

DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT 4751 BEST ROAD, SUITE 140 COLLEGE PARK, GEORGIA 30337-5600

June 10, 2022

Regulatory Division SAS-2001-06790

#### JOINT PUBLIC NOTICE Savannah District/State of Georgia

The Savannah District has received an application for a Department of the Army Permit, pursuant to Section 404 of the Clean Water Act (33 U.S.C. § 1344), as follows:

The comment period for the Department of the Army Permit application will close 30 days from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit, and must be submitted so as to be received on or before the last day of the comment period. Written comments concerning the Department of the Army Permit application must reference the Applicant's name and the Permit Application Number and be forwarded to the US Army Corps of Engineers (Corps) at the above address.

This Joint Public Notice announces a request for authorizations from both the U.S. Army Corps of Engineers and the State of Georgia. The applicant's proposed work may also require local governmental approval.

Application Number: SAS-2001-06790

- <u>Applicant</u>: Mr. Jonathan M. Crawford Cyber Housing, LLC 2743 Perimeter Parkway, Building 100, Suite 370 Augusta, Georgia 30909
- Agent: Mr. Stephen W. Dockery Nutter & Associates, Incorporated 360 Hawthorne Lane Athens, Georgia 30606

Location of Proposed Work: The project area is an approximately 41.7-acre portion of a 143.92-acre property, composed of four adjoining parcels, located at 2384 Gordon Highway in Augusta, Richmond County, Georgia (centered approximately at latitude: 33.4394, longitude: -82.1011). This project is located within the Middle Savannah River watershed/Butler Creek basin (12-digit Hydrologic Unit Code: 030601060602).

<u>Description of Work Subject to the Jurisdiction of the Corps</u>: The proposed project by Cyber Housing, LLC, a subsidiary of Southeastern Development Associates, involves

the construction of a two-lane road to serve as the entrance drive for the proposed Miller's Crossing (Section 1), a residential development consisting of 117 townhomes and 65 single family homes. Approximately 9,500 cubic yards of fill material would be placed in 1.01 acres of wetlands and 199 linear feet (0.014-acre) of perennial stream as a result of the road construction. An 80-foot, 48-inch reinforced concrete pipe (RCP) would convey flows from the perennial stream channel under the road, and an 80-foot, 24-inch RCP culvert would convey flows from wetlands separated by the road. A total of 6.06 legacy wetland mitigation credits and 1,069 legacy stream mitigation credits would be purchased as compensation for the aquatic resource impacts.

#### BACKGROUND

On July 20, 2001, Southeastern Development Associates was issued verification under Nationwide Permits No. 7 and No. 14 (NWP 7 & 14), for proposed adverse impacts to 188 linear feet of intermittent stream and 0.22-acre of wetland in conjunction with the construction of road crossing and stormwater outfall structure for Belfair Lakes -Section 1. The Applicant was required to purchase 1.5 legacy wetland mitigation credits as compensation for adverse impacts incurred from this work. The legacy wetland credits were purchased from the Millhaven Mitigation Bank on August 10, 2001.

On July 5, 2018, Southeastern Development Associates was issued verification under Nationwide Permit No. 14 (NWP 14), for proposed adverse impacts to 162 linear feet (0.06-acre) of intermittent stream channel in conjunction with the construction of a new permanent entrance road for The Cottages at Elbow Branch residential development. The Applicant was required to purchase 664.2 legacy stream mitigation credits as compensation for adverse impacts incurred from this work. Southeastern Development Associates did not conduct the work authorized by the issued NWP due to a stipulation from the Georgia Department of Transportation (GDOT) that required the entrance road to be aligned with the existing median break. No legacy stream credits were purchased from a mitigation bank.

We understand that the current proposed Miller's Crossing – Section 1 residential development is a townhome community that would include single family residential houses. Additional portions of the property have been phased for future development, according to the applicant's overall development plan sheet (see enclosed Sheet 2). Per Richmond County zoning ordinances, a secondary entrance to Miller's Crossing would be required whenever a development constructs an excess of 100 single family lots. Miller's Crossing would then share a roadway with the adjacent Belaire Lakes subdivision.

#### STATE OF GEORGIA

<u>Water Quality Certification</u>: The Georgia Department of Natural Resources, Environmental Protection Division will review the proposed project for Water Quality Certification, in accordance with the provisions of Section 401 of the Clean Water Act. The applicant has requested a Water Quality Certification from the State of Georgia. Prior to issuance of a Department of the Army Permit for a project located in, on, or adjacent to the waters of the State of Georgia, review for Water Quality Certification in accordance with Section 401 of the Clean Water Act is required. A reasonable period of time, which shall not exceed one year, is established under the Clean Water Act for the State to act on a request for Water Quality Certification, after which, issuance of such a Department of the Army Permit may proceed.

<u>State-owned Property and Resources</u>: The applicant may also require assent from the State of Georgia, which may be in the form of a license, easement, lease, permit or another appropriate instrument.

#### **U.S. ARMY CORPS OF ENGINEERS**

The Savannah District must consider the purpose and the impacts of the applicant's proposed work, prior to a decision on issuance of a Department of the Army Permit.

<u>Cultural Resources Assessment</u>: Georgia's Natural, Archaeological, and Historic Resources GIS (GNAHRGIS) and National Register of Historic Places (NRHP) mapping does not indicate that there are natural, archaeological, or historic resources within the proposed project's permit area. A Georgia Historic Railroad 1833 to 2015 (OID 36) is located approximately 60 meters north of the project area. A Phase I cultural resources survey was completed by Nutter & Associates, Incorporated, within the project area in February 2022. Based on this survey and as discussed in the attached report of findings, no sites listed or eligible for listing on the NRHP are present within the subject site. The Corps is presently reviewing available information in order to further assess the potential for effects to cultural and/or historic resources as a result of the project's construction. Presently unknown archaeological, scientific, prehistorical, or historical data may be located at the site and could be affected by the proposed work.

Endangered Species: Pursuant to Section 7(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. § 1531 et seq.), we request information from the U.S. Department of the Interior, Fish and Wildlife Service, the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service; or, any other interested party, on whether any species listed or proposed for listing may be present in the area. Based on the *IPaC Trust Resource Report,* no Federally-designated critical habitats are located onsite. However, this report does list the following Federally-protected species that may potentially be affected at this location: endangered Red-cockaded Woodpecker (*Picoides borealis*),

threatened Wood Stork (*Mycteria americana*), candidate Gopher Tortoise (*Gopherus polyphemus*), candidate Monarch Butterfly (*Danaus plexippus*), and endangered Relict Trillium (*Trillium reliquum*). The Applicant conducted a habitat assessment for the project site, concluding that the proposed development of the site is not anticipated to affect any of the federally listed species or their preferred habitat.

<u>Public Interest Review</u>: The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and in general, the needs and welfare of the people.

<u>Consideration of Public Comments</u>: The U.S. Army Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Native American Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

<u>Application of Section 404(b)(1) Guidelines</u>: The proposed activity involves the discharge of dredged or fill material into the waters of the United States. The Savannah District's evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act, including an evaluation of practicable alternatives. The Applicant's current proposal reviewed two (2) onsite alternatives and five (5) off-site alternatives for construction of the development. All alternatives will be further evaluated in conjunction with the application.

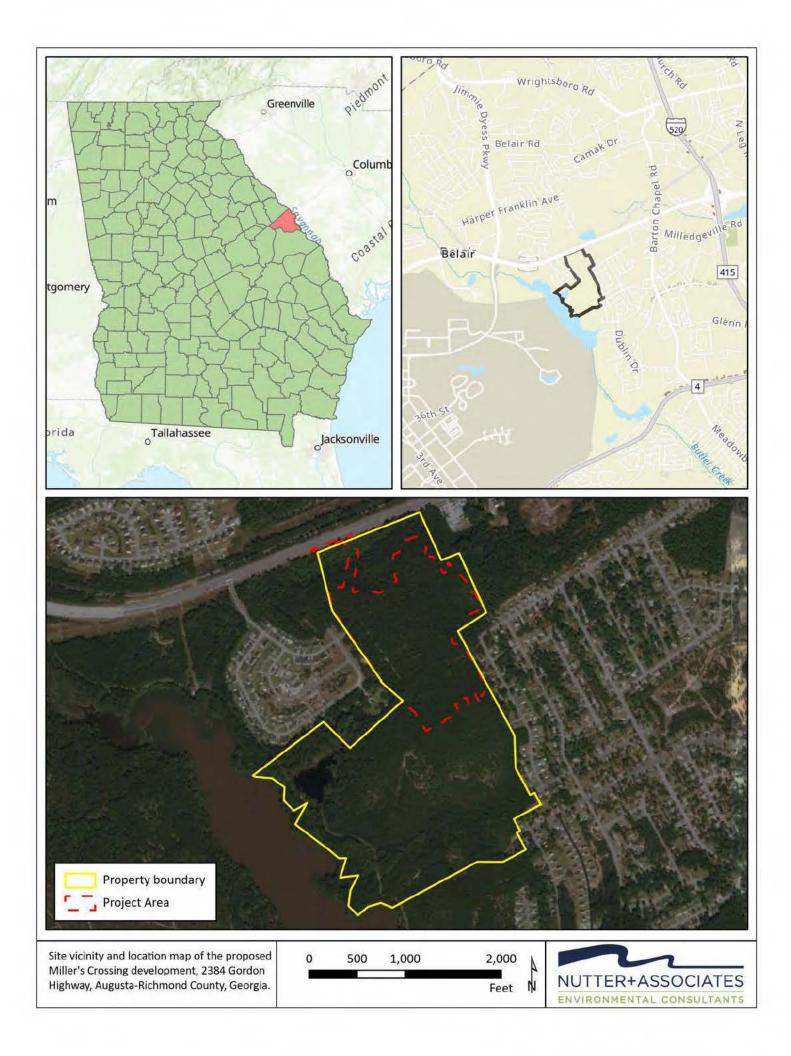
<u>Public Hearing</u>: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application for a Department of the Army permit. Requests for public hearings shall state, with particularity, the reasons for requesting a public hearing. The decision whether to hold a public hearing is at the discretion of the District Engineer, or his designated appointee, based on the need for additional substantial information necessary in evaluating the proposed project.

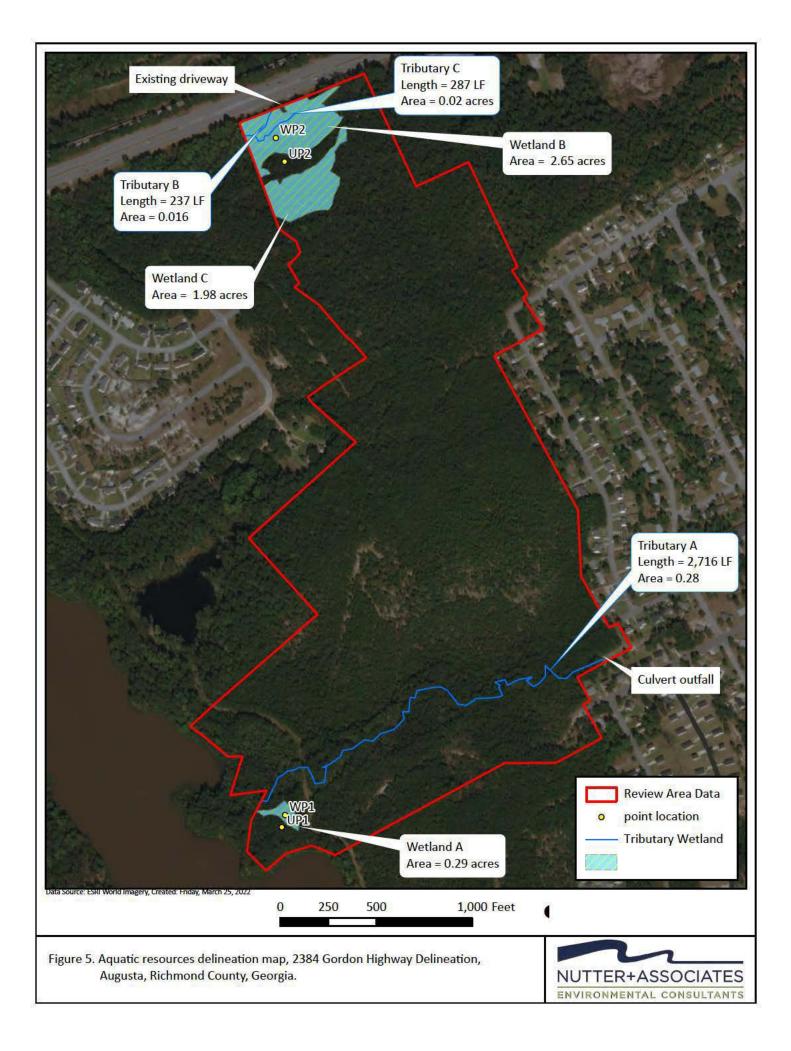
<u>Comment Period</u>: Anyone wishing to comment on this application for a Department of the Army Permit should submit comments in writing to: Commander, U.S. Army Corps of Engineers, Savannah District, Attention: Justin Edwards, 4751 Best Road, Suite 140, College Park, Georgia 30337-5600, no later than **30 days** from the date of this notice. Submittal of comments via email, to the address listed below, is also acceptable. Please refer to the Applicant's name (Cyber Housing, LLC) and the assigned Regulatory file number (SAS-2001-06790) in your comments.

If you have any further questions concerning this public notice, please contact Justin M. Edwards, Regulatory Specialist, Piedmont Branch at 678-422-2724, or justin.m.edwards@usace.army.mil.

Encls

- 1. Site Vicinity and Location Map
- 2. Aquatic Resource Delineation Map
- 3. Project Development Plan
- 4. Aquatic Resource Impact Exhibit
- 5. Off-Site Alternatives Drawings





# **DEVELOPMENT PLAN FOR:** MILLER'S CROSSING - SECTION I **AUGUSTA-RICHMOND COUNTY, GEORGIA**

#### GENERAL NOTES:

- 1. ALL EXISTING UTILITIES SHOWN AND TOPOGRAPHIC INFORMATION TAKEN FROM SURVEY BY DAVID JACHENS DATED JUNE 2021. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND
- PROTECTION OF EXISTING UTILITIES . ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY FOLLOWING CONSTRUCTION IN ACCORDANCE WITH THE GEORGIA MANUA OF EROSION AND SEDIMENT CONTROL
- 3. ALL INITIAL PHASE BMP'S SHALL BE INSTALLED PRIOR TO ANY LAND DISTRUBING ACTIVITIES 4. ANY NECESSARY TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL GUCC
- CURRENT EDITION 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS RIGHT OF WAY MONUMENTS
- SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION ALL DRAINAGE EASEMENTS AND DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.
- ALL CONSTRUCTION WITHIN AUGUSTA RIGHTS-OF-WAYS SHALL CONFORM TO AUGUSTA GEORGIA STANDARDS AND SPECIFICATIONS. 8. ALL INITIAL PHASE BMP'S MUST BE PLACED PRIOR TO CLEARING, NO LAND DISTURBING ACTIVITY SHALL BE DONE UNTIL INITIA PHASE BMP INSTALLATION IS COMPLETED.
- 9. CONTRACTOR SHALL CONTACT THE INSPECTION DIVISION OF THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO STARTING WORK ON THE PROJECT
- 10. THERE ARE NO KNOWN GRAVESITES CEMETERIES OR BURIAL GROUNDS LOCATED ON THIS PROPERTY, SHOULD ANY SUCH SITE DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE PLANNING COMMISSION IMMEDIATELY. APPROVAL BY AUGUSTA GEORGIA IS FOR THE IMPROVEMENTS SHOWN IN THE SITE PLAN, ANY VARIATION FROM THE APPROVE 11. SITE PLAN MUST BE APPROVED BY THE COUNTY ENGINEER 12 LAND USE INTENDED TO BE RESIDENTIAL
- 13. THE COST OF INSPECTION BY THE CITY OF AUGUSTA-RICHMOND COUNTY'S DEPARTMENT OF PUBLIC WORKS AND ENGINEERIN BEFORE OR AFTER REGULAR WORKING HOURS ON SATURDAYS SUNDAYS OR LEGAL HOLIDAYS SHALL BE PAID FOR BY THE INDIVIDUAL RE QUESTING THE INSPECTION AT A RATE OF 1-1/2 TIMES THE REGULAR SALARY PER HOUR OF THE INSPECTOR PLU 7 65% FROM THE EMPLOYER'S FICA / MEDICARE MATCH, APPROVAL FOR THE INSPECTION OUTSIDE OF NORMAL WORKING HOUL FROM THE COUNTY ENGINEER 48-HOURS IN ADVANCE, PRIOR TO THE COMMENCEMENT OF WORK REQUIREIN iside of Normal Working Hours. The Individual requesting the inspection shall sign a form which is PARTMENT OF PUBLIC WORKS AND ENGINEERING AGREEING TO PAY THE OVERTIME. THE INDIVIDUA PECTION SHALL SIGN A FORM WHICH IS FURNISHED BY THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AREEING TO PAY THE OVERTIME. THE INDIVIDUAL REQUESTING THE INSPECTION WILL BE BILLED BY THE DEPARMENT OF PUBLIC WORKS AND ENGINEERING FOR PAYMEN
- 14. A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH THE COUNTY ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION. THIS MEETING SHALL BE SCHEDULED WITH THE DEPARTMENT OF PUBLIC WORKS AT THE TIME THE NOTIFICATION OF WORK COMMENCEMENT IS GIVEN
- THE CONTRACTOR SHALL BE REQUIRED TO HAVE ON SITE A COPY OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARD DETAILS CURRENT EDITION.
- ALL STORM PIPE AND PAVING SHALL BE IN ACCORDANCE WITH GA D.O.T. CONSTRUCTION STANDARDS 17. THE CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF ALL EXISTING PIPES & ROAD GRADE ELEVATION OF EXISTING ROADS **BEFORE BEGINNING CONSTRUCTION**
- 18. ALL LOT CORNERS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE REPLACED BY THE CONTRACTOR.
- 19. DATE OF FIELD SURVEY: JUNE 2021
- 20. THE CONTRACTOR SHALL COORDINATE THE WORK OF THE UTILITY COMPANIES & SCHEDULE THE INSTALLATION OF ANY CROSSING 21. COMPACTION IN ALL FILL AREAS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DENSITY THE CONTRACTOR SHAL EMPLOY A SOILS TESTING FIRM TO PERFORM A SUFFICIENT NUMBER OF TESTS TO CERTIFY COMPACTION REQUIREMENTS HAVE BEEN MET. THESE TESTS SHALL BE AT THE CONTRACTORS EXPENSE.
- 22. ACCORDING TO FEMA FIRM HAZARD MAP #13245C 0105 G DATED NOVEMBER 15 2019 NO PORTION OF THIS PROPERTY LIES WITHIN A DESIGNATED 100 YEAR FLOOD PLAIN.
- 23. ALL WATER AND SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH AUGUSTA/RICHMOND COUNTY SPECIFICATIONS
- 24. SOURCE OF VERTICAL DATUM: NAVD 1988. 25. CURRENT ZONING = R1-C
- 26. THERE ARE FIELD DELINEATED WETLANDS ON THIS PROPERTY
- 27. TAX MAP PARCELS 082-0-002-00-0 082-0-003-00-0 & 082-0-007-00-0.

