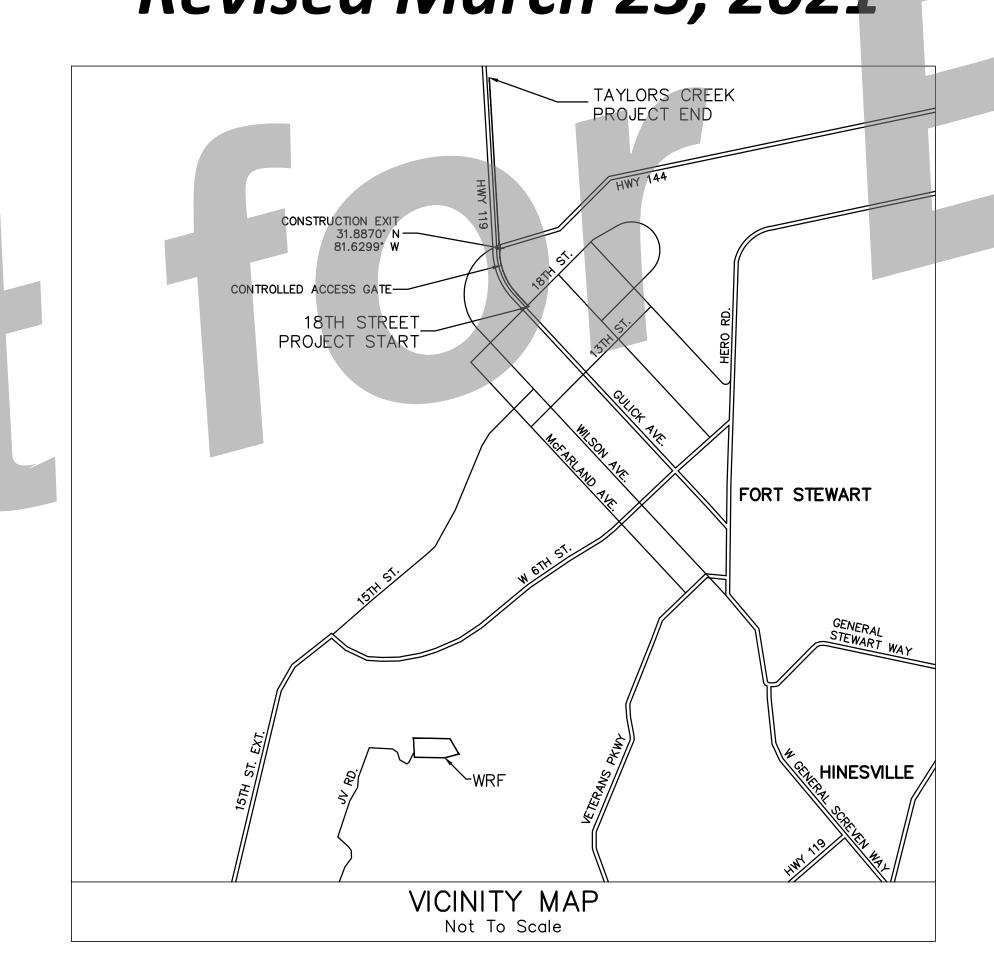
# Non-Potable Reuse Line Extension to Taylors Creek

for

# The City of Hinesville

# Ft. Stewart

# Liberty County, Georgia June 9, 2020 Revised March 23, 2021



# Utilities Protection Center Know what's below. Call before you dig. Dial 811 Three Working Days BEFORE You Dig Safe digging is a SHARED responsibility and in Georgia its the law 811 or 1-800-282-7411

# 1. ALL CONSTRUCTION EQUIPMENT ENTERING FORT STEWART WILL BE REQUIRED TO ACCESS THROUGH THE 15TH STREET GATE (ACP 7). ONCE THE EQUIPMENT IS STAGED ON FORT STEWART THE CONTRACTOR WILL NOT BE REQUIRED TO ACCESS ACP 7 DAILY FOR CHECKS AND INSPECTIONS, HOWEVER IF THE EQUIPMENT LEAVES FORT STEWART ANY ACCESS BACK ONTO FORT STEWART WILL REQUIRE CHECKING AND INSPECTION AT ACP 7. ANY ACCESS THROUGH THE VETERANS PARKWAY GATE (ACP 8) SHALL REQUIRE SPECIAL COORDINATION WITH DES SECURITY DIVISION.

- 2. THE CONTRACTOR MUST OBTAIN VEHICLE PASSES FOR COMPANY/OFFICIAL VEHICLES. NO PERSONAL VEHICLES BELONGING TO CONSTRUCTION WORKERS WILL BE ALLOWED ON FORT STEWART FOR THIS PROJECT. ALL VEHICLES ENTERING WITH WORKERS WILL BE PERMITTED CONTRACTOR VEHICLES REGISTERED WITH THE FEDERAL GOVERNMENT. ALL WORKERS ENTERING FORT STEWART MUST HAVE A VALID PICTURE IDENTIFICATION.
- 3. DES SECURITY WILL REQUIRE AT LEAST THREE WEEKS NOTICE PRIOR TO UTILITY OR ROADWAY CONSTRUCTION OUTSIDE OF THE SITE BEGINNING TO ALLOW FORT STEWART RESIDENTS AND PERSONNEL TO BE NOTIFIED OF THE ANTICIPATED TRAFFIC CONGESTION. NO ROADWAY FULL OR PARTIAL CLOSURES FOR PAVEMENT CUTS WILL BE ALLOWED BETWEEN 05:00 TO 09:00, 11:00 TO 13:30 AND 16:00 TO 18:30, WEEKDAYS.
- 4. LIGHTING MUST BE MAINTAINED AT THE SITE DURING CONSTRUCTION. IF DAMAGED BY THE CONTRACTOR, THE CONTRACTOR MUST INSTALL TEMPORARY LIGHTING THAT PROVIDES THE SAME LUMINA VALUES AS THE EXISTING LIGHTS UNTIL SUCH TIME AS THE LIGHTING IS RESTORED.
- 5. KEYS AND LOCKS FOR ALL GATES WILL BE MAINTAINED BY ESG OPERATIONS.
- 6. ANY UTILITY AND ROADWAY WORK ON FORT STEWART WILL BE COORDINATED WITH DES SECURITY DIVISION.
- 7. THE CONTRACTOR SHALL REPLACE ALL MONUMENTS ALTERED OR DESTROYED BY THE CONSTRUCTION. THE REPLACED MONUMENT SHALL BE BY A GA RLS AND CERTIFIED TO FORT STEWART TO MEET FEDERAL STANDARDS
- 8. ALL TIMBER REMOVAL AND CLEARING ON FORT STEWART WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING. ALL ABOVE GROUND TIMBER WILL BE TRANSPORTED AND STOCKPILED AT THE FORT STEWART CHIPPING SITE WITHIN THE SECURE AREA. ALL BELOW GROUND TIMBER (STUMPS AND ROOTS) SHALL BE DISPOSED OF AT A PERMITTED SITE. THE CONTRACTOR SHOULD ANTICIPATE THE DISPOSAL SITE WILL BE OFF FORT STEWART AND ACCESS BACK IN WILL BE THROUGH ACP 7.
- 9. NO BORROW MATERIAL IS AVAILABLE ON FORT STEWART. ALL BORROW MATERIAL TRANSPORTED ONTO FORT STEWART WILL BE THROUGH ACP 7.
- 10. ALL SIGNS LOCATED ON THE INSTALLATION WILL BE MANAGED BY FORT STEWART DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE REMOVAL AND ADJUSTMENT OF SIGNS BY PROVIDING FORT STEWART OFFICIALS AT LEAST ONE WEEKS NOTICE OF SIGNS REQUIRING RELOCATION.
- 11. PROJECT MEETINGS WILL BE HELD WEEKLY TO REVIEW CONSTRUCTION STATUS, SECURITY ISSUES AND COORDINATION WITH FT STEWART DPW AND SECURITY
- 13. THE CONTRACTOR WILL BE REQUIRED TO PREPARE AND SUBMIT A SAFETY PLAN TO FT STEWART.
- 14. ANY WORK OUTSIDE OF THE SCOPE OF THE PLANS SHOWN WILL REQUIRE SECURITY APPROVAL PRIOR TO BEGINNING.
- 15. ARCHEOLOGICAL OR CULTURAL DISCOVERIES DURING CONSTRUCTION WILL IMMEDIATELY BE REPORTED TO FORT STEWART.
- 16. NO RIGHT OF WAY EXIST ON FORT STEWART. THE CONTRACTORS LIMITS OF DISTURBANCE, UNLESS OTHERWISE SPECIFICALLY INDICATED, SHALL BE LIMITED TO 10' OUTSIDE THE UTILITY MAINS BEING INSTALLED.
- 17. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN PICTURE IDENTIFICATION CARDS FOR ALL PERSONNEL ENTERING FT STEWART
- 18. ALL EROSION AND SEDIMENT CONTROL ON THE PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL MANUAL FOR GEORGIA.
- 19. THE WASTEWATER TREATMENT PLANT AND REUSE WATER SYSTEM MUST CONTINUE OPERATION FOR THE DURATION OF THE PROJECT. CLOSE COORDINATION WITH OPERATIONS PERSONNEL IS REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES OR EXPENSE OF OPERATIONS CAUSED BY INTERRUPTION, BY THE CONTRACTOR, OF ANY OPERATIONS TO MAINTAIN INTEGRITY OF THE TREATMENT PROCESS. INTERRUPTION OF THE PLANT OPERATIONS WILL NOT BE TOLERATED.
- 20. EXCEPT IN AN EMERGENCY, OPERATION OF ANY ISOLATION OR PROCESS VALVES OR EQUIPMENT CAN ONLY BE PERFORMED BY OPERATIONS PERSONNEL.
- 21. RELOCATION OF EQUIPMENT WILL REQUIRE COORDINATION WITH OPERATIONS PERSONNEL.
- 22. REHAB MATERIALS WILL MATCH NEW MATERIALS AS IT RELATES TO LOOKS AND PERFORMANCE.

# **SHEET INDEX:**

# DESCRIPTION 1. OVERALL PLAN 2. PLANS & PIPE PROFILES

2. PLANS & PIPE PROFILES
3. LOW PROFILE CASCADE AERATOR DETAIL
4. E&S PLANS
5. E&S NOTES & DETAILS
SHEETS 10-13
SHEETS 14-15

SHEET

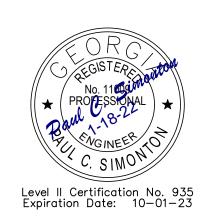
SHEET 1

# **GENERAL NOTES**

- ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION.
   THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND
   PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
- 2. ALL DISTURBED AREAS TO BE RE-VEGETATED IMMEDIATELY AFTER
  CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT
  CONTROL IN GEORGIA
- 3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
- 5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL GUCC, CURRENT EDITION.
- 6. ALL STREET AND INFRASTRUCTURE INSTALLATION TO BE IN ACCORDANCE WITH CITY OF HINESVILLE STANDARDS.

OWNER/AGENT
CITY OF HINESVILLE
KENNETH HOWARD, CITY MANAGER
115 EAST M.L. KING JR. DRIVE
HINESVILLE, GA 31313
TEL: (912) 876-3564
FAX: (912) 369-2416





**JOB NO. 2017-100PRJ** 

REVISION NO.	DATE	DESCRIPTION
1	12-17-18	PER GDOT COMMENTS
2	8-3-2020	TO UPDATE ES&PC DETAILS
3	12-20-20	ADDRESS E&S COMMENTS
4	2-6-21	RELOCATE RE-AERATION STRUCTURE OUT OF FLOOD PLAIN
5	3-23-21	UPDATE DISTURBED ACREAGE

# **GENERAL NOTES:**

- 1. TOTAL PROJECT ACRES = 2.46 AC 2. EROSION AND SEDIMENT CONTROL TO BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT
- CONTROL IN GEORGIA". 3. ALL DISTURBED AREAS ARE TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION IN ACCORDANCE WITH THE PUBLICATION ENTITLED
- SEDIMENT CONTROL IN GEORGIA". 4. THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR

"MANUAL FOR EROSION AND

DISTURBING ACTIVITIES. 5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY

TO OR CONCURRENT WITH LAND

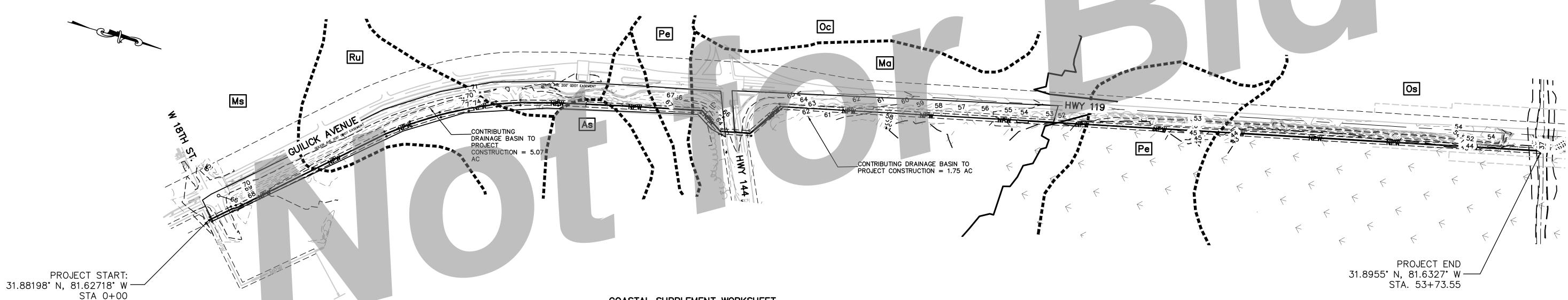
- BY ON SITE INSPECTION. 6. RIPRAP WILL BE USED TO STABILIZE DITCH BANKS IN AREAS WHERE STORM WATER FLOW
- CHANGES DIRECTION OR SLOPES ALLOW VELOCITY TO EXCEED 2 FT/SEC. 7. UTILITY AND STREET INSTALLATION

TO BE IN ACCORDANCE WITH THE

- CITY OF HINESVILLE STANDARD SPECIFICATIONS. 8. NO RIGHT-OF-WAY PRESENT ON FT. STEWART
- 9. TRAFFIC CONTROL TO BE IN ACCORDNACE WITH THE CURRENT MUTCD.
- 10. REUSE LINE TO BE INSTALLED USING A COMBINATION OF TRENCHING AND BORING.

