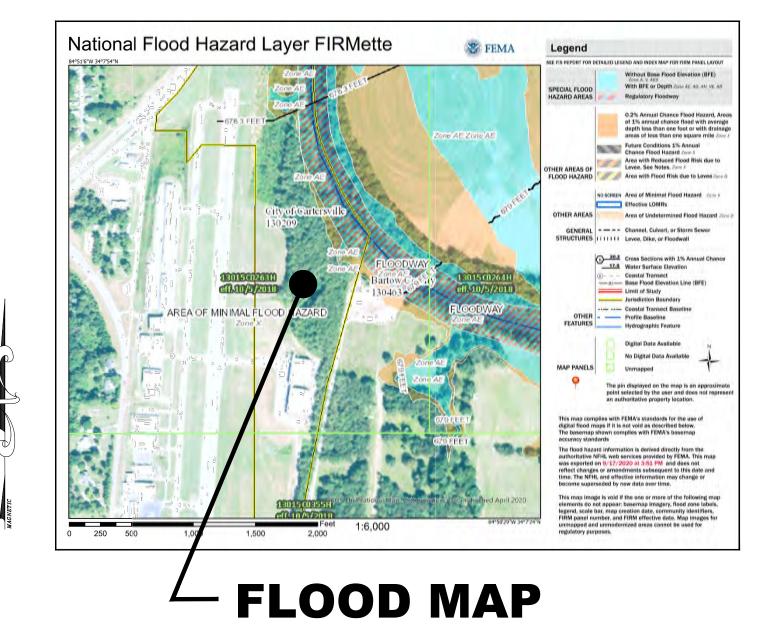
OWNER / DEVELOPER: PHOENIX AIR GROUP, INC. **100 PHOENIX AIR DRIVE, S.W. CARTERSVILLE, GA 30120 TELEPHONE: (770) 387-2000** FAX: (770) 387-4545





NOT TO SCALE

NOTE: THIS PROPERTY IS PARTIALLY LOCATED WITHIN THE 100 YEAR FLOOD PLAIN, AS PER FEMA FLOOD INSURANCE MAP 13015 C 0263 H, DATED OCT 5, 2018.

GENERAL NOTES

ACCEPTED PLANS AND SUBSEQUENT ACCEPTED REVISIONS MUST BE ON-SITE AT ALL TIMES.

ACCEPTANCE OF THESE PLANS AND ISSUANCE OF A LAND DISTURBANCE PERMIT BY THE CITY CONSTITUTES APPROVAL FROM THE CITY COMMUNITY DEVELOPMENT DEPARTMENT DEPARTMENT ONLY. ACCEPTANCE OF THESE PLANS BY THE CITY DOES NOT RELIEVE PERMIT HOLDER FROM MEETING ALL REQUIREMENTS OF THE CITY ENGINEERING ORDINANCE, FLOOD DAMAGE PREVENTION ORDINANCE, SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE, THE RULES AND REGULATIONS OF THE CITY OF CARTERSVILLE HEALTH DEPARTMENT, WATER AND SEWER DEPARTMENT, ROAD DEPARTMENT, GA DOT, THE US ARMY CORPS OF ENGINEERS AND ANY OTHER LOCAL, STATE OR FEDERAL LAW AGENCY AS IT RELATES TO DEVELOPMENT IN THE CITY

THE LOCATION OF EROSION AND SEDIMENT CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE ACCEPTED PLANS DUE TO CHANGES IN DRAINAGE PATTERNS CREATED DURING CONSTRUCTION. IT IS THE OWNER/DEVELOPERS RESPONSIBILITY TO ACCOMPLISH EROSION AND SEDIMENT CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION OR SEDIMENT DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE PROJECT ENGINEER IMMEDIATELY. FAILURE TO PROPERLY INSTALL, OPERATE OR MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES MAY RESULT IN ALL CONSTRUCTION BEING STOPPED UNTIL SUCH MEASURES ARE CORRECTED TO THE SATISFACTION OF THE CITY INSPECTOR.

DETENTION/SEDIMENTATION PONDS AND DIVERSION DITCHES SHALL BE INSTALLED IMMEDIATELY AND PRIOR TO ANY OTHER WORK ON-SITE. DETENTION POND(S) SHALL BE RETROEITTED FOR SILTATION CONTROL. PROJECT ENGINEER SHALL IMMEDIATELY FOLLOW UP WITH AS-BUILT CERTIFICATION FOR DESIGN COMPLIANCE PRIOR TO ACCEPTANCE OF THE FINAL PLAT FOR RESIDENTIAL PROJECTS AND PRIOR TO FINAL INSPECTION, 60-DAY POWER INSPECTION AND/OR REQUEST FOR CERTIFICATE OF OCCUPANCY FOR COMMERCIAL AND INDUSTRIAL PROJECTS.

OWNER AGREES BY IMPLEMENTATION OF THESE PLANS THAT ALL LAND CLEARING CONSTRUCTION, DEVELOPMENT AND DRAINAGE ACTIVITIES WILL BE DONE ACCORDING TO THESE ACCEPTED PLANS OR ACCEPTED REVISIONS. OWNER ACKNOWLEDGES THAT ACCEPTANCE OF PLANS BY THE CITY IN NO WAY RELIEVES OWNER RESPONSIBILITY NOT TO ADVERSELY IMPACT DOWNSTREAM PROPERTY REGARDING ANY LAND DISTURBING ACTIVITY, EROSION, EROSION AND SEDIMENT CONTROL MEASURE AND OR STORMWATER MANAGEMENT ACTIVITY DURING OR AFTER CONSTRUCTION. OWNER ACKNOWLEDGES THAT THE ACCEPTANCE OF THESE PLANS AND THE ISSUANCE OF THE LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRIATE OPERATIONS FOR THIS ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITTING, HAVE BEEN MET. THE ONUS IS ON THE OWNER/DEVELOPER TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY IF ANY TO OPERATE FROM THIS POINT IN AN APPROPRIATE AND LEGAL MANNER. PLAN ACCEPTANCE OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, POLICIES, STANDARDS OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT

ANY AND ALL LAND DISTURBANCE PERMITS MAY BE REVOKED AND AN CONSTRUCTION OF PROJECT IS NOT IN STRICT ACCORDANCE WITH A

DRAINAGE EASEMENTS WILL BE PROVIDED ALONG ALL CONCENTRAT MINIMUM WIDTH OF 20'. REQUIRED WIDTHS AND LOCATIONS WILL BE ON FINAL PLAT IF APPLICABLE. PROPOSED DRAINAGE DITCHES WILL PRIVATELY OWNED EASEMENTS AND ARE TO BE MAINTAINED AND PR OWNERS. NOTICE OF SAME SHALL BE INCLUDED ON FINAL PLAT AND CONVEYANCE FROM DEVELOPER TO THE INDIVIDUAL LOT OWNERS. SHALL HAVE 3:1 SIDE SLOPES OR FLATTER AND FALL ENTIRELY WITHIN OBSTRUCTIONS ARE NOT ALLOWED WITHIN DRAINAGE EASEMENTS

THE PERFORMANCE OF ALL STORM WATER DRAINAGE SYSTEMS INCL HAVE BEEN CHECKED USING THE 100-YEAR STORM (DEVELOPED COND LOCAL FLOODING AND POSSIBLE FLOOD HAZARDS TO ADJACENT STR THE CUMULATIVE EFFECT OF THE PROPOSED DEVELOPMENT, WHEN EXISTING AND ANTICIPATED DEVELOPMENT WILL NOT INCREASE THE OF THE BASE FLOOD MORE THAN ONE FOOT AT ANY POINT WITHIN TH

IF ACTUAL SITE CONDITIONS VARY FROM ACCEPTED PLANS, IT IS THE RESPONSIBILITY TO INFORM THE ENGINEER OF RECORD AND THE CIT FOR ASSESSMENT OF CONDITION. PROJECT CONSTRUCTION MAY BE ASSESSMENT PERIOD.

ACCEPTANCE AND/OR SUBSEQUENT ACCEPTANCE OF THESE PLANS APPROVAL BY THE CITY OF ANY LAND DISTURBING ACTIVITIES WITHIN JURISDICTIONAL WATERS OF THE STATE, AREAS OF THREATENED/ENI AREAS OF HISTORICAL SIGNIFICANCE. IT IS THE OWNERS RESPONSIB APPROPRIATE REGULATORY AGENCY FOR ANY REQUIRED APPROVAL

DEVELOPER SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY WARNING SIGNAGE TO THE SATISFACTION OF THE ROAD DEPARTMENT FRONTAGE IMPROVEMENTS ARE MADE.

OWNER/DEVELOPER IS RESPONSIBLE FOR MAINTAINING CONTROL OF DEVELOPER IS ALSO RESPONSIBLE FOR CONTROL OF SILT THAT IS TRU SUBDIVISION STREETS BY BUILDERS, CONTRACTORS, SUBCONTRACTO ANY OTHERS DURING CONSTRUCTION UNTIL STREET HAS BEEN ACCEN CARTERSVILLE ROAD DEPARTMENT.

