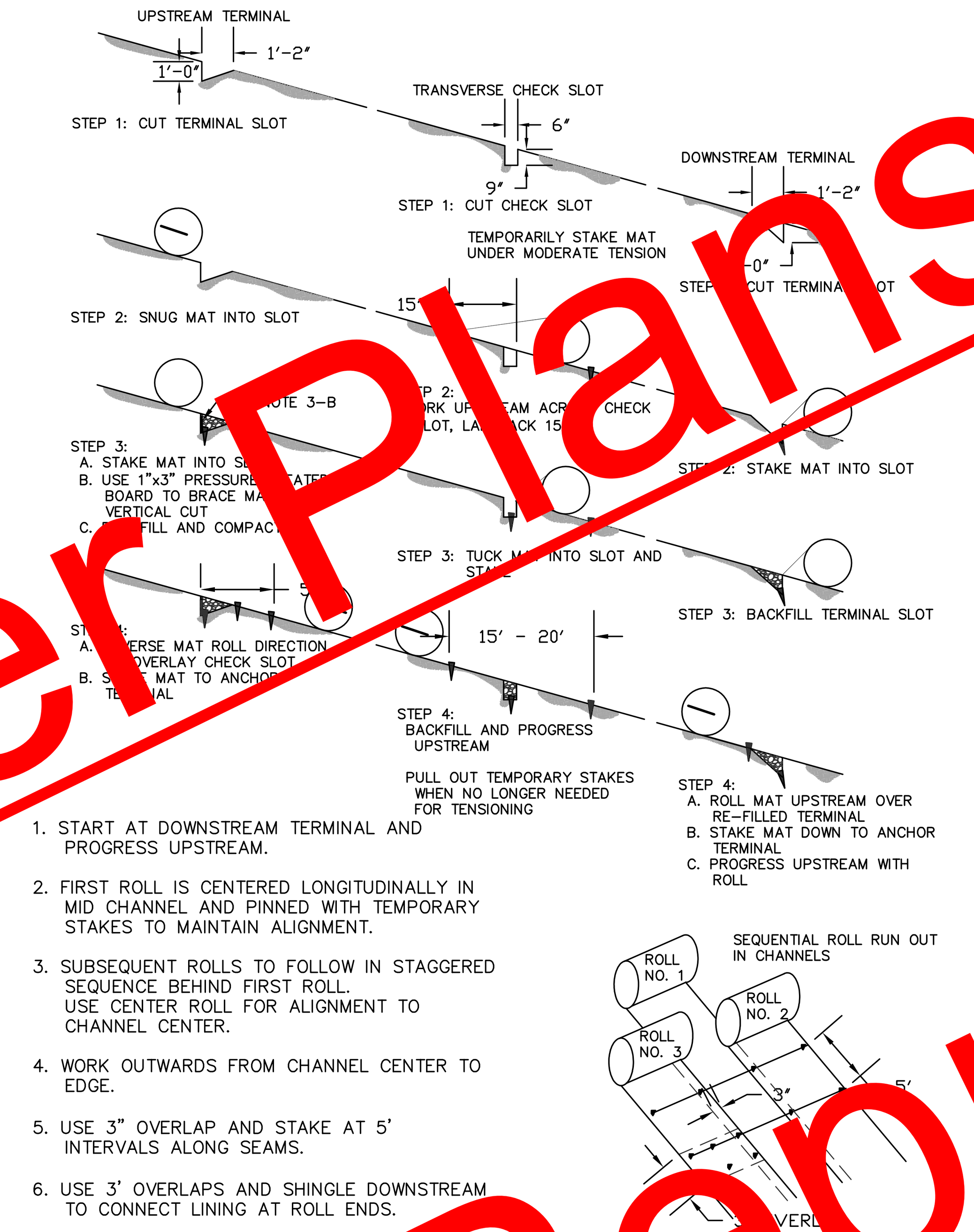


NOTE:
Sediment trap to be cleaned out when volume becomes half full.



Rd ROCK FILTER DAM

N.T.S.