	LEGEND FOR EROSION AND SEDIMENT CONTROL PRACTICES										
CODE	PRACTICE	DESCRIPTION									
(0)	CONSTRUCTION EXIT	A STONE PAD LOCATED AT THE JOB SITE EXIT TO REMOVE MUD AND DEBRIS FROM TIRES AND PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.									
Ch	CHANNEL STABILIZATION	LOOSE ROCK OR SIMILAR DURABLE MATERIAL INSTALL ON SLOPES FOR PROTECTION FROM EROSION CAUSED BY WATER TURBULENCE OR HIGH VELOCITIES.									
Sd1)	SILT FENCE (SEE DETAIL TYPE)	A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED.									
(Sd2)	SEDIMENT TRAP	EXCAVATING AROUND A STORM DRAIN, DROP INLET TO CATCH SEDIMENT.									
(St)	STORM DRAIN OUTLET PROTECTION	PAVED OR ROCK SECTION BELOW A STORM DRAIN OUTLET FOR PROTECTION FROM EROSION CAUSED BY WATER TURBULENCE OR HIGH VELOCITIES.									
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS NOT PRODUCED ON THE SITE TO THE SOIL SURFACE SUCH AS GRAIN STRAW, HAY, PINE NEEDLES WOOD WASTE AND SHREDDED RESIDUES.									
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)	ESTABLISHING TEMPORARY VEGETATIVE COVER SUCH AS RYE, SUDANGRASS, WHEAT, OR RYEGRASS ON DISTURBED AREAS.									
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.									
CP-	CHECK DAM – (HAYBALE TYPE)	SMALL TEMPORARY BARRIER, GRADE CONTROL STRUCTURE, OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRETED FLOW.									

DRAW	NG LEGEND	
DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER		SS
UNDERGROUND WATER LINE	w	w
FORCE MAIN	FM	FM
STORM DRAINAGE PIPE		
UNDERGROUND TELEPHONE LINE	Т ——	— т
UNDERGROUND TELEPHONE CONDUIT	тс	тс
UNDERGROUND GAS LINE	12"G	
DITCH CENTERLINE		
TOP OF CURB & GUTTER ELEVATIONS	TC=90.00 G=89.50	EX TC=90.00 EX G=89.50
SPOT ELEVATION		
FIRE HYDRANT	*	76
SEWER MANHOLE	<b>S</b>	S
WATER VALVE		wv 
TELEPHONE MANHOLE		
LIGHT POLE	<b>\$</b>	¢.
SIGN	<del></del>	
WATER METER		
BENCHMARK	<b>•</b>	<b>◆</b>
CONCRETE MONUMENT FOUND	'	
GUY POLE		-0
IRON PIN FOUND		•
IRON PIN SET	•	
TELEPHONE PEDESTAL		
POWER POLE		-
HANDICAP SPACE	Ę,	گ
SEDIMENT BASIN MARKER W/NOTCH	SM SM	



## **EROSION CALCULATIONS**

DISTURBED AREA = 1.7 AC CONTRIBUTING DRAINAGE BASIN = 6.82 ACRES

SEDIMENT STORAGE REQUIRED: 6.82 AC X 67 CY/AC = 457 CY

SEDIMENT STORAGE PROVIDED: TOTAL LENGTH Sd1 = 4604 LF GSWCC REQUIRED SILT FENCE = 100' PER 1 ACRE SILT GENERATED PER ACRE = 67 CY  $67 \text{ CY/4} = 16.75 \text{ CY PER } \frac{1}{4} \text{ ACRE}$ 16.75 CY PER 100 LF =  $0.\overline{1}675$  CY PER FOOT .17 CY/LF X 4,604 LF = 782 CY

THERE WILL BE NO MASS GRADING RESULTING IN CHANGES OF CONTOUR LINES.

ALL BMPs ARE COMBINED INTO A SINGLE SET OF BMPs ONLY.

THE WETLANDS LOCATED INSIDE THE PROJECT AREA WILL BE DIRECTIONALLY BORED, MINIMIZING DISTURBANCES INSIDE THE DRAINAGE BASINS.

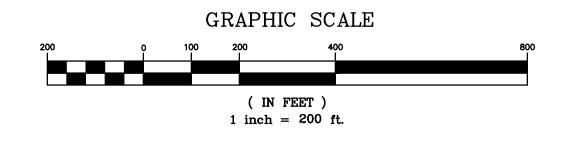
IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF A SEDIMENT BASIN ON THIS PROJECT IS NOT NECESSARY OR FEASIBLE. CONTRACTOR/OWNER WILL NOT HAVE ADEQUATE AREA ON THE PROJECT TO INSTALL A SEDIMENT BASIN. THE SEDIMENT BASIN INSTALLATION WOULD CREATE MORE LAND DISTURBANCE THAN THE PROPOSED PROJECT. ADDITIONALLY, SITE TOPOGRAPHY DOES NOT ALLOW FOR SITE DRAINAGE TO SEDIMENT BASINS WITHOUT INCREASING THE POTENTIAL FOR INCREASED EROSION ACROSS THE SITE. IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF THE BMPs IN THESE CONSTRUCTION PLANS, AND PROPER MAINTENANCE, SHOULD PROVIDE SUFFICIENT SEDIMENT STORAGE.

	SOILS SERIES LEGEND
As	ALBANY LOAMY FINE SAND, 0-2% SLOPE
Ма	MADARIN FINE SAND, 0-2% SLOPE
Ме	MASCOTTE FINE SAND, 0-2% SLOPE
Ms	MASCOTTE-URBAN LAND COMPLEX, 0-2% SLOPE
Ос	OCILLA LOAMY FINE SANDS
Os	OSIER AND BIBB SOILS
Ре	PELHAM LOAMY SAND, 0-2% SLOPES, FREQ. FLOODED
Ru	RUTLEGE FINE SAND

# COASTAL SUPPLEMENT WORKSHEET

THIS PROJECT IS AN INFRASTRUCTURE PROJECT AND ADDS ONLY 384 SY OF IMPERVIOUS AREA (RE-AERATION BASIN ENCLOSURE) TO THE SITE.

RUNOFF REDUCTION FOR 95TH PERCENTILE RAINFALL EVENT (1.94 INCH STORM EVENT) FOR THE PROJECT THAT CREATE OR ADD 5,000 SF OR GREATER OF NEW IMPERVIOUS SURFACE. NO CSS WORKSHEET PREPARED.