MAINTAIN A MINIMUM 2' OF COVER OVER STORM PIPES BASED ON FINA DETERMINED BASED ON DEPTH OF COVER AND LOADING CONDITIONS

CONSTRUCTION PLANS FOR: CARTERSVILLE AIRPORT MANAGED BY: PHOENIX AIR GROUP, INC. EROSION CONTROL PLAN LAND LOT(S) 853, 854, 875 & 876

4TH DISTRICT, 3RD SECTION CARTERSVILLE, GEORGIA DATE: OCTOBER 2, 2020

SHEET INDEX

C101	GENERAL NOTES
C102	EXISTING CONDITIONS & DEMOLITION PLAN
C401	GRADING PLAN
C402	POND PLAN
C501-C504	EROSION CONTROL PLANS
C505	EROSION CONTROL NOTES
C506-C508	EROSION CONTROL DETAILS & VEGETATION PLAN
C509	STORM WATER POLLUTION PREVENTION PLAN
C510	SEDIMENT BASIN MAP
C601	WALL PROFILE

NY TIME IF THE ACCEPTED PLANS. TED DRAINAGE PATHS A REFERENCED AND SHOWN BE PROVIDED WITH ROTECTED BY INDIVIDUAL LOT O SUBSEQUENT DEEDS OF OPEN DRAINAGE DITCHES IIN EASEMENT. FLOW	DEBRIS FILLS ARE PROHIBITED, INCLUDING DEBRIS FILLS AT ALL CONSTRUCTION SITES OR WITHIN ANY DEVELOPMENT, AND INCLUDING BURN AND BURY PITS. THE BURYING OF CONSTRUCTION DEBRIS, CLEARED TRESS AND SHRUBS, AND SIMILAR BY-PRODUCTS OF DEVELOPMENT IS STRICTLY PROHIBITED. ALL SOLID WASTE, DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS GENERATED FROM CONSTRUCTION MUST BE PROPERLY DISPOSED OF IN THE CITY LANDFILL. OFF STREET PARKING MUST BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. LAND DISTURBING ACTIVITIES UNDER THE PERMIT MUST BEGIN WITHIN 120 DAYS AFTER
LUDING DETENTION FACILITIES NDITION) FOR EVALUATION OF RUCTURES AND/OR PROPERTY. I COMBINED WITH ALL OTHER E WATER SURFACE ELEVATION HE COMMUNITY.	ISSUANCE OF THE LAND DISTURBANCE PERMIT. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ONGOING MAINTENANCE OF VEGETATION FOR THE STORMWATER MANAGEMENT FACILITY. EXISTING VEGETATIVE COVER IS TO BE PRESERVED WHENEVER POSSIBLE, AND ONGOING SEEDING AND/OR MULCH MAY BE NECESSARY FOR THE PREVENTION OF EROSION. IT IS THE DEVELOPER'S RESPONSIBILITY TO ADDRESS ANY WETLANDS ISSUES TO THE
E OWNER/DEVELOPERS TY ZONING ADMINISTRATOR E DELAYED DURING	SATISFACTION OF THE U.S. ARMY CORPS OF ENGINEERS. IT IS THE DEVELOPER'S RESPONSIBILITY TO ADDRESS ANY ENDANGERED SPECIES ISSUES TO THE SATISFACTION OF THE U.S. FISH AND WILDLIFE SERVICE.
DOES NOT CONSTITUTE N WETLAND AREAS, NDANGERED SPECIES, OR BILITY TO CONTACT THE LS. Y TRAFFIC BARRICADES AND NT WHILE ROADWAY	IT IS THE DEVELOPER'S RESPONSIBILITY TO ABIDE BY ALL THE RULES AND REGULATIONS PERTAINING TO THE STATE OF GEORGIA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. ALL STORMWATER MANAGEMENT FACILITIES LOCATED WITHIN THE GENERAL AREA OF THE LEASE AREA MUST BE CLEANED AND PROPERLY MAINTAINED BEFORE A CERTIFICATE OF OCCUPANCY CAN BE ISSUED FOR THE BUILDING.
F SILT ON-SITE AT ALL TIMES. RACKED ONTO CITY R/W OR TORS, UTILITY COMPANIES OR EPTED BY THE CITY OF	
NAL GRADE. PIPE GAUGE IS.	

S	ITE CONTACT INF	ORMATION	
COMPANY	CONTACT	DESCRIPTION	PHONE
Southland Engineering	Karl Lutjens	Civil Engineering	770-387-0440
Georgia Power	Adi Patel	Power	770-387-5224
Bartow County Water Dept.	Gerardo Becera	Water	770-387-5170
Bartow County Sewer Dept.	Gerardo Becera	Sewer	770-387-5170
City of Cartersville Gas Dept.	Brian Friery	Gas	770-382-5642
City of Cartersville Public Works	Wade Wilson	Engineer	770-383-7432



LOCATION MAP-

NTS

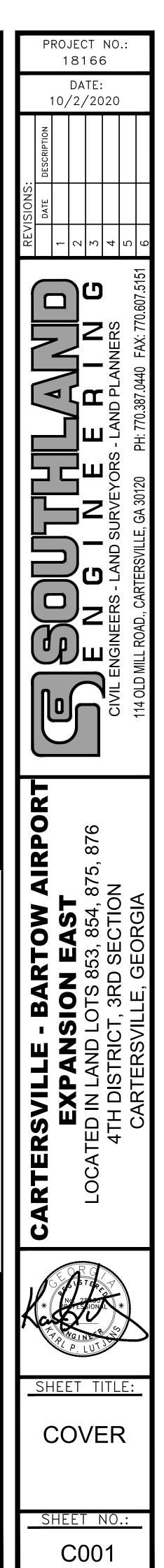
Site Plan Approva Bartow County and the City of Cartersville

In accordance with the City of Carter Zoning Ordinance and the Bartow Co requirements of approval have been	ounty Development Regulations, all fulfilled. These Site Plans were given
final approval by	y the rollowing:
Cartersville Gas System	Date
Cartersville Electric System	Date
Fibercom	Date
Cartersville Fire Department	Date
Cartersville Planning and Development	Date
Cartersville Public Works	Date
Cartersville Water Dept.	Date
Bartow County Water Dept.	Date

CONSTRUCTION EXIT GPS LOCATION: LATITUDE: 34.129091 LONGITUDE: -84.84808

> (4) **24 HOUR CONTACT DAN PORTA** 770-387-5672

TOTAL SITE AREA = 15.04 ACRES INITIAL DISTURBED AREA= 1.25 ACRES TOTAL DISTURBED AREA = 15.04 ACRES



SITE NOTES

- AREA OF LAND DISTURBANCE: 15.04 ACRES
- 2. ZONING H-I (HEAVY INDUSTRIAL)
- 3. MINIMUM FRONT YARD: 20 FT
- 4. MINIMUM SIDE YARD: 15 FT
- 5. MINIMUM REAR YARD: 20 FT
- 6. MINIMUM LOT FRONTAGE: 175 FT
- 7. MAXIMUM BUILDING HEIGHT: 50 FT
- 8. THE SITE IS PARTIALLY LOCATED WITHIN THE FLOOD PLAIN PER FEMA F.I.R.M. PANEL NUMBER: 13015 C0263 H, DATED OCT. 5, 2018. 9. SIGNING AND STRIPING TO BE PROVIDED BY THE DEVELOPER ACCORDING TO THE CITY SPECIFICATIONS, AIRPORT AUTHORITY, OR AIRPORT SAFETY PLAN.
- 10. ON-SITE PARKING SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- 11. THERE ARE STATE WATERS. ETOWAH RIVER. ON SITE. THE ETOWAH RIVER IS LOCATED TO THE NORTH FROM THE NEAREST LAND DISTURBANCE ACTIVITY.
- 12. THERE ARE NO WETLANDS ON SITE.
- 13. DOMESTIC WATER PROVIDED BY BARTOW COUNTY.
- 14. SANITARY SEWER PROVIDED BY BARTOW COUNTY.
- 15. BOUNDARY INFORMATION TAKEN FROM SOUTHLAND ENGINEERING SURVEYING DEPARTMENT AND TOPOGRAPHIC INFORMATION TAKEN FROM BOTH SOUTHLAND ENGINEERING SURVEY AND BARTOW COUNTY GIS.
- 16. EXISTING UTILITY LOCATIONS ARE SHOWN FOR INFORMATION PURPOSES ONLY.
- 17. TOTAL FUTURE IMPERVIOUS AREA= 6.18 ACRES
- 18. THE SITE IS LOCATED WITHIN THE ETOWAH VALLEY HISTORIC DISTRICT AS DEPICTED ON THE BARTOW COUNTY ETOWAH VALLEY HISTORIC DISTRICT MAP.
- 19. CONTRACTOR TO REMOVE SEDIMENT FROM POND AFTER CONSTRUCTION IS COMPLETE AND SITE IS STABILIZED. 20. MINIMIZE CLEARING TO THE AMOUNT OF LAND MINIMALLY NECESSARY FOR THE FOOTPRINT OF THE STRUCTURE, RIGHTS OF WAY, REQUIRED DRAINAGE. AND OR REQUIRED PARKING.
- 21. ACCEPTED PLANS AND SUBSEQUENT ACCEPTED REVISIONS MUST BE PRESENTED ON-SITE AT ALL TIMES
- 22. LAND DISTURBING ACTIVITIES UNDER THE PERMIT MUST BEGIN WITHIN 120 DAYS AFTER ISSUANCE OF THE LAND DISTURBANCE PERMIT.
- 23. ALL ROADWAY AND ROADSIDE DESIGN MUST CONFORM TO AASHTO GUIDELINES. 24. ALL TRAFFIC CONTROL DEVICES, SIGNS, SIGNALS, AND MARKINGS TO BE USED MUST CONFORM TO THE REQUIREMENTS OF THE
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) LATEST EDITION.

GRADING NOTES

BOUNDARY INFORMATION OBTAINED FROM SOUTHLAND ENGINEERING INC. TOPOGRAPHIC INFORMATION OBTAINED FROM SOUTHLAND ENGINEERING INC. AND BARTOW COUNTY GIS. EXISTING UTILITY LOCATIONS ARE SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF ALL UTILITIES AND FOR COORDINATING HIS OPERATIONS WITH ALL UTILITIES WHICH CONFLICT WITH HIS WORK. STORM DRAIN LOCATIONS AND INVERTS ARE TO BE FIELD VERIFIED. DISCREPANCIES ARE TO BE ADDRESSED TO THE ENGINEER. STORM DRAIN GRADES ARE TO MATCH EXISTING WATERCOURSE GRADES UNLESS NOTED OTHERWISE. ALL STREAMS, TRIBUTARIES, WETLANDS, DITCHES, OR DRAINS SHOWN HEREON HAVE BEEN VERIFIED IN THE FIELD AND ARE IDENTIFIED AS EITHER "JURISDICTIONAL" OR "NON-JURISDICTIONAL"

UNDERCUTTING IS REQUIRED IN ALL AREAS WHERE MATERIAL IS DETERMINED TO BE UNSUITABLE (BY A REGISTERED GEOTECHNICAL ENGINEER) FOR STRUCTURAL BACKFILL MATERIAL, ALL TREES, STUMPS, ROOTS, DEBRIS, AND OTHERWISE DELETERIOUS MATERIAL MAY NOT BE BURIED OR DISPOSED OF ON SITE, ALL SLOPES SHALL BE 2:1 MAXIMUM, UNLESS SPECIFIED OTHERWISE OR WITH WRITTEN APPROVAL FROM THE ENGINEER. STRIP TOPSOIL AND VEGETATION FROM ALL WORK AREAS PRIOR TO GRADING. COMPACT FILL TO 95% STD PROCTOR DENSITY. COMPACT TOP 12" IN BLDG AREAS TO 100% SPD FOR AN AREA EXTENDING 10' BEYOND SLAB IN ALL DIRECTIONS. STOCKPILES TO BE COMPACTED TO 90% SPD IN TOP 2' TO PREVENT INFILTRATION OF MOISTURE.