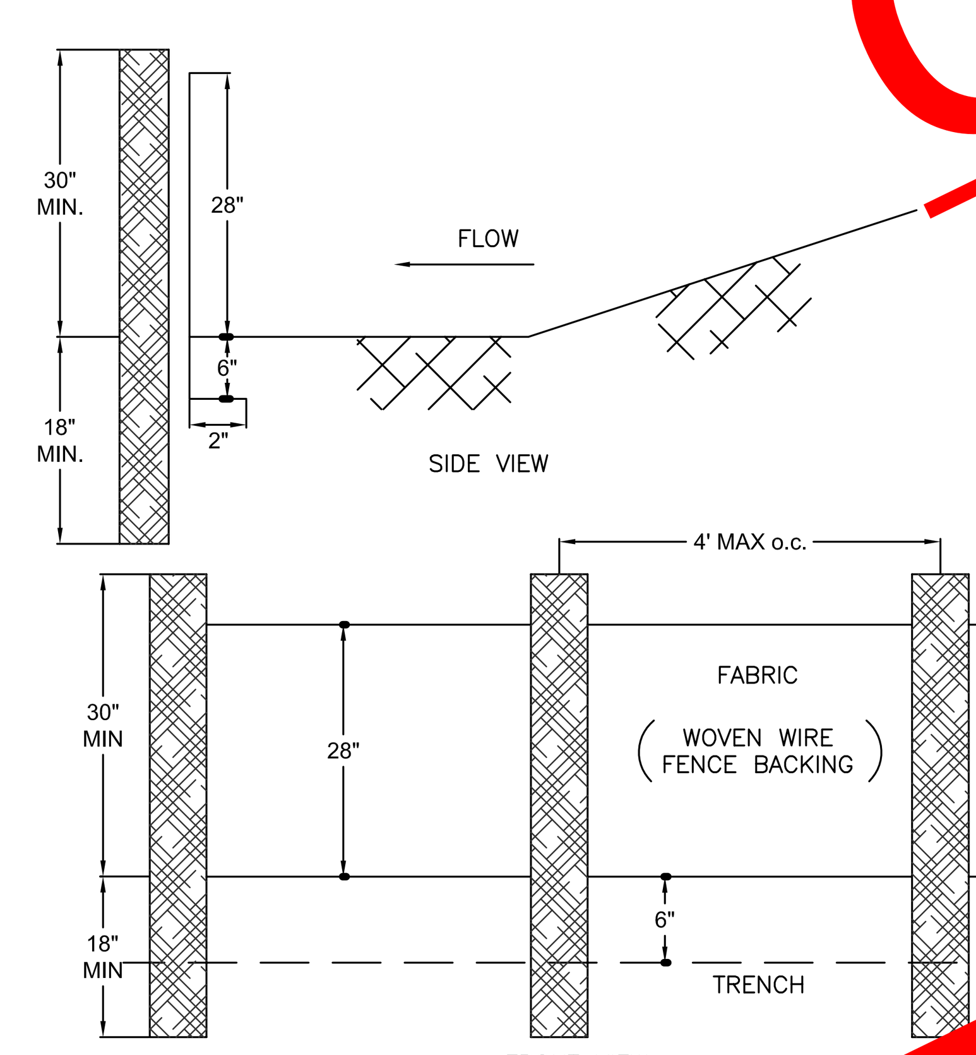
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS TO FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS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

Mb EROSION CONTROL MATTING & BLANKETS

NTS

GRADED RIP-RAP STONE					
		SIZE INCHES (SQ. OPENING)			
FLOW VELOCITY	N.S.A. No.	MAX.	AVG.	MIN.	FILTER STONE
6.5 [illegible]	R-3	6	3	2	FS-2
FILTER BEDDING STONE					
		SIZE INCHES (SQ. OPENING)			
	N.S.A.	MAX.	AVG.	MIN.	
DOT GRADED RIP-RAP STONE					
		SIZE INCHES (SQ. OPENING)			
	DOT No.	MAX.	AVG.	MIN.	COMMON USES
	TYPE 3	12	9	5	CREEK BANK PIPE OUTLETS

- FIGURES BASED ON NATIONAL STONE ASSOCIATION
- AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN THIS LISTED SIZE.



NOTE:
USE 36" D.O.T. APPROVED FABRIC.
USE STEEL POSTS.

Sd1-C SILT FENCE - TYPE C

NO SCALE

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
MATERIALS AND RATES:

MATERIAL	RATE
STRAW OR HAY	2-4" DEEP
WOOD WASTE, CHIPS, SAW DUST OR BARK	2-3" DEEP(ABOUT 6-9 TONS/ACRE
MATTING OR NETTING	ACCORDING TO MANUFACTURERS RECOMMENDATIONS
CUTBACK ASPHALT	1200 GALLONS/ACRE (1/4 GAL./SQ YD)
POLYETHYLENE FILM	COMPLETELY COVER ACRE

GENERAL NOTES:
1. USE PIEDMONT PLANTING DATES
2. FROM 6/15 TO 9/1 USE SEEDING RATES FOR TEMPORARY SEEDING AND SEED PERMANENTLY IN THE FALL.
3. AFTER SEEDING, MULCH SHALL BE APPLIED AT A RATE OF 2 1/2 TONS/ACRE

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)
SEEDING RATES FOR TEMPORARY SEEDINGS