### INITIAL BMP INSTALLATION INSPECTION

CERTIFICATION OF COMPLIANCE:

I CERTIFY THAT I HAVE VISITED THE ABOVE NAMED PROJECT SITE WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION ACTIVITIES BEGAN AND HAVE DOCUMENTED ANY AND ALL DEFICIENCIES ON THE SITE THAT EXISTED AT THE TIME OF MY VISIT.

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THAT THE ABOVE PROJECT WAS IN COMPLIANCE WITH THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN AND THE GENERAL NPDES PERMIT NO. GAR 100003 ON THE DATE NOTED. ANY NON-COMPLIANCE AREAS FOUND ARE LISTED ABOVE AND HAVE BEEN REPORTED TO THE CONTRACTOR AND OWNER/OPERATOR.

#### SCOTT L. JOHNSON P.E. DATE OF INSPECTION

\*\*\* CONTRACTOR OR OWNER/OPERATOR SHALL NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY FOLLOWING COMPLETION OF INITIAL PHASE BMP INSTALLATION. FAILURE TO DO SO WILL CONSTITUE A NON-COMPLIANCE ISSUE.

#### E,S&PC PLAN DESIGNER

SCOTT L. JOHNSON, P.E. LEVEL 2 CERTIFICATION #0000002172 EXPIRATION DATE - 02/01/21 PHONE: (706) 465-0900

### STATEMENT OF CERTIFICATION

I AM THE OWNER OF THE PROPERTY AFFECTED BY THIS SITE PLAN. PRIOR TO REQUESTING A CERTIFICATE OF OCCUPANCY, I WILL SUBMIT A NOTARIZED STATEMENT AS FOLLOWS, "I CERTIFY THAT THE SITE IMPROVEMENTS ARE COMPLETE AND IN ACCORDANCE WITH PLANS AND SPECIFICATIONS." THIS CERTIFICATION WILL BE BASED ON OBSERVATIONS OF AND SUPERVISION OF CONSTRUCTION BY MY REPRESENTATIVE OR ME. I UNDERSTAND THAT A CERTIFICATE OF OCCUPANCY WILL NOT BE APPROVED UNTIL THIS CERTIFICATION HAS BEEN MADE.

NOTE: AN ELECTRONIC COPY OF THE AS-BUILT OF THIS PROJECT WILL BE PROVIDED TO THE AUGUSTA ENGINEERING DEPARTMENT PRIOR TO ANY C.O. BEING ISSUED.

Soil erosion control measures must be in place prior to any land disturbing activity



# OWNER/DEVELOPER SOUTHEASTERN DEVELOPMENT 2743 PERIMETER PARKWAY, BLDG. 100 SUITE 370 **AUGUSTA, GA 30909** (706) 854-6710



VICINITY MAP N.T.S.

# **INDEX TO DRAWINGS**

1.) COVER SHEET 2.) OVERALL DEVELOPMENT PLAN 3.) SECTION I PLAN 4.) SITE PLAN 5.) SITE PLAN 6.) SITE PLAN 7.) UTILITY PLAN 8.) UTILITY PLAN 9.) UTILITY PLAN

11.) SAWYER DRIVE PLAN & PROFILE

- 17.) SAPLING STREET PLAN & PROFILE
  - 18.) BELFAIR LAKES PLAN & PROFILE 19.) SAW DUST LANE PLAN & PROFILE

16.) FLINT STREET PLAN & PROFILE

- 20.) **PROFILES**
- 10.) SAWYER DRIVE PLAN & PROFILE 21.) STORM WATER MANAGEMENT PLAN 31.) GDOT ACCESS PLAN
- 24.) FINAL E,S&PC PLAN 15.) HEARTWOOD DRIVE PLAN & PROFILE 25.) E,S&PC DETAILS 26.) E,S&PC DETAILS 27.) E,S&PC DETAILS 28.) CONSTRUCTION DETAILS 29.) CONSTRUCTION DETAILS
  - **30.) CONSTRUCTION DETAILS**

- NDARDS CONSTRUCTION SPECIFICATIONS AND DETAILS (LATEST PUBLICATION)
- PARTMENT (AED) SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30AM TO 5:00PM MONDAY-FRIDAY EXCLUDING AUGUSTA GEORGIA HOLIDAYS) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY WITHIN AUGUSTA GEORGIA RIGHT-OF-WAY CONTACT AED AT (706-821-1706)
- THE AUD ENGINEERING DIVISION SHALL BE NOTIFIED AT LEAST 48 HOURS (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM MONDAY- FRIDAY EXCLUDING AUGUSTA GEORGIA HOLIDAYS) PRIOR TO ANY CONSTRUCTION TIE-INS OR TESTING OF WATER OR WASTEWATER UTILITIES NO WORK SHALL COMMENCE UNTIL CONTACT IS MADE WITH THE PROJECT'S AUD INSPECTIONS
- DISTURBANCE OF ANY SURVEY MARKERS OR MONUMENTS REQUIRES RE-ESTABLISHMENT BY A PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. DOCUMENTATION OF THE WORK MUST BE PRESENTED T THE ALLD ENGINEERING DIVISION REFORE THE PROJECT IS COMPLETED ANY DISCREPANCIES ERRORS OR OMISSIONS DISCOVERED ON PLANS OR IN THE SPECIFICATIONS SHOULD BE NOTED ON THE CONTRACT PROPOSAL AND DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO
- CORRECT THE SAME 9 ALL CONCRETE SHALL AND HAVE MINIMUM 28-DAY STRENGTH OF 3 000 F 10 IF A CONFLICT ARISES BETWEEN THE NEW WORK AND THE EXISTING WATER AND SEWER UTILITIES DURING THE COURSE OF CONSTRUCTION IT WILL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER/CONTRACTOR AT
- THEIR EXPENSE AND NOT AUD'S TO CORRECT THE DISCREPANCY AS DIRECTED BY A REPRESENTATIVE OF AUD ALL EXISTING AUGUSTA ROAD STRUCTURES SUCH AS STORM MANHOLES. INLET BOXES, ETC. SHALL BE MAINTAINED AND OR ADJUSTED AS IS APPROPRIATE TO ENSURE PROPER U
- 12 ALL MATERIALS DEEMED SALVAGEABLE BY AUD ARE THE PROPERTY OF AUGUSTA GEORGIA AND WILL BE REMOVED AND STORED ON SITE IN A SECURED AREA DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR AND AUGUSTA UTILITIES DEPARTMEN 13 FOR PRIVATE DEVELOPMENTS AUD SHALL NOT BE RESPONSIBLE FOR PAVEMENT PATCHING AND/OR REPLACEMENT AND THE SITE RESTORATION WHENEVER AUD PERFORMS REPAIR REPLACEMENT OR INSTALLATION
- 14 IF ALLO MUST REPAIR OR REPLACE LITUITIES ON THE WORK SITE THEN THE RESPONSIBLE PARTY SHALL ARRANGE FOR ACCESS BY ALLO AS REQUIRED TO REPAIR OR REPLACE THE LITUIT 15 A MINIMUM (20') UTILITY EASEMENT CENTERED OVER ALL WATER LINES AND A MINIMUM 20' UTILITY EASEMENT CENTERED OVER ALL WASTEWATER LINES SHALL BE DEEDED TO AUGUSTA GEORGIA AT COMPLETION AND AS LISTED IN AUD'S WATER AND SANITARY SEWER SYSTEMS-DESIGN STANDARDS CONSTRUCTION SPECIFICATIONS AND DETAILS
- 16 A RIGHT-OF-WAY ENCROACHMENT PERMIT SHALL BE OBTAINED FROM AED PRIOR TO COMMENCING ANY WORK WITHIN AN AUGUSTA GEORGIA RIGHT-OF-WAY THE UTILITIES ENCROACHMENT PERMIT MUST BE APPLIED FOR THROUGH AUD 7 A GEORGIA DOT RIGHT-OF-WAY ENCROACHMENT PERMIT MAY BE REQUIRED FOR WORK ON TEMPORARY OR PERMANENT STATE ROUTES CONTACT AUD ENGINEERING DIVISION TO DETERMINE IF A PERMIT IS REQUIRED
- THE UTILITIES ENCROACHMENT PERMIT MUST BE APPLIED FOR THROUGH AUD CONDITIONS OF THE PERMIT MUST BE COMPLIED WITH FULLY THE PERMIT MUST BE IN HAND A MINIMUM 24 HOURS NOTICE GIVEN TO GOOT PRIOR TO BEGINNING ANY WORK IN THE GDOT RIGHT-OF-WAY
- 8 TRAFFIC CONTROL DEVICES SHALL MEET AND BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ALSO A TRAFFIC CONTROL/DETOUR PLAN SHALL BE SUBMITTED TO CITY ENGINEER FOR APPROVAL AS NOTED IN THE AUGUSTA- RICHMOND COUNTY GEORGIA-RIGHTS OF WAY ENCROACHMENT GUIDELINES
- 9 THE CONTRACTOR AND THE AUD REPRESENTATIVE SHALL HAVE A COPY OF THE AUGUSTA- RICHMOND COUNTY GEORGIA-RIGHTS OF WAY ENCROACHMENT GUIDELINES DEVELOPMENT DOCUMENT #15 ADOPTED JUNI 1999 AMENDED AUGUST 2000 THE REQUIREMENTS SET FORTH IN THIS DOCUMENT SHALL BE ADHERED TO AT ALL TIMES
- 20 CLEARING AND GRUBBING SHALL BE AT THE CONTRACTOR'S DISCRETION SUBJECT TO AUD APPROVAL TO FACILITATE CONSTRUCTION 21 THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP'S) FOR FROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE MANUAL FOR FROSION AND SEDIMENT CONTROL IN GEORGIA SHALL BE INSTALLED
- AUD WATER NOTES

AND MAINTAINED AT ALL TIMES

- 1) AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A TAP. TIE-IN OCCURS. RESTRAINED JOINTS ARE INSTALLED BENDS. FITTINGS, FIRE HYDRANTS, VALVES AND
- PRESSURE TESTING CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM MONDAY-FRIDAY EXCLUDING AUGUSTA GEORGIA HOLIDAYSI 2) ALL PVC WATER LINES SHALL BE A MINIMUM DR-18 PVC MEETING AWWA C-900 AND/OR C-905 UNLESS OTHERWISE SHOWN OR SPECIFIE
- 3) ALL DIP WATER LINES SHALL BE CLASS 350 FOR LINES 16 DIAMETER AND SMALLER AND CLASS 300 FOR LINES 18 DIAMETER THROUGH 24 DIAMETER UNLESS OTHERWISE SPECIFIED OR SHOWL 4) ALL NEW WATER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER RECOMMENDATIONS
- 51 ALL WATER LINES SHALL BE TESTED, CHLORINATED, AND CHECKED FOR BACTERIA PER ALID'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND DETAILS COPPER WIRE (12-GAUGE INSULATED SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED WATER LINES WRAPPED AROUND SERVICE CORPORATIONS AND BROUGHT UP ON THE OUTSIDE OF ALL VALVE BOXES STUBBING OUT AT THE TOP TO FACILITATE TRACEABILITY THIS WIRE SHALL BE PROPERLY SPLICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY AND THEN INSULATED TO PROTECT AGAINST CORROSION (REFERENCE AUD DETAILS WHEN APPLICABLE)
- DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE ADD SIMILAR DEVICE TO CONDUIT PER AUD DETAIL 4 3 ALL WATER VALVES ON THE MAIN LINES INCLUDING HYDRANT LATERALS SHALL BE OPEN-LEFT IF INSTALLED SOUTH OF GORDON HIGHWAY (S R 10) OR OPEN-RIGHT IF INSTALLED NORTH OF GORDON HIGHWAY THE CONTRACTOR SHALL FURNISH INSTALL AND MAINTAIN A METER BOX AT THE TERMINATION POINT OF ALL WATER SERVICES METER BOXES WILL IN NO WAY BE PLACED UNDER DRIVEWAYS METER BOXES WILL
- PREFERABLY BE LOCATED IN THE CENTER OF THE LOT AND WITHIN 1' INSIDE OF THE R/W AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THE METER IS INSTALLED
- 10) WATER SERVICES SHALL HAVE MINIMUM DIAMETER OF 1 INCH (REFERENCE AUD DETAILS WHEN APPLICABLE)
- NEW WATER MAIN AND BE RECONNECTED TO THE EXISTING WATER METER 12) ALL EXISTING WATER SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTION THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE LIMITS OF CONSTRUCTS SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND THE SERVICES SHALL BE EXTENDED AND METER BOXES RELOCATED AS REQUIRED BEYOND AS RELOCATED AS REL HAS BEEN STERILIZED PRESSURE TESTED AND PUT INTO SERVICE IN THE EVENT THAT THE SERVICE LINE IS NOT ACTIVE A NEW WATER SERVICE WILL BE REQUIRED TO BE CONSTRUCTED
- 13) ALL WATER METERS SHALL BE PURCHASED FROM AUD CONSTRUCTION AND MAINTENANCE DIVISION 14) THE DEVELOPER/CONTRACTOR SHALL LOCATE WATER SERVICES AND VALVES BY ETCHING A W FOR THE WATER SERVICE AND A "V" FOR A VALVE IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE AND HIGHLIGHT THE ETCHING WITH BLUE PAINT PER THE APWA UNIFORM COLOR CODE IN THE EVENT THAT THE VALVE IS LOCATED BEHIND THE CURB OR PAVEMENT INVERT THE "V" MARKING SO THAT IT POINTS TO THE VALVE OUTSIDE THE ROADWA
- 15) FIRE HYDRANTS ARE TO BE LOCATED A MINIMUM OF ONE FOOT INSIDE EXISTING RIGHT-OF-WAY WITH A 3 FOOT RADIUS CLEARANCE 16) EXISTING FIRE HYDRANTS AND METERS THAT ARE REMOVED SHALL BE TURNED OVER TO AU 17) PER AUD'S WATER & SANITARY SEWER SYSTEMS-DESIGN STANDARDS CONSTRUCTION SPECIFICATIONS AND DETAILS:
- a) FOR BACKFLOW INSTALLATIONS FOR NON-RESIDENTIAL DEVELOPMENT A MINIMUM DOUBLE-CHECK BACKFLOW-PREVENTION DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF ALL SERVICES b) FIRE LINES REQUIRE A MINIMUM DOUBLE DETECTOR BACKFLOW DEVICE c) FOR BACKFLOW INSTALLATIONS FOR RESIDENTIAL DEVELOPMENTS A DUAL CHECK BACKFLOW DEVICE SHALL BE INSTALLED ON THE CUSTOMER'S SIDE OF THE SERVICE LINE AT THE POINT OF TIE-IN TO THE WATER METER
- d) FOR SOME MEDIUM HAZARD TO HIGH HAZARD LOCATIONS A REDUCED PRESSURE ZONE (RPZ) BACKFLOW DEVICE WILL BE REQUIRED 18) BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED PERSON WITHIN FIVE (5) WORKING DAYS OF INSTALLATION AND THE RESULTS FURNISHED TO THE AUD BACK FLOW INSPECTOR WITHIN 10 WORKING DAYS OF INSTALLATION PRIOR TO ANY WATER USE AUD SHALL BE NOTIFIED PRIOR TO TESTING CONTACT THE AUGUSTA UTILITIES BACK FLOW INSPECTOR AT 706-722-1639