THIS DOCUMENT WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS OR ENTITY NAMED HEREON. USE OF THIS DOCUMENT DOES NOT EXTEND TO ANY UNNAMED PERSON WITHOUT THE EXPRESS RECERTIFICATION BY THE ENGINEER. THE RECORD DRAWINGS AND DESIGN DOCUMENTS FOR THIS PROJECT ARE ON FILE AT THE OFFICES OF SOUTHLAND ENGINEERING, INC (SEI). ANY ALTERATION OR REVISION TO THESE DOCUMENTS BY PERSONS OTHER THAN PROFESSIONAL EMPLOYEES OF SEI SHALL NOT BE PERMITTED. SEI SHALL NOT BE HELD LIABLE FOR ANY CLAIMS MADE ARISING FROM UNAUTHORIZED ALTERATIONS, REVISIONS OR USE.

CITY OF CARTERSVILLE DETENTION POND NOTES:

A. STORM WATER FACILITY(IES) SHALL REMAIN IN PLACE AS APPROVED AND AS-BUILT CERTIFIED IN PERPETUITY AND SHALL NOT ENCROACHED UPON FOR ANY REASON.

B. STORMWATER FACILITY(IES) SHALL BE INSPECTED ON A SEMI-ANNUAL BASIS BY OWNER. ANY ACCUMULATED TRASH, SEDIMENT, OR DEBRIS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

C. OWNER/DEVELOPER SHALL ACCEPT FULL LIABILITY FOR THE SAFETY OF ALL PERSONS IN OR AROUND THE STORMWATER FACILITY(IES) AT ALL TIMES.

D. BARTOW/CARTERSVILLE AIRPORT AUTHORITY SHALL INDEMNIFY CITY AGAINST ALL SUITS BROUGHT ABOUT BY THE EXISTENCE OF THE DETENTION FACILITY(IES).

E. BARTOW/CARTERSVILLE AIRPORT AUTHORITY SHALL PROVIDE THAT OBLIGATIONS BE TRANSFERRED TO ALL SUCCESSORS AND ASSIGNS OF PROPERTY, AND SHALL ACCEPT RESPONSIBILITY FOR INFORMING SUCH SUCCESSORS AND ASSIGNS OF SAID OBLIGATIONS. F. ALL EXISTING AND PROPOSED STORM DRAINAGE FEATURES AFFECTING THIS DEVELOPMENT HAVE BEEN EVALUATED AND/OR DESIGNED IN ACCORDANCE WITH CITY OF CARTERSVILLE REQUIREMENTS AND WILL NOT ADVERSELY IMPACT ANY PROPOSED ON-SITE IMPROVEMENTS OR UPSTREAM OR DOWNSTREAM PROPERTY.

STORM PIPE NOTES:

- THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD "PIPE CULVERTS" NUMBER 1030D, LATEST EDITION SHALL BE USED IN DETERMINING THE CLASS OF REINFORCED CONCRETE PIPE OR GAUGE OF CORRUGATED STEEL PIPE OR TYPE 2 CORRUGATED ALUMINUM PIPE UNDER FILL AND THE METHOD OF BACKFILLING.
- 2. FIELD JOINTS FOR CORRUGATED PIPE SHALL BE MADE WITH BANDS OF THE SAME BASE METAL AND COATING AS THE CORRUGATED PIPE. BANDS SHALL BE OF THE HUGGER TYPE DESIGNED TO FULLY ENGAGE AT LEAST ONE ANNULAR CORRUGATION AT THE END OF EACH CORRUGATED PIPE AROUND IT'S ENTIRE CIRCUMFERENCE. MINIMUM BAND WITH SHALL EQUAL THE CENTERLINE LENGTH OF FOUR (4) ANNULAR CORRUGATIONS. BANDS SHALL CONFORM TO CURRENT ASTM/AASHTO INDUSTRY STANDARDS AS TO SECURING BOLTS, THEIR NUMBER AND PLACEMENT.
- CONCRETE PIPE SECTIONS MAY BE JOINED WITH BITUMINOUS PLASTIC CEMENT JOINTS, REBBER-TYPE GASKET JOINTS, O-RING GASKET JOINTS OR PRE-FORMED PLASTIC GASKET JOINTS. IN BITUMINOUS PLASTIC CEMENT JOINTS, THE ANNULAR SPACE SHALL BE FILLED WITH JOINT MATERIAL, AND THE INSIDE OF EACH JOINT WIPED SMOOTH. RUBBER-TYPE, O-RING, AND PRE-FORMED PLASTIC GASKET JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 4. ALL CATCH BASINS, DROP INLETS OR OTHER DRAINAGE STRUCTURES SHALL COMPLY WITH THE LATEST STANDARDS APPROVED AND PROMULGATED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION IN "STANDARDS SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES", LATEST EDITION.
- 5. HDPE PIPE SHALL BE ADVANCED DRAINAGE SYSTEMS, INC "N-12" SMOOTH INTERIOR DUAL WALL CORRUGATED PIPE OR APPROVED EQUAL. GRANULAR BACKFILL TO TOP OF PIPE. WATERTIGHT BELL AND SPIGOT GASKETED JOINTS MUST BE PROVIDED
- 6. PIPE LENGTHS ARE SCALED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. CONTRACTOR SHALL VERIFY PIPE LENGTH PRIOR TO ORDERING PIPE AND PRIOR TO CONSTRUCTION.
- COMPACT ALL FILL AREAS ABOVE AND UNDER PIPE TO MIN. 98% STD. PROCTOR 8. ALL ORGANICS AND TOP SOIL SHALL BE REMOVED FROM BACK FILL MATERIALS.

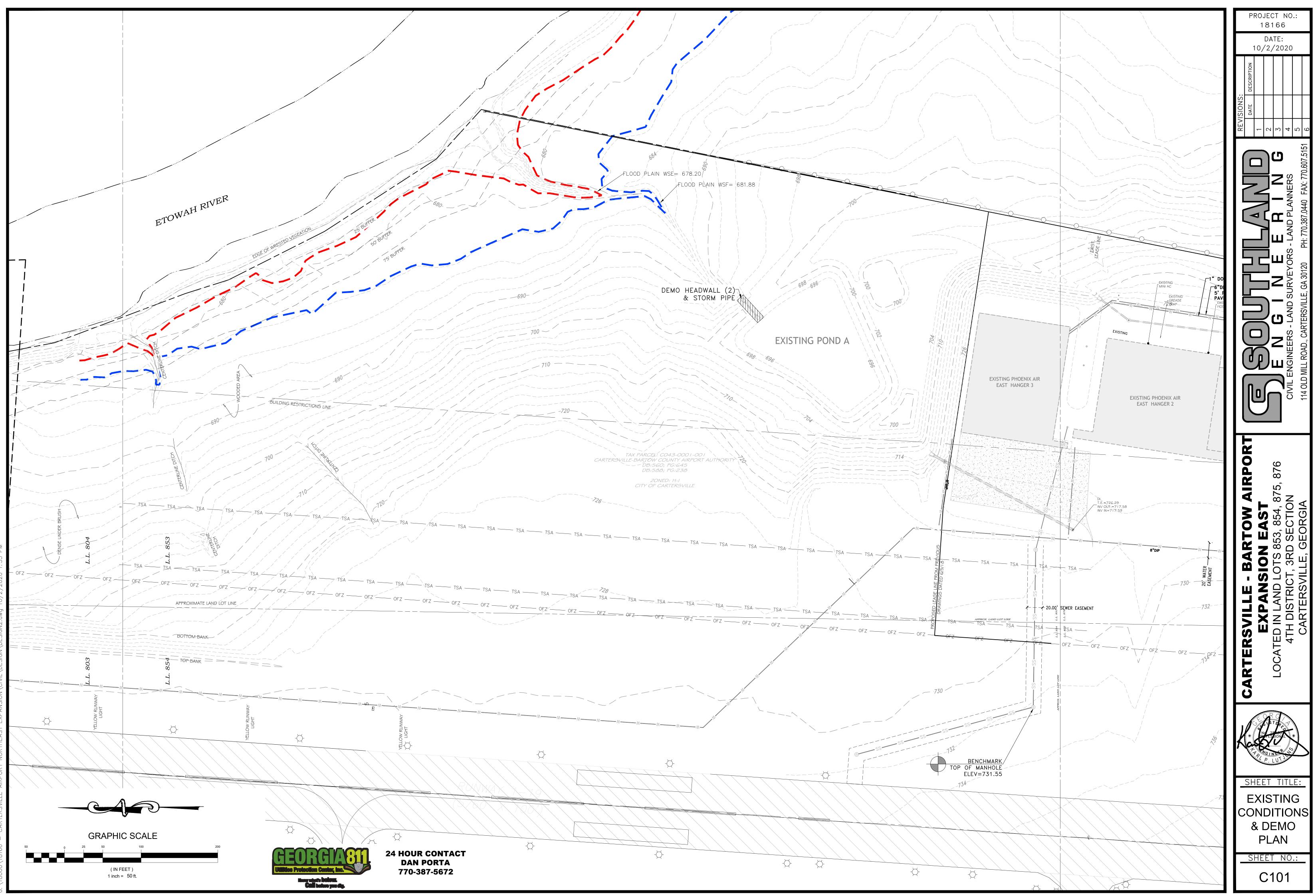
UTILITY DISCLAIMER

INFORMATION REGARDING THE PRESENCE. SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON IS BASED ON INFORMATION READILY AVAILABLE AT THE TIME OF PLAN PREPARATION. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE TAKEN INTO CONSIDERATION BY THOSE USING THIS DOCUMENT. THE LOCATION AND DISPOSITION OF UTILITIES SHOWN MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES AFFECTED BY HIS WORK PRIOR TO BEGINNING ANY CONSTRUCTION OR LAND DISTURBANCE.