SPECIES		RATE PER 1,000 SQ FT	RATE PER ACRE 2	PLANTING DATES		
				Mts.	Piedmont	Coastal
RYE	(ALONE)	3.9 POUNDS	3 bu.	[illegible] 15-12/1	[illegible]	9/1-3/[illegible]
	(IN MIXTURES)	0.6 POUNDS	1/2 bu.			
ANNUAL RYEGRASS		0.9 POUND	[illegible] lbs.	8/1-5/1	[illegible] 4/15	8/15-4/1
ANNUAL LESPEDEZA	(ALONE)	0.9 POUNDS	40 lbs.	[illegible]/1-5/1	[illegible] 5-5/1	1/15-[illegible] 15
	(IN MIXTURES)	0.2 POUNDS	10 lbs.			
WEEPING LOVEGRASS	(ALONE)	0.1 POUNDS	4 lbs.	3/[illegible]	[illegible]/15-6/15	2/15-6/15
	(IN MIXTURES)	0.05 POUNDS	2 lbs.			
SUDANGRASS		1.4 POUNDS	60 lbs.	4/1-9/1	4/1-9/1	3/1-8/1
BROWNTOP MILLET	(ALONE)	0.9 POUNDS	40 lbs.	4/[illegible]-7/1	4/1-7/15	4/1-7/15
	(IN MIXTURES)	0.2 POUNDS	10 lbs.			
WHEAT	(ALONE)	4.1 POUNDS	3 bu.	9/1-1/1	9/1-1/1	9/15-2/1
	(IN MIXTURES)	0.7 POUNDS	1/2 bu.			

[1] TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDED TOO HEAVILY.
[2] REDUCE SEEDING RATES BY 50% WHEN DRILLED.

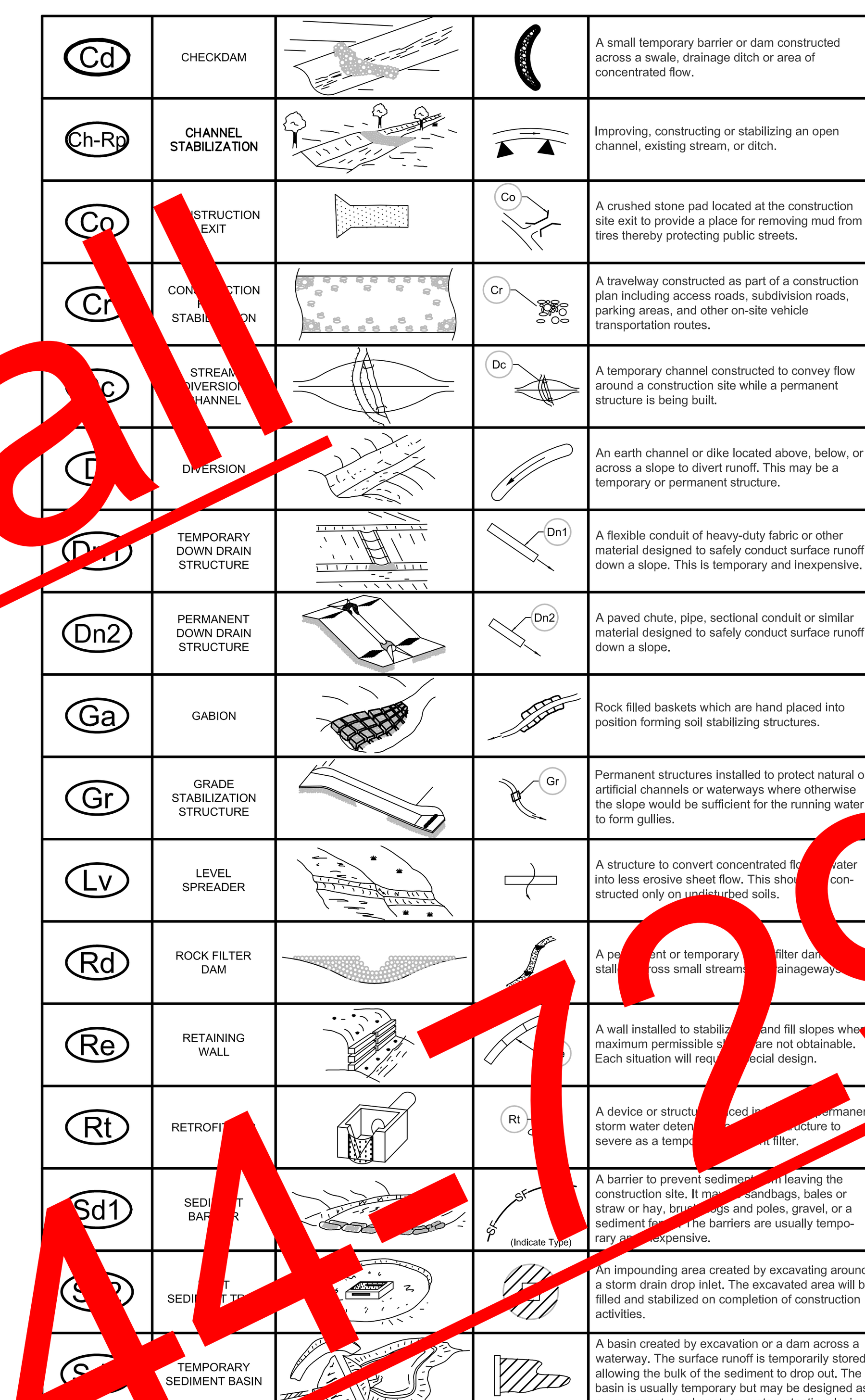
Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