# AUD SEWER NOTES

- 1 AN AUD INSPECTOR SHALL BE PRESENT OR SECTION LEFT UNCOVERED UNTIL INSPECTED BY THE INSPECTOR WHEN A CORE TAP TIE-IN OCCURS MANHOLE INSTALLED AND ALL REQUIRED TESTING CONTRACTOR IS TO PROVIDE AT LEAST 48 HOUR NOTICE (TWO WORKING DAYS) IN ADVANCE DURING REGULAR WORKING HOURS (8:30 AM TO 5:00 PM MONDAY-FRIDAY EXCLUDING AUGUSTA GEORGIA HOLIDAYS)
- 2 THE CONTRACTOR IS TO VERIFY THE INVERT ELEVATIONS (I E ) OF EXISTING PIPES PRIOR TO BEGINNING CONSTRUCTION 3 SEWER FORCE MAIN SHALL BE PVC DR-18 C-900 OR C-905 AS APPLICABLE OR DIP CLASS 350 EPOXY LINED
- 4 ALL NEW SEWER LINES SHALL BE INSTALLED PER PIPELINE MANUFACTURER REQUIREMENTS 5 COPPER WIRE (12-GAUGE INSULATED SINGLE STRAND) SHALL BE ATTACHED ALONG TOP OF ALL BURIED SEWER LINES TO FACILITATE TRACEABILITY THE WIRE SHALL RUN ALONG THE TOP OF THE MAIN AND ALONG
- INDIVIDUAL SERVICE LINES AND BROUGHT UP ON THE OUTSIDE OF ALL MANHOLES CLEANOUTS OR OTHER ABOVE GROUND FEATURES STUBBING OUT AT THE TOP FOR LOCATING PURPOSES THIS WIRE SHALL BE PROPERLY SPLICED WITH A WATER PROOF CONNECTOR FOR ELECTRICAL CONNECTIVITY AND THEN INSULATED TO PROTECT AGAINST CORROSION (REFERENCE AUD DETAILS WHEN APPLICABLE)
- DETECTOR TAPE SHALL BE 4 INCHES WIDE AND PLACED 2 FEET ABOVE PIPE ADD SIMILAR DEVICE TO CONDUIT PER AUD DETAIL 4 3
- 7 ALL TIE-INS TO EXISTING MANHOLES SHALL BE CORED UNLESS OTHERWISE APPROVED BY AUD INSPECTOR 8 ALL MANHOLES REQUIRE K OR N SEAL OR EQUAL RUBBER BOOTS UNLESS OTHERWISE APPROVED BY AUD INSPECTOR
- 9 NO CONNECTION SHALL BE MADE TO EXISTING WASTEWATER LINES UNTIL THE PROPOSED LINE IS INSPECTED AND APPROVED BY AUD'S ENGINEERING DIVISION
- 10 ALL WASTEWATER MANHOLES SHALL HAVE AN ELEVATION DROP OF 0.2 FOOT ACROSS THE INLET AND OUTLET INVERTS 11 WASTEWATER CLEAN-OUTS SHALL BE INSTALLED AT ALL INDIVIDUAL SERVICES AS SHOWN IN AUD-DETAILS AND SHALL NOT BE INSTALLED UNDER DRIVEWAYS OR ANY PAVED AREAS WITHOUT PRIOR APPROVAL FROM AUD
- 12 SERVICE LINES TO SANITARY SEWER MAIN SHALL BE BEDDED PER THESE AUD SPECIFICATIONS AND AUD DETAILS 3 MAXIMUM SANITARY SEWER INFILTRATION SHALL NOT EXCEED 100 GPD/INCH OF PIPE DIAMETER PER MILE
- 14 THE CONTRACTOR SHALL LOCATE SANITARY SEWER SERVICES BY ETCHING AN S IN THE CURB OR IN THE PAVEMENT IF NO CURB IS AVAILABLE AND HIGHLIGHT THE ETCHING WITH GREEN PAINT PER THE APWA UNIFORM
- COLOR CODE 5 FINISHED FLOOR ELEVATIONS OF ALL PROPOSED BUILDINGS SHALL BE A MINIMUM OF FIVE (5) FEET ABOVE THE INVERT ELEVATION OF THE WASTEWATER MAIN OR MANHOLE AT THE POINT OF TIE-IN IN INSTANCES WHERE THIS IS NOT POSSIBLE A BACKWATER VALVE SHALL BE INSTALLED IN THE SEWER SERVICE

- STORMWATER QUALITY CHART BRAND STRUCTURE SHEET STORM TYPE MODEL **OF UNIT** # STR. # TYPE # 4-6 LOTS DOWNSPOUT DISCONNECT NA NA SWQ-2 4-6 LOTS VEG. FILTER STRIP NA SWQ-3 4-6.21 POND WET POND WET POND NA
- **GIVILDESIGN**

- 12.) SAW DUST LANE PLAN & PROFILE 22.) INITIAL E,S&PC PLAN 13.) DOWEL STREET PLAN & PROFILE 23.) INTERMEDIATE E,S&PC PLAN 14.) BURL COURT PLAN & PROFILE

ALL CONSTRUCTION OF WATER DISTRIBUTION SYSTEMS AND WASTEWATER COLLECTION SYSTEM LINES SHALL BE IN ACCORDANCE WITH AUGUSTA UTILITIES DEPARTMENT (AUD) WATER & SANITARY SEWER SYSTEMS-DESIGN

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION SIZE AND MATERIAL OF ANY EXISTING WATER OR SANITARY SEWER UTILITY PROPOSED FOR CONNECTION OR USE BY THE PROJECT

CERTIFICATION STATEMENTS

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE

DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE

PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM

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

"I CERTIFY THAT THE PERMITTEE'S EROSION SEDIMENTATION AND POLLUTION CONTROL

IMPRISONMENT FOR KNOWING VIOLATIONS.

GAR 100003."

**DIRECT SUPERVISION."** 

PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND

PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT

PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT

"MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY

THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR

IN WHICH THE LAND-DISTRUBING 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.

TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY

0000002172

LEVEL II CERTIFICATION NO.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT

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DATE:

SCALE:

**DESIGNED BY:** 

CHECKED BY:

ACAD FILE:

DRAWING NO:

SHEET NO.

OF 31 SHEETS

2/01/24

EXPIRATION

CONTACT THE UTILITIES PROTECTION INC CALL BEFORE YOU DIG SERVICE (811) IN ORDER TO LOCATE UTILITIES PRIOR TO STARTING ANY EXCAVATION OR CONSTRUCTION THE LOCATIONS OF

#### NOTE:

CONTRACTOR TO REMOVE ALL EXISTING ABOVE GROUND AND BELOW GROUND STRUCTURES AND UTILITIES ON THE SIT UNLESS STATED OTHERWISE.

RAWA NT

20'55" E 546.

FIELD DELINEATED WETLANDS (TYP.)

TLOOVED OUTSEE EVEN BANK

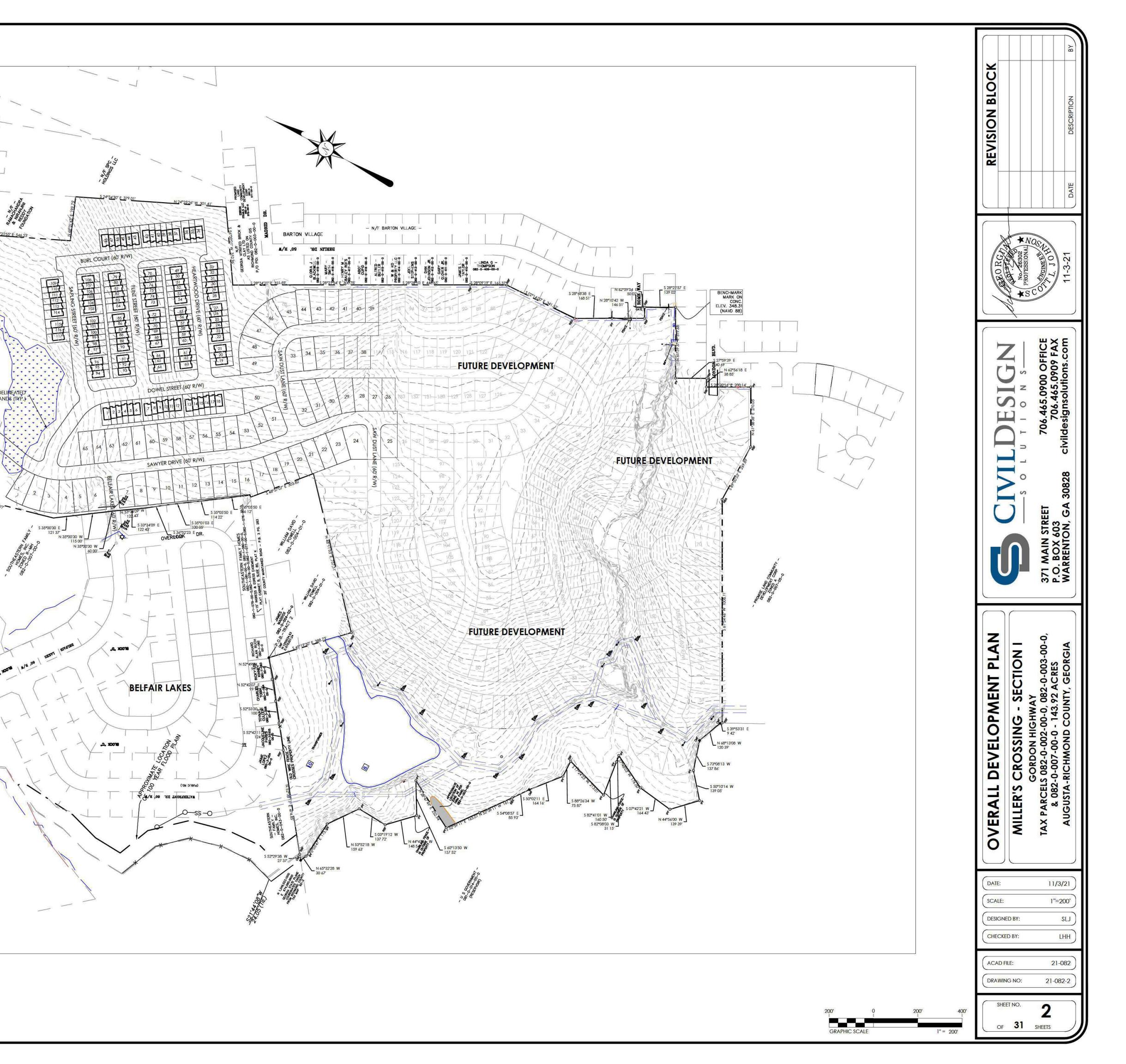
#### NOTE:

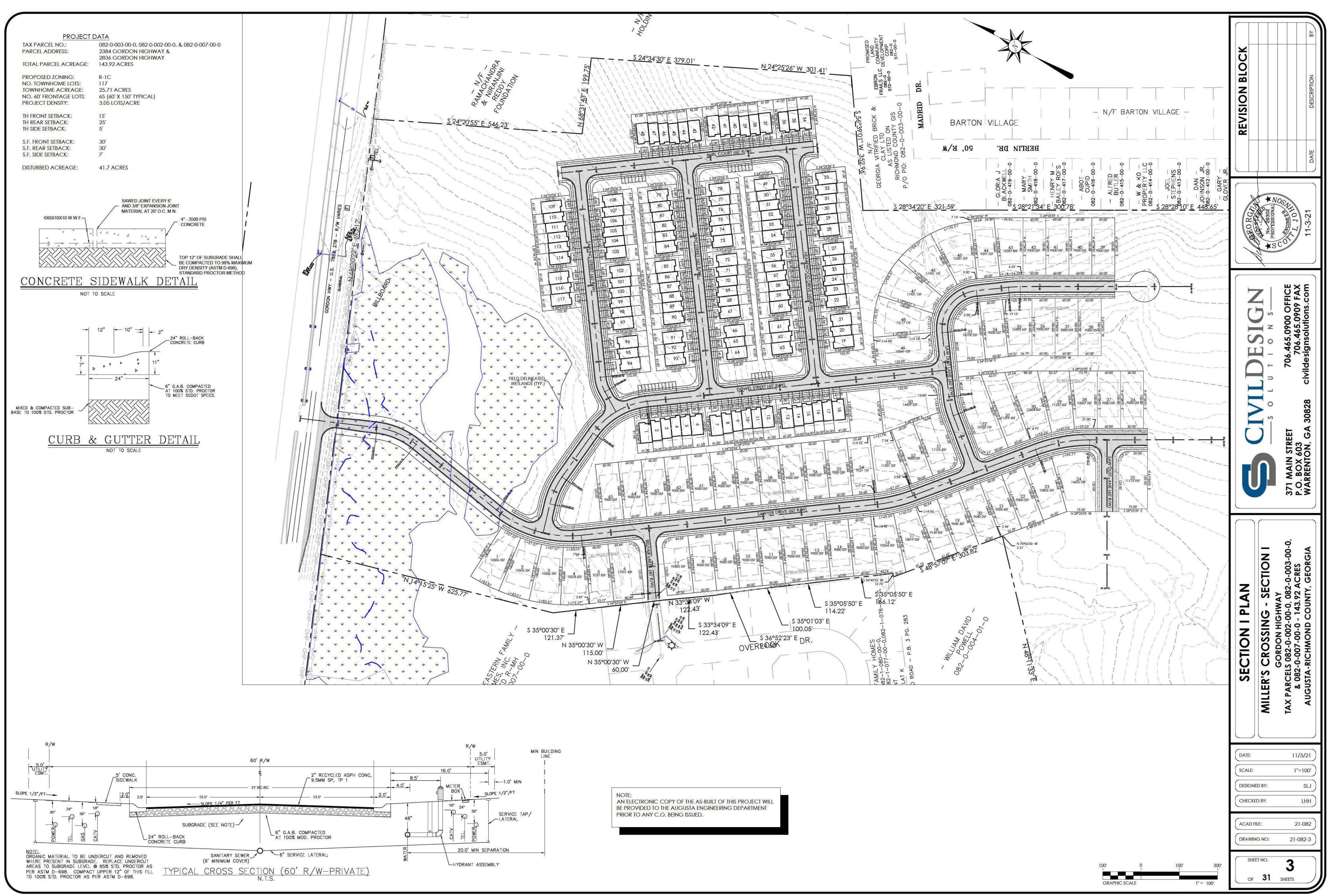
ANY EXISTING BUILDINGS, PAVING, FENCING, ETC. TO BE REMOVED MUST BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

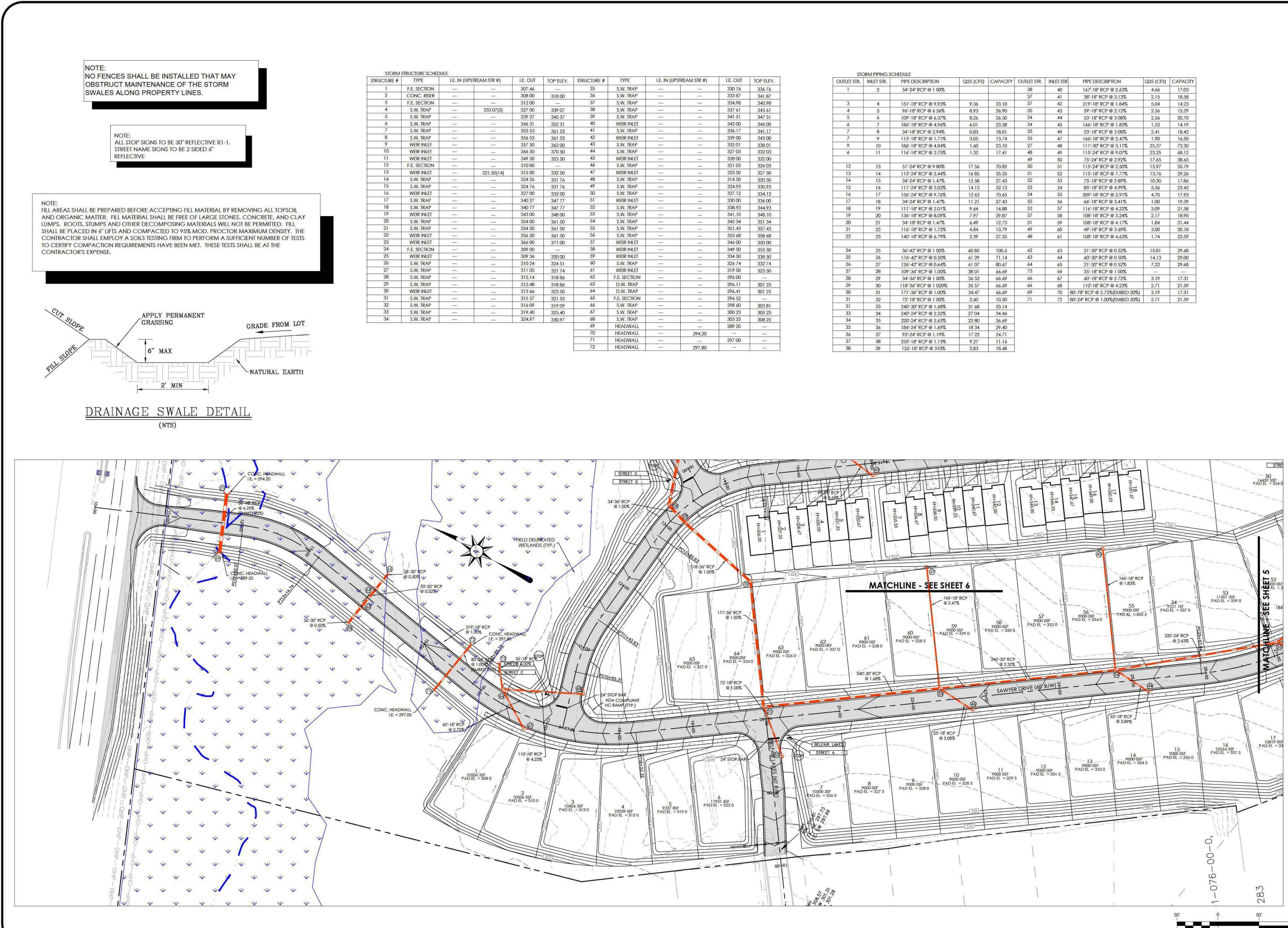
NOTE: ALL EXISTING WATER SERVICE LINES AND APPURTENANCES TO BE REMOVED. ANY EXISTING WATER METER NOT TO BE RE-USED MUST BE RETURNED TO AUGUSTA UTILITIES DEPARTMENT.