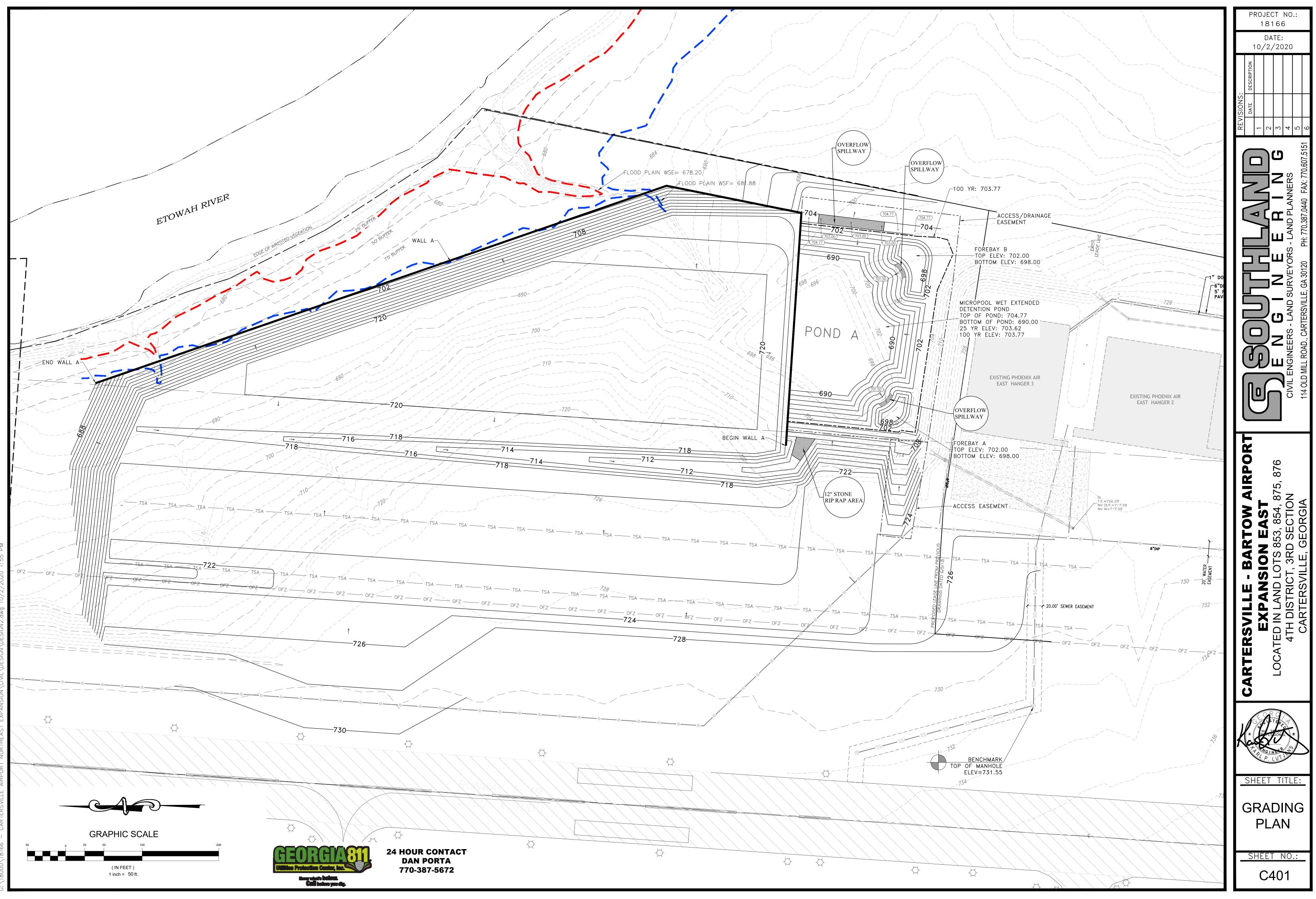
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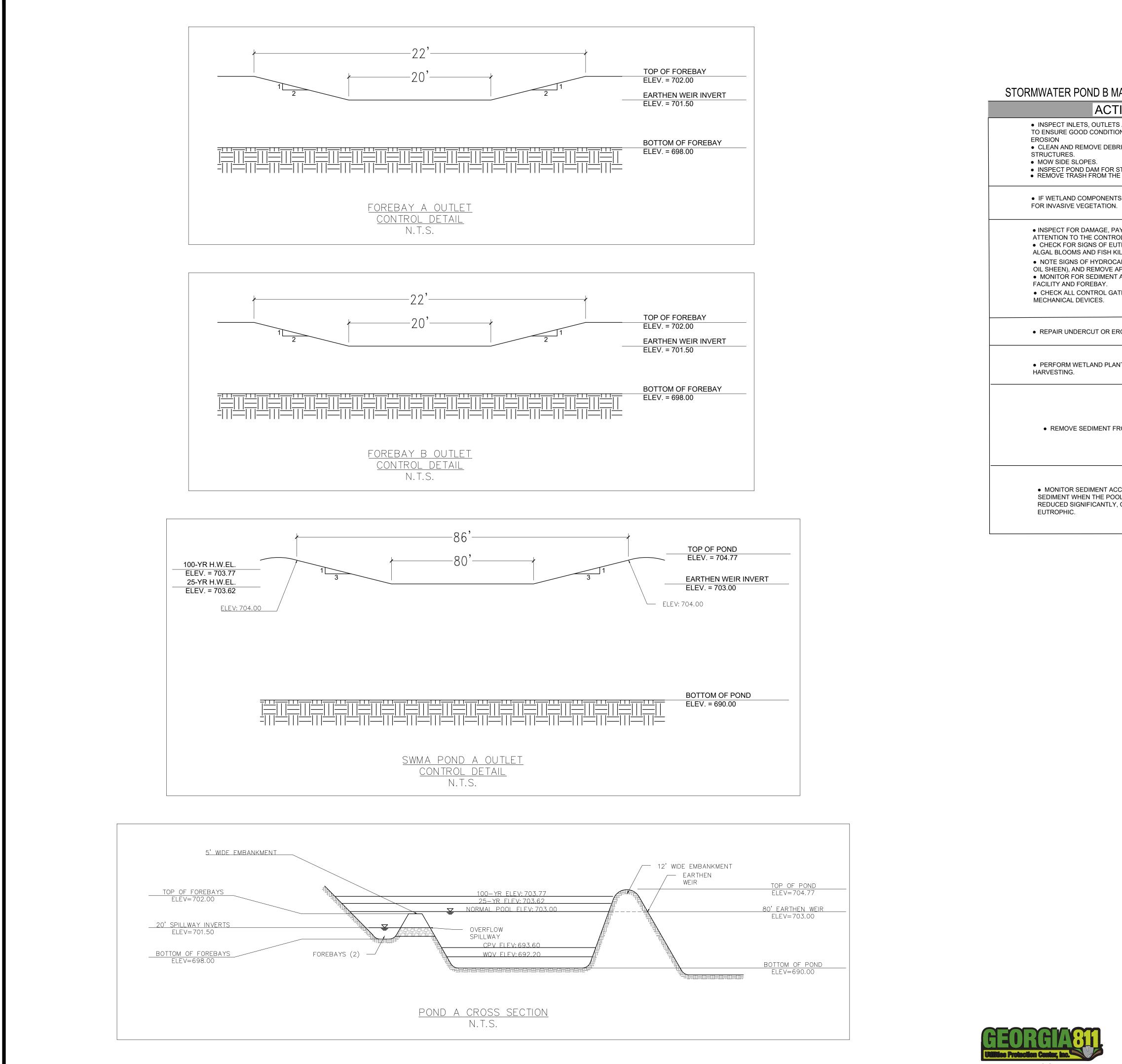
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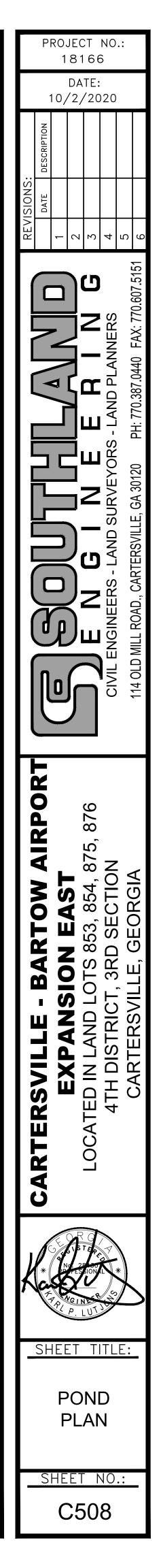
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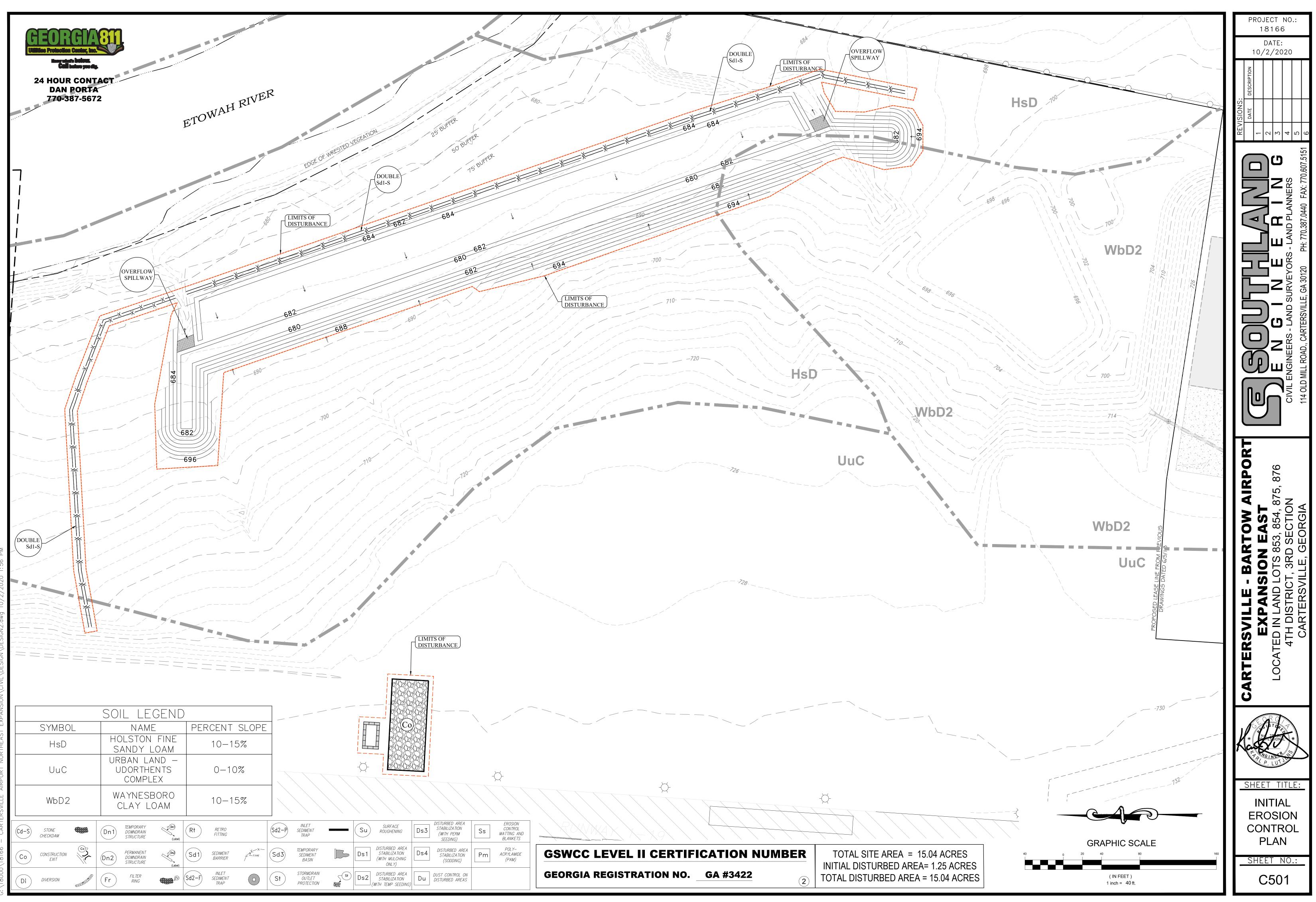