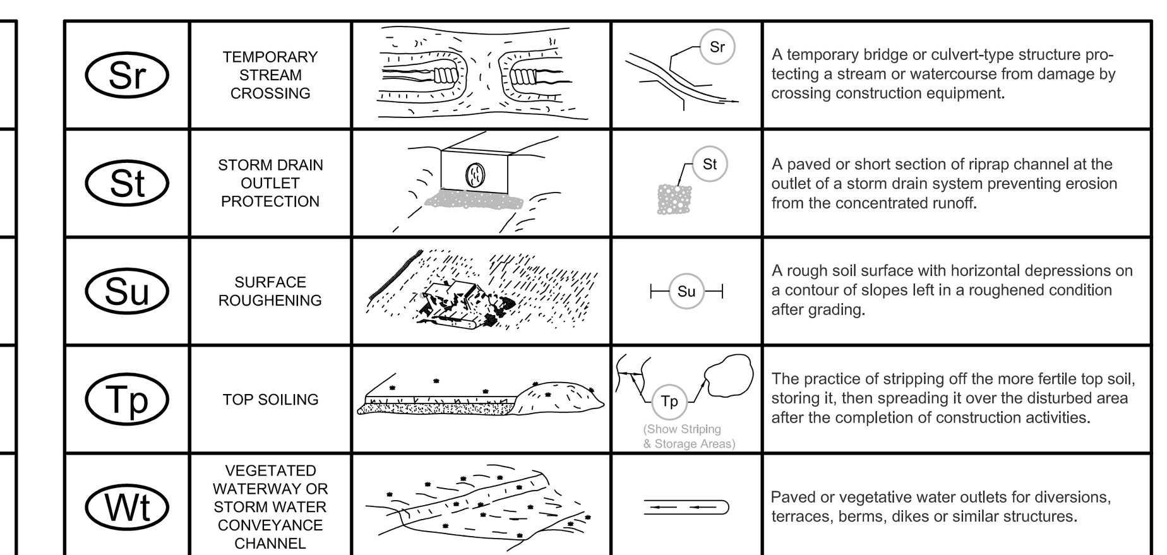
NOTE: AGRICULTURAL LIME IS REQUIRED FOR ALL GRADED AREAS AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS DETERMINE OTHERWISE.

SPECIES	RATE PER 1,000 SQ FT	RATE PER ACRE 1	PLANTING DATES Mts.-L'stone	Piedmont	Coastal	YEARS TO APPLY FERTILIZER	FERTILIZER ANALYSIS N	P	K	RATE *	N TOP-DRESSING RATE *
WEEPING LOVEGRASS AND VIRGATA OR SERICEA LESPEDEZA	[illegible] lbs. / 1.4 lbs.	4 lbs. / 40 lbs.	3/15-6/15 / 3/15-6/15	3/1-6/15 / 3/1-6/15	2/1-6/15 / 2/15-6/1	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
SERICEA LESPEDEZA SEED BEARING HAY WITH OVERSEEDED WEEPING LOVEGRASS	138 lbs. / 0.05 lbs.	3 tons / 2 lbs.	10/1-3/1 / 3/15-6/15	10/1-3/1 / 3/1-6/15	10/15-2/1 / 2/1-6/15	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS AND SERICEA LESPEDEZA	0.2 lbs. / 1.4 lbs.	10 lbs. / 60 lbs.	3/1-7/1 / 3/15-6/15	2/15-7/1 / 3/1-6/15	2/15-6/15	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
UNHULLED COMMON BERMUDAGRASS AND VIRGATA OR SERICEA LESPEDEZA SEED HAY	0.2 lbs. / 1.4 lbs. / 140 lbs.	10 lbs. / 40 lbs. / 3 tons	10/1-3/1 / 3/15-6/15 / 10/1-3/1	11/1-2/1 / 3/1-6/15 / 10/1-3/1	2/15-6/1 / 10/15-2/1	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
TALL FESCUEGRASS AND CLEAN COMBINE RUN VIRGATA OR SERICEA LESPEDEZA	1.1 lbs. / 1.4 lbs.	50 lbs. / 40 lbs.	8/1-11/1, 3/1-4/15 / 3/15-6/15	8/15-11/1 / 3/1-6/15	2/15-6/1	FIRST	6	12	12	1500	0-50 IN SPRING
						SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS	0.2 lbs.	10 lbs.	3/1-7/1	2/15-7/1		FIRST	6	12	12	1500	50-100
						SECOND	10	10	10	800	50-100