Know what's **below.** Call before you dig. Soil erosion control measures must be in place prior to any land disturbing activity

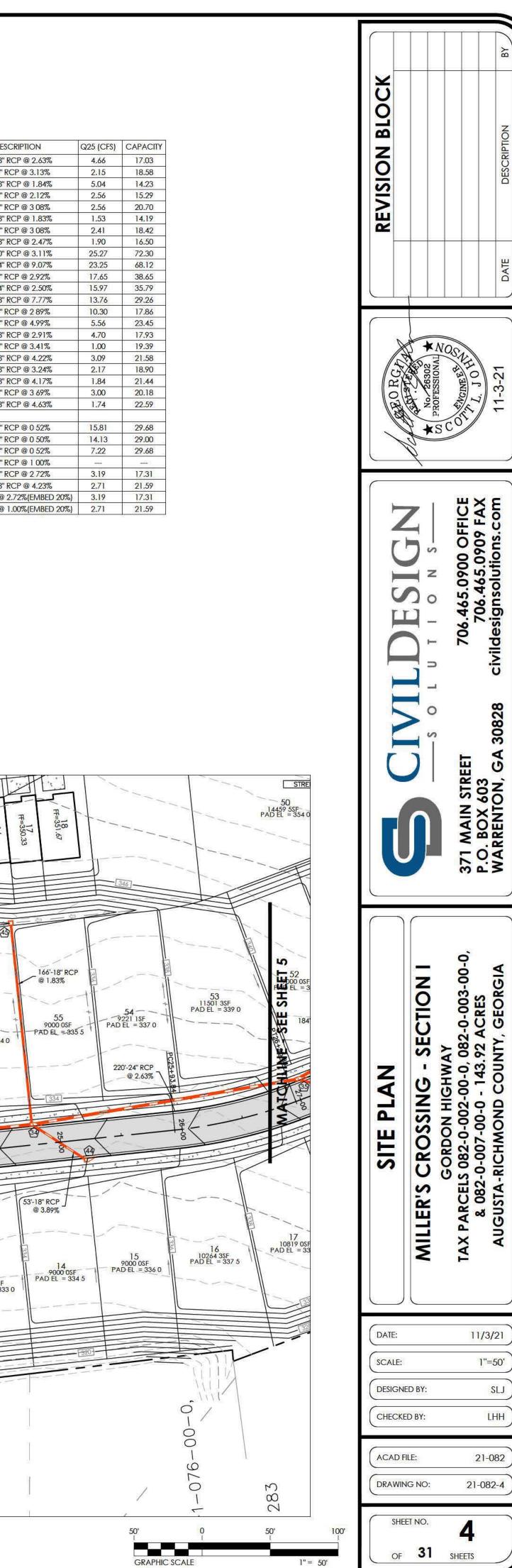


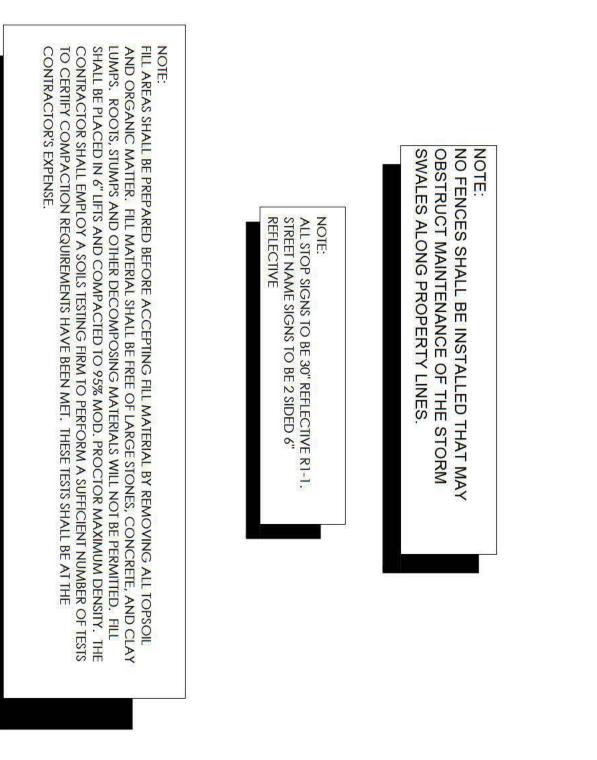


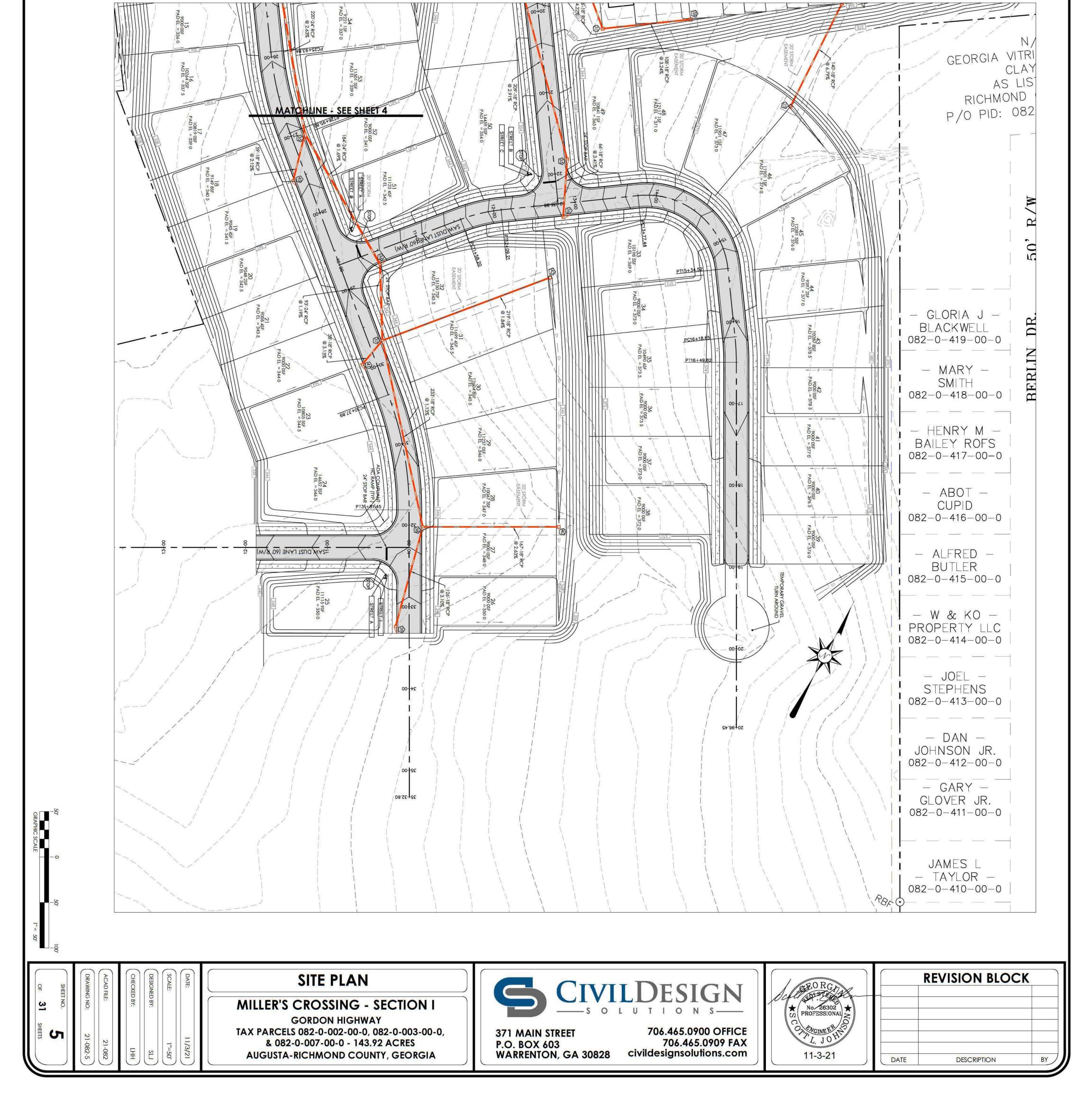


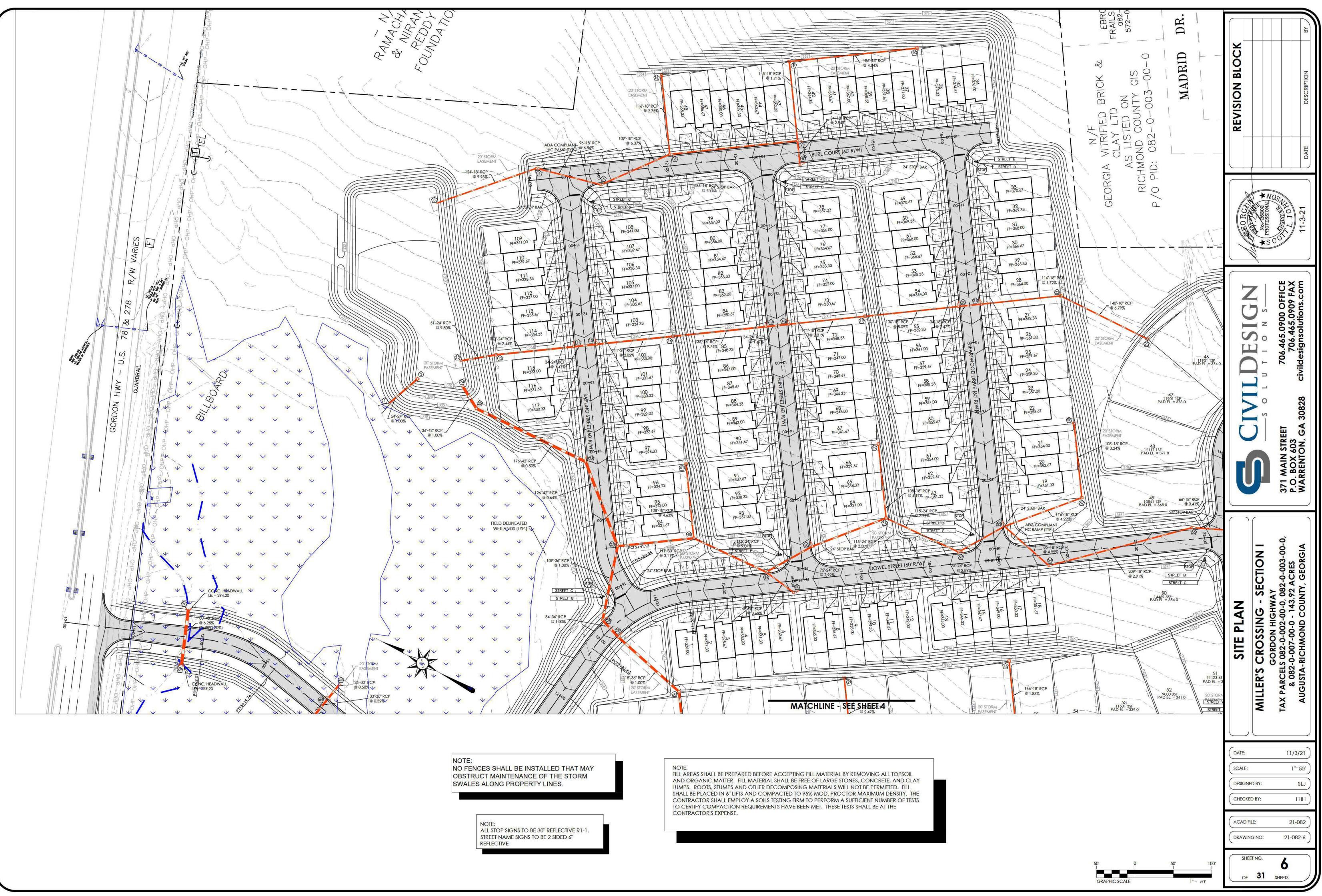
REAM STR #)	I.E. OUT	TOP ELEV.	STRUCTURE #	TYPE	I.E. IN (UPS	STREAM STR #)	I.E. OUT	TOP ELEV.
1.000 C	307.46	1,444	35	S.W. TRAP	8 <del>2-04</del>		330 76	336 76
( <del></del> )	308 00	318 00	36	S.W. TRAP	8 <del></del>	2000	333 87	341 87
1999 S	312 00	9 <u>222</u> 2	37	S.W. TRAP	2 <del>2.00</del>	>++<	334.98	340.98
333 07(5)	327 00	339 07	38	S.W. TRAP	(22.22)		337 61	343 61
3 <del>22</del> -3	339 37	345 37	39	S.W. TRAP	(222)		341 51	347 51
0121	346 31	352 31	40	WEIR INLET		1	342 00	346 00
8 <u>1</u> 21	355 53	361 53	41	S.W. TRAP	201205	1.225	336.17	341.17
0029	356 53	361 53	42	WEIR INLET	1022	Villa	339 00	343 00
0000	357 50	362 00	43	S.W. TRAP	1022	V <u>=5</u>	332 01	338 01
	366 50	370 50	44	S.W. TRAP	1222	1.20	327 03	332 03
	349 50	353 50	45	WEIR INLET	10000	1.228	328 00	332 00
	310 00	1.000	46	S.W. TRAP	10-10-		321 03	326 03
321.50(14)	315 00	332 50	47	WEIR INLET	2.00		323 50	327 50
and	324 26	331 76	48	S.W. TRAP	2000		314 50	320 50
9999 st	324 76	331 76	49	S.W. TRAP	(1997)		324.93	330.93
(1000) (1000)	327 00	332 00	50	S.W. TRAP	(1777)		327.12	334.12
1222.7	340 27	347 77	51	WEIR INLET	0 <del>200</del>	1.444	330 00	336 00
1000	340 77	347 77	52	S.W. TRAP	00000	5. <del>444</del>	338.93	344.93
2123	343 00	348 00	53	S.W. TRAP	() make	1.23	341.10	348.10
0.123	354 00	361 50	54	S.W. TRAP	(22.22)	1.2.8	345 34	351 34
<u>1945</u> 2	354 50	361 50	55	S.W. TRAP	(111)	VOES	351.43	357.43
0000	356 50	361 50	56	S.W. TRAP	<u> 2011/00</u>	VCES	353 68	358 68
	366 00	371 00	57	WEIR INLET	2012	A772	346 00	350 00
	309 00	10000	58	WEIR INLET	10222	1000	349 50	353 50
	309 36	320 00	59	WEIR INLET	1020	100	334 50	338 50
	310 24	324 51	60	S.W. TRAP	10000		326 74	332 74
	311 05	321 74	61	WEIR INLET	10000		319 50	323 50
	312.14	318 86	62	F.E. SECTION	27.00		296 00	
	312.48	318 86	63	D.W. TRAP	(2700)	) <del></del>	296.11	301 25
No.	313 66	323 50	64	D.W. TRAP	(277775)		296.41	301 25
	315 37	321 53	65	F.E. SECTION	3 <del></del>	) <del></del>	296 52	
11113	316 09	319 09	66	S.W. TRAP	0		298 60	303 81
<u></u>	319.40	325.40	67	S.W. TRAP	3 <del>566</del>	1	300 23	305 23
01133	324.97	330.97	68	S.W. TRAP	()	1	303 25	308 25
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	69	HEADWALL	(52.22)	1.22	289 20	0111
			70	HEADWALL	(22.222)	294.20	- <u> </u>	2 <u>011</u> 0
			71	HEADWALL	1000		297 00	2 <u>001</u> 2
			SUL 611	LANK CARLEND STATISTICAL DO		1.52	CSOMMOND STOL	

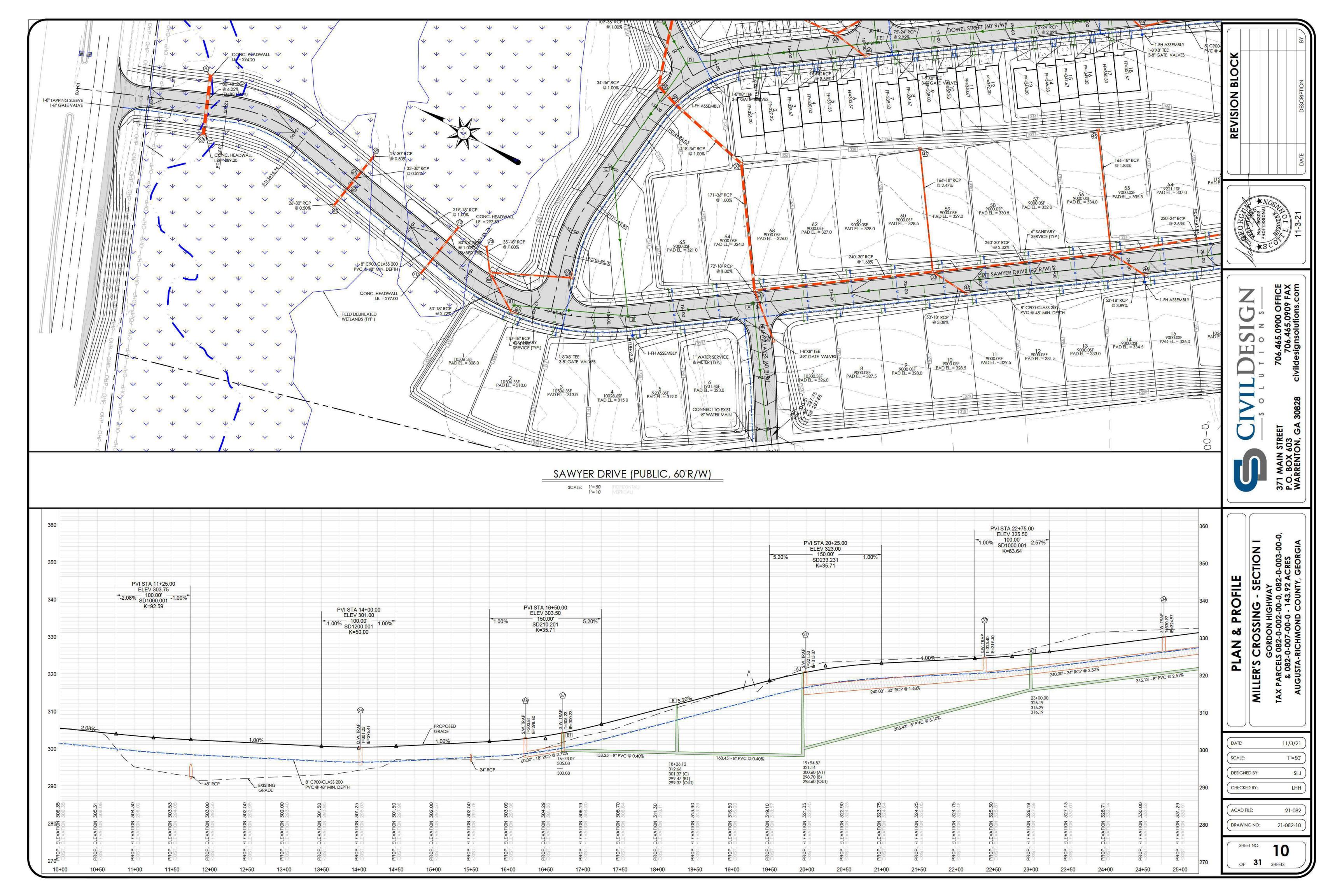
OUTLET STR.	INLET STR.	PIPE DESCRIPTION	Q25 (CFS)	CAPACITY	OUTLET STR.	INLET STR	PIPE DESCRIPTION	Q25 (CFS)	CAP
1	2	54'-24" RCP @ 1 00%	2 2	3	38	40	167'-18" RCP @ 2.63%	4.66	17
		10005 (M.1.1600640 (M60301098010)	5		37	41	38'-18" RCP @ 3.13%	2.15	18
3	4	151'-18" RCP @ 9.93%	9.36	33.10	37	42	219'-18" RCP @ 1.84%	5.04	14
4	5	96'-18" RCP @ 6 56%	8.93	26.90	35	43	59'-18" RCP @ 2.12%	2.56	15
5	6	109'-18" RCP @ 6.37%	8.26	26.50	34	44	53'-18" RCP @ 3 08%	2.56	20
6	7	186'-18" RCP @ 4.96%	6.01	23.38	34	45	166'-18" RCP @ 1.83%	1.53	14
7	8	34'-18" RCP @ 2.94%	0.83	18.01	33	46	53'-18" RCP @ 3 08%	2.41	18
7	9	115'-18" RCP @ 1.71%	3.05	13.74	33	47	166'-18" RCP @ 2.47%	1.90	16
9	10	186'-18" RCP @ 4.84%	1.60	23.10	27	48	111'-30" RCP @ 3.11%	25.27	72
6	11	116'-18" RCP @ 2.75%	1.32	17.41	48	49	115'-24" RCP @ 9.07%	23.25	68
					49	50	75'-24" RCP @ 2.92%	17.65	38
12	13	51'-24" RCP @ 9 80%	17 56	70.82	50	51	115'-24" RCP @ 2.50%	15.97	35
13	14	113'-24" RCP @ 2.44%	16 85	35.35	51	52	115'-18" RCP @ 7.77%	13.76	29
14	15	34'-24" RCP @ 1.47%	15 58	27.43	52	53	75'-18" RCP @ 2 89%	10.30	17
15	16	111'-24" RCP @ 2.02%	14.13	32.13	53	54	85'-18" RCP @ 4.99%	5.56	23
16	17	136'-24" RCP @ 9.76%	12 63	70.65	54	55	209'-18" RCP @ 2.91%	4.70	17
17	18	34'-24" RCP @ 1.47%	11 21	27.43	55	56	66'-18" RCP @ 3.41%	1.00	19
18	19	111'-18" RCP @ 2.01%	9.64	14.88	53	57	116'-18" RCP @ 4.22%	3.09	21
19	20	136'-18" RCP @ 8.09%	7.97	29.87	57	58	108'-18" RCP @ 3.24%	2.17	18
20	21	34'-18" RCP @ 1.47%	6.49	12.73	51	59	108'-18" RCP @ 4.17%	1.84	21
21	22	116'-18" RCP @ 1.72%	4.84	13.79	49	60	49'-18" RCP @ 3 69%	3.00	20
22	23	140'-18" RCP @ 6.79%	2.39	27.35	48	61	108'-18" RCP @ 4.63%	1.74	22
24	25	36'-42" RCP @ 1 00%	60 85	100.6	62	63	21'-30" RCP @ 0 52%	15.81	29
25	26	176'-42" RCP @ 0.50%	61 29	71.14	63	64	60'-30" RCP @ 0 50%	14.13	29
26	27	126'-42" RCP @ 0.64%	61 07	80.67	64	65	21'-30" RCP @ 0 52%	7.22	29
27	28	109'-36" RCP @ 1.00%	38 01	66.69	73	66	35'-18" RCP @ 1 00%		-
28	29	34'-36" RCP @ 1 00%	36 53	66.69	66	67	60'-18" RCP @ 2 72%	3.19	17
29	30	118'-36" RCP @ 1 020%	35 57	66.69	66	68	110'-18" RCP @ 4.23%	2.71	21
30	31	171'-36" RCP @ 1.00%	34.47	66.69	69	70	80'-78" RCP @ 2.72%(EMBED 20%)	3.19	17
31	32	72'-18" RCP @ 1 00%	2.60	10.50	71	72	80'-24" RCP @ 1.00%(EMBED 20%)	2.71	21
31	33	240'-30" RCP @ 1.68%	31 68	53.14	8	2		2	90 10
33	34	240'-24" RCP @ 2.32%	27 04	34.46					
34	35	220'-24" RCP @ 2.63%	22 80	36.69					
35	36	184'-24" RCP @ 1.69%	18 34	29.40					
36	37	93'-24" RCP @ 1.19%	17 22	24.71					
37	38	233'-18" RCP @ 1.13%	9.27	11.16					
38	39	126'-18" RCP @ 310%	2.83	18.48					