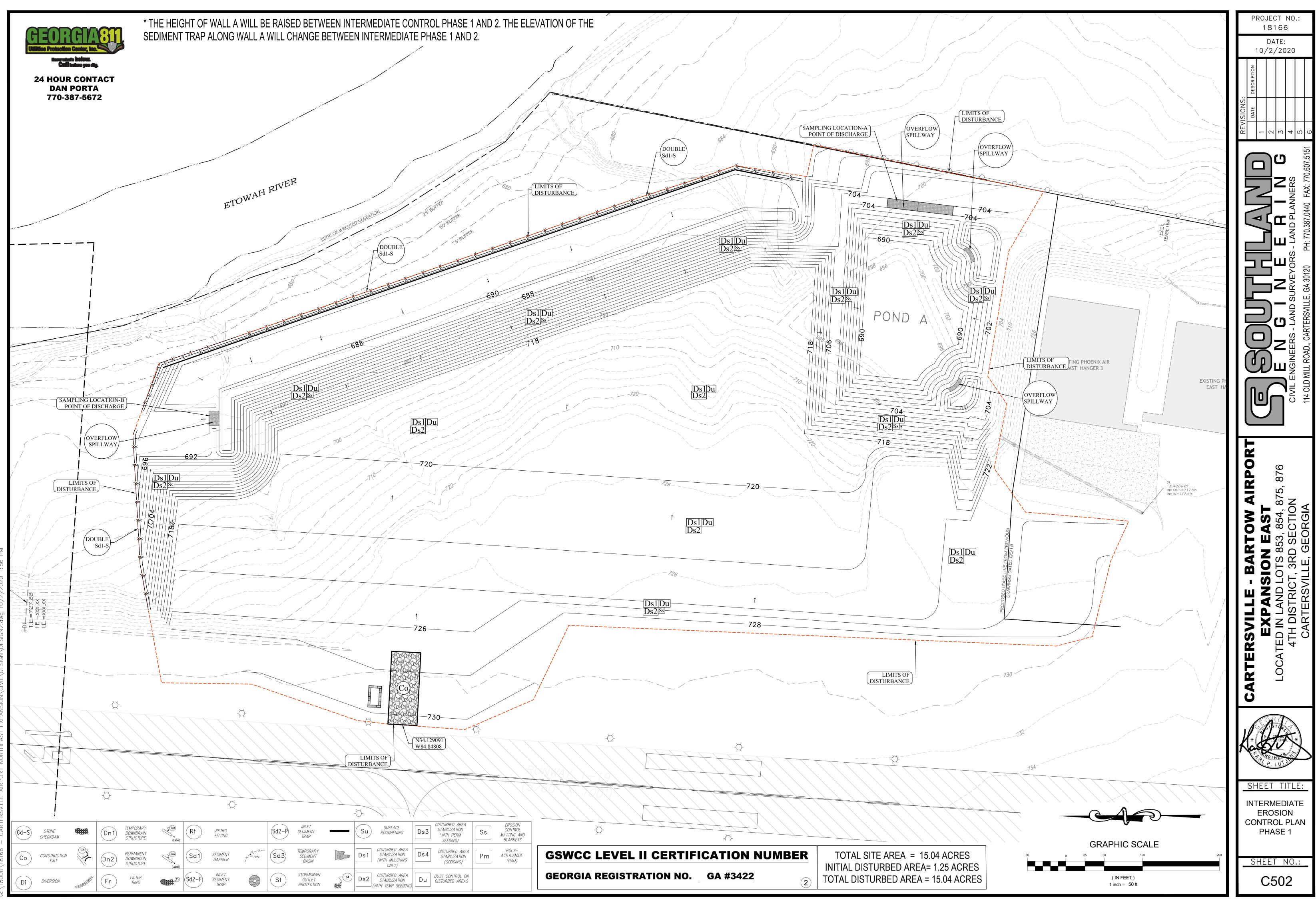
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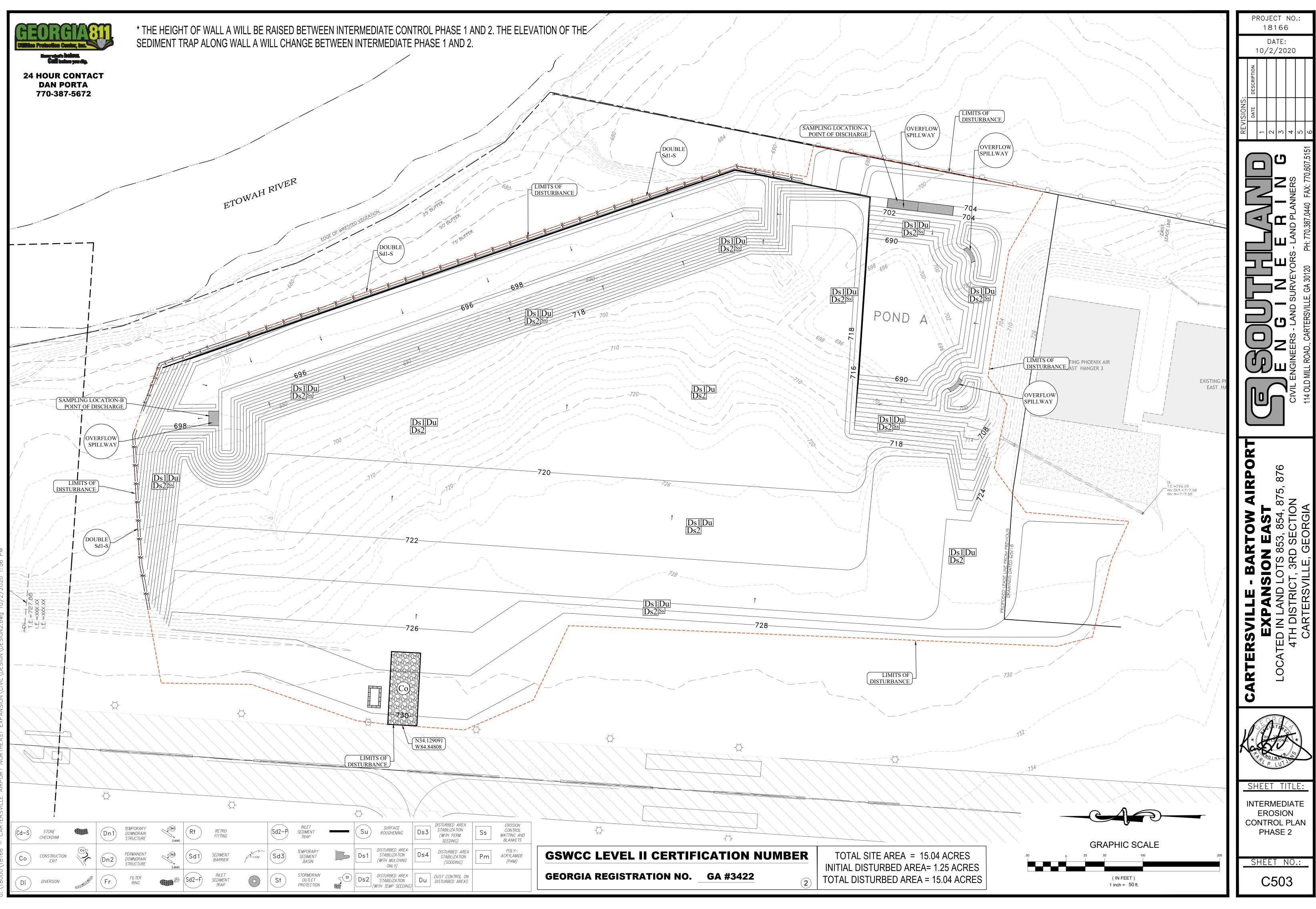
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NT MANAGEMENT AND	ANNUALLY (IF NEEDED)
ROM THE FOREBAY.	5 TO 7 YEARS OR AFTER 50% OF THE TOTAL FOREBAY CAPACITY HAS BEEN LOST
CCUMULATIONS, AND REMOVE OL VOLUME HAS BECOME 7, OR THE POND BECOMES	10 TO 20 YEARS OR AFTER 25% OF THE PERMANENT POOL VOLUME HAS BEEN LOST