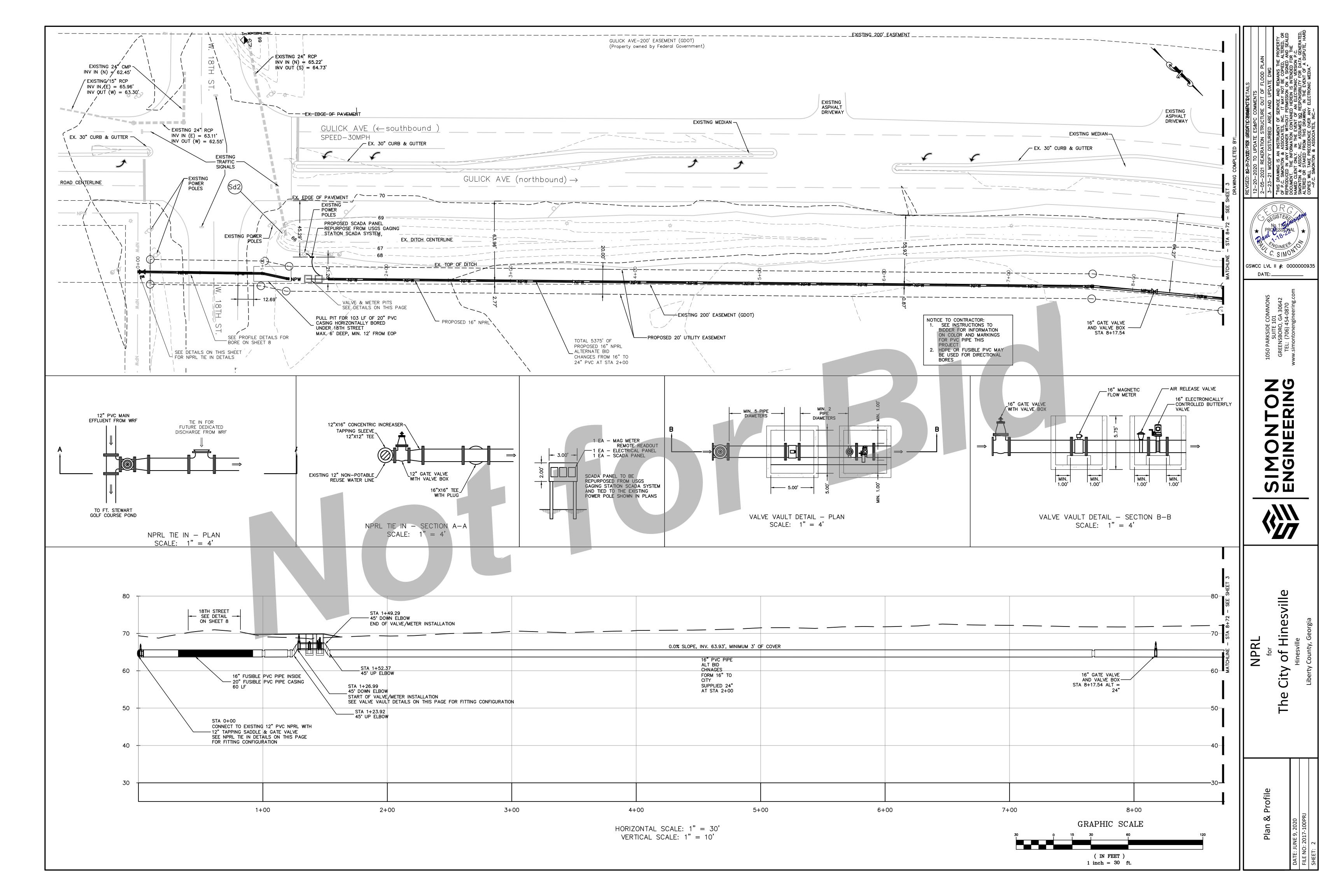


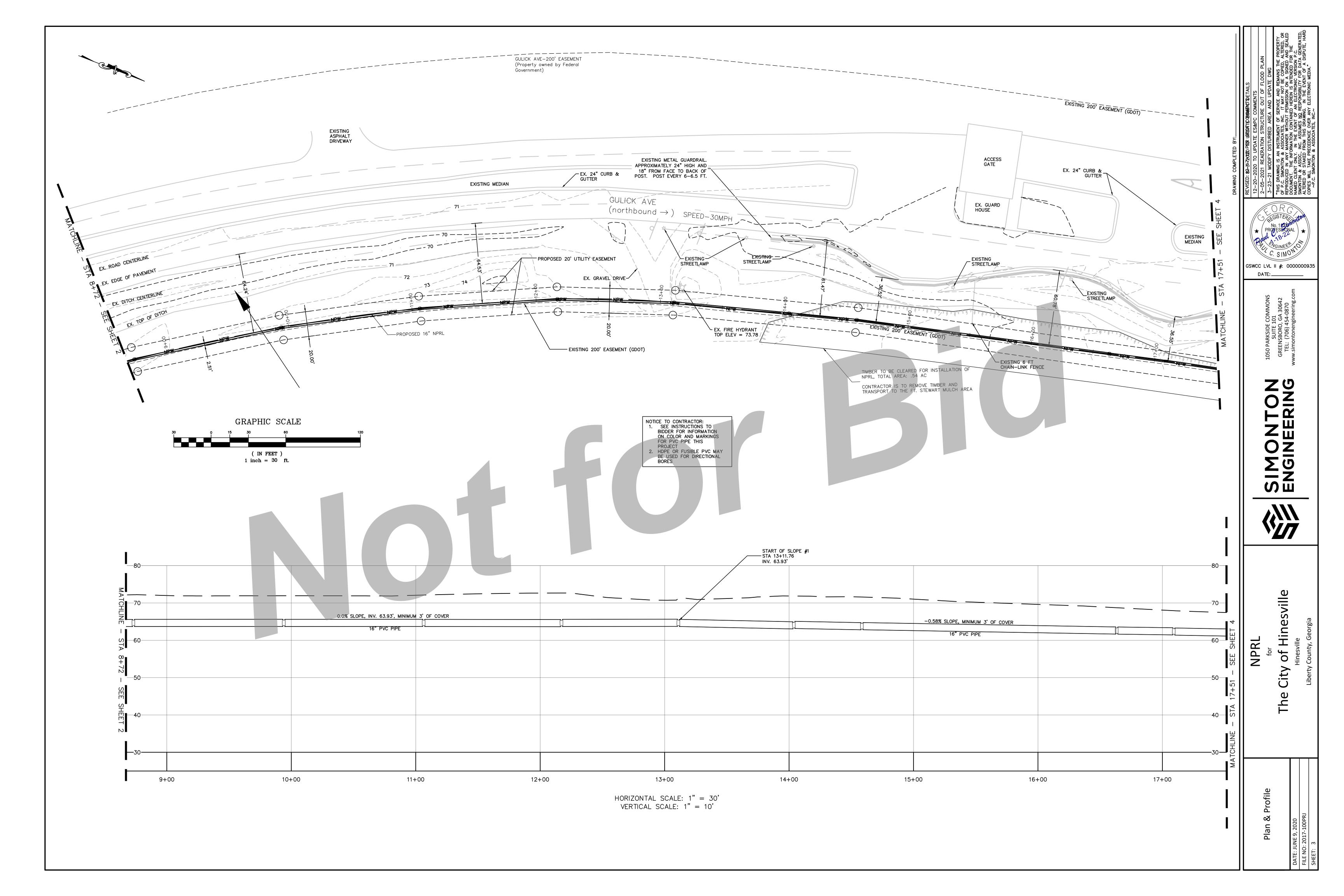
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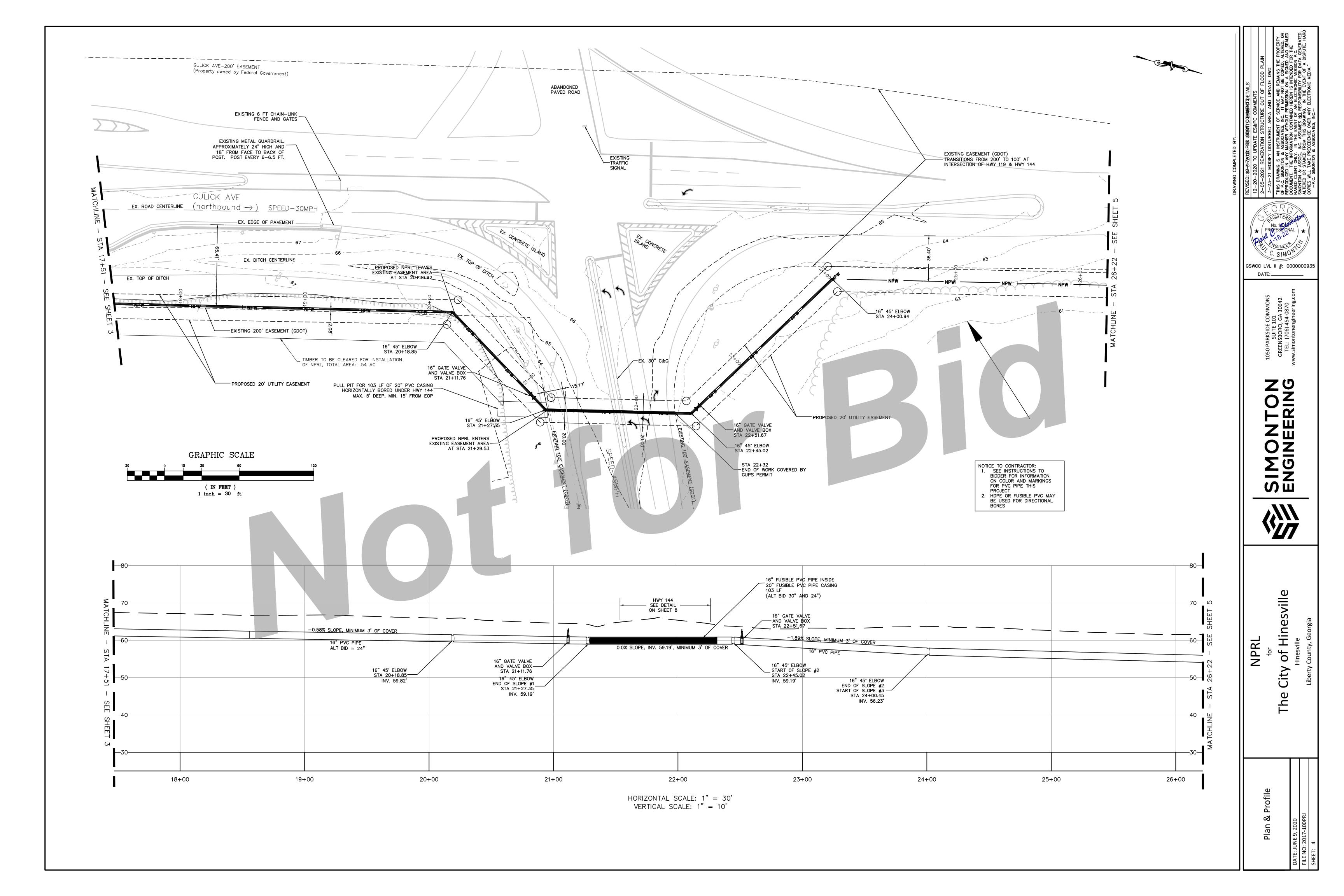
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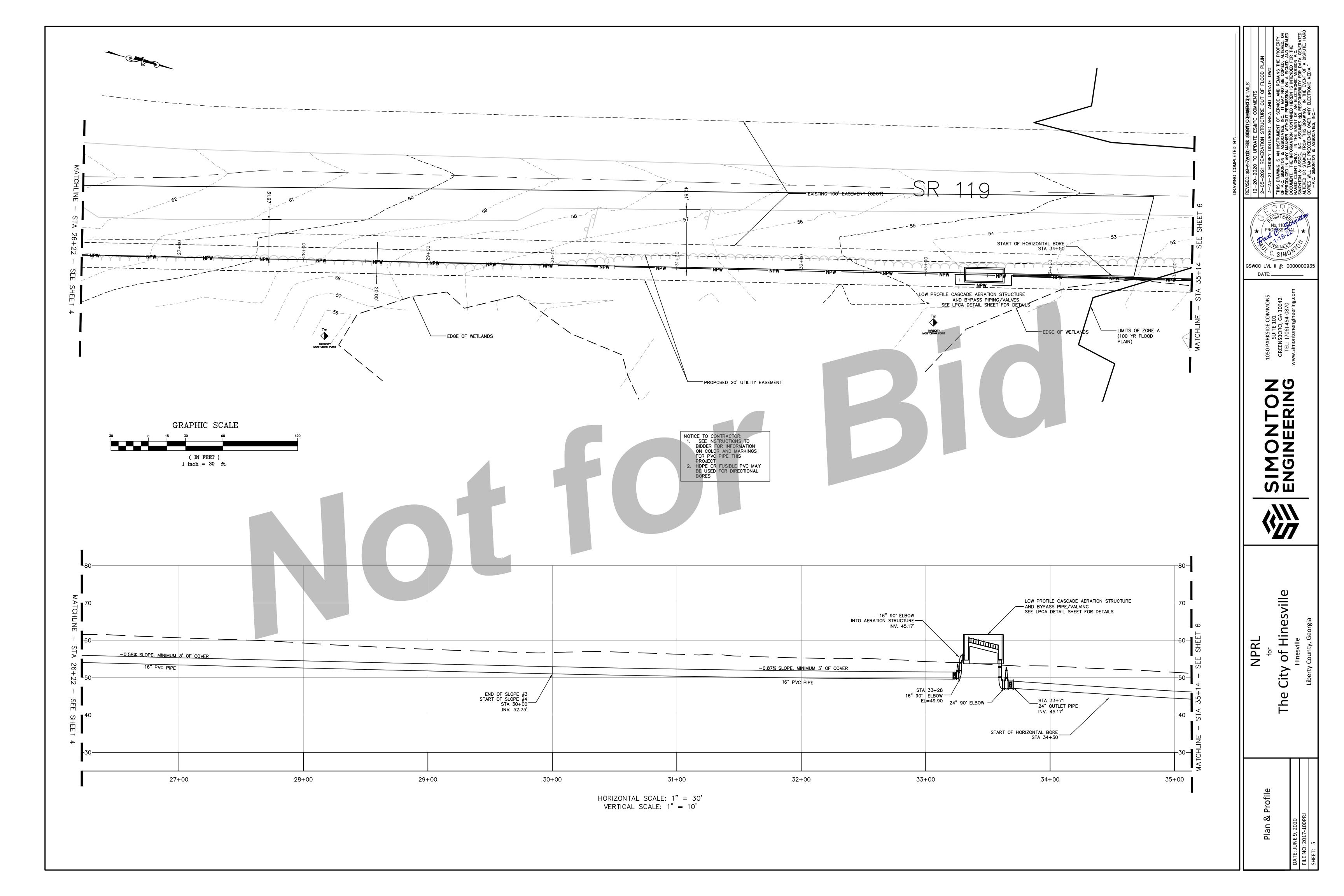
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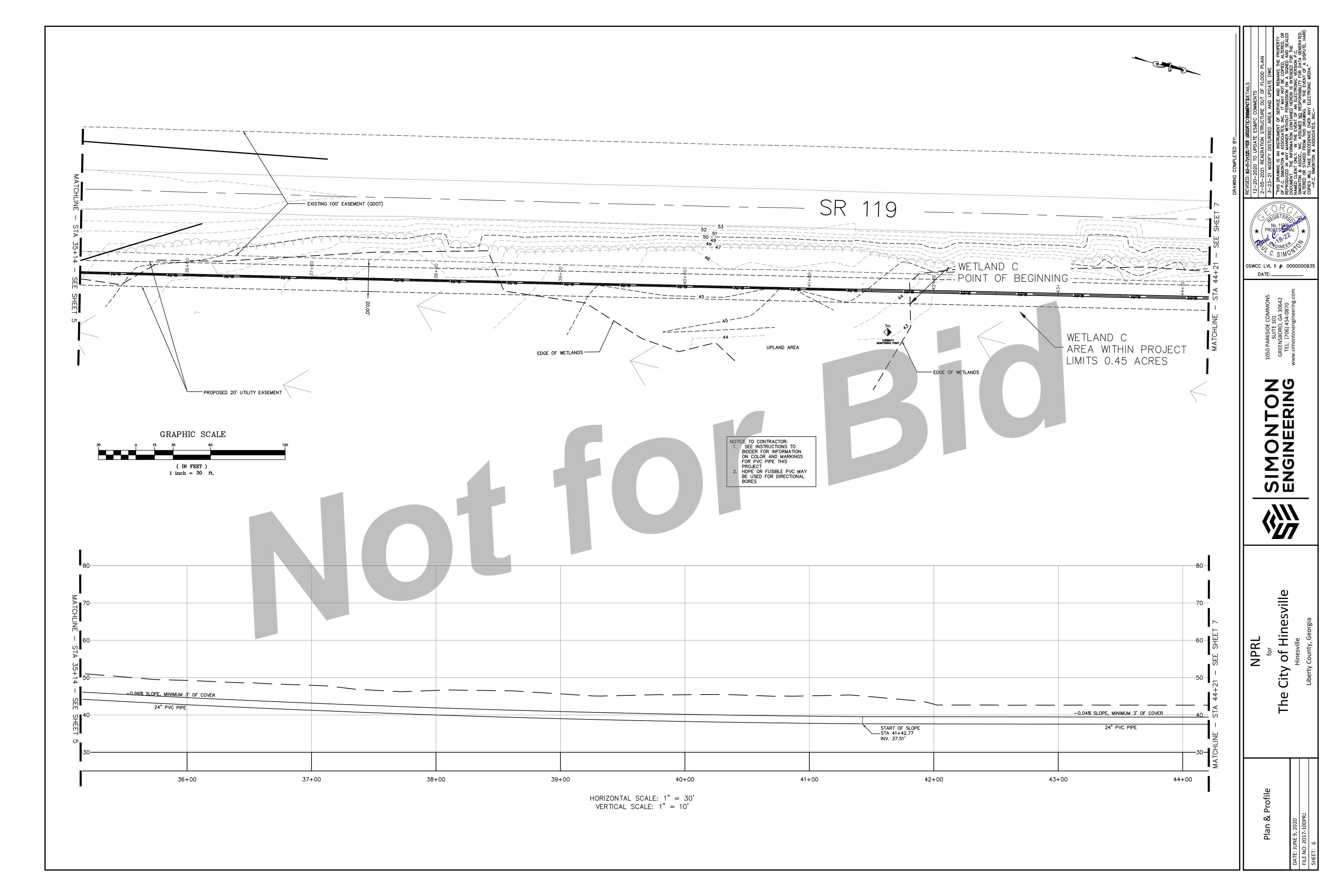
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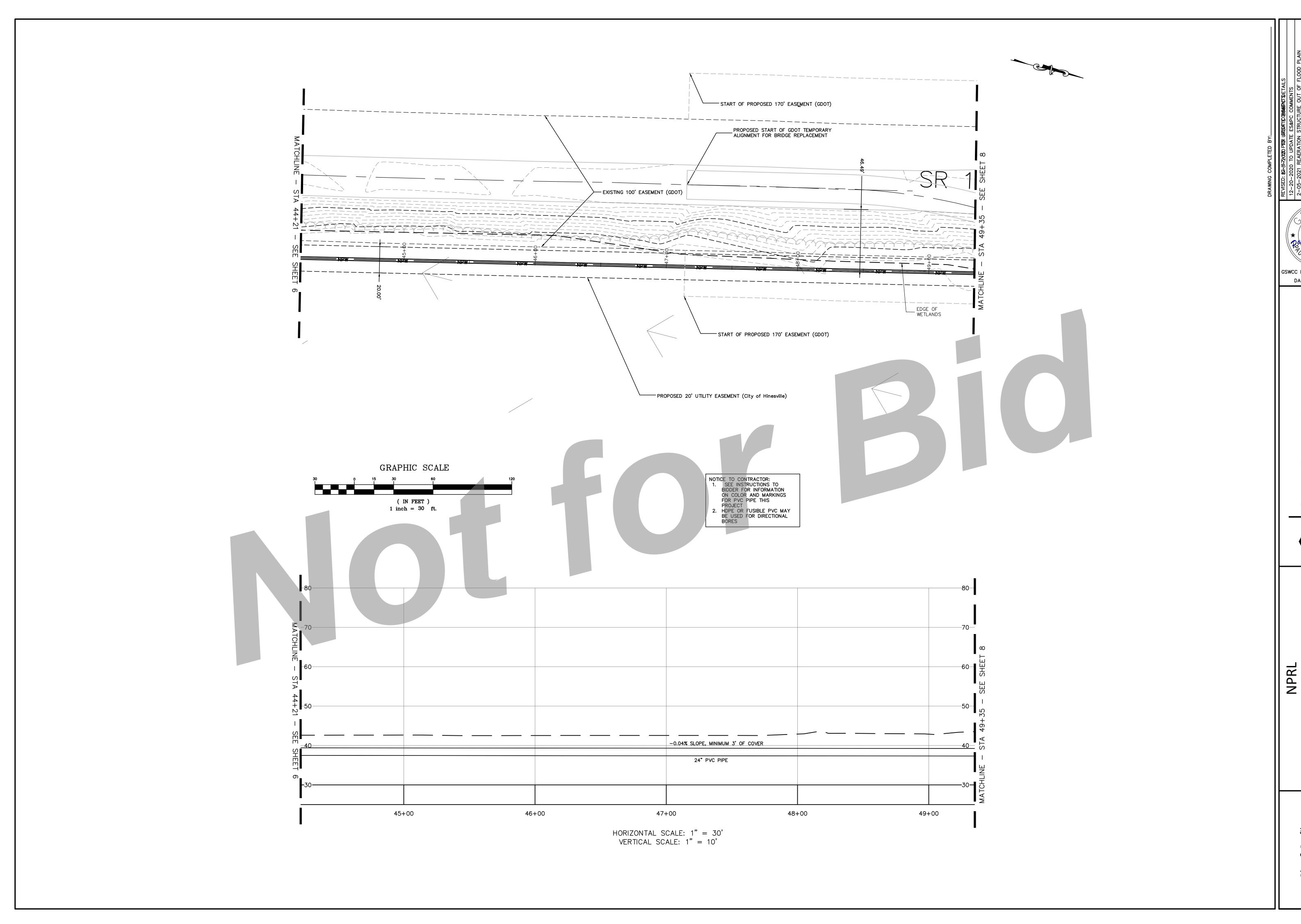