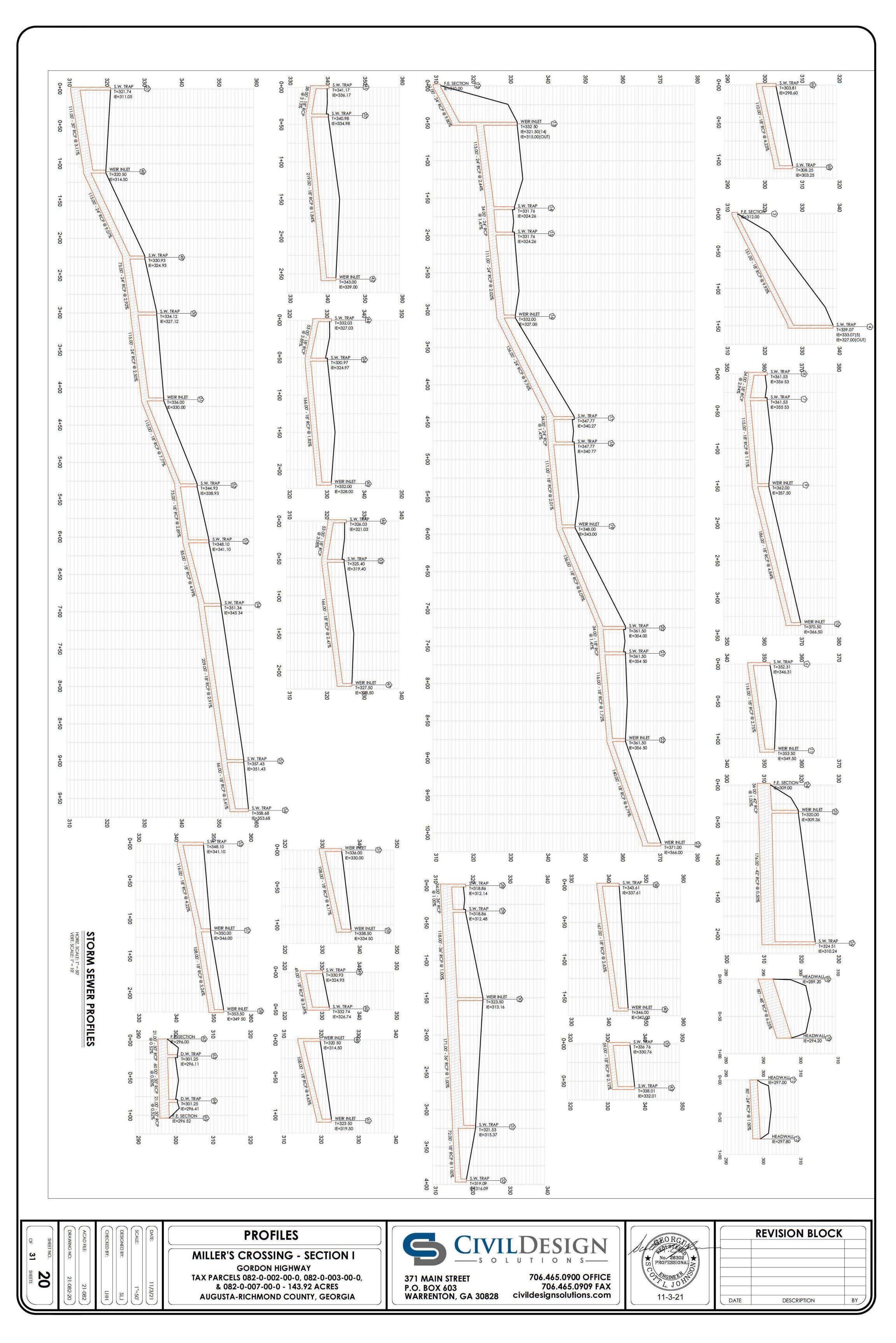












#### NOTE

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

#### NOTE

BECAUSE THIS PROJECT DOES NOT DISCHARGE INTO OR WITHIN 1 MILE OF AN IMPAIRED STREAM SEGMENT, NO TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED.

#### NOTE:

THERE ARE NO BUFFER ENCROACHMENTS OR WETLAND IMPACTS FOR THIS PROJECT. IT IS THE OWNERS RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION COMMENCEMENT.

#### NOTE:

A BUFFER VARIANCE IS NOT REQUIRED FOR THIS PROJECT DUE TO THE FACT THAT ROADWAY AND UTILITY CROSSINGS ARE EXEMPT FROM VARIANCE **REQUIREMENTS.** 

#### NOTE:

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE ACOUIRING THE NECESSARY VARIANCES AND PERMITS.

#### NOTE

THIS PROJECT DOES NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

### PRIMARY PERMITEE

SOUTHEASTERN DEVELOPMENT 2743 PERIMETER PKWY. BLDG. 100 SUITE 370 AUGUSTA, GA 30909 PHONE: (706) 854-6710

24 HOUR EMERGENCY CONTACT

MATT MILLS 2743 PERIMETER PKWY. BLDG. 100 SUITE 370 AUGUSTA, GA 30909 PHONE: (706) 854-6710

# DUST CONTROL NOTES

BMP'S WILL BE IMPLEMENTED TO EFFECTIVELY REDUCE THE GENERATION OF DUST AND PREVENT AIRBORNE SEDIMENT FROM ESCAPING THE SITE. DISTURBED AREAS SHALL BE PROVIDED WITH APPROPRIATE GROUND COVER AS SPECIFIED ON THE PLANS TO EFFECTIVELY STABILIZE THE SOIL SURFACE. THE BMP'S APLLIED TO CONTROL DUST GENERATION ON THIS SITE WILL INCLUDE TEMPORARY GRASSING, MULCH, ROCK, AND IRRIGATION. ROCK WILL BE USED FOR G.A.B. WHERE PAVEMENT WILL BE PLACED AND CONSTRUCTION EXITS, AS SPECIFIED ON THE PLANS, AND WILL HELP MINIMIZE DUST CREATED BY CONSTRUCTION VEHICLES. AREAS OUTSIDE OF THOSE BEING PAVED WILL BE AT LEAST TEMPORARILY SEEDED AND MULCHED TO STABILIZED AND COVER DISTURBED SURFACES. IN AREAS WHERE ADDITIONAL BMP'S ARE NEEDED TO REDUCE DUST GENERATION, SUFFICIENTLY WETTING OR IRRIGATING THE GROUND SURFACE WITH WATER SHOULD EFFECTIVELY LIMIT AIRBOURNE SEDIMENT ON AND AROUND THE SITE. SEE THE MANUAL FOR EROSION AND SEDIMENT CONTROL GEORGIA FOR MORE DETAILS AND SPECIFICATIONS.

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MAINTENANCE STATEMENTS

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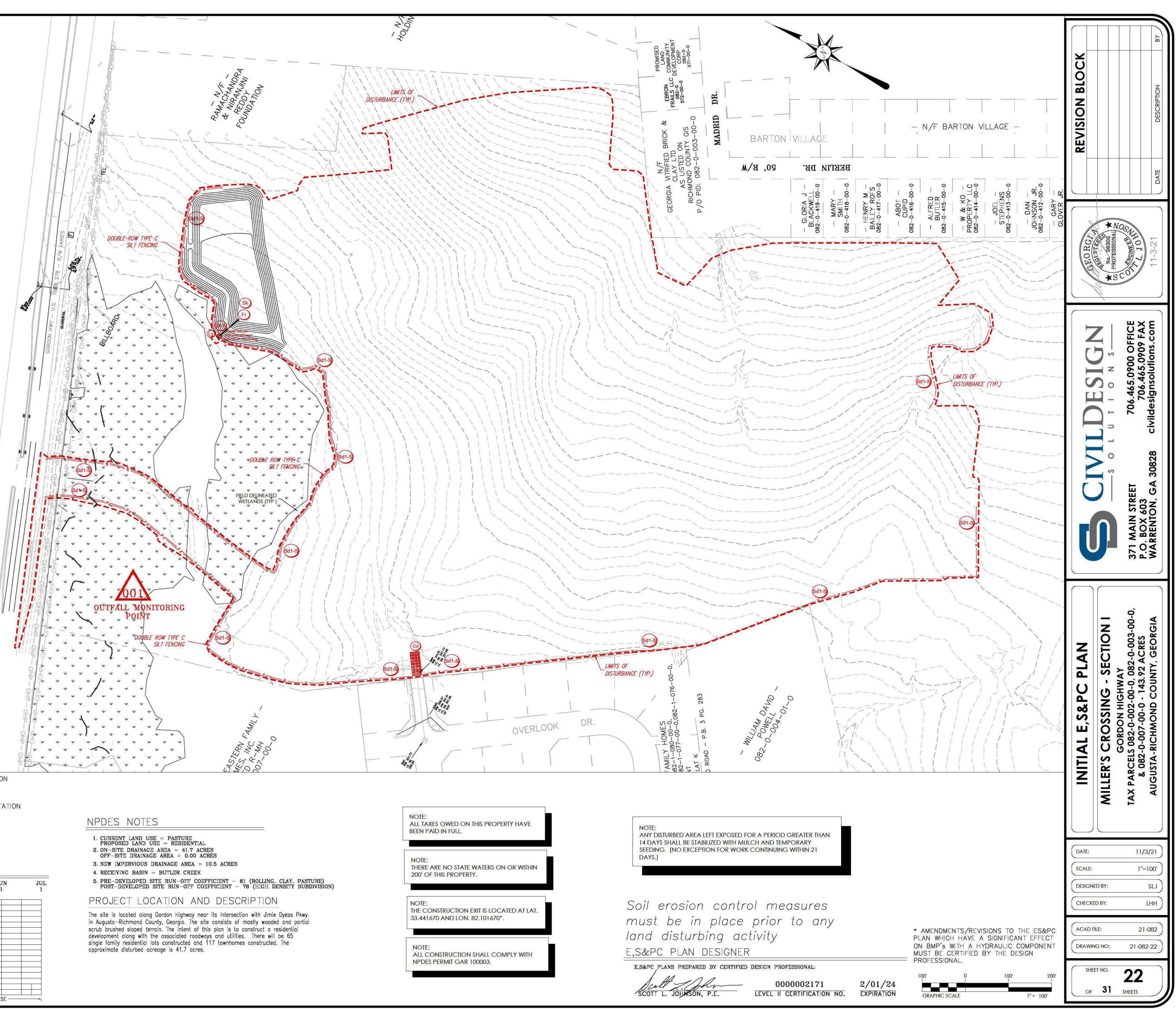
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

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 CONSTRUCTION SCHEDULE SHOWN BELOW IS ONLY APPROXIMATE. SOIL EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN THE ORDER SHOWN ABOVE AND/OR AS DIRECTED BY AUGUSTA-RICHMOND COUNTY.

# CONSTRUCTION SCHEDULE

JAN	FEB	MAR	APR	MAY	JUN	JU
1	1	1	1	1	1	1
2022						
INSTALL CONSTRUCTION EXIT						
MAINTAIN CONSTRUCTION EXIT			2			
INSTALL SILT FENCING						
MAINTAIN SILT FENCING						
CLEARING & GRUBBING		Į	2		<u> </u>	e
INTAIN SEDIMENT STORAGE BMP'S						
GRADING						l l
UTILITY INSTALLATION						
INSTALL TEMPORARY GRASSING		î i	\$\$		i i i i i i i i i i i i i i i i i i i	
INSTALL INLET PROTECTION				2 2		
MAINTAIN INLET PROTECTION						
ROAD BASE		i i i i i i i i i i i i i i i i i i i			i i	
INSTALL PERMANENT GRASSING						
MAINTAIN PERMANENT GRASSING						
BUILDING CONSTRUCTION			š		i i i i i i i i i i i i i i i i i i i	
FINAL PAVING		2	с м. 6 6		2	
LANDSCAPING						



## MAINTENANCE PRACTICES

- 1. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF THE REPORT.
- 2. THE SITE SUPERINTENDENT WILL ASSIGN AT LEAST 2 INDIVIDUALS WHO WILL BE RESPONSIBLE FOR MAINTENANCE OF THE EROSION AND SEDIMENTATION CONTROL PRACTICES. THE PERSONNEL SELECTED WILL RECEIVE TRAINING ON PROPER INSTALLATION AND MAINTENANCE PROCEDURES.
- 3. EROSION AND SEDIMENTATION CONTROLS WILL BE MAINTAINED AS SPECIFIED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA AND AS SPECIFIED IN THE PLAN FOR THE SITE.