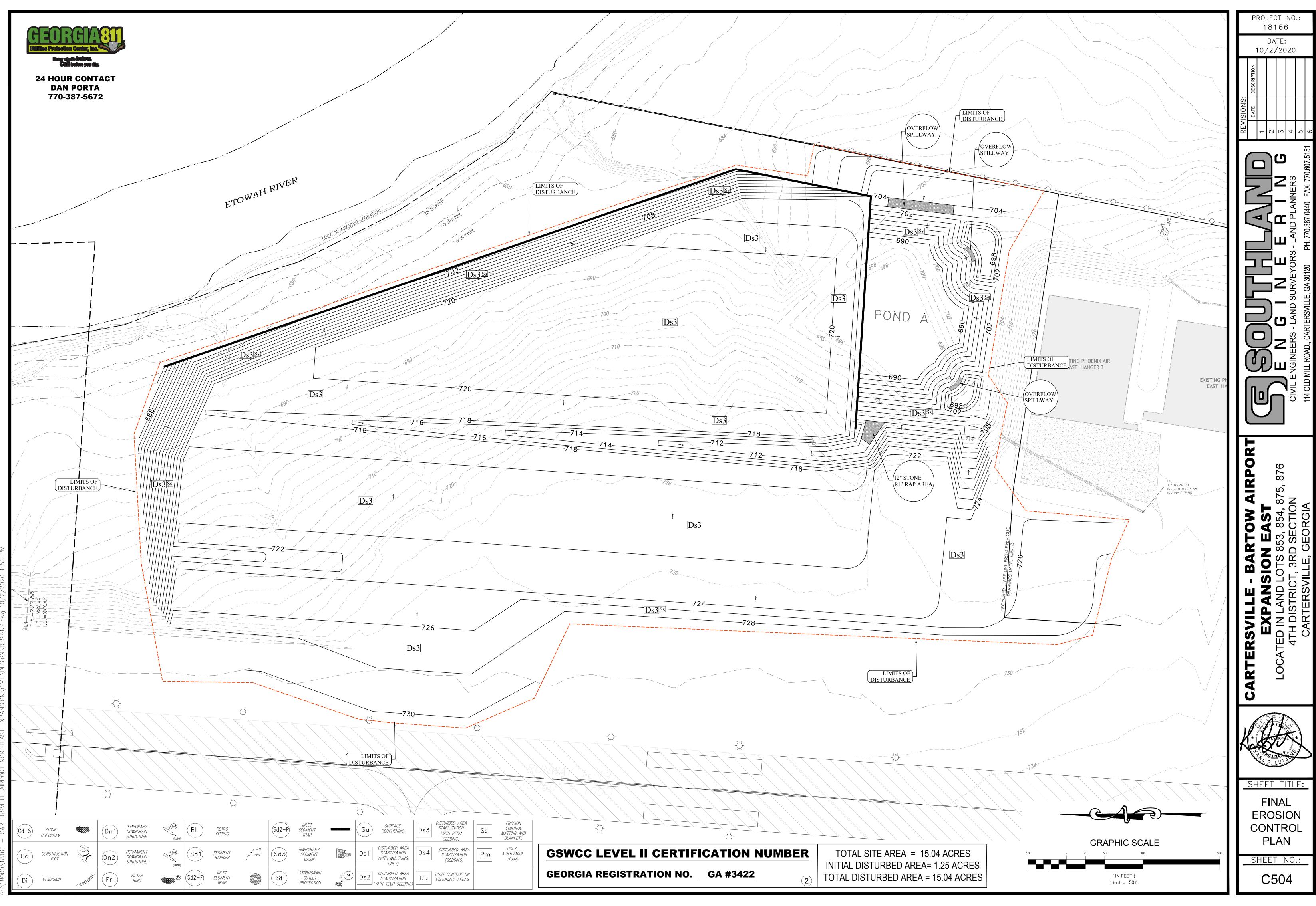


GSWCC LEVEL II CERTIFICATION NUMBER (2) GEORGIA REGISTRATION NO. _____GA #3422









 APPROVED PLANS. FOR SUCH DISTURBANCES WITHIN THE BUFFER, THE AREA SHALL BE IMMEDIATELY STABILIZED USING EROSION CONTROL MATTING AND/OR BLANKETS ONCE THE ACTIVITY IS COMPLETE. SEDIMENT STORAGE VOLUME (67 CY/ACRE) MUST BE INSTALLED PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITY AND IN PLACE UNTIL FINAL STABILIZATION OCCURS. FOR EACH SITE ON WHICH LAND DISTURBING ACTIVITY OCCURS, EACH ENTITY OR PERSON ACTING AS EITHER A PRIMARY, SECONDARY, OR TERTIARY PERMITTEE, AS DEFINED IN THE STATE GENERAL PERMIT, SHALL HAVE AS A MINIMUM ONE PERSON WHO IS IN RESPONSIBLE CHARGE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES ON BEHALF OF SAID ENTITY OR PERSON AND MEETS THE APPLICABLE (LEVEL 1A) EDUCATION OR TRAINING CERTIFICATION REQUIREMENTS (O.C.G.A. 12-7-19(A)(2)). ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPLICABLE (LEVEL 1A) EDUCATION OR TRAINING CERTIFICATION REQUIREMENTS (O.C.G.A. 12-7-19(A)(2)). ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. IN SUCH INSTANCES WHERE THE ESTABLISHMENT OF VEGETATION IS INOPPORTUNE DUE TO SEASON OR DROUGHT, DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED USING 2"-4" OF MULCH (DS1). ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED LOAD DISTURBANCE ACTIVITY SHALL	INSTALLED PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITY AND IN PLACE UNTIL FINAL STABILIZATION OCCURS. FOR EACH SITE ON WHICH LAND DISTURBING ACTIVITY OCCURS, EACH ENTITY OR PERSON ACTING AS EITHER A PRIMARY, SECONDARY, OR TERTIARY PERMITTEE, AS DEFINED IN THE STATE GENERAL PERMIT, SHALL HAVE AS A MINIMUM ONE PERSON WHO IS IN RESPONSIBLE	THE BUFFER, THE AREA SHALL BE IMMEDIATELY STABILIZED USING EROSION CONTROL MATTING	NECESSARY BY ON-SITE INSPECTION. ALL SILT FENCES MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, QUALIFIED PRODUCTS LIST #36.	BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED	21 ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. EROSION AND SEDIMENT CONTROL MEASURES SHALL	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.	19 EROSION CONTROL NOTES THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
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THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

- 1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96. SECTION 7.3 SEPARATION REQUIREMENTS.
- 2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN.
- 3. SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA. TABLE 6-27.1. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE **REMOVED WHEN ACCUMULATION REACHES 1/2** HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY
- 4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
- 5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
- 6. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.

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

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

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

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

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

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

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING THE CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S **RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR** ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.0. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND **REUSED AFTER PERMANENT SLOPE STABILIZATION** BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED. CUT AND FILL SLOPES ARE NOT TO EXCEED "2H:1V".

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

EROSION CONTR

- STAKE CLEARING LIMITS PRIOR TO BEGINNING MASS CLEARING
- SEDIMENT BASINS
- PRIOR TO ANY GRADING).
- BEGIN CLEARING AND GRUBBING.
- NOTES: BEGIN GRADING SITE

- (IF APPLICABLE)
- OUTFALLS
- MAINTAIN BMP'S AS NEEDED.

- AND PAVING.

- LANDSCAPING, Ds3 & Ds4.
- APPLICABLE)

(29)

(52) V	'EGETATI	VE P	RACTICES			SEDIMENT TRAP		(SPA	inlet to a storm drain to trap sediment.		
	DETAIL	MAP SYMBOL	DESCRIPTION		Sd3	TEMPORARY SEDIMENT BASIN			waterway. The surface water runorr is temporarily stored allowing the bulk of the sediment to drop out.		
Bf BUFFER ZONE	4000		Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or		Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.		
COASTAL DUNE STABILIZATION (WITH VEGETATION)	منعند المنطقة ا	v (Meel)	bordering streams. Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.		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.		
DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.		SpB	SEEP BERM		State State	A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.		
DISTURBED AREA STABILIZATION (WIT TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.	STRUCTURAL PRACTICES							
DISTURBED AREA	The second second		Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.		CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION		
DS3 STABILIZATION (WITH PERM SEEDING)		Ds3			Sr)	TEMPORARY STREAM CROSSING		ST -	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.		
DS4 DISTURBED AREA STABILIZATION (SODDING)	8	Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.	(St	STORMDRAIN OUTLET PROTECTION		(Jase) (Jase)	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.		
DU DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.	(Su	SURFACE ROUGHENING		⊢⊛ ⊣	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.		
FI-CO		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.		Тс	turbidity Curtain		Te	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).		
STREAMBANK STABILIZATION (USIN PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.		Тр	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.		
SS SLOPE STABILIZATION	Ĩ	Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.		Tr	TREE PROTECTION	\odot		To protect desirable trees from injury during construction activity.		
Tac TACKIFIERS AND BINDERS		Тас	Substance used to anchor straw or hay mulch by causing the organic material to bind together.		Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		<u>+</u> +)	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.		
	•										

INSTALL SILT FENCE & TREE PROTECTION FENCE	
BEGIN INITIAL CLEARING OF SITE, INSTALL TEMPORARY SEDIMENT TRAPS, USE BRUSH PILE FILTERS, SEED & MULCH BARE GROUND. BEGIN DEMOLITION OF EXISTING INFRASTRUCTURE	
BEGIN GRADING, INSTALL STORM SYSTEM WITH SD2 PROTECTION. SEED AND MULCH BARE AREAS.	

*PLACE CONSTRUCTION ENTRANCE

GENERAL CONSTRUCTION SCHEDULE

Approx. Start Date: OCTOBER 2020 , Approx. Completion Date: JULY 2021

BEGIN CONSTRUCTION OCT. 2020 OCTOBER NOVEMBER DECEMBER

GRADE DRIVES AND BUILDING PADS, BEGIN INSTALLATION OF WATER AND SEWER MAINTAIN TEMPORARY SEDIMENT TRAPS. FINAL GRADE PARKING AND BUILDING PADS, INSTALL CURBING & PAVING BASE, CONVERT SD2-F TO SD2-P, SEED ANY BARE AREAS, BEGIN BUILDING CONSTRUCTIO CONTINUE WITH BUILDING CONSTRUCTION, BEGIN PERMANENT LANDSCAPING IN AREAS AVAILABLE.