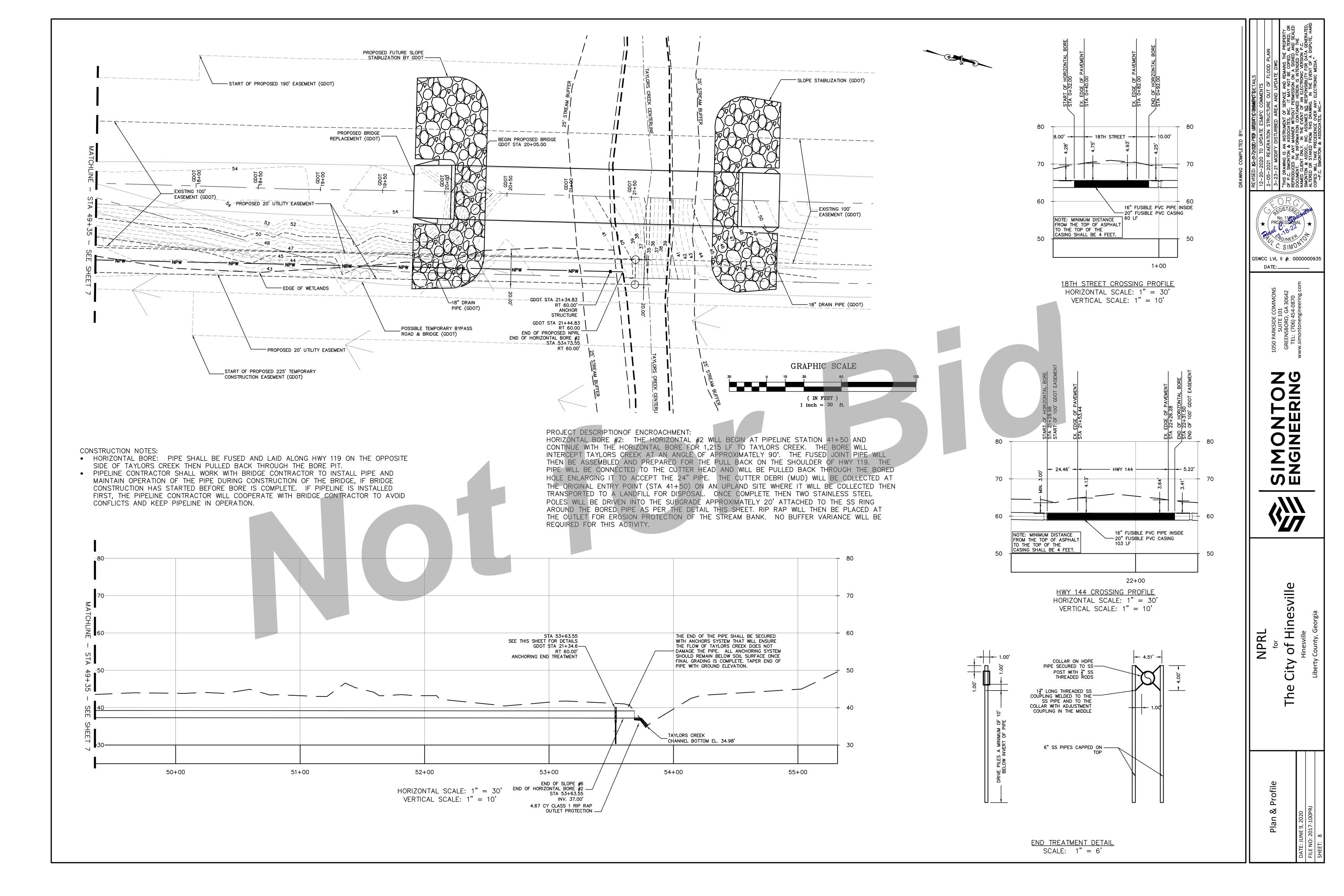


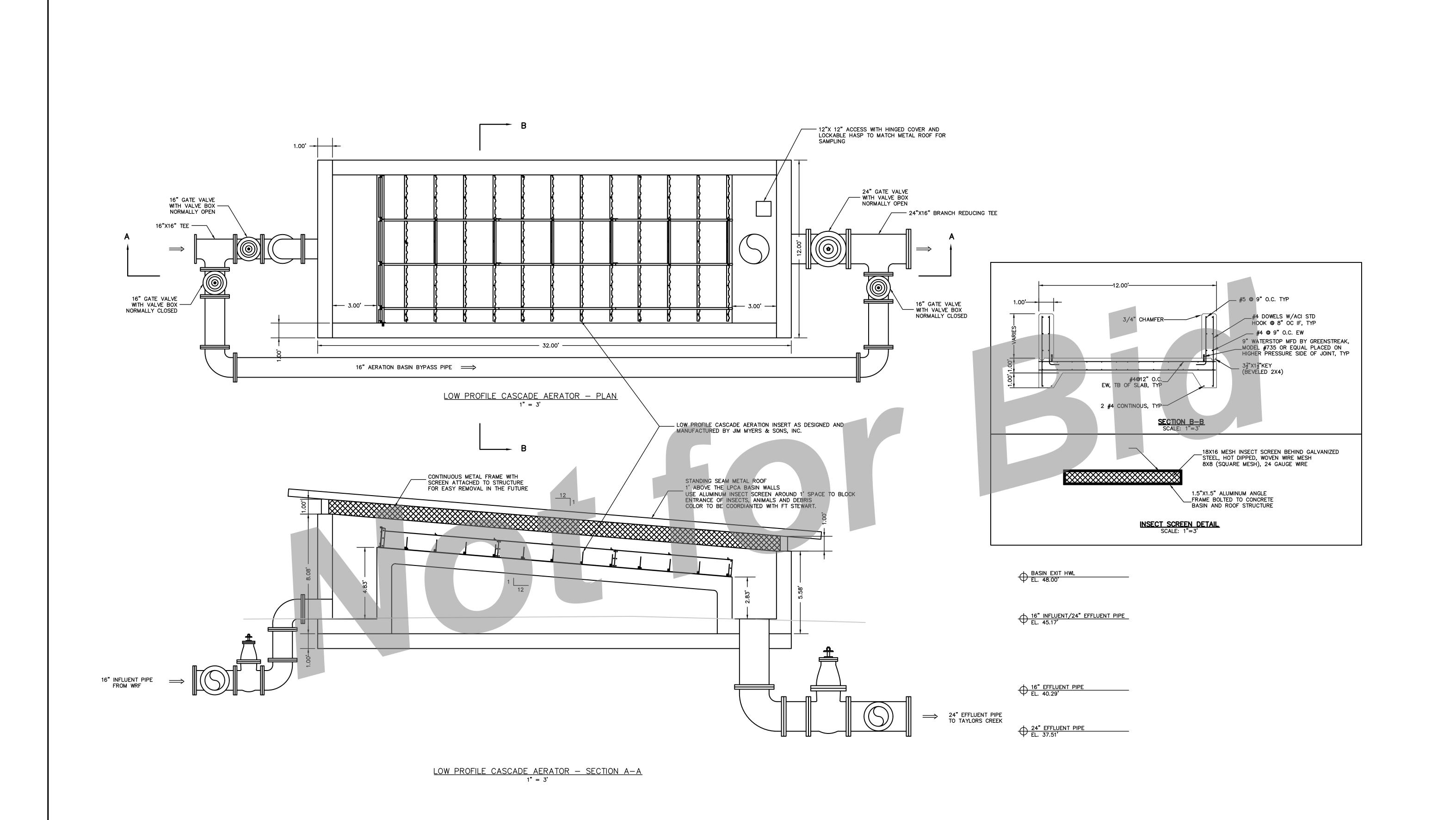






of Hinesville





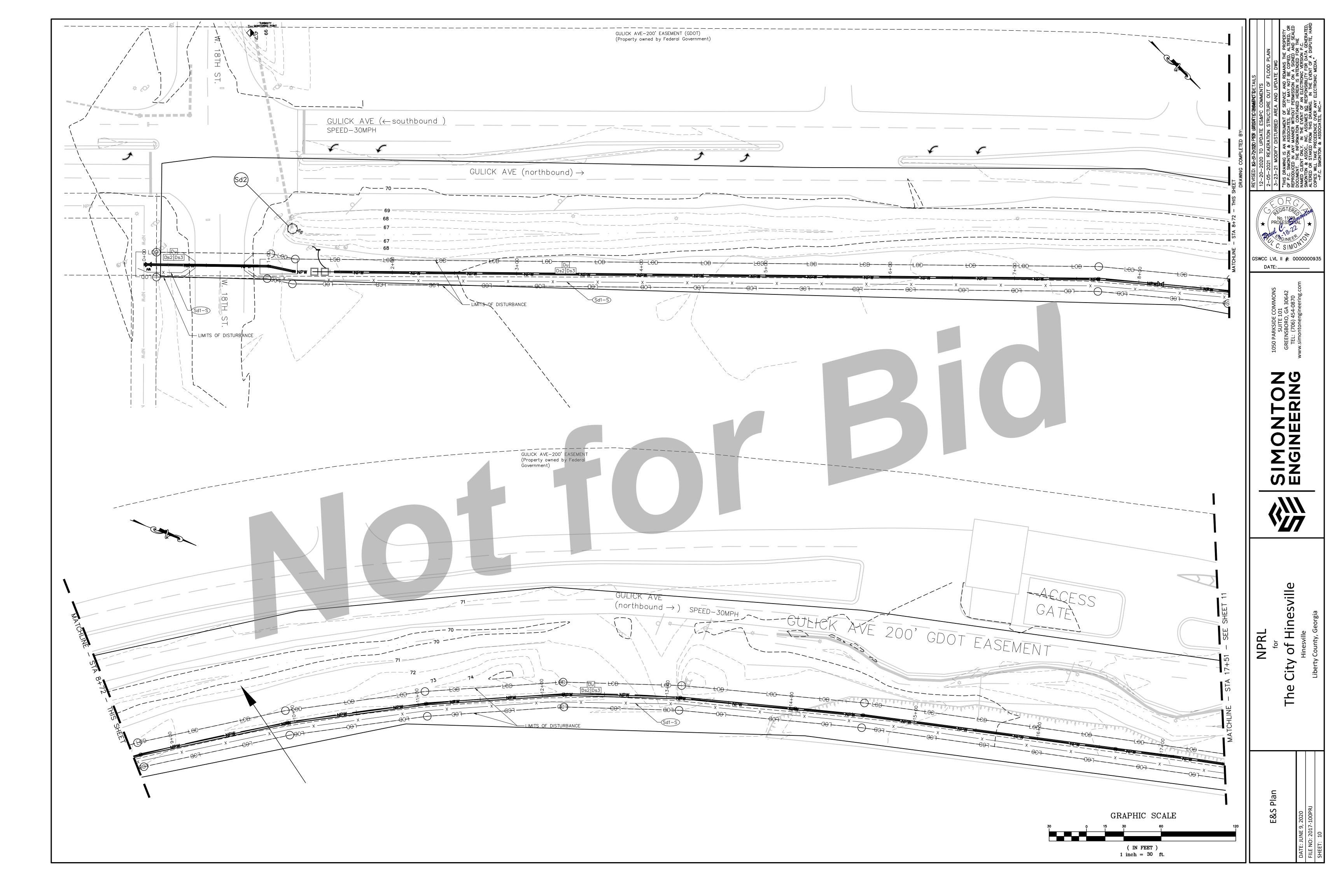
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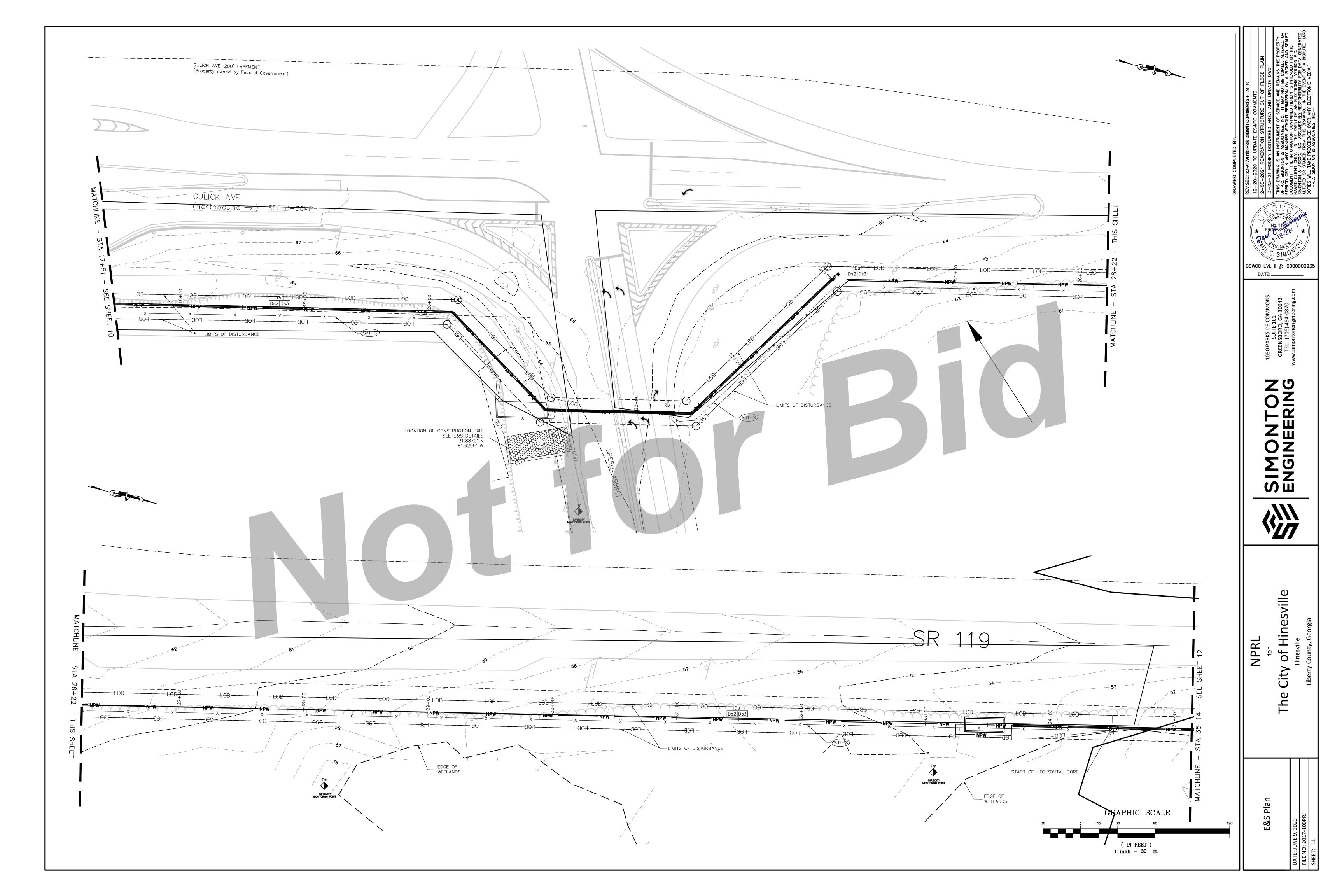
3–23–21 MODIFY DISTURBED AREA AND UPDATE DWG
3–23–21 MODIFY DISTURBED AREA AND UPDATE DWG