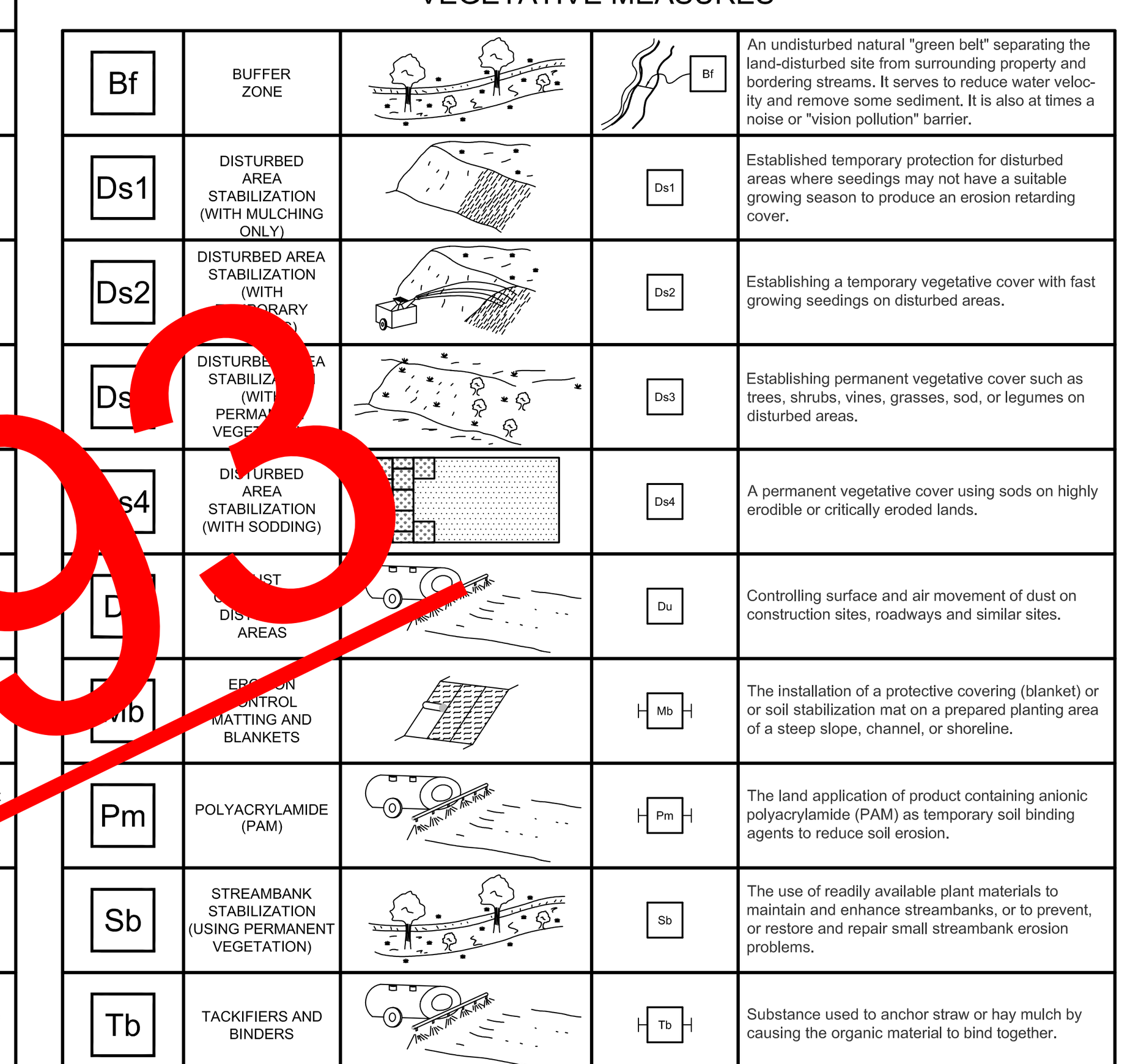
1. REDUCE SEEDING RATES BY 50% WHEN DRILLED.
* FERTILIZER/N TOP-DRESSING RATES INDICATED ARE IN LBS/ACRE.

STRUCTURAL PRACTICES



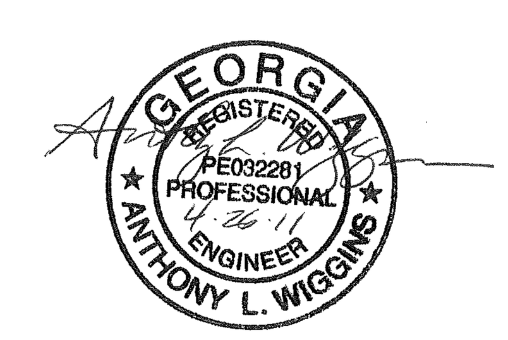


VEGETATIVE MEASURES



NOTE: THIS LEGEND DEPICTS THE GENERAL PRACTICES. SOME OF THESE PRACTICES HAVE SPECIFIC METHODS THAT APPLY TO CERTAIN CIRCUMSTANCES. THESE SPECIFIC MEASURES ARE CALLED OUT IN THE PLANS BY USING THE EROSION CONTROL SYMBOL, FOLLOWED BY A SUFFIX. PLEASE REFER TO THE CONSTRUCTION DETAILS FOR SPECIFIC EROSION CONTROL PRACTICE CLARIFICATIONS.