INSTALL FINAL PAVING, INSTALL PERMANEI LANDSCAPING, FILL IN SEDIMENT TRAPS AND STABILIZE WITH PERMANENT VEGETATION. REMOVE SD2-P, REMOVE SILT FENCE AND TREE

PROTECTION FENCE, REMOVE CONSTRUCTION MAINTAIN CONSTRUCTION ENTRANCE. TRE SAVE FENCE, SILT FENCE, CHECK DAMS, FILTEH RINGS, INLET PROTECTION, DIVERSION DITCHES,

AND TEMPORARY SEDIMENT TRAPS

24 HOUR CONTACT DAN PORTA 770-387-5672



Call before you div

GSWCC LEVEL II CERTIFICATION NUMBER GEORGIA REGISTRATION NO. GA #3422

OL	NARRATIVE:	(36) (37)	

INITIAL PHASE CONSTRUCTION SCHEDULE NOTES:

CONTRACTOR TO INSTALL SILT FENCE. CONSTRUCTION ENTRANCE, SEDIMENT BASINS CONTRACTOR TO DIRECT STORMWATER TO THE

 INSTALL ALL EROSION CONTROL MEASURES, DIVERSION DITCHES AS SHOWN ON THE INITIAL PHASE PLAN (EROSION CONTROL MEASURES TO BE CONSTRUCTED AND FULLY FUNCTIONAL

INSTALL CONCRETE WASHOUT AREA

INTERMEDIATE PHASE CONSTRUCTION SCHEDULE

 BEGIN INSTALLING STORM (IF APPLICABLE) DIRECT STORMWATER SEDIMENT BASINS DURING MASS GRADING OF THE PROPERTY. INSTALL INLET SEDIMENT PROTECTION (SD2-F)

INSTALL OUTLET PROTECTION AT STORM

 PROVIDE DS1, DS2 & MB FOR AREAS THAT HAVE NOT BEEN DISTURBED FOR MORE THAN 14 DAYS.

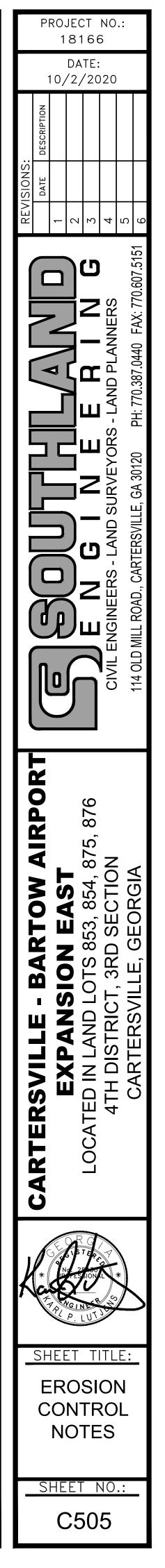
FINAL PHASE CONSTRUCTION SCHEDULE NOTES MAINTAIN BMP'S AS GRADING PROGRESSES. GRADE PARKING AREAS AND BUILDING PADS. BEGIN INSTALLING CURBING, SIDEWALKS, BASE

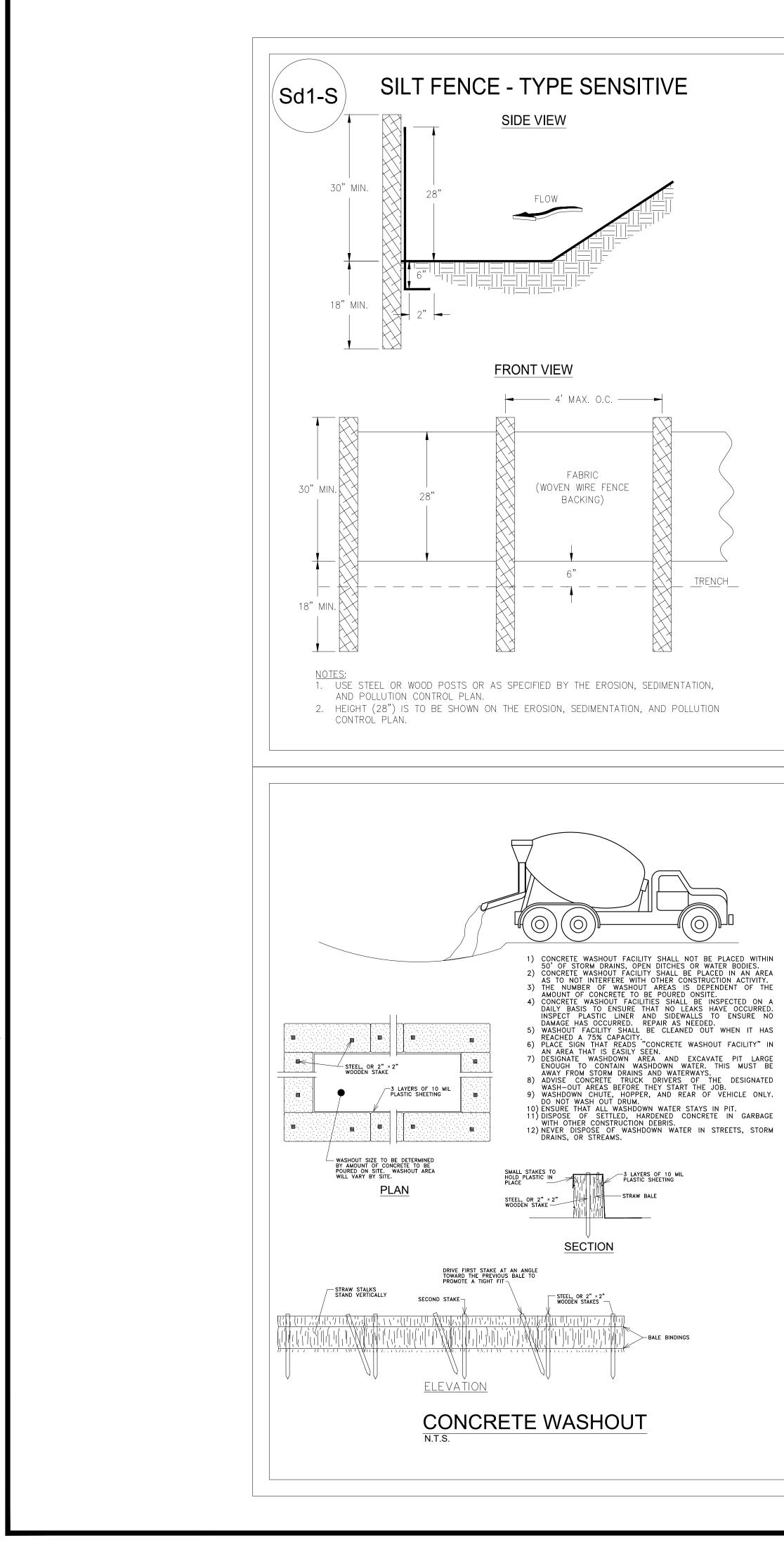
ONCE CURB IS IN PLACE AND STORM DRAIN TOPS HAVE BEEN INSTALLED INSTALL SD2-P. BEGIN INSTALL PERMANENT VEGETATION AND

REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SITE IS 100% STABILIZED. REMOVE RETROFIT FROM DETENTION POND OUTLET AND FILL IN SEDIMENT BASIN (IF

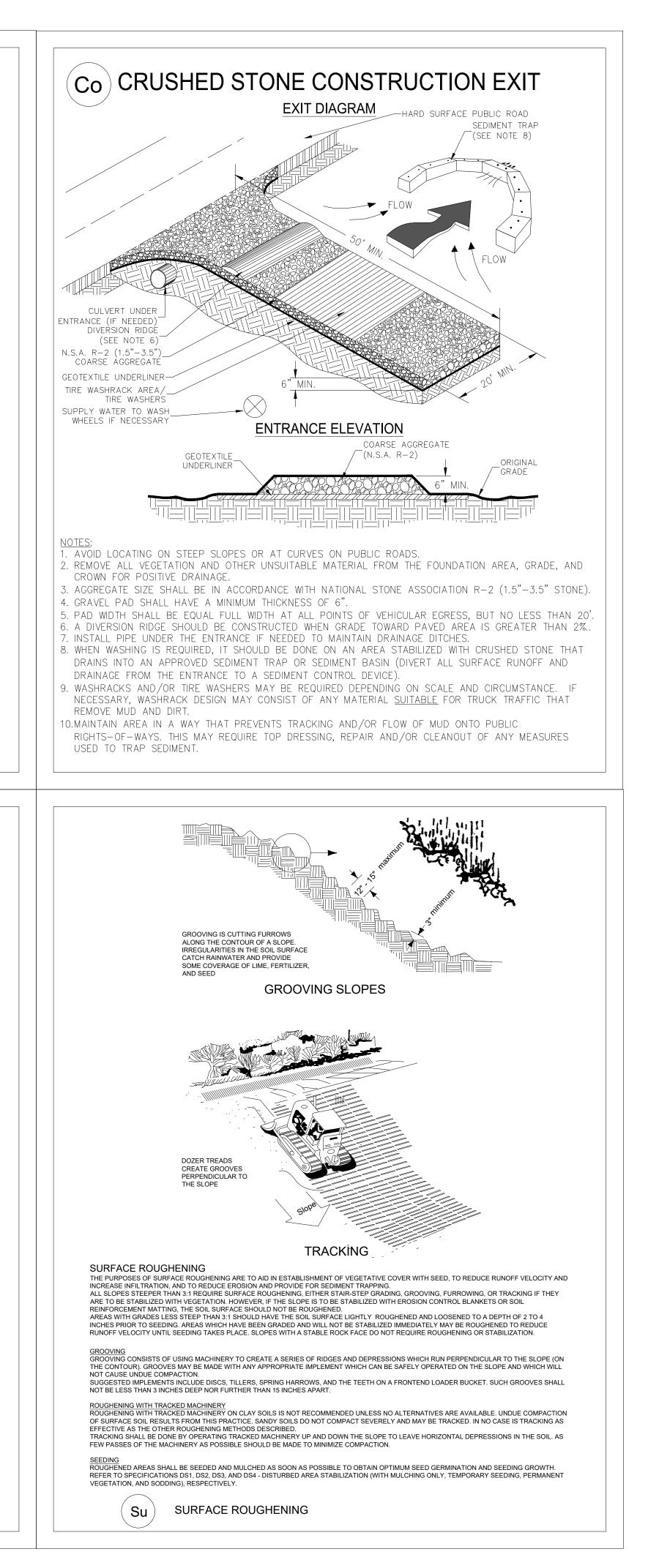
	(51) SI	RUCTU	RAL F	PRACTICES
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM	TRANS -	ſ	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION		1	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
60	CONSTRUCTION EXIT		Strain and a	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		<u>کې</u>	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on—site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL		⇔	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		E	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
(Dn2)	PERMANENT DOWNDRAIN STRUCTURE	T	B	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
(F	FILTER RING	U		A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION	Ŵ	,ST	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		(a)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
(L)	LEVEL SPREADER		¥	A storm flow outlet device constructed at zero grade across the slope whereby concentrated runoff may be discharged at a non-erosive velocity onto undisturbed areas stabilized by existing vegetation.
Rd	rock Filter Dam		٢	A temporary stone filter dam installed across drainageways or in conjunction with a temporary sediment trap.
Re	RETAINING WALL	ji j	E C	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	retro Fitting	R	(R)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, or a silt fence
Sd2	inlet Sediment Trap			A temporary protective device formed at or around an inlet to a storm drain to trap sediment.
Sd3	TEMPORARY SEDIMENT BASIN	ÂĴ		A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	temporary Sediment Trap	E		A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
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.
SpB	seep berm			A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.