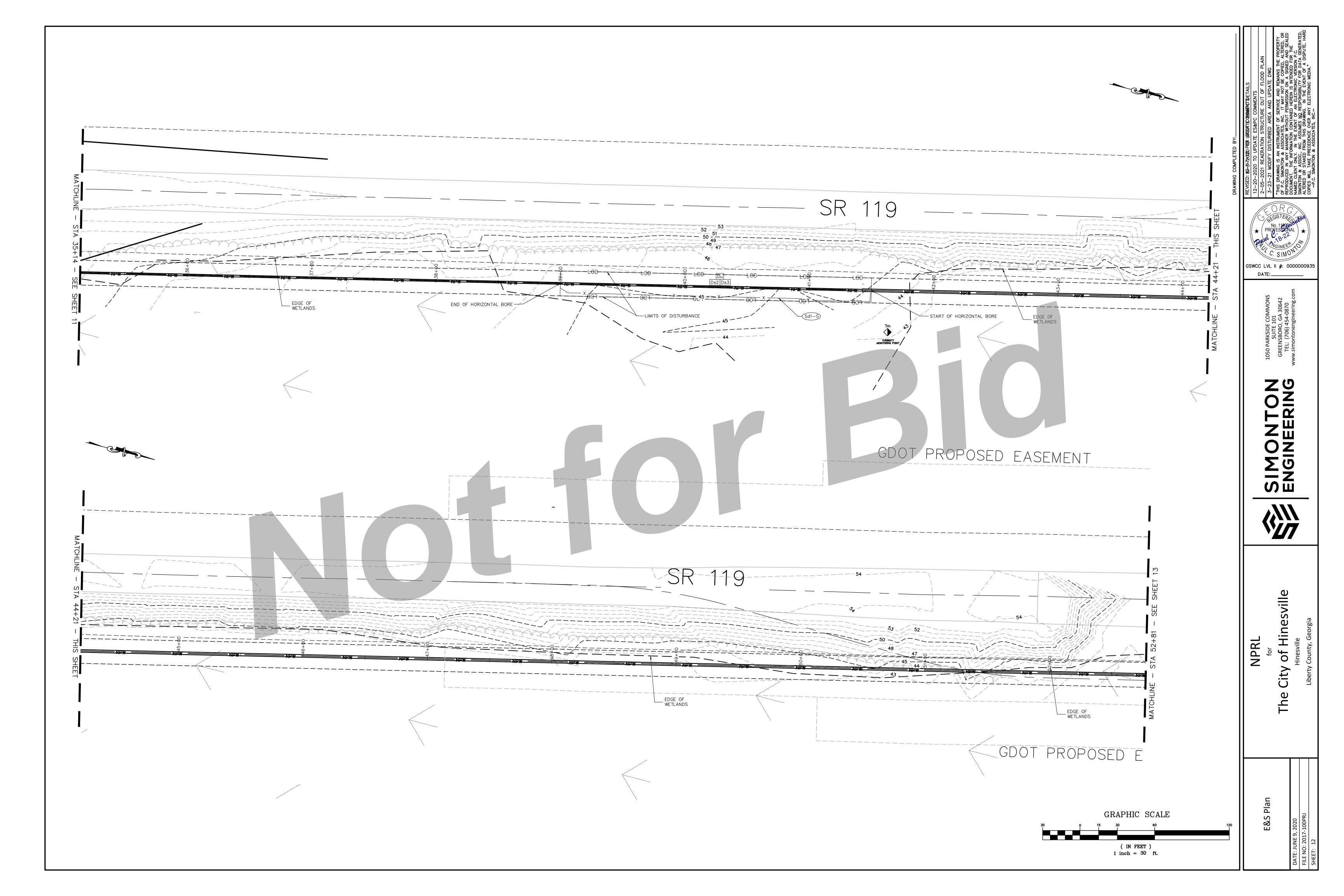
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of Hinesville NPRL City The

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The City of Hinesville

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(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; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OREXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY, AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. 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 FOURTEEN (14) 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 5:00 PM ON ANY FRIDAY OR ON ANY NONWORKING SATURDAY NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION. SHALL BE COMPLETED 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** 

(4) 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 FPD) 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 POLITIANTS 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 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 (5). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(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 SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND D. SAMPLING FREQUENCY 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 ANY INCIDENTS. 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

THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OFVEGETATION. EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. 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 INFRASTRUCTURE CONSTRUCTION: (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 AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL 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) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP:

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION:

. INCLUDED ON THE PLAN FOR 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 F RECEIVING WATER(S) (LE TROUT STREAM OR SUPPORTING WARM WATER FISHERIES). AND

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE

(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. FPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE FPD.

(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, WELL CLEANED 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 LINESS FLOW THROUGH AUTOMATED ANALYSIS IS LITELIZED. IF AUTOMATIC SAMPLING IS LITH IZED AND THE ALITOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT. THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

## C. SAMPLING POINTS.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE 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 ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART

(2). OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS. OTHER WATER BODIES OR OUTFALLS. OR A COMBINATION THEREOF. 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:

(A). 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 AT THE SITE) BUT DOWNSTREAM 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.

(B). 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

F. RETENTION OF RECORDS

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(G). PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW 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. 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ÁCCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARDS SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

(2). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, THE PERMITTEE IS NOT REQUIRED TO SAMPLE A PERENNIAL OR INTERMITTENT STREAM OR OTHER WATER BODIES (OR THE ASSOCIATED OUTFALL. IF APPLICABLE) IF THE DESIGN PROFESSIONAL PREPARING THE PLAN CERTIFIES THAT AN INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED RECEIVING WATER TO BE SAMPLED WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER. A WRITTEN JUSTIFICATION AND DETAILED ANALYSIS SHALL BE PREPARED BY THE DESIGN PROFESSIONAL JUSTIFYING SUCH PROPOSED SAMPLING. A SUMMARY CHART OF THE JUSTIFICATION AND ANALYSIS FOR THE REPRESENTITIVE SAMPLING MUST BE INCLUDED ON THE PLAN. THE JUSTIFICATION AND ANALYSIS SHALL INCLUDE THE LOCATION AND DESCRIPTION OF THE SPECIFIED SAMPLED AND UN-SAMPLED RECEIVING WATER AND SHALL CONTAIN A DETAILED COMPARISON AND DISCUSSION OF EACH SUCH RECEIVING WATER IN THE FOLLOWING AREAS:

(A). SITE LAND DISTURBANCES AND CHARACTERISTICS;

(B). RECEIVING WATER WATERSHED SIZES AND CHARACTERISTICS; AND

(C). SITE AND WATERSHED RUNOFF CHARACTERISTICS UTILIZING THE METHODS IN APPENDIX A-1 (UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE'S TR-55, LIRBAN HYDROLOGY FOR SMALL WATERSHEDS) OF THE MOST RECENT VERSION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA" FOR THE VARIOUS PRECIPITATION EVENTS AND ANY OTHER SUCH CONSIDERATIONS NECESSARY TO SHOW THAT THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASES IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATERS.

(3) FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, WHEN THE PERMITTEE DETERMINES THAT SOME RECEIVING WATER(S) WILL NOT BE SAMPLED DUE TO REPRESENTATIVE SAMPLING. THE DESIGN PROFESSIONAL MAKING THIS DETERMINATION AND PREPARING THE PLAN MUST INCLUDE AND SIGN THE FOLLOWING CERTIFICATION IN THE PLAN:

"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 STEAMS 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 JUDGMENT, 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."

(4). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A SELECTED RECEIVING WATER NO LONGER REPRESENTS ANOTHER RECEIVING WATER, THEN THE PERMITTEE SHALL SAMPLE THE LATTER RECEIVING WATER UNTIL SELECTION OF AN ALTERNATIVE REPRESENTATIVE

RECEIVING WATER IS DETERMINED NOT TO BE REPRESENTED AS CERTIFIED IN THE PLAN. THE PERMITTEE SHALL SAMPLE THAT RECEIVING WATER UNTIL A NOTICE OF TERMINATION IS SUBMITTED OR UNTIL THE APPLICABLE PHASE IS STABILIZED IN ACCORDANCE WITH THIS PERMIT.

(6), FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, MONITORING OBLIGATIONS SHALL CEASE FOR ANY PHASE OF THE PROJECT THAT HAS BEEN STABILIZED IN ACCORDANCE WITH PART IV.D.6.C.(1).(G).

I. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW, FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S 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 WATER OR FROM AN OUTFALL THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT. AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO THE COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING

(B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED. BUT PRIOR TO THE SUBMITTAL OF AN NOT. IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL 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 THE SELECTED TURBIDITY STANDARD IS ATTAINED. OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND

(D) WHERE SAMPLING PURSUANT TO (A) (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE). THE PERMITTEE. IN ACCORDANCE WITH PART IV.D.4.a.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B), OR (C) ABOVE; AND

(E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THI EFFECTIVE DATE OF THIS PERMIT. THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET TH 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.

7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING 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 SUBMITTED TO EPD USING THE ELECTRONIC UBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH IME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS; B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND

MEASUREMENTS: THE DATE(S) ANALYSES WERE PERFORMED

THE TIME(S) ANALYSES WERE INITIATED: THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES: RFFFRFNCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED:

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

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

1. THE PRIMARY 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 A NOT IS SUBMITTED IN ACCORDANCE WITH

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

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

F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND

G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION B. NOTICE OF TERMINATION CONTENTS: 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 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 OR AT A DESIGNATED ALTERNATIVE LOCATION 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 PERMITEE.

PART V. STANDARD PERMIT CONDITIONS A. DUTY TO COMPLY

> . EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-5-20, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT ERMINATION: OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION, FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT 2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A

SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE AT THE

ADDRESSES SHOWN IN PART II.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE

3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-5-20, ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH, THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS. ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR EFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR

B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON NOT OBTAINED COVERAGE UNDER THE PERMIT BY THE PERMIT EXPIRATION DATE CANNOT BECOME AUTHORIZED TO DISCHARGE UNDER THE CONTINUED PERMIT

PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT. D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE

E. DUTY TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR: A STATE AGENCY APPROVING SOIL EROSION AND SEDIMENTATION CONTROL PLANS, GRADING PLANS, OR STORM NATER MANAGEMENT PLANS; OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER THE GEORGIA OPEN RECORDS ACT.