GENERAL EROSION CONTROL PRACTICES



CERM
2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186

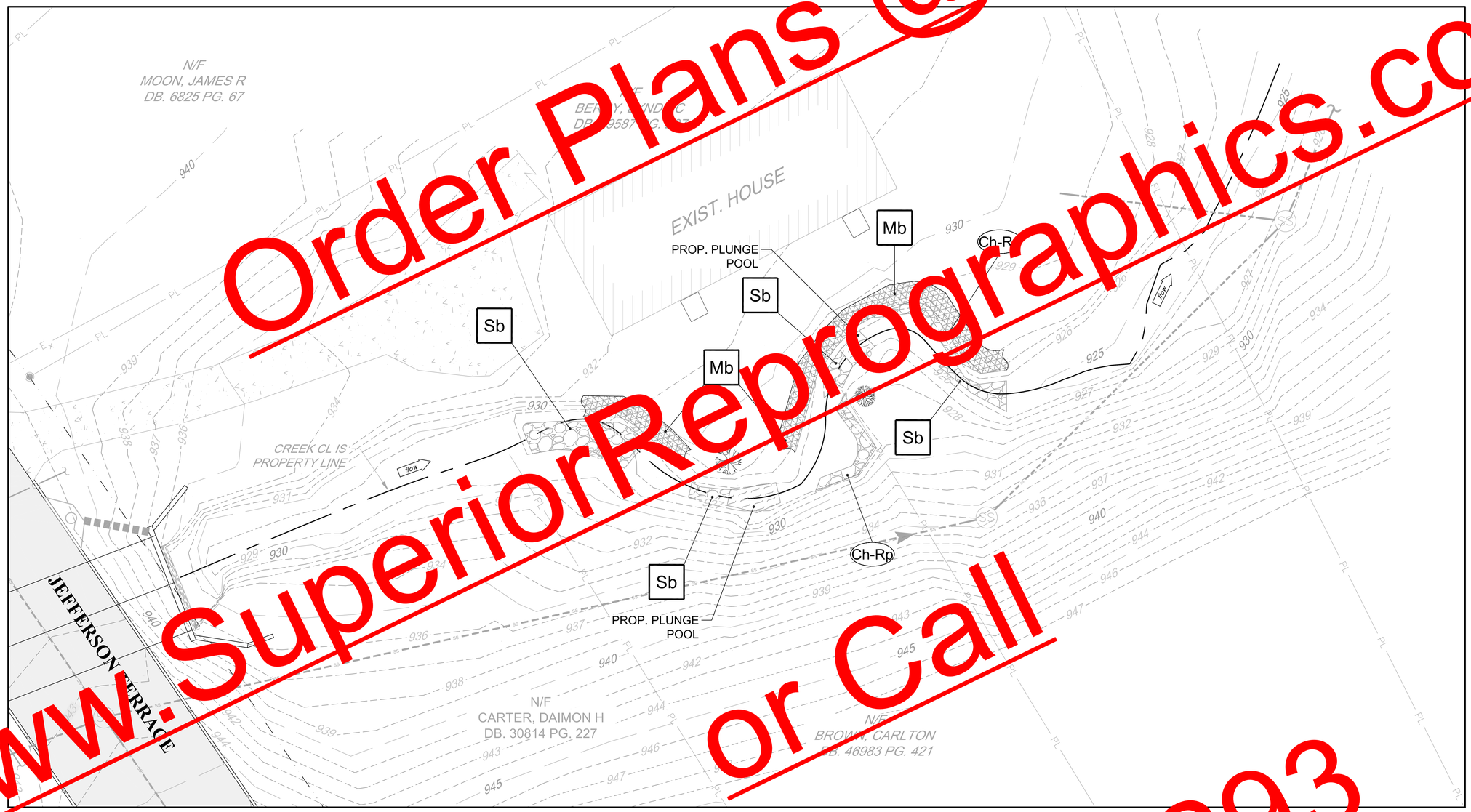
CLIENT: CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT: JEFFERSON TERRACE STREAM CHANNEL STABILIZATION

DESIGNED BY: A.L.W.
DRAWN BY: A.L.W.
DATE: 2/11/2011
PROJ NO. 11-1233-003

SHEET TITLE
EROSION CONTROL DETAILS

DRAWING NO.
8.0



STREAM CHANNEL PROTECTION PLAN

SCALE: 1" = 10'