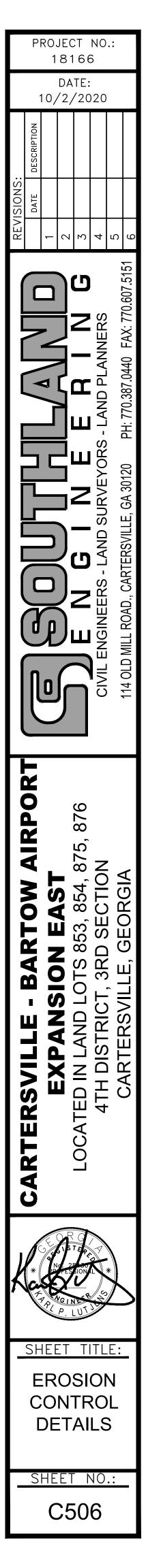
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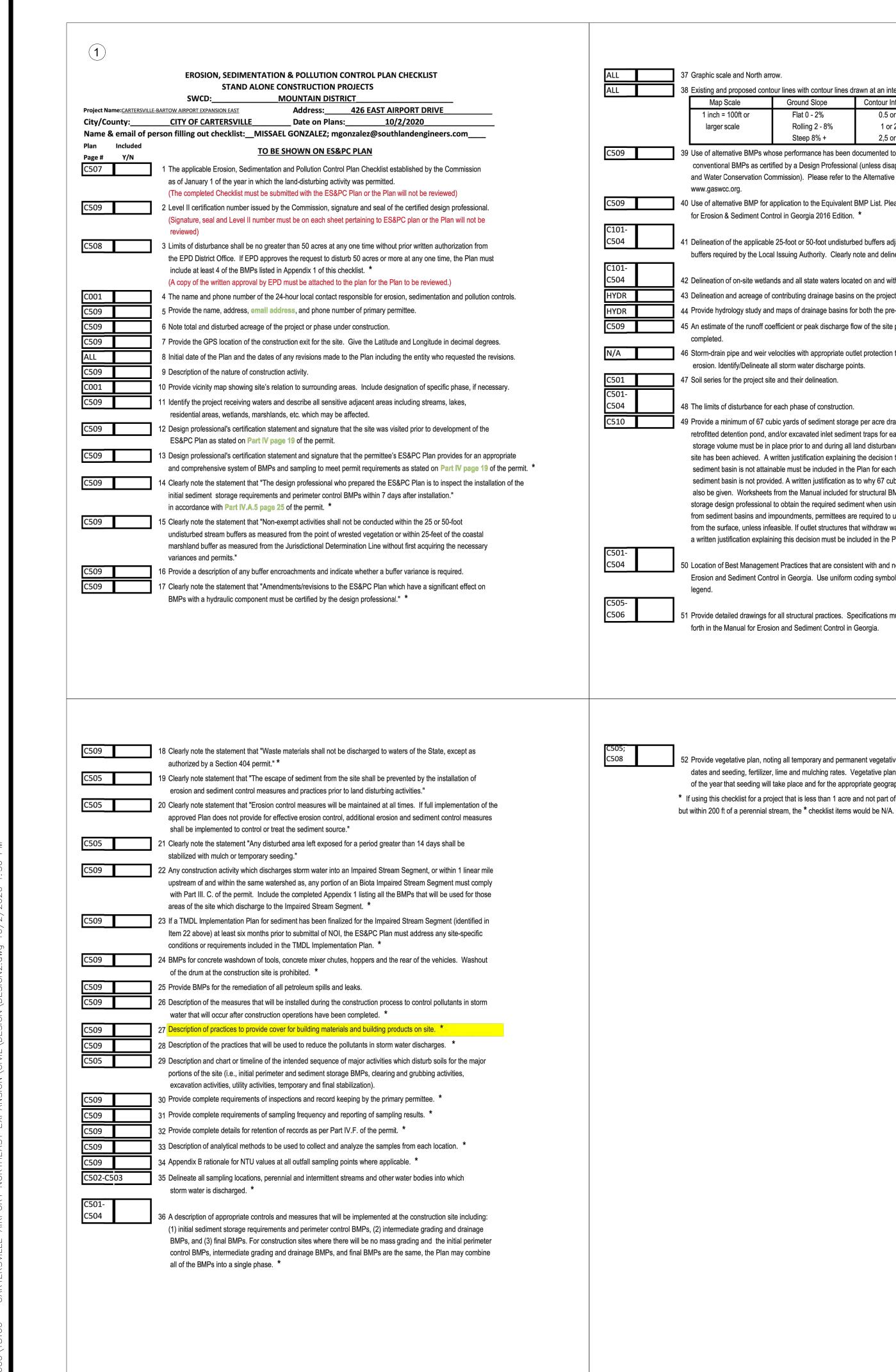
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GSWCC LEVEL II CERTIFICATION NUMBER GEORGIA REGISTRATION NO. __GA #3422 2



37 Graphic scale and North arrow.

38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:						
	Map Scale	Ground Slope	Contour Intervals, ft.			
	1 inch = 100ft or	Flat 0 - 2%	0.5 or 1			
	larger scale	Rolling 2 - 8%	1 or 2			
		Steep 8% +	2,5 or 10			

C509 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at

C509 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *

> 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.

43 Delineation and acreage of contributing drainage basins on the project site. 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *

45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

47 Soil series for the project site and their delineation.

48 The limits of disturbance for each phase of construction.

49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

1 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia. * If using this checklist for a project that is less than 1 acre and not part of a common development

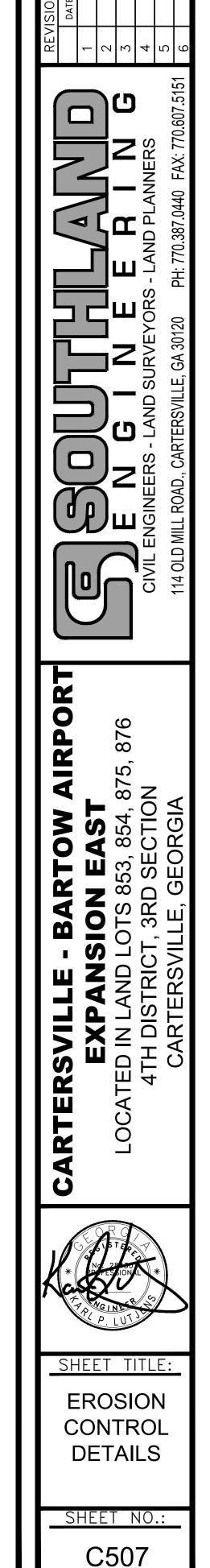
Effective January 1, 2020

SEDIMENT POND CALCULATION

STORAGE CALCULATIONS
1. REQUIRED STORMWATER STORAGE = 14592 CY
(AS DETERMINED BY LOCAL ORDINANCE)
2. REQUIRED SEDIMENT STORAGE = 1008 CY
(67 CY/AC * <u>15.04</u> AC DISTURBED AREA)
3. TOTAL REQUIRED STORAGE = _14592_ + _1008_ = _15600_ CY
4. AVAILABLE STORAGE = <u>15681</u> CY
5. IS THE AVAILABLE STORAGE (4) GREATER THAN THE TOTAL REQUIRED STORAGE (3)?
<u>X</u> YES NO
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 = <u>690.20</u> FT
(ELEVATION CORRESPONDING TO 22 CY/AC * <u>15.04</u> AC DISTURBED AREA)
8. IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?
XYESNO
9. IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE
USED:
BAFFLES (TYPE OF BAFFLE:)
OTHER
NOTE THE CMP DIAMETER AND HEIGHT IF A HALF-ROUND CMP RETROFIT IS TO BE USED.

DIAMETER = ____ INCHES HEIGHT = ____ FEET

SED.



PROJECT NO.: 18166

DATE: 10/2/2020



GSWCC LEVEL II CERTIFICATION NUMBER GEORGIA REGISTRATION NO. GA #3422

DEFINITION

APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

CONDITIONS

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

TECHNIQUES SHALL BE EMPLOYED.

SPECIFICATIONS

MULCHING WITHOUT SEEDING THIS STANDARD APPLIED TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.

2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS. 3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIAL

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLYING AT THE DEPTH INDICATED:

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.

2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.

3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OF STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND REUSED.

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 2. 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.

3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS

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 "PACKER DISK." 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 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 SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. TACKIFERS AND BINDERS CAN BE USED. PLEASE REFER TO SPECIFICATION TB-TACKIFERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

2. 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. 3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY

Ds1

DISTURBED AREA STABILIZATION WITH MULCHING

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREA.

CONDITIONS

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED.

SEEDING RATES FOR TEMPORARY SEEDING

	BROADCAST RATES				
SPECIES	RATE PER ACRE ² PURE LIVE SEED (PLS) PER 1000 S.F.		PLANTING DATES BY RESOURCE AREA	REMARKS	
BARLEY	3 BU (144 LBS)	3.3 LBS	8/15 - 11/15	14,000 SEED PER POUND. WINDTER HARDY. USE ON PRODUCTIVE SOILS	
LESPEDEZA ANNUAL	40 LBS	0