EROSION NOTES

NOTE:

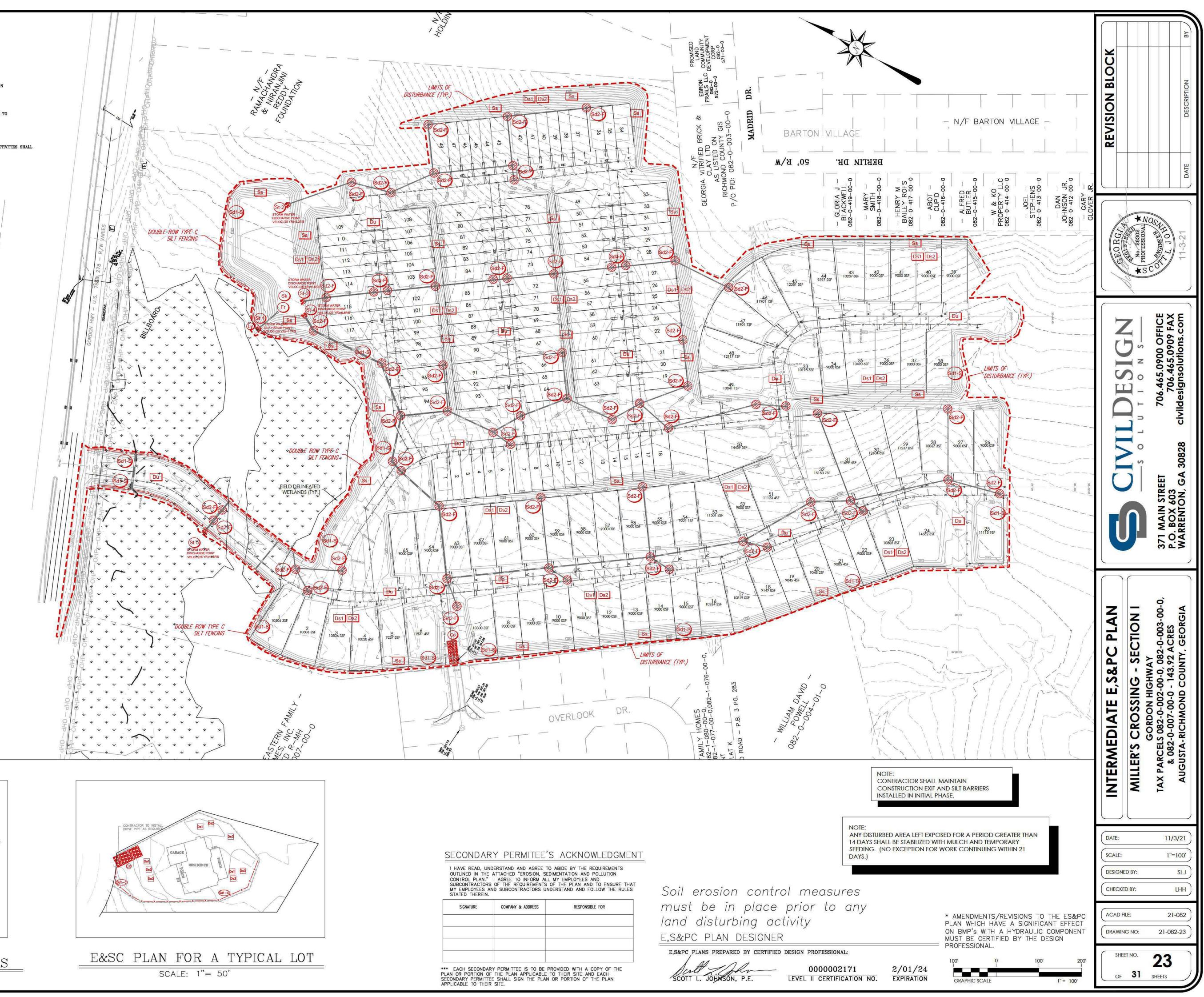
- 1. ANY DRAINAGE EASEMENTS OR DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.
- 2. ANY SOIL STOCK PILED ON SITE MUST BE IMMEDIATELY MULCHED AND TEMPORARILY SEEDED AND SILT FENCE MUST BE PLACED AS APPROPRIATE TO PREVENT EROSION.
- 3. ALL CONSTRUCTION MUST CONFORM TO AUGUSTA-RICHMOND COUNTY STANDARDS. 4. ALL INITIAL PHASE BMP'S MUST BE PLACED PRIOR TO CLEARING & GRUBBING. NO LAND DISTURBING ACTIVITIES SHALL BE DONE UNTIL INITIAL PHASE BMP INSTALLATION IS COMPLETED.

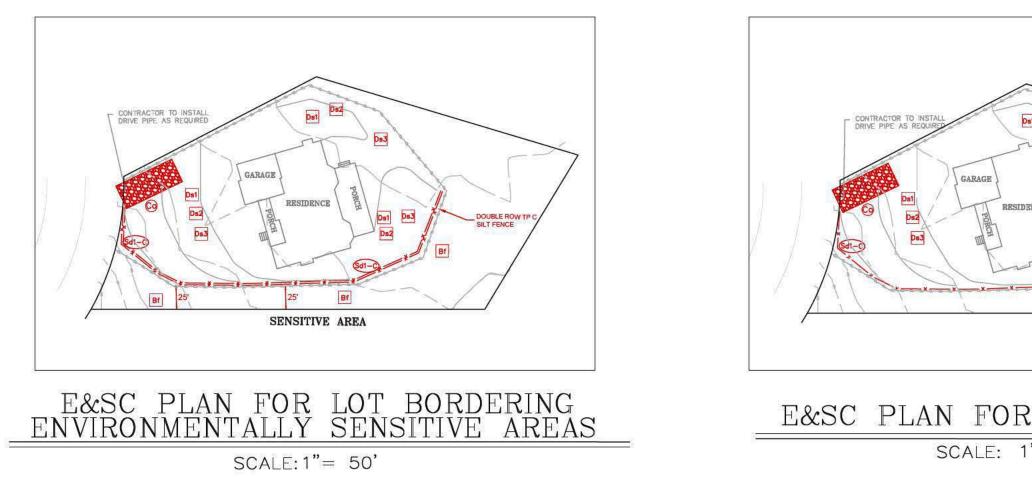
ANY DISTURBED SLOPES STEEPER THAN 2.5:1 SHALL BE PROTECTED WITH EROSION CONTROL MATTING/BLANKETS.

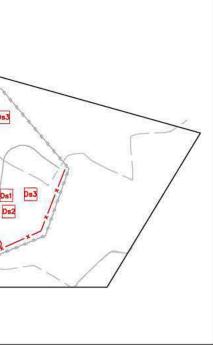
NOTE: THERE ARE NO STATE WATERS ON OR WITHIN 200' OF THIS PROPERTY.

NOTE: ALL TAXES OWED ON THIS PROPERTY HAVE BEEN PAID IN FULL.

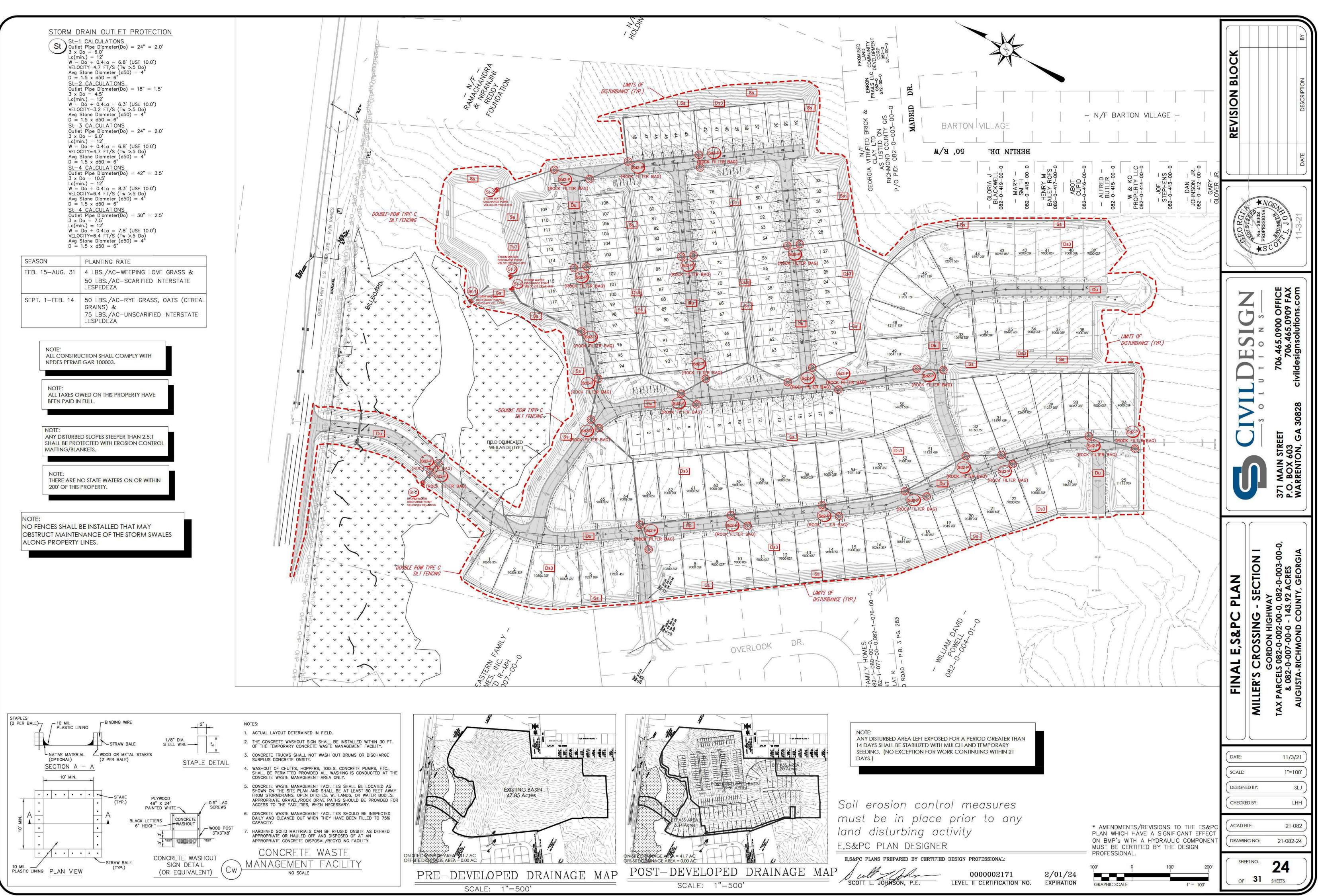
NOTE: ALL CONSTRUCTION SHALL COMPLY WITH NPDES PERMIT GAR 100003.







OR





# SOILS MAP NOT TO SCALE

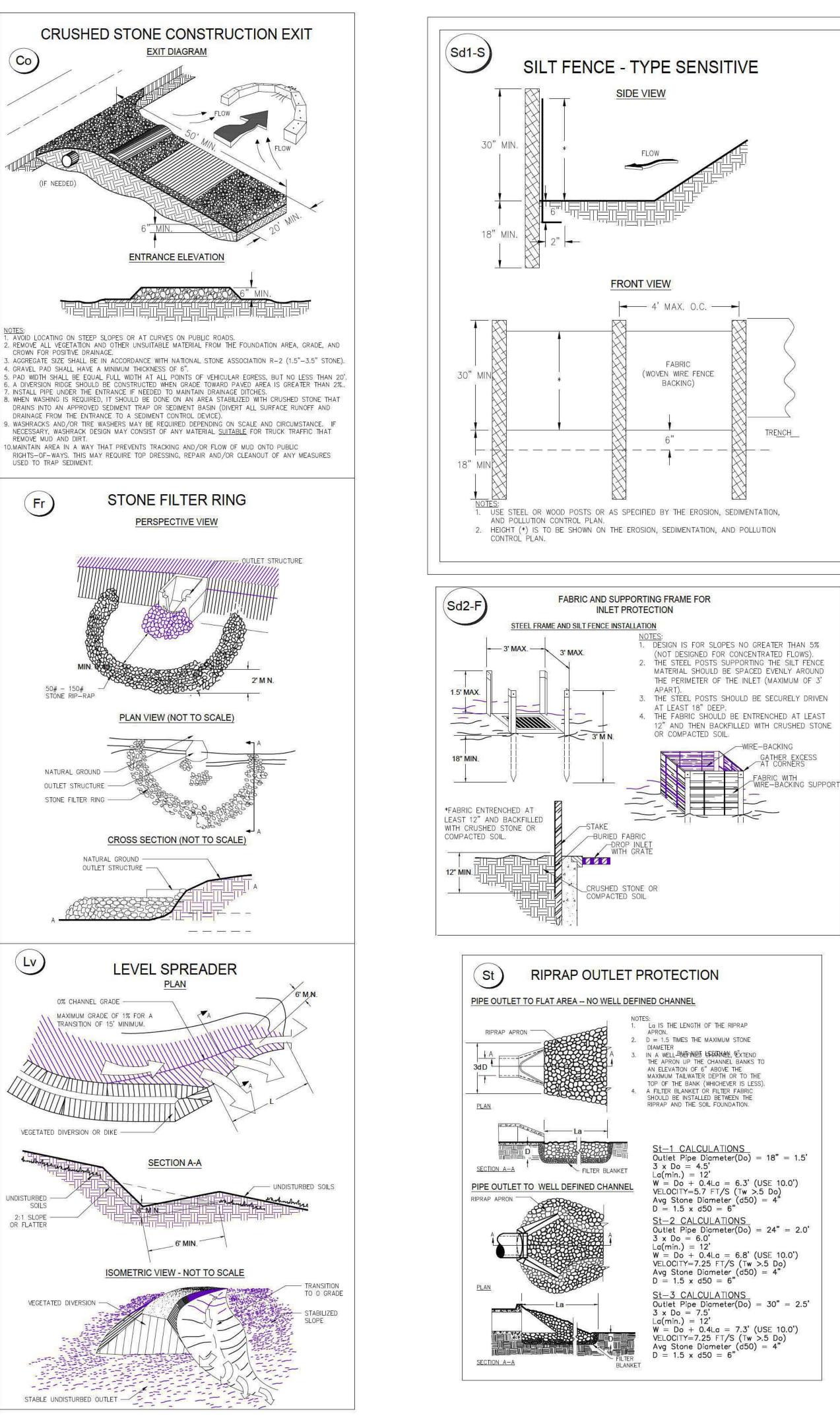
# SOIL PROPERTIES CHART

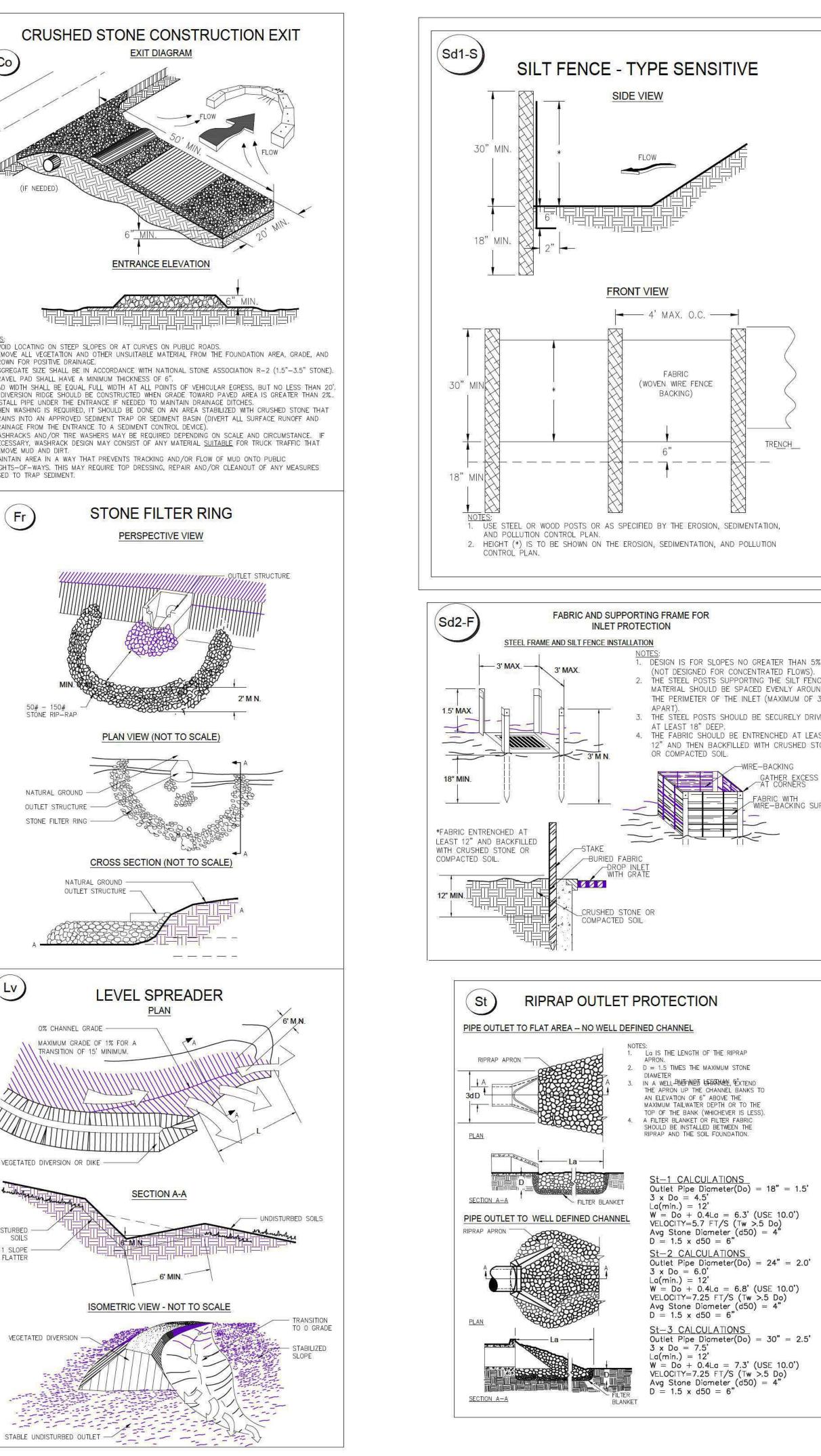
SOIL SERIES	Soil Symbol
Ailey Loamy Sand, 2-5%	AgB
Ailey Loamy Sand, 5-8%	AgC
Bibb and Osier Soils	Во
Troup Fine Sand, 1-5%	TwB
Troup Fine Sand, 5-10%	TwC
Troup Fine Sand, 10-17%	TwD
Vaucluse-Ailey Complex, 5-8%	VaC
Vaucluse-Ailey Complex, 8-17%	VaD

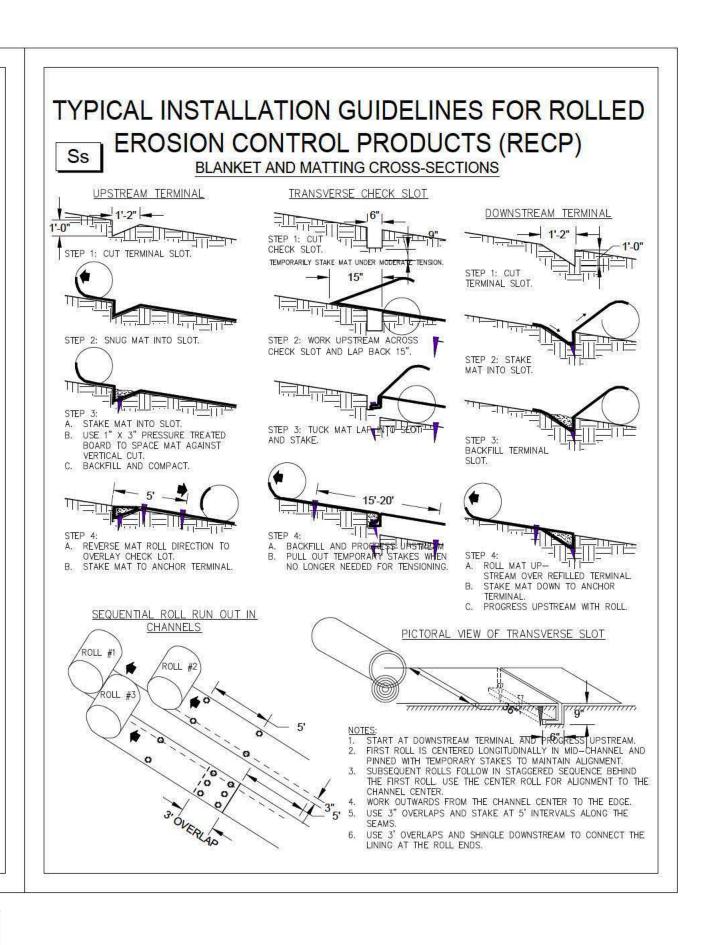
## GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PARCTICES

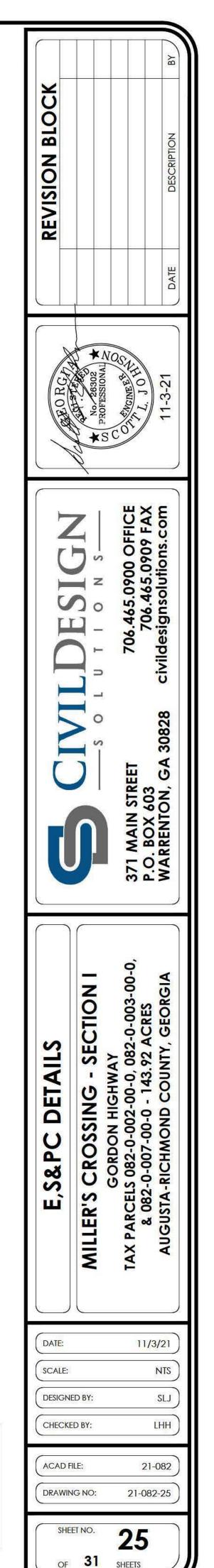
Co	CONSTRUCTION EXIT		(LASEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Sd1	SEDIMENT BARRIER		(INDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sk	FLOATING SURFACE SKIMMER		Sk)	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
St	STORMDRAIN OUTLET PROTECTION		(St)	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Lv	LEVEL SPREADER		<del>d</del>	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.