LEGEND

PL — PROPERTY LINE	WATER METER
G_x — GAS LINE	WATER VALVE
RIGHT-OF-WAY	DOUBLE WING CATCH BASIN
STORM DRAIN	SPOT ELEVATION
SS_x — SAN. SEWER LINE	MAILBOX
W_x — WATER LINE	CATCH BASIN
E_x — OVERHEAD ELECTRIC LINE	FIRE HYDRANT
EU_x — UNDERGROUND ELECTRIC LINE	IRON PIN FOUND
FENCE LINE	ROADWAY SIGN
CREEK CENTERLINE	GUY WIRE
FLOW DIRECTION	POWER POLE
	SANITARY SEWER CLEAN OUT
	SANITARY SEWER MAN HOLE
	SANITARY SEWER FLOW DIRECTION
	PAVEMENT

ABBREVIATIONS

PL	PROPERTY LINE
R/W	RIGHT OF WAY
SSMH	SANITARY SEWER MANHOLE
WV	WATER VALVE
WM	WATER METER
I.E.	INVERT ELEVATION
ELEV	ELEVATION
N/F	NOW OR FORMERLY
DB PG	DEED BOOK, PAGE NUMBER
HW	HEADWALL
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
CB	CATCH BASIN
JB	JUNCTION BOX
DI	DROP INLET
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORID PIPE
DIP	DUCTILE IRON PIPE
LAT	SEWER LATERAL
TYP	TYPICAL
CL	CENTERLINE
FFE	FINISHED FLOOR ELEVATION
IPF	IRON PIN FOUND
TOPO	TOPOGRAPHY

N
W GRID E
S

GRAPHIC SCALE

10 0 10 20 40

(IN FEET)
GRAPHIC SCALE: 1 INCH = 10 FT.

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA REGISTERED PE003281 PROFESSIONAL ENGINEER ANTHONY L. WIGGINS

Revisions

No.	Description	Date

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

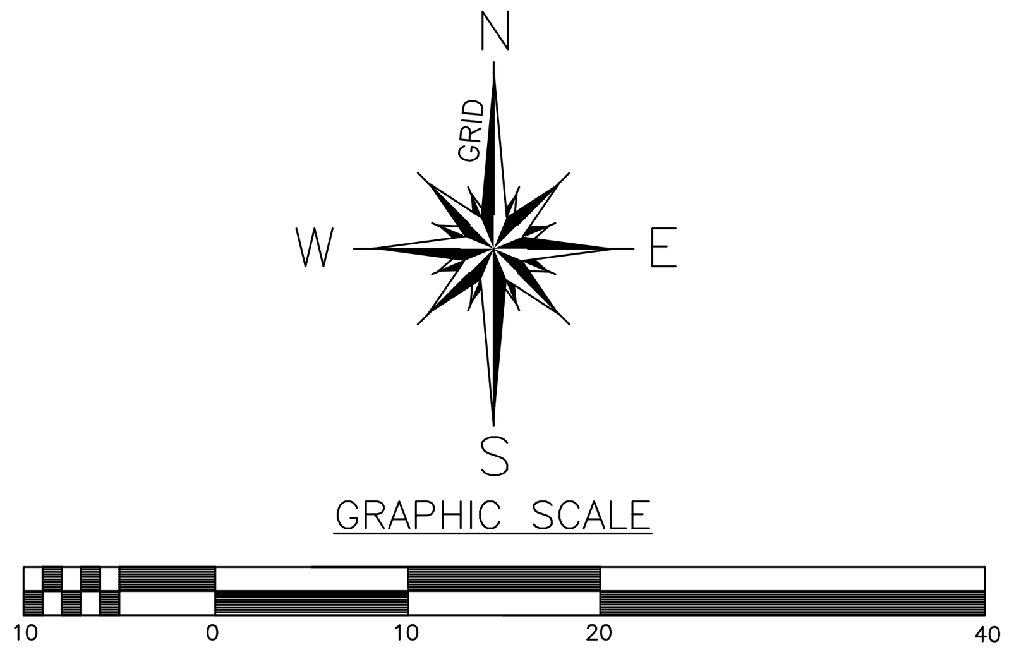
CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