F. OTHER INFORMATION. WHEN THE PERMITTEE BECOMES AWARE THAT HE/SHE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPD, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION

G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, REPORTS, CERTIFICATIONS OR OTHER INFORMATION EITHER SUBMITTED TO THE EPD OR THE OPERATOR OF A LARGE OR MEDIUM MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES BE MAINTAINED BY THE PERMITTEE, SHALL BE SIGNED AS

1. ALL NOTICES OF INTENT SHALL BE SIGNED AS FOLLOWS:

AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

A. FOR A CORPORATION: BY A RESPONSIBLE CORPORATE OFFICER. FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS; (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION, OR ANY OTHER PERSON WHO PERFORMS SIMILAR POLICY- OR DECISION MAKING FUNCTIONS FOR THE CORPORATION: OR (2) THE MANAGER OF ONE OR MORE MANUFACTURING PRODUCTION OR OPERATING FACILITIES PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING HAVING THE EXPLICIT OR IMPLICIT DUTY OF MAKING MAJOR CAPITAL INVESTMENT RECOMMENDATIONS, AND INITIATING AND DIRECTING OTHER COMPREHENSIVE MEASURES TO ASSURE LONG TERM ENVIRONMENTAL COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS; THE MANAGER CAN ENSURE THE NECESSARY SYSTEMS ARE ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT APPLICATION REQUIREMENTS: AND WHERE AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED OR DELEGATED TO THE MANAGER IN ACCORDANCE WITH CORPORATE PROCEDURES;

B. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: BY A GENERAL PARTNER OR THI PROPRIETOR, RESPECTIVELY; OR

C. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC FACILITY: BY EITHER A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL. OTHER INFORMATION REQUESTED BY THE EPD SHALL BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON, A PERSON IS A DULY AUTHORIZED

REPRESENTATIVE ONLY IF: A. THE AUTHORIZATION IS MADE IN WRITING BY A PERSON DESCRIBED ABOVE AND SUBMITTED 1

FOR THE OVERALL OPERATION OF THE REGULATED FACILITY OR ACTIVITY, SUCH AS THE POSITION OF MANAGER, OPERATOR, SUPERINTENDENT, OR POSITION OF EQUIVALENT RESPONSIBILITY OR AN INDIVIDUAL OR POSITION HAVING OVERALL RESPONSIBILITY FOR ENVIRONMENTAL MATTERS FOR THE COMPANY. (A DULY AUTHORIZED REPRESENTATIVE MAY BE EITHER A NAMED INDIVIDUA OR ANY INDIVIDUAL OCCUPYING A NAMED POSITION); C. CHANGES TO AUTHORIZATION, IF AN AUTHORIZATION UNDER PART II.B. IS NO LONGER ACCURATE BECAUSE A DIFFERENT OPERATOR HAS RESPONSIBILITY FOR THE OVERALL

OPERATION OF THE CONSTRUCTION SITE, A NEW NOTICE OF INTENT SATISFYING THE

REQUIREMENTS OF PART II.B. MUST BE SUBMITTED TO THE EPD PRIOR TO OR TOGETHER WITH ANY REPORTS, INFORMATION, OR APPLICATIONS TO BE SIGNED BY AN AUTHORIZED REPRESENTATIVE; AND D. CERTIFICATION. DOCUMENTS SHALL BE SIGNED BY THE PARTY THAT CONTRACTS FOR THE DOCUMENT AND THAT PARTY SHALL MAKE THE FOLLOWING CERTIFICATION: I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED LINDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED

TO ASSURE THAT CERTIFIED 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."

H. OIL AND HAZARDOUS SUBSTANCE LIABILITY. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED: NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

I. PROPERTY RIGHTS. THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY PROPERTY RIGHTS OF ANY SORT, NOR ANY EXCLUSIVE PRIVILEGES, NOR DOES IT AUTHORIZE ANY INJURY TO PRIVATE PROPERTY NOR ANY INVASION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS.

J. SEVERABILITY. THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, AND IF ANY PROVISION OF THIS PERMIT, OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCE, IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF

K. OTHER APPLICABLE ENVIRONMENTAL REGULATIONS AND LAWS. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES ESTABLISHED PURSUANT TO ANY APPLICABLE STATE LAW OR REGULATION UNDER AUTHORITY PRESERVED BY SECTION 510 OF THE CLEAN WATER ACT. NOTHING IN THIS PERMIT, UNLESS EXPLICITLY STATED, EXEMPTS THE PERMITTEE FROM COMPLIANCE WITH OTHER APPLICABLE LOCAL, STATE AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND LAWS FURTHERMORE, IT IS NOT A DEFENSE TO COMPLIANCE WITH THIS PERMIT THAT A LOCAL GOVERNMENT AUTHORITY HAS APPROVED THE PERMITTEE'S EROSION. SEDIMENTATION AND POLLUTION CONTROL PLAN OR FAILED TO TAKE ENFORCEMENT ACTION AGAINST THE PERMITTEE FOR VIOLATIONS OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR OTHER PROVISIONS OF THIS PERMIT. NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

L. PROPER OPERATION AND MAINTENANCE, THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS, PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALIT ASSURANCE PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY AN PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT

M. INSPECTION AND ENTRY. THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF EPA OR EPD OR, IN THE CASE OF A CONSTRUCTION SITE WHICH DISCHARGE THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT. AN AUTHORIZED REPRESENTATIVE OF THE MUNICIPAL OPERATOR OF THE SEPARATE STORM SEWER SYSTEM RECEIVING HE DISCHARGE, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW. TO:

1. ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT: 2. HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND

3. INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND

ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

N PERMIT ACTIONS. THIS PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR

THE NPDES PERMIT NUMBER FOR THE STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY IDENTIFIED BY THE NOTICE OF TERMINATION (I.E., GAR100001 - STAND

THE PROJECT CONSTRUCTION SITE NAME, GPS LOCATION (DECIMAL DEGREES) OF CONSTRUCTION EXIT T, CONSTRUCTION SITE LOCATION, CITY (IF APPLICABLE) AND COUNTY OF THE CONSTRUCTION SITE FOR WHICH THE NOTIFICATION IS SUBMITTED. THIS INFORMATION MUST CORRESPOND TO THE SIMILAR INFORMATION AS PROVIDED ON THE NOI. WHERE AN ADDRESS FOR THE CONSTRUCTION SITE IS NOT AVAILABLE, THE CONSTRUCTION SITE LOCATION INFORMATION MUST BE SUFFICIENT TO ACCURATELY LOCATE THE CONSTRUCTION SITE;

THE OWNER'S LEGAL NAME, ADDRESS, TELEPHONE NUMBER AND EMAIL ADDRESS AND THE OPERATOR'S LEGAL NAME, ADDRESS, TELEPHONE AND EMAIL ADDRESS;

4. THE NAME OF THE INITIAL RECEIVING WATER(S), AND WHEN THE DISCHARGE IS THROUGH A

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), THE NAME OF THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM AND THE NAME OF THE RECEIVING WATER(S) WHICH RECEIVES THE DISCHARGE FROM THE MS4; . COPIES OF ALL SAMPLING REPORTS AND/OR A WRITTEN JUSTIFICATION WHY SAMPLING WAS NOT

CONDUCTED. COPIES OF ALL SAMPLING REPORTS MAY BE SUBMITTED AS A PORTABLE DOCUMENT FORMAT (PDF) FILE ON CD-ROM OR OTHER STORAGE DEVICE;

6. COPY OF THE PERMITTEE'S MOST CURRENT NOTICE OF INTENT; 7. ANY OTHER INFORMATION SPECIFIED ON THE NOT IN EFFECT AT THE TIME OF SUBMITTAL; AND

8. THE FOLLOWING CERTIFICATION SIGNED IN ACCORDANCE WITH PART V.G.1. (SIGNATORY REQUIREMENTS):

"I CERTIFY UNDER PENALTY OF LAW THAT EITHER: (A) ALL STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY AUTHORIZED BY THIS PERMIT HAVE CEASED, THE SITE IS IN COMPLIANCE WITH THIS PERMIT AND ALL TEMPORARY BMPS HAVE BEEN REMOVED OR (B) I AM NO LONGER AN OWNER OR OPERATOR AT THE CONSTRUCTION SITE AND A NEW OWNER OR OPERATOR HAS ASSUMED OPERATIONAL CONTROL OF THE PERMITTED CONSTRUCTION SITE WHERE I PREVIOUSLY HAD OWNERSHIP OR OPERATIONAL CONTROL; AND THAT DISCHARGING POLLUTANTS IN STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO WATERS OF GEORGIA IS UNLAWFUL UNDER THE GEORGIA WATER QUALITY CONTROL ACT AND THE CLEAN WATER ACT WHERE THE DISCHARGE IS NOT AUTHORIZED BY A NPDES PERMIT.

THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND

C. NOTICE OF TERMINATION SUBMITTAL. ALL NOTICES OF TERMINATION BY THIS PERMIT SHALL BE EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINAL AND EFFECTIVE. CONSTRUCTION SITES THAT HAVE

SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE EPD DISTRICT OFFICE ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT AND TO THE LOCAL ISSUING AUTHORITY IN JURISDICTIONS AUTHORIZED TO ISSUE A LAND DISTURBANCE ACTIVITY PERMIT FOR THE PERMITTEE'S CONSTRUCTION SITE PURSUANT TO O.C.G.A. 12-7-1, ET SEQ. IF AN ELECTRONIC SUBMITTAL SERVICE IS PROVIDED BY THE EPD THEN THE NOTICE OF TERMINATION MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

### 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 TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM FXCESS 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, TOOLS CLEANED OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/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 IN SEALED CONTAINERS.

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

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE. 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 ATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING HESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

AZARDOUS WASTES ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL. STATE, AND/OR FEDERAL REGULATIONS AND BY THE IANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE ERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) 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 POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH 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 THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH SATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. 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 FOR 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 LICENSE PORTABLE FACILITY PROVIDER IN COMPETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE 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 SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE, SHEET C-4B. BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED. SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS

SPILL CLEANUP AND CONTROL PRACTICES \* LOCAL, STATE AND MANUFACTURER'S RECOMMEND METHODS FOR SPILL CLEANUP

WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED \*GREATER THAN 560 GALLONS BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES

CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE \*SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. \*ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

\*FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE

NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. \*FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. \*FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE

GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

PLAN PREPARED BY THAT LICENSED PROFESSIONAL

\*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 PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF FOLIPMENT) OR IF ANY ONE PIECE OF FOLIPMENT HAS A CAPA. THE

CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES

PRIMARY PERMITTEE

EMAIL: KHOWARD@CITYOFHINESVILLE.ORG

CITY OF HINESVILLE CONTACT: KENNETH HOWARD CITY MANAGER 115 EAST M.L. KING JR. DRIVE HINESVILLE, GA 31313 TEL: (912) 876-3564

24 HOUR CONTACT CITY OF HINESVILLE CONTACT: KENNETH HOWARD CITY MANAGER 115 EAST M.L. KING JR DRIVE HINESVILLE, GA 31313 TEL: (912) 876-3564

**DESIGN PROFESSIONAL** PAUL C. SIMONTON GSWCC LEVEL II CERTIFICATION #: 0000000935 EXPIRES: 10-01-23

EROSION CONTROL NOTES/STATEMENTS

"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."

"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."

"MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. IF AN AREA REMAINS UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED." NO NON-EXEMPT ACTIVITIES SHALL TAKE PLACE IN STATE BUFFERS

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN SHALL INSPECT THE INSTALLATIONS OF BMP'S WITHIN 7 DAYS AFTER INSTALLATION OF INITIAL BMPS.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED 🗏 BY THE DESIGN PROFESSIONAL. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM  $\stackrel{>}{>}$ 

THE CONSTRUCTION ACTIVITY IS INSTALLING A 16"/24" PVC NON-POTABLE REUSE LINE WITH AERATION BASIN. PREDEVELOPED CN=49 AND POST DEVELOPED CN=49.

JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

ES&PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE

BMPS ARE REQUIRED FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.

SILT FENCING AND INSTALLATION BY DIRECTIONAL BORE IS BEING USED TO DETER POLLUTANTS DURING CONSTRUCTION. AFTER CONSTRUCTION SILT FENCE WILL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED THEN PERMANENT GRASSING CAPTURE POLLUTANTS. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY

ALL WETLANDS ON SITE AND STATE WATERS WITHIN 200' OF THIS SITE HAVE BEEN DELINEATED.

THE PROJECT'S STORM WATERS ARE INITIALLY RECEIVED BY TAYLORS CREEK. FROM THERE THE WATERS DRAIN TO CANOOCHEE CREEK, WHICH IS SUPPORTING ITS USE AND DOES NOT REQUIRE A TMDL AND APPENDIX 1

SECONDARY PERMITTEES ARE UNKNOWN AT THIS TIME BUT IT IS THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE APPLICABLE PORTIONS OF ES&PC PLANS TO ANY SECONDARY PERMITTEE PRIOR TO THEIR CONSTRUCTION COMMENCEMENT. DURING THE INITIAL PHASE OF CONSTRUCTION TYPE "S" SILT FENCE, SLOPE STABILIZATION, AND TEMPORARY GRASSING WILL BE USED

TO CONTROL THE ESCAPE OF SEDIMENT. DURING THE FINAL PHASE, TYPE "S" SILT FENCE AND PERMANENT GRASSING WILL BE USED

SECONDARY PERMITTEES IS MASTER LIST TO BE COMPLETED, SIGNED, AND KEPT IN THE ON SITE CONSTRUCTION TRAILER.

TO CONTROL THE ESCAPE OF SEDIMENT.

CONDARY PERMITTEES SIGN WHEN RECEIVING PLANS. ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOI AT LEAST 14 S PRIOR TO BEGINNING CONSTRUCTION ACTIVITY

GSWCC LEVEL 1A CERTIFICATION NO SIGNATUR PHONE: COMPANY GSWCC LEVEL 1A CERTIFICATION N SIGNATUR COMPANY ADDRESS

## DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION\_\_\_

GSWCC LEVEL 1A CERTIFICATION NO.\_\_\_\_

CERTIFY THE SITE IS IN COMPLIANCE WITH THE ES&P.C PLAN ON THE DATE INSPECTED.

NOTE: THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMP's AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5 WITHIN 7 DAYS AFTER INSTALLATION.

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

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

THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON

THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED. DESIGN PROFESSIONAL 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 GEORGIA 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.

(2) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HERE-IN BY MÝSELF OR MY AUTHORIZED AGENT UNDER MY DIRECT SUPERVISION.

(3)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 FIÉL VERIFIED PERENNIAL AND INTERMITTENT STEAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OF INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED. I HAVE DETERMINED IN MY PROFESSIONAL JUDGMEN' UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002. THAT THE INCREASE IN THE TURBIDITY OF FACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."

(3) I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION O

SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE

THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE

1-18-22

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.

OWNER/AGENT: KENNETH HOWARD, CITY MANAGER

(SUPPORTING WARM WATER FISHERIES)

Paul C. Simonton

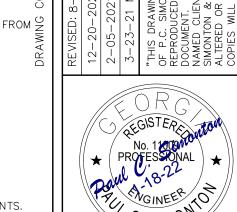
PAUL SIMONTON E&SC 1#:18022000935 EXPIRES: 10-1-23

<u>APPENDIX B: NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES</u>

- 1										I WILL OF STILLAR AND DOWN
							SQUARE MILE			STREAM SAMPLING BE
- 1	Ш	0-4.99	<u>5-9.99</u>	<u> 10-24.99</u>	<u>25-49.99</u>	50-99.99	<u> 100-249.99</u>	<u> 250-499.99</u>	<u> 500+</u>	UTILIZED?
	± S 1.00−10	75	150	200	400	750	750	750	750	☐ YES ☑ NO
	NO.01-25	50	100	100	200	300	500	750	750	IF MARKED YES THE CHART
	SIZE, AC 25.01-50 20.01-100	50	50	100	100	200	300	750	750	WILL NOT BE UTILIZED AND THE ALLOWABLE
	出 50.01-100	50	50	50	100	100	150	300	300	DOWNSTREAM NTU VALUE   WILL BE 25 NTU GREATER
	S 100.01+	50	50	50	50	50	100	200	100	THAN THE UPSTREAM SAMPLE.