LV









E,S&PC PLAN DESIGNER

E,S&PC PLANS PREPARED BY CERTIFIED DESIGN PROFESSIONAL:

call ann . JOHNSON, P.E. SCOTT

0000002171 LEVEL II CERTIFICATION NO. 2/01/24 EXPIRATION

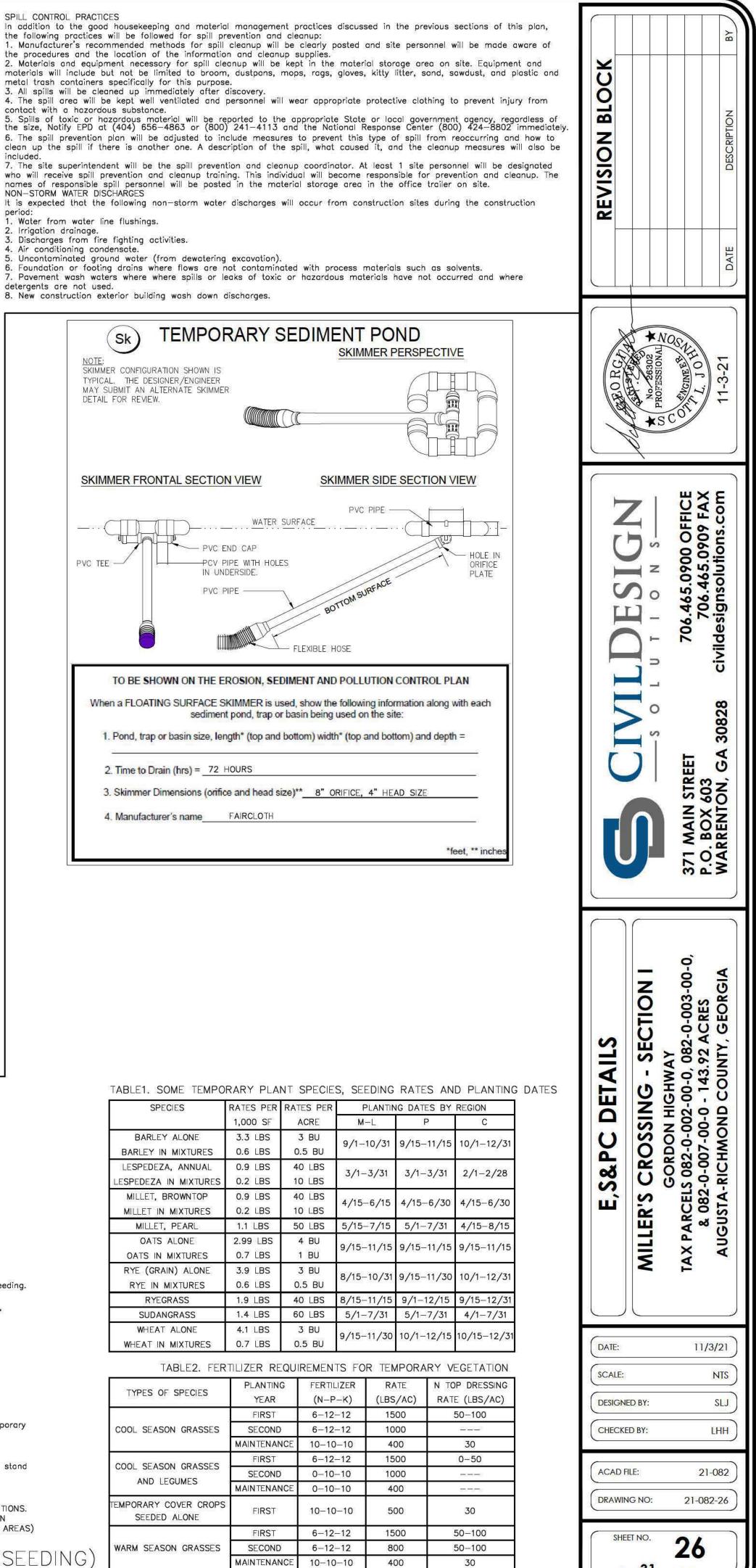
	Applying Mulch			
	When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area. 1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.			
	<ol> <li>If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.</li> <li>Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of "Tracking in" or damage to shoes, clothing, etc.</li> </ol>	E,S&P	C PLAN DESI	GNE
	Anchoring Mulch 1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special	E,S&PC	PLANS PREPARED BY CE	CRTIFIE
	"packer disk". Disk may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch sholl be anchored immediately after application. 2. Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5	SCOTT L	JOHNSON, P.E.	
	or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. use 100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifiers and binders can be substituted for emulsified asphalt. (See Tackifiers and Binders specifications.) 3. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's		Japon	
	specifications. 4. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.			
	5. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary. DISTURBED AREA STABILIZATION (W/MULCH ONLY)		PERMAN	ENT
Ds1			1. ALL AREAS BE GRASSE	
1.001	SPECIFICATIONS ALL DISTURBED AREAS WILL RECEIVE PERMANENT GRASS OR 4" - 6" LAYER OF PINE STRAW MULCH (DS1), FINAL LANDSCAPE BED	LINES	2. ANY VARIA APPROVED	
	AND SHRUB PLANTING WILL BE ACCORDING TO FINAL LANDSCAPE PLANS TO BE ISSUED IN SEPARATE PACKAGE. Grading and Shaping 1. Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks sha			
	<ul> <li>sloped to enable plant establishment.</li> <li>When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment of used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.</li> <li>Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment</li> </ul>	an be	GRASS TYPE PLANTING DATES	LESP YEAR
	practices shall conform with the appropriate standards and specifications. Lime and Fertilizer Rates and Analysis		APPLICATION RATE	75 P
	<ol> <li>Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas requir lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.</li> </ol>			FE
	2. Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone grout that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve. and not less than 25 percent will pass through a 100-mesh sieve. Lime and Fertilizer Application	nd so eve	LIME	2600
	<u>Conventional Seeding</u> : When conventional planting is to be done, lime and fertilizer shall be applied uniformly in one of the follow 1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.	ing ways:	6-12-12	1500
	<ol> <li>Mix with the soil used to fill the holes, distribute in furrows.</li> <li>Broadcast after steep surfaces are scarified, pitted, or trenched.</li> <li>A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.</li> </ol>		TOP-DRESSING	75 P
	**Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species for permanent perennial cover.**	ecies	FERT	1LIZE
	<u>Seedbed Preparation</u> 1. Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used.		LIME	
	<ol> <li>When conventional seeding is to be used, seedbed preparation will be done as follows: <u>Broadcast plantings</u></li> <li>Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and an advised of the soil to a depth.</li> </ol>	nd	6-12-12	1000
	fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants, and allow for the anchoring of s or hay mulch if a disk is to be used. 2. Tillage may be done with any suitable equipment. 3. Tillage should be done on the contour where feasible.		TOP-DRESSING	0
	4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pifted or trenched across the slop appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding m also be used.	e with ay	PERMANE	INT
	<u>Individual Plants</u> 1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting. 2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.		ALL AREAS BE GRASSE	
	<ol> <li>Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.</li> <li><u>Planting</u></li> <li>Conventional Seeding - Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a</li> </ol>		ANY VARIA APPROVED	
	cultipacker—seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment. 2. Individual Plants — Shrubs, vines, and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be pla		GRASS TYPE	UNHU
	manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots. 3. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines sprigs must be at or slightly above the ground surface. 4. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added, and t	and	PLANTING DATES	octo
	plant shall be set in the hole. Mulching		APPLICATION RATE	10 P
	Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% soil cover. Select mulching material from the following and apply as indicated: 1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 ton		3.0455	FE
	acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre. 2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds acre. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding. 3. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding		LIME 6-12-12	2600 1500
	slopes 3/4:1 or steeper. 4. Sericea lespedeza hay containing mature seed shall be applied at a rate of three tons per acre. 5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in suffici		TOP-DRESSING	75 P
	quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas. 6. When using temporary erosion control blankets or block sod, mulch is not required.		FER	I Rtiliz
	7. Bituminous treated roving may be applied on planted areas, on slopes, in ditches, or dry waterways to prevent erosion. Bitu treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Geo Department of Transportation specifications.	rgia	LIME	1600
	Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed w agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding. <u>Applying Mulch</u>	hen	6-12-12	1000
	<ol> <li>Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment, or by hand. Mulch shall be applied to cover 75% of the soil surformly.</li> <li>Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.</li> </ol>	ce.	TOP-DRESSING	75 P
	Anchoring Mulch Anchor straw or hay mulch immediately after application by one of the following methods: 1. Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is ejected from the blower machine or (b) sprayed on mulch immediately following mulch application when straw or have in approach by methods other than appoint blower	the	PERMAN	NEN.
	mulch immediately following mulch application when straw or hay is spread by methods other than special blower equipment. The combination of asphalt emulsion and water shall consist of a homogeneous mixture satisfactory for spraying. The mixture consist of 100 gallons of grade SS-1 h or CSS-1 h emulsified asphalt and 100 gallons of water per ton of mulch.		ALL ARE BE GRAS	AS DIS
	Care shall be taken at all times to protect state waters, the public, adjacent property, pavements, curbs, sidewalks, and all oth structures from asphalt discoloration. 2. Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without	er	ANY 2/AF APPROVE	RIATION
	<ul> <li>cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.</li> <li>3. Synthetic tackifiers or binders approved by GDOT shall be applied in conjunction with or immediately after the mulch is spread Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. Refer to Tb — Tackifiers and Binders.</li> <li>4. Rye or wheat can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of</li> </ul>		GRASS TYPE	СОММ
	one-quarter to one-half bushel per acre. 5. Plastic mesh or netting with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specific	ations	PLANTING DATES	MARC
	<u>Bedding Material</u> Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and bare areas on lawns.		APPLICATION RATE	10 P(
	<u>Material</u> <u>Depth</u> Grain straw 4" to 6"			FE
	Grass Hay 4" to 6" Pine needles 3" to 5" Wood waste 4" to 6"		LIME	2600
	<u>Irrigation</u> Irrigation will be applied at a rate that will not cause runoff. <u>Topdressing</u>		6-12-12	1500
	Topdressing will be applied on all temporary and permanent (perennial) species planted alone or in mixtures with other species. Recommended rates of application are listed in Table 6–5.1 (MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, page 6 Second Year and Maintenance Fertilization		TOP-DRESSING	75 P
	Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-5.1 (MANUAL FOR EROSION AND SEDIMENT CON IN GEORGIA, page 6-46). Lime Maintenance Application	TROL	FER	R TILIZ
	Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine accurate requirements if desired.	more	LIME	1600
	<u>Use and Management</u> Mow Sericea lespedeza only after frost to ensure that the seeds are mature. Mow between November and March. Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top growth under any use management. Moderate use of top growth is beneficial after establishment.		6-12-12	800
6	Exclude traffic until the plants are well established. Because of the quail nesting season, mowing should not take place betwee and September. DISTURBED AREA STABILIZATION (W/PERMANENT SEE		TOP-DRESSING	75 P
Ds3	SECTION AND AND STADILIZATION (W/FERMANENT SEE		/	

		Manı
NER	Waste Disposal	ie pro Mate iateria
IFIED DESIGN PROFESSIONAL:	1. During construction, all trash, construction materials, debris, and waste shall be contained daily and kept neat.       methods         2. All personnel working on the project site are to assist in keeping the areas in which they work or travel       3.	etal t All s
- 0000002171 2/01/24	blow out of the vehicle and shall NOT be thrown from the vehicle.	The ontact Spill:
LEVEL II CERTIFICATION NO. EXPIRATION	b. Dumpster containers will have lids or covers that can be placed over the container prior to rainfall.	ie size The ean u
	d. The construction site will have a construction dumpster at the location shown on the plan. The waste disposal 7.	cludeo The ho wil
	management regulations. The container will be emptied a minimum of once every 2 weeks and more frequently as needed. 4. If a dumpster spills, the contractor will provide clean up immediately and will follow all guidelines listed below under Spill	omes ON-S
1	5 Stockolling or dumping off site is not permitted	is ex eriod: Wate
NT COVER SPECIFICATIONS	7. All personnel will be instructed regarding the correct procedure for waste disposal. 8. Waste Materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.	Irrigo Discl
DISTURBED DURING CONSTRUCTION SHALL ACCORDING TO THE FOLLOWING SPECS.	the point of wrested vegetation without first acquiring the necessary variances and permits. The site superintendent will be responsible for seeing that these procedures are followed.	Unco Four Pave
ONS FROM THE VEGETATIVE PLAN SHALL BE Y THE LOCAL S.C.S. REPRESENTATIVE.	TAZARDOUS WASTE: 1. All bazardous waste materials will be disposed of in a manner specified by local or State regulation or by the de	eterge New
SEEDING	<ol> <li>Site personnel will be instructed in these practices and the site superintendent will be responsible for seeing that these procedures are followed. SANITARY WASTE</li> </ol>	
ESPEDEZA, SERICEA – UNSCARIFIED	<ol> <li>The construction site will have a port—a—john unit to be located at the discretion of the contractor's site superintendent.</li> <li>A licensed sanitary waste management contractor, as required by local regulations, shall empty the port—a—john unit at least twice per week between May through September and once per week from October through April.</li> </ol>	
/EAR-ROUND	OFFSITE VEHICLES TRACKING 1. Stabilized construction entrance: a stabilized construction entrance will be provided at all locations where vehicles enter and exit the construction site and will be in place prior to clearing, grading, and building construction.	
3-6424A = W3520064663	2. The paved street adjacent to the site entrance will be maintained free of debris, mud, and gravel tracked from the site, even if this means sweeping the road daily.	
75 POUNDS/ACRE OR 1.7 POUNDS/1000 SQUARE FEET	3. All open top trucks hauling sand, crush and run, fill dirt, trash, clearing debris or any other loose material from the construction site, will be required to have the load tarped or efficiently covered to prevent material from blowing out of the truck.	
FERTILIZER (FIRST YEAR) 2600 pounds/acre or 60 pounds/1000 square feet	Trucks hauling any of the above mentioned materials will be required to have tailgates and sideboards to prevent the spillage of materials on the roadways. Clearing debris cannot extend over sideboards or tailboards. Cleanup of spilled materials is the	
COOL FOONDSY ACKE OK OU FOONDSY TOOD SQUARE FEET	responsibility of the truck driver. 4. The contractor is responsible for all spills and dirt tracking associated with their construction activities. If spills or dirt	
500 POUNDS PER ACRE	tracking are not cleaned up immediately, then the contractor may elect to clean up the materials with its own staff or contractor and bill the responsible company for the expense of the clean up. INVENTORY OF MATERIALS AT RISK OF CAUSING POLLUTION	
75 POUNDS PER ACRE	The materials listed below are expected to be onsite during construction: 1. Concrete 2. Detergents	
ZER (SECOND YEAR BY OWNER)	<ol> <li>3. Paints (enamel and latex)</li> <li>4. Metal Studs</li> <li>5. Tar</li> </ol>	
600 POUNDS/ACRE OR 36 POUNDS/1000 SQUARE FEET	6. Roofing Shingles 7. Fertilizers 8. Pesticides	
000 POUNDS PER ACRE	9. Petroleum Based Products 10. Cleaning Solvents	
	11. Wood 12. Masonry Block/Brick/Stone SPILL PREVENTION	
	MATERIAL MANAGEMENT PRACTICES The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.	
	Good Housekeeping: The following good housekeeping practices will be followed onsite during construction projects: 1. Only the amount of products needed or required to do the job will be stored onsite.	
T COVER SPECIFICATIONS sturbed during construction shall	<ol> <li>All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.</li> <li>Products must be kept in their original containers with the original manufacturer label.</li> </ol>	
ACCORDING TO THE FOLLOWING SPECS. NS FROM THE VEGETATIVE PLAN SHALL BE	<ol> <li>Chemicals will not be mixed together unless recommended by the manufacturer.</li> <li>An effort will be made to use all of the product before disposing of the container, when feasible.</li> <li>The manufacturer's recommendations for proper use and disposal will be followed at all times.</li> </ol>	
THE LOCAL S.C.S. REPRESENTATIVE.	7. Daily site inspections will be made by the site superintendent to ensure proper use and disposal of materials onsite. HAZARDOUS PRODUCTS	
SEEDING	These practices will be used to reduce the risk associated with hazardous materials: 1. Products classified as hazardous will be kept in its original containers unless they are not resealable. 2. Original labels and material safety data must be retained until disposal of the product.	
JNHULLED BERMUDA	<ol> <li>If surplus product must be disposed of, manufactures' or local and State recommended methods for proper disposal must be followed.</li> <li>PRODUCT SPECIFIC PRACTICES</li> </ol>	
DCTOBER 1 – FEBRUARY 28	The following product specific practices will be followed onsite: Petroleum Products: 1. All onsite vehicles must be monitored for leaks and receive regular preventive maintenance to reduce the chance of	
0 POUNDS/ACRE OR 0.2 POUNDS/1000 SQUARE FEET	leakage. 2. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.	
FERTILIZER (FIRST YEAR)	3. Construction sites will have equipment on site or on board maintenance fueling vehicles to contain and clean up petroleum spills in fuel storage areas.	
2600 POUNDS/ACRE OR 60 POUNDS/1000 SQUARE FEET	<ol> <li>Petroleum products will be stored in covered areas, where possible.</li> <li>Spills will be contained and cleaned up.</li> <li>Fertilizers:</li> </ol>	
500 POUNDS PER ACRE	1. Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.	
75 POUNDS PER ACRE	<ol> <li>Fertilizers should be applied more frequently, but at lower application rates.</li> <li>Hydroseeding where lime and fertilizer are applied to the ground surface in one application will be limited where possible. Pesticides:</li> </ol>	
ILIZER (SECOND YEAR BY OWNER)	<ol> <li>Pesticides will be stored in a dry covered area.</li> <li>The construction site will have measures on site to contain and clean up spills of pesticides.</li> <li>Pesticides used will be applied only in minimum amounts recommended by the manufacturer.</li> </ol>	
600 POUNDS/ACRE OR 36 POUNDS/1000 SQUARE FEET	Paints: 1. All containers will be tightly sealed and stored when not required for use.	
000 POUNDS PER ACRE	2. Excess paint and paint products will not be discharge to the storm sewer system or directly on ground, but will be properly disposed of according to manufacturer's instructions or State and local regulations. Concrete Trucks:	
	1. Concrete delivery trucks may NOT be washed out on the construction site.	
75 POUNDS PER ACRE	NOTE:	
	SANITARY SEWER FOR THIS DEVELOPMENT WILL BE HANDLED THROUGH A GRAVITY COLLECTION SYSTEM THAT WILL BE DEEDED TO AUGUSTA-RICHMOND COUNTY UPON ACCEPTANCE	
INT COVER SPECIFICATIONS	BY COUNTY STAFF. THE COLLECTION SYSTEM FEEDS TO A COUNTY TREATMENT FACILITY.	
D ACCORDING TO THE FOLLOWING SPECS. TIONS FROM THE VEGETATIVE PLAN SHALL BE		
BY THE LOCAL S.C.S. REPRESENTATIVE.		
SEEDING	DEFINITION	
OMMON BERMUDA (HULLED)	A temporary vegetative cover with fast growing seedings for up to a 12-month period or until permonent vegetation is established. SPECIFICATIONS	
IARCH 1 – JUNE 30	<u>Seedbed Preparation</u> 1. Grading or shaping are not required if slopes can be planted with a hydroseeder or by hand-seedi	ing.
0 POUNDS/ACRE OR 0.2 POUNDS/1000 SQUARE FEET	<ol> <li>Seedbed preparation is not required if soil is loose and not sealed by rain.</li> <li>When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pifted, trenched, or otherwise scarified to provide a place for seed to lodge and germinate.</li> </ol>	
FERTILIZER (FIRST YEAR)	Lime and Fertilizer 1. Agricultural lime is not required.	
600 POUNDS/ACRE OR 60 POUNDS/1000 SQUARE FEET	2. Fertilize low fertility soils prior to or during planting at the rate of 500-700 pounds per acre of 10-10-10 fertilizer or equivalent (12-16 pounds / 1000 sf). <u>Seeding</u>	
500 POUNDS PER ACRE	1. It is imperative to check the tag on the bag of seed to verify the type and germination of the seed to be planted. 2. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker—seeder, or hydraulic	
5 POUNDS PER ACRE	seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep.	000
ILIZER (SECOND YEAR BY OWNER)	3. Apply in accordance with specifications on the E,S&PC plan. If it is not provided, select a tempor cover from Table 1. 4. Temporary cover shall be applied to all disturbed areas left idle for fourteen days.	ary
600 POUNDS/ACRE OR 36 POUNDS/1000 SQUARE FEET	MAINTENANCE Re—seed areas where an adequate stand of temporary vegetation fails to emerge or where a poor sta	and
00 POUNDS PER ACRE	exists. <u>TABLE NOTES:</u> 1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.	
	2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITION 3. M-L -MOUNTAIN, BLUE RIDGE, RIDGES AND VALLEYS; P -SOUTHERN PIEDMONT; C -SOUTHERN	
5 POUNDS PER ACRE	COASTAL PLAIN, SAND HILLS, BLACK LANDS, ATLANTIC COAST FLATWOODS (SEE MANUAL FOR MAP AR 4. SEEDING RATES ARE BASED ON PURE LIVE SEED (PLS).	
	- Ds2 DISTURBED AREA STABILIZATION (W/TEMP. S	EE

EROSION AND SEDIMENTATION CONTROLS

Topsoil stockpiles and disturbed portions of the site where construction activity temporarily ceases for at

Temporary Stabilization:



10-10-10

400

30

EEDING)

OF **31** SHEETS

# SAMPLING

Sampling Requirements — The following procedures constitute EPD's guidelines for sampling turbidity.

A. Sampling Reuirements shall include the following:

- (1) a USGS 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 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 map, the location o fthe receiving water(s) must be hand-drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) shown to the point where the storm water(s) combines with the first blue line stream shown on the USGS topographic map;
- (2) the analytical method used to collect and analyze the samples including quality control/quality assurance procedures. The narrative must include
- precise sampling methodology for each sampling location; (3) when the permittee has determined that some or all outfalls will be monitored, a rationale must be included for the NTU limit(s) selected from Appendix B. This rationale must include the size of the faciclity or infrastructure construction, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting water water fisheries); and
- (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. Sampling Type
- All sampling shall be collected by "grab samples" and the analysis

of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

- (1) Sample containers should be labeled prior to collecting 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, unless flow through automated analysis is utilized. 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 IV.D.5.c. (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 of these

samples used for the downstream turbidity value. (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.

(a) 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 equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been used. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial vegetation 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. Final stabilization applies to each phase of construction.

(h) All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the facility/site is in compliance with the standard set forth in Parts III.C.3. or III.C.4., whichever is applicable.

D. Sampling Frequency

- (1) The primary permitte must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, samples must be taken within forty-five (45) minutes of:
- (a) the accumulation of the minimum amount of rainfall for the qualifying event, if the storm water discharge to a monitored receiving water or from a monitored outfall has begun at or prior to the accumulation, or
- (i) the beginning of any storm water discharge to a monitored receiving water or from a monitored outfall, if the discharge begins after the accumulation of the minimum amount of rainfall for the qualifying event.
- (2) However, where manual and automatic sampling are impossible (as defined in the permit), 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 storm water discharge.
- (3) Sampling by the permittee shall occur for the following events: (a) For each area of the site that discharges to a receiving stream, the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours\* (Monday thru Friday, 8:00 AM to 5:00 PM and Saturday 8:00 AM to 5:00 PM when construction activity is being conducted by the Primory permittee) that occurs after all clearing and grubbing operations have been completed in the drainage area of the location selected as the representative 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 representative sampling location, whichever comes first;
- (c) At the time of sampling performed pursuant to (a) and (b) above, if BMPs are found to be properly designed, intalled and maintained, no further action in 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 designes, installed and maintained; and
- (d) Existing construction activitis, i.e., those that are occurring on or before the 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 the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above \* Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity
- samples from any rain event that reaches or exceeds 0.5 inch and allows for monitoring at any time of the day or week

# REPORTING

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 month during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G. 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 results reported by that permittee in accordance with this Part. In

- addition to other record keeping requirements, the monitoring information shall include:
- a. The date, exact place, and time of sampling or measurements;
  b. The name(s) of the individual(s) who performed the sampling and measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analysis were initialed;
- e. The names(s) of the individual(s) who performed the analyses; f. References and written procedures, when available, for the analytical techniques or methods used;
- g. The results of such analyses, including the bench sheets, intrument readouts, computer disks or tapes, etc., used
- to determine these results; and h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU."

## INSPECTIONS PRIMARY PERMITTEE REQUIREMENTS:

(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 or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each 24 hour period at the site. These inspections must be conducted until a Notice of Termination is submitted.

(2). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be 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 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.4.a.(3). These inspections must be conducted until a Notice of Termination is submitted.

(3). 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 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 waters(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.

(5). A report of each inspection that includes 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 IV.D.4.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 non-compliance, the report shall contain a certification that the construction site is in compliance the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit.

# RETENTION OF RECORDS

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternative location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD; b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit; d. A copy of all monitoring information, results, and reports required by this permit; e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and

g. Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of this permit. 2. Each secondary 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 Part VI:

- a. A copy of all Notices of Intent submitted to EPD; b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by the permit or the applicable
- portion of the Erosion, Sedimentation and Pollution Control Plan for their activities at the construction site required by this permit c. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit; and

d. A copy of all violation summaries and violation summary reports generated in accordance with Part II.D.2. of this permit 3. Each tertiary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD; and b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by the permit; c. The design professional's report of the results of the inspection conducted in accordance with Part
- IV.A.5. of this permit: d. A copy of all monitoring information, results, and reports required by this permit: e. A copy of all inspection reports generated in accordance with Part IV.D.4.o. of this permit; and
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit;

g. Daily rainfall information collected in accordance with Part IV.D.4.c.(1)(c) of this permit. 4. 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, records of all data used to complete the Notice of Intent to be covered by the permit and all other records required by the permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of the permit. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

				APPE	NDIX B				
	NE	EPHELO	METRIC	TURBIDI	<b>TY UNIT</b>	(NTU) T/	ABLES		
				COLD WA	TER (TRC	UT STRE	AM)		
			5	SURFACE WATE	R DRA NAGE	AREA, SQUAR	EMILES		
		0-4 99	5-9 99	10-24 99	25-49 99	50-99 99	100-249 99	250-499 99	500+
	1 00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
SITE SIZE,	25.01-50	25	25	25	50	75	100	300	500
ACRES	50.01-100	20	25	25	35	59	75	150	300
	100.01+	20	20	25	25	25	50	60	100
		W	ARM WAT	ER (SUPPO	ORTING W	ARM WA	TER FISHE	RIES)	
				URFACE WATER					
		0-4 99	5-9 99	10-24 99	25-49 99	50-99 99	100-249 99	250-499 99	500+
	1 00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
SITE SIZE,	25.01-50	50	50	100	100	200	300	750	750
ACRES	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100
		1001							

O USE THESE TABLES, SELECT THE SIZE (ACRES) OF THE FACILITY OR COMMON DEVELOPMENT. THEN, SELECT THE SURFACE WATER DRAINAGE AREA (SQUARE MILES.) THE NTU MATRIX VALUE ARRIVED AT FROM THE ABOVE TABLES IS THE ONE TO USE IN PART III.C.4. EXAMPLE 1: FOR A SITE SIZE OF 12.5 ACRES AND A COLD WATER DRAINAGE AREA OF 37.5 SQUARE MILES, THE NTU VALUE TO USE IN PART III C 4 IS 75 NTU

EXAMPLE 2: FOR A SITE SIZE OF 51.7 ACRES AND A WARM WATER DRAINAGE AREA OF 72 SQUARE MILES, THE NTU VALUE TO USE IN PART III.C.4 IS 100 NTU.

SECONDARY PERMITTEE REQUIREMENTS:

(1). Each day when any type of construction activity has taken place at a secondary permittee's site, certified personnel provided by the secondary permittee shall inspect: (a) all areas used by the secondary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the secondary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utilty companies and utility contractors if they are secondary permittees.

(2). Certified personnel (provided by the utility companies and utility contractors if they are secondary permittees) shall inspect the following each day any type of construction activity has taken place at the construction site: (a) areas of the construction site disturbed by the utility companies and utility contractors that have not undergone final stabilization; (b) areas used by the utility companies and utility contractors 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 utility companies and utility contractors' construction activities shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain wheter erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors when they are secondary permittees performing service line installations or when conducting repairs on existing line installations. The certification requirements of this paragraph shall be applicable 90 days after the effective date of this permit.

(3). Certified personnel (provided by the secondary permittee) shall inspect the following at least once every seven 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 non-working Saturday, non-working Sunday or any 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 secondary permittee's construction site that have not undergone final stabilization; (b) areas used by the secondary 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 indentified in the Plan applicable to the secondary 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.4.b.(4). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(4). Certified personnel (provided by the secondary 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 their sites 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). This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(5). Based on the results of each inspection, the secondary permittee must notify the primary permittee within 24-hours of any suspected BMP design deficiencies. The primary permittee must evaluate whether these deficiencies exist within 48-hours of such notice, and if these deficiencies are found to exist must amend the Plan in accordance with Part IV.C. of this permit to address those deficient BMPs within seven (7) days of being notified by the secondary permittee. When the Plan is amended, the primary permittee must notify and provide a copy of the amendment to all affected secondary permittee(s) within this seven (7) day period. The secondary permittees must implement any new Plan requirements affecting their site(s) within 48-hours of notification by the primary permittee.

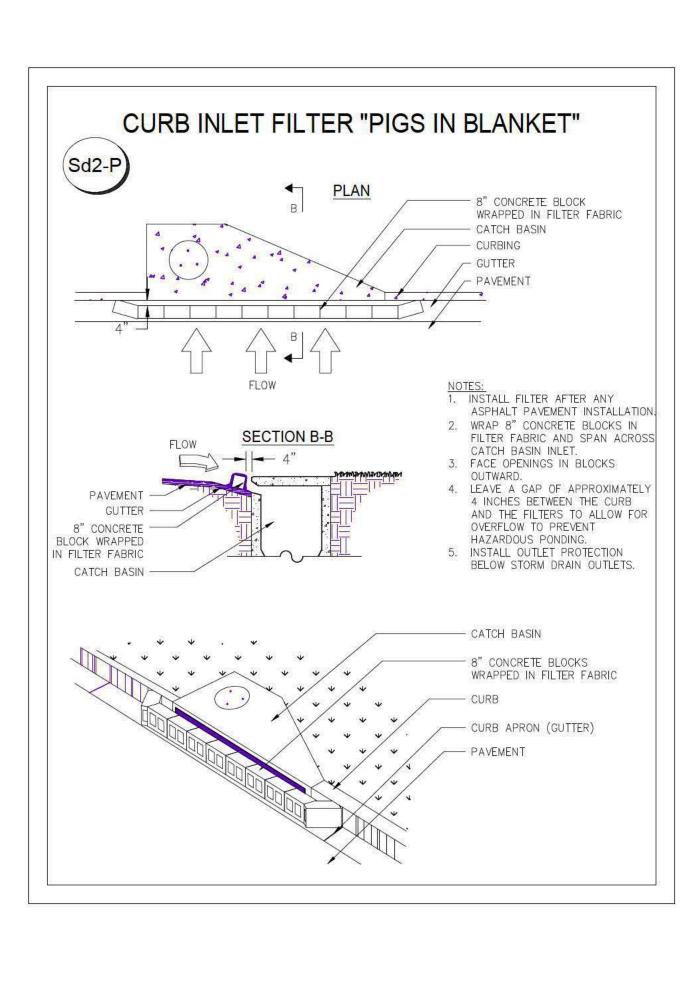
(6). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.b.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Port V.G. of this permit. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees performing only service line installations or when conducting repairs on existing line installations.

TERTIARY PERMITTEE REQUIREMENTS:

(1). Each day when any type of construction activity has taken place at a tertiary permittee's site, certified personnel provided by the tertiary permittee shall inspect: (a) all areas used by the tertiary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the tertiary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utilty companies and utility contractors performing only service line installations or when conducting repairs on existing line installations. (2). Certified personnel (provided by the tertiary permittee) shall inspect the following at least once every seven 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 non-working Saturday, non-working Sunday or any 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 tertiary permittee's construction site that have not undergone final stabilization; (b) areas used by the tertiary 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 indentified in the Plan applicable to the tertiary 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.4.c.(3). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations. (3). Certified personnel (provided by the tertiary 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 their sites 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). This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

(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 the inspection.

(5). A report of each inspection that includes 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 shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any non-compliance, the report shall contain a certification that the construction site 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. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.



DETENTION BASIN 1 WITH SKIMMER INSTALLED TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN SEDIMENT STORAGE CALCULATIONS

- Storage Calculations Required stormwater storage = 8765.3 cy
  - (as determined by local ordinance)
  - 2. Required sediment storage = \_\_\_\_\_ cy (67 cy/ac \* \_\_\_\_\_\_ ac disturbed area)
  - 3. Total required storage = 8765.3 + 2793.9 = 11,559.2 cy
  - 4. Available storage = 13,351.3 cy 5. Is the available storage (4) greater than the total required storage (3)?
  - X yes 6. If "no", the sediment storage capacity of the pond must be increased. Choose
  - the method to be used: Raise the invert of the outlet structure \_\_\_\_\_ inches Undercut the pond \_\_\_\_\_ feet
  - Other 7. Clean-out elevation = 311.5 ft
  - (Elevation corresponding to 22 cy/ac \* \_41.7 \_ ac disturbed area)
  - 8. Is the length-width ratio 2:1 or greater? ves
  - If "no", the length of flow must be increased. Choose the method to be used: Baffles (Type of baffle: Other

E,S&PC PLAN DESIGNER

E,S&PC PLANS PREPARED BY CERTIFIED DESIGN PROFESSIONAL:



2/01/24 EXPIRATION

OF 31 SHEETS

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