DESIGNED BY: A.L.W.
DRAWN BY: A.L.W.
DATE: 09/13/2011
PROJ NO. 11-1233-003

SHEET TITLE
STREAM CHANNEL PROTECTION PLAN

DRAWING NO.
9.0



STREAM CROSS SECTION PLAN VIEW

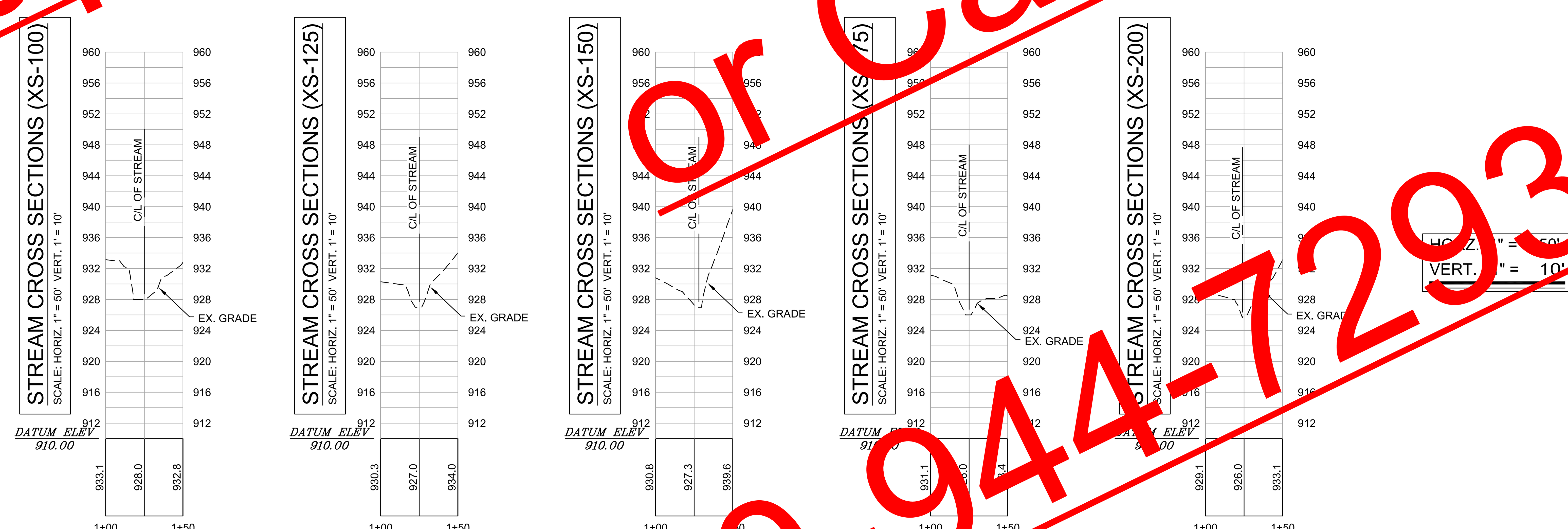
SCALE: 1" = 10'

ABBREVIATIONS

PL	PROPERTY LINE
R/W	RIGHT OF WAY
SSMH	SANITARY SEWER MANHOLE
WV	WATER VALVE
WM	WATER METER
I.E.	INVERT ELEVATION
ELEV	ELEVATION
N/F	NOW OR FORMERLY
DB PG	DEED BOOK PAGE NUMBER
HW	HEADWALL
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
CB	CATCH BASIN
JB	JUNCTION BOX
[illegible]	DROP INLET
[illegible]CP	REINFORCED CONCRETE PIPE
[illegible]MP	CORRUGATED METAL PIPE
[illegible]C	POLYVINYL CHLORID PIPE
[illegible]	DUCTILE IRON PIPE
[illegible]	SEWER LATERAL
[illegible]	TYPICAL
[illegible]	CENTERLINE
[illegible]	FINISHED FLOOR ELEVATION
[illegible]	IRON PIN FOUND
TOPO	TOPOGRAPHY

LEGEND

PROPERTY LINE	WATER METER
GAS LINE	WATER VALVE
RIGHT-OF-WAY	DOUBLE WING CATCH BASIN
STORM DRAIN	SPOT ELEVATION
SAN. SEWER LINE	MAILBOX
WATER LINE	CATCH BASIN
OVERHEAD ELECTRIC LINE	FIRE HYDRANT
UNDERGROUND ELECTRIC LINE	IRON PIN FOUND
FENCE LINE	ROADWAY SIGN
CREEK CENTERLINE	GUY WIRE
FLOW DIRECTION	POWER POLE
	SANITARY SEWER CLEAN OUT
	SANITARY SEWER MAN HOLE
	SANITARY SEWER FLOW DIRECTION
	PAVEMENT



STREAM CROSS SECTION PROFILE VIEWS

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'

CALL BEFORE YOU DIG!
UTILITIES PROTECTION CENTER
1 (800) 282-7411 THROUGHOUT GEORGIA
OUTSIDE GEORGIA CALL COLLECT (770) 325-5000

GEORGIA REGISTERED PROFESSIONAL ENGINEER PE032281 ANTHONY L. WIGGINS

Date	No.	Description

Revisions

2296 Henderson Mill Road
Suite 200
Atlanta, GA 30345
Phone: (678) 999-0173
Fax: (678) 999-0186
CERM
CORPORATE ENVIRONMENTAL RISK MANAGEMENT

CLIENT:
CITY OF EAST POINT
1526 E. FORREST AVENUE, SUITE 400
EAST POINT, GEORGIA
WWW.EASTPOINTCITY.ORG

PROJECT:
JEFFERSON TERRACE
STREAM CHANNEL
STABILIZATION

DESIGNED BY: A.L.W.
DRAWN BY: A.L.W.
DATE: 23/11/2011
PROJ NO. 11-1233-003

SHEET TITLE
STREAM CHANNEL PROFILES

DRAWING NO.
10.0