STORM WATER SAMPLES ARE TO BE ANALYZED 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."

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100002. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF  $\underline{1.7}$  ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF  $\underline{0.004}$  SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.



SWCC LVL II #: 000000093 DATE: \_\_\_

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### D-7 CDECIEC AND DIANTING COLIEDIUE

	<u>Ds</u>	3 SPECIES	AND PLANTING SCHE	DULE
<u>SPECIES</u>	BROADCAST RATES 1/ - PLS 2/ PER PER ACRE 1000 S.F.	RESOURCE AREA 3/	AREAS *  [JIFIMIAIMIJIJIAISIOINID]	<u>SPECIFICATIONS</u>
BAHIA, PENSACOLA ALONE OR WITH TEMP. COVER W/ OTHER PERNNIALS	60 LBS 1.4 LB 30 LBS 0.7 LB	P C	J F M A M J J A S O N D	166,000 SEED PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS
BAHIA, WILMINGTON ALONE OR WITH TEMP. COVER WITH OTHER PERENNIALS	60 LBS 1.4 LB 30 LBS 0.7 LB	M-L P	J F M A M J J A S O N D	SAME AS ABOVE
BERMUDA, COMMON HUILLED SEED ALONE WITH OTHER PERENNIALS	10 LBS. 0.2 LB. 6 LBS. 0.1 LB.	P C	J F M A M J J A S O N D	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON UNHULLED SEED WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 0.2 LB. 6 LBS. 0.1 LB.	P C	J F M A M J J A S O N D	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPRIGS COASTAL, COMMON, MIDLAND, OR TIFT 44 COASTAL, COMMON, TIFT 44	40 CU. FT. 0.9 CU.FT. OR SOD PLUGS 3' X 3'	M-L P C C		A CUBIC FT. CONTAINS APPROXIMATLY 650 SPRIGS. A BUSHEL CONTAINS 1.25 C.F. OR APPROXIMATLY 800 SPRIGS. SAME AS ABOVE.
TIFT 78  CENTIPEDE	BLOCK SOD ONLY	P C	J F M A M J J A S O N D	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY EST. DO NOT PLANT NEAR PARTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
CROWNVETCH WITH WINTER ANNUALS OR COOL; SEASON GRASSES	15 LBS. 0.3 LB.	M-L P		100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. ATTRACTIVE ROSE, PINK AND WHITE BLOSSOMS SPRING TO LATE FALL. MIX WITH 15 POUNDS OF RYE. INOCULATE SEED WITH M INOCULATE. USE FROM NORT ATLANTA AND NORTHWARD.
FESCUE, TALL ALONE WITH OTHER PERENNIALS KUDZU	50 LBS. 1.1 LB. 30 LBS. 0.7 LB.	M-L P	J F M A M J J A S O N D  J F M A M J J A S O N D	227,000 SEED PER POUND.USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWN— VETCH. APPLY TOPDRESSING IN SPRING FOLLOWIN FALL PLANTING. NOT FOR HEAVY USE AREAS OR ATHLETIC FEILDS. RAPID AND VIGOROUS GROWTH. EXCELLENT IN
PLANTS OR CROWNS	3'-7' APART	ALL		GULLY EROSION CONTROL. WILL CLIMB. GOOD LIVESTOCK FORAGE.
LESPEDEZA, SERICEA SCARIFIED UNSCARFIED	60 LBS. 1.4 LB. 75 LBS. 1.7 LB.	M-L P C M-L	J F M A M J J A S O N D	350,000 SEED PER POUND. WIDELY ADAPTED LOW MAINTENANCE. MIX WITH WEEPING LOVE—GRASS, COMMON BERMUDIA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY EST. EXCELLENT ON ROADBANKS.
SEED-BEARING HAY	3 TONS 138 LB.	P C M-L P C	J F M A M J J A S O N D	INOCULANT SEED WITH EL INOCLANT.  MIX WITH TALL FESCUE OR WINTER ANNUALS  CUT WHEN SEED IS MATURE, BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA AMBROA VIRGATA OR APPALOW SCARIFIED	60 LBS. 1.4 LB.	M-L		300,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGEOUS IN URBAN AREAS. SPREADING—TYPE GROWTH. NEW GROWTH HAS BRONZE COLORATION. DO NOT MIX WITH
UNSCARIFIED	75 LBS. 1.7 LB.	P C M-L P		SERICEA LESPEDEZA. SLOW TO DEVEOLP SLOID STANDS. INOCLUATE SEED WITH EL INOCLUANT.
LESPEDEZA, SHRUB	3'X3'	M-L P C	J F M A M J J A S O N D	PROVIDES WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 0.1 LB. 2 LBS. 0.05 LB.	M-L P C	J F M A M J J A S O N D	1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.
MAIDENCANE SPRIGS	2' X 3' SPACING	ALL	J F M A M J J A S O N D	FOR VERY WET SITES. MAY CLOG CHANNELS. DIG SPRIGS FROM LOCAL SOURCES. USE ALONG RIVERBANKS AND SHORELINES.
PANICGRASS, ATLANTIC COASTAL	20 LBS. 0.5 LB.	P C	JFMAMJJASOND	GROWS WELL ON COASTAL SAND DUNES, BOOROW AREAS, AND GRAVEL PITS. PROVIDES WINTER COVER FOR WILDLIFE. MIX WITH SERICEA LEPEDEZA EXCEPT ON SAND DUNES.
REED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 1.1 LB. 30 LBS. 0.7 LB.	M-L P		GROWS SIMILAR TO TALL FESCUE
SUNFLOWER, 'AZTEC' MAXIMILLIAN	10 LBS. 0.2 LB.	M-L P C	J F M A M J J A S O N D	227,000 SEED PER POUND. MIX WITH WEEPING LOVEGRASS OR OTHER LOW-GROWING GRASSES OR LEGUMES.
SWITCHGRASS	40 LBS. 0.9 LB.	M-L P C		STREAMBANKS

\* (DARK LINES REPRESENT OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE

BUT MARGINAL DATES.)

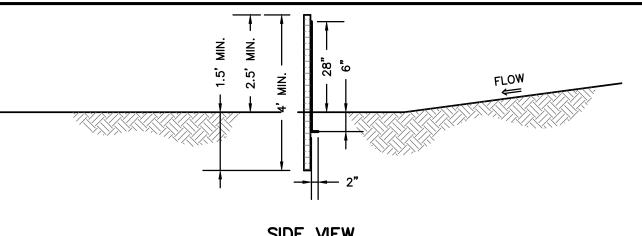
FERTILIZER ANI	LIME REQ	UIREMENTS	FOR PERM	MANENT VEGET	ATION (Ds3)
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)	LIME APPLICATION (TONS/ACRE)
Cool Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50–100 – 30	1
Cool Season Grasses and Legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 1000 400	0–50 – –	1
Warm Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30	1
Warm Season Grasses and Legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 1000 <del>4</del> 00	0–50 – –	1

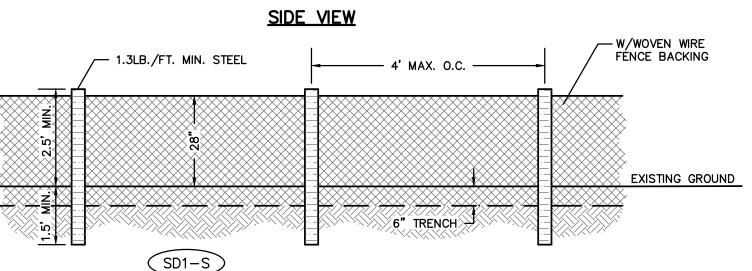
# **Ds3 MULCH NOTES:**

ACHIEVE 75% TO 100% SOIL COVER.

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL

- 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED AND SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2  $\frac{1}{2}$  TONS PER ACRE.
- 2. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.





FRONT VIEW SILT FENCE - Sd1 TYPE "S"

### METHODS & MATERIALS

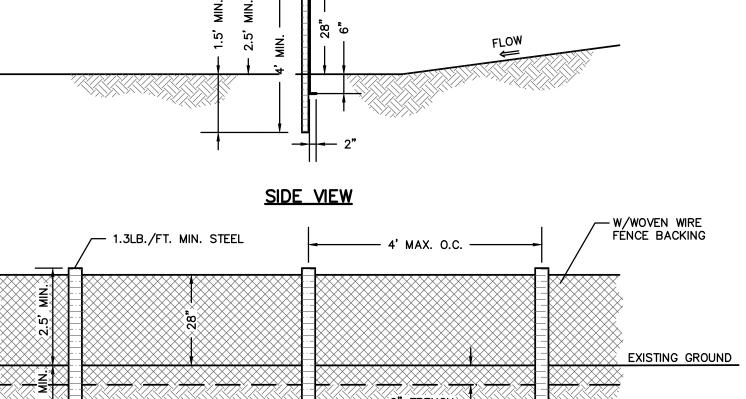
- A. TEMPORARY METHODS A.A. MULCHES. SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO SPECIFICATION Tac - TACKIFIERS. RESINS SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- A.B. VEGETATIVE COVER. SEE SPECIFICATION Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING). A.C. SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF
- THESE AREAS. REFER TO SPECIFICATION Tac TACKIFIERS. A.D. TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE THAT SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE
- EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT. A.E. IRRIGATION. THIS IS GENERAL DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE
- SURFACE IS WET. REPEAT AS NEEDED. BARRIERS. SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND
- A.G. CALCIUM CHLORIDE. APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.
- B.A. PERMANENT VEGETATION. SEE SPECIFICATION Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT
- VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. B.B. TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE SPECIFICATION TO
- B.C. STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr CONSTRUCTION ROAD STABILIZATION.

# DUST CONTROL ON DISTURBED AREAS

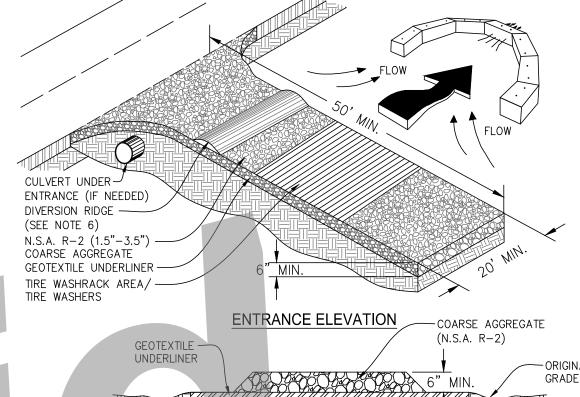
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	Ds2 SPEC	CIES AND	PLA	NT	ĪN	G	S	Cl	HE		)U	ĻΕ	-
<u>SPECIES</u>	BROADCAST I PER ACRE	PER 1000 Sq.Ft.	PLANTING DATES BY RESOURCE AREAS (3)						AS	<u>S</u>	)	<u>REMARKS</u>	
BARLEY ALONE IN MIXTURES	3 bu (144 lbs.) 1/2 bu (24 lbs.)	3.3 lbs. 0.6 lbs.	M-L P C		FM					-	#		14,000 SEED PER POUND. WINTERHARDY. USE ON PRODUCTIVE SOILS.
LESPEDEZA, ANNUAL ALONE IN MIXTURES	40 lbs. 10 lbs.	0.9 lbs. 0.6 lbs.	M-L P C	J	F M	A	М	JJ	A	s	0 N	D	200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE UNCULANT EL.
LOVEGRASS, WEEPING ALONE IN MIXTURES	4 lbs. 2 lbs.	0.1 lbs. 0.05 lbs.	M-L P C	J	F M	A	М	- - J J	A	s	0 N	Д	1,500,00 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
OATS ALONE IN MIXTURES	4 bu (128 lbs.) 1 bu (32 lbs.)	2.9 lbs. 0.7 lbs.	M-L P C	J	F M	A	M ·	JJ	A	s	0 N	Д	13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
RYE ALONE IN MIXTURES	3 bu (168 lbs.) 1/2 bu (28 lbs.)	3.9 lbs. 0.6 lbs.	M-L P C	J	F M	A	М	J J	A	s	0 N	D	18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
RYEGRASS, ANNUAL ALONE IN MIXTURES	40 lbs.	0.9 lbs.	M-L P C	J	FM	A	М	JJ	A	s	0 N	D	227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
SUDANGRASS ALONE IN MIXTURES	60 lbs.	1.4 lbs.	M-L P C	J	FM	<b>A</b>	M	JJ	A	s	0 N	D	55,000 SEED PER POUND. GOOD O DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
TRITICALE ALONE IN MIXTURES	3 bu (144 lbs.) 1/2 bu (24 lbs.)	3.3 lbs. 0.6 lbs.	С	J	FM	Α	M	JJ	A	s	0 N	D	USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
WHEAT ALONE IN MIXTURES	3 bu (180 lbs.) 1/2 bu (30 lbs.)	4.1 lbs. 0.7 lbs.	M-L P C							1	<b>T</b>		15,000 SEED PER POUND. WINTERHEARDY.

- (1) BROADCAST RATES ARE IN PURE LIVE SEED (PLS)
  (2) M-L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S P REPRESENTS THE SOUTHERN PIEDMONT MLRA
- C REPRESENTS SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRA'S (3) DARK LINES INDICATE OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

FERTILIZER ANI	D LIME REQ	UIREMENTS	S FOR TEMP	PORARY VEGET	ATION (Ds2)
TYPES OF SPECIES	PLANTING YEAR			N TOP DRESSING RATE (LBS./ACRE)	LIME APPLICATION (TONS/ACRE)
Cool Season Grasses	reason Grasses First Second Maintenance		1500 1000 400	50-100 - 30	1
Cool Season Grasses and Legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 1000 <del>4</del> 00	0-50 - -	1
Temporary Cover Crops Seeded Alone	First	10-10-10	500	30	1
Warm Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30	1



CRUSHED STONE CONSTRUCTION EXIT EXIT DIAGRAM



. 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

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'. 5. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.. . INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES. . 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

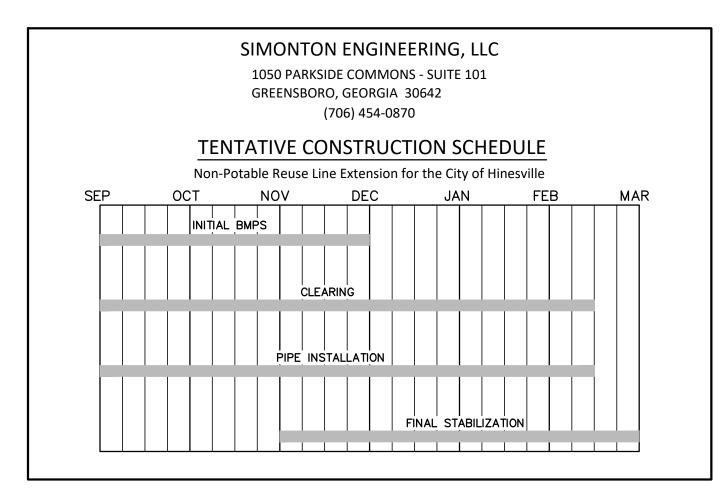
DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE). 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT

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

CONSTRUCTION EXIT

CROWN FOR POSITIVE DRAINAGE.

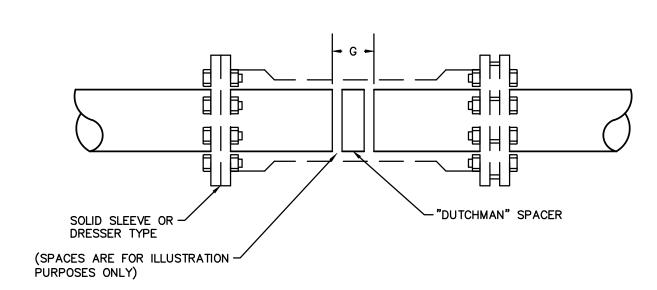
USED TO TRAP SEDIMENT.



- ADDITIONAL EROSION CONTROL NOTES: 1. IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF A SEDIMENT BASIN ON THIS PROJECT IS NOT NECESSARY OR FEASIBLE. CONTRACTOR/OWNER WILL NOT HAVE ADEQUATE AREA ON THE PROJECT TO INSTALL A SEDIMENT BASIN. THE SEDIMENT BASIN INSTALLATION WOULD CREATE MORE LAND DISTURBANCE THAN THE PROPOSED PROJECT. IT IS OUR PROFESSIONAL OPINION THAT THE INSTALLATION OF THE APPROPRIATE BMPs, AND PROPER MAINTENANCE, SHOULD PROVIDE SUFFICIENT SEDIMENT STORAGE.
- 2. THIS ES&PC PLAN IS IN COMPLIANCE WITH WASTEWATER, SANITARY SEWER, AND SEPTIC REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- 3. REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM ALONG THE SILT FENCE WHEN IT REACHES HALF FULL. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGE WAYS DURING SEDIMENT REMOVAL OR DISPOSAL.
- 4. WHEN TEMPORARY STRUCTURES HAVE SERVED THEIR INTENDED PURPOSE AND THE CONTRIBUTING DRAINAGE AREA HAS
- BEEN PROPERLY STABILIZED, THE STRUCTURES MUST BE REMOVED PRIOR TO FILING A NOTICE OF TERMINATION. 5. ALL WASTE GENERATED WILL BE PLACED IN A CONTAINER, BED TRUCK OR TRAILER AND REMOVED FROM THE SITE DAILY.
- 6. ALL BUILDING MATERIALS AND BUILDING PRODUCTS STORED ON SITE WILL BE COVERED WITH PLASTIC SHEETING OR TEMPORARY ROOFS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER. THESE MATERIALS INCLUDE BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIAL, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS.

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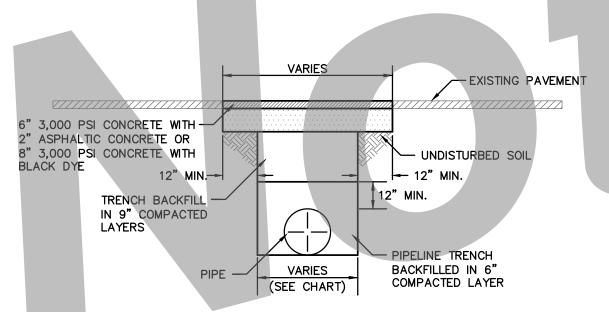
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### <u>NOTES</u>

- 1. IF "G" IS GREATER THAN 1/2", AT ITS NARROWEST POINT, THEN A FULL—CIRCLE SPACER OR "DUTCHMAN" MUST BE CUT AND PLACED IN THE GAP BEFORE THE SLEEVE IS USED TO CLOSE THE JOINT.
- 2. THE "DUTCHMAN" SPACER SHALL BE CUT TO A WIDTH NO LESS THAN 1/4" LESS THAN THE NARROWEST WIDTH OF "G".
- 3. EACH PIPE SPIGOT SHALL BE MARKED TO INDICATE THE POINT WHERE THE SLEEVE WILL BE PROPERLY CENTERED OVER THE POINT.
- 4. "FULL-CIRCLE" REPAIR CLAMPS ARE NOT APPROVED FOR JOINING PIPE. SUCH CLAMPS ARE SPECIFICALLY DESIGNED FOR REPAIRS ONLY.
- 5. IF "STEEL" SLEEVE IS USED, PROPERLY COAT BEFORE BACKFILLING. SEE NOTE 5, DRWG.  $A\!-\!30$  FOR COATING.

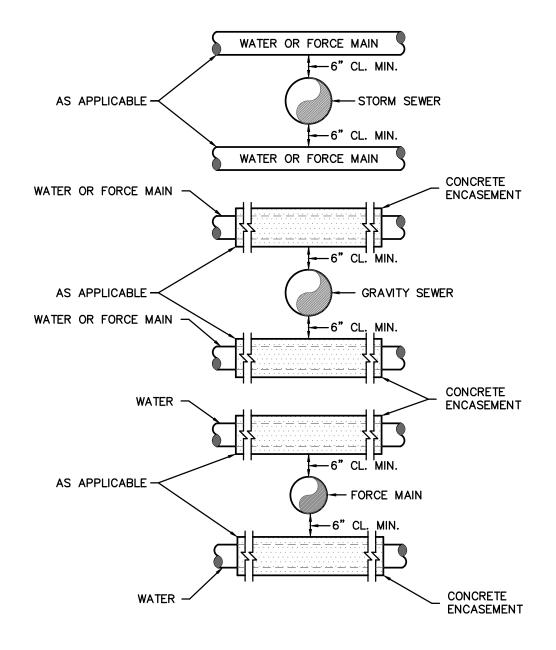
# SLEEVE INSTALLATION DETAIL



NOTE: MAXIMUM PAVEMENT WIDTH FOR CUT DEPTH OVER 6 FEET SHALL BE 8 FEET UNLESS NOTED OTHERWISE ON PLANS.

PIPE DIAMETER	MAXIMUM TRENCH WIDTH 0 — 6' CUT DEPTH	MAXIMUM PAVEMENT WIDTH O — 6' CUT DEPTH
6" TO 15"	16" + DIA.	40" + DIA.
18" TO 21"	20" + DIA.	44" + DIA.
24" TO 30"	24" + DIA.	48" + DIA.
33" TO 42"	36" + DIA.	60" + DIA.
48"+	36" + DIA	60" + DIA

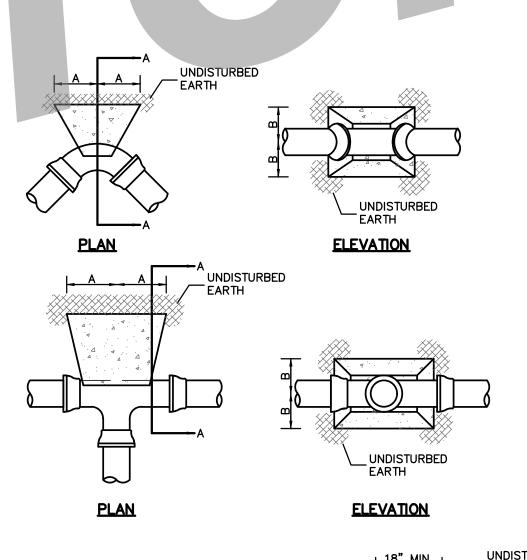
PAVEMENT REMOVAL & REPLACEMENT N.T.S.

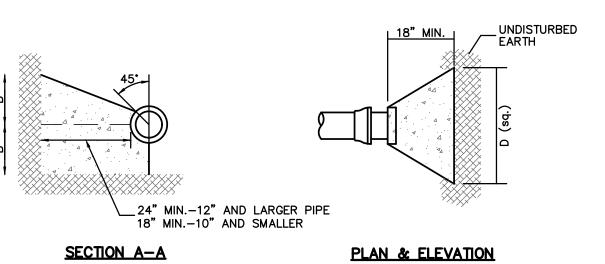


- NOTES:

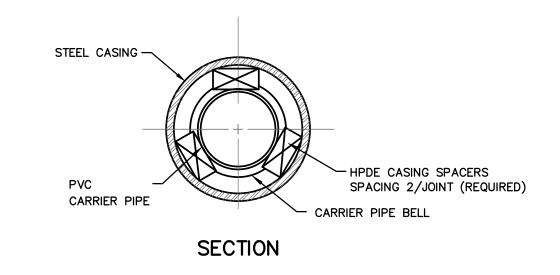
  1. CONCRETE ENCASEMENT TO EXTEND
  A MINIMUM OF 10' ON BOTH SIDES
  OF CROSSING.
- FOR ELEVATION OF PIPES, SEE PLANS.
   CONCRETE ENCASEMENT REQUIRED IF 18" VERTICAL SEPARATION IS NOT MAINTAINED.

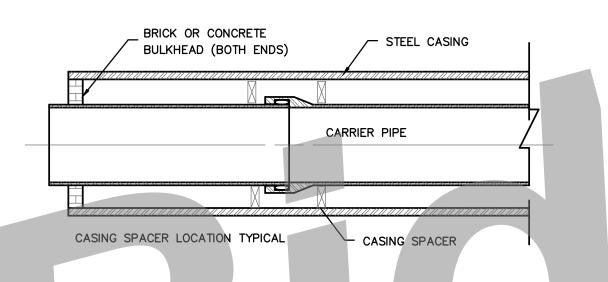
# SEPERATION DETAIL





STANDARD THRUST BLOCKS FOR WATER MAIN AND FORCE MAINS
N.T.S.





**ELEVATION** 

CASING DETAILS

6" 8" 10"	1/4 E A 8" 12"	BENDS  B  10"	A 6"	BENDS B 8"	1/16 I	BENDS B	Α	ES B	PLU C	JGS D
6" 8"	8" 12"	10"	6"					В	С	D
8"	12"			8"	3"	_ ••				
		12"	0"			8"	8"	8"	10"	15"
10"	16"		8"	10"	5"	9"	9"	12"	12"	20"
		14"	10"	12"	6"	10"	11"	14"	14"	25"
12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
16"	26"	20"	16"	18"	11"	13"	18"	20"	20"	38"
6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"
1 1 1	6" 6" 0" 2" 4"	6" 26" 6" 16" 8" 22" 0" 26" 2" 29" 4" 35"	6" 26" 20" 5" 16" 10" 3" 22" 13" 0" 26" 17" 2" 29" 21" 4" 35" 24"	6" 26" 20" 16" 6" 16" 10" 9" 6" 22" 13" 12" 0" 26" 17" 14" 2" 29" 21" 16" 4" 35" 24" 19"	6" 26" 20" 16" 18" 6" 16" 10" 9" 10" 8" 22" 13" 12" 13" 0" 26" 17" 14" 17" 2" 29" 21" 16" 21" 4" 35" 24" 19" 24"	6" 26" 20" 16" 18" 11" 6" 16" 10" 9" 10" 6" 8" 22" 13" 12" 13" 8" 0" 26" 17" 14" 17" 10" 2" 29" 21" 16" 21" 11" 4" 35" 24" 19" 24" 12"	6" 26" 20" 16" 18" 11" 13" 6" 8" 6" 8" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 10" 6" 8" 6" 6" 8" 6" 8" 6" 8" 6" 6" 8" 6" 8" 6" 6" 8" 6" 6" 8" 6" 6" 8" 6" 6" 6" 8" 6" 6" 6" 6" 8" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6"	6" 26" 20" 16" 18" 11" 13" 18" 6" 16" 10" 9" 10" 6" 8" 10" 8" 22" 13" 12" 13" 8" 10" 13" 0" 26" 17" 14" 17" 10" 13" 16" 2" 29" 21" 16" 21" 11" 16" 18" 4" 35" 24" 19" 24" 12" 20" 22"	6"       26"       20"       16"       18"       11"       13"       18"       20"         6"       16"       10"       9"       10"       6"       8"       10"       12"         3"       22"       13"       12"       13"       8"       10"       13"       16"         0"       26"       17"       14"       17"       10"       13"       16"       20"         2"       29"       21"       16"       21"       11"       16"       18"       24"         4"       35"       24"       19"       24"       12"       20"       22"       27"	6" 26" 20" 16" 18" 11" 13" 18" 20" 20"   5" 16" 10" 9" 10" 6" 8" 10" 12" 10"   8" 22" 13" 12" 13" 8" 10" 13" 16" 12"   0" 26" 17" 14" 17" 10" 13" 16" 20" 14"   2" 29" 21" 16" 21" 11" 16" 18" 24" 16"   4" 35" 24" 19" 24" 12" 20" 22" 27" 18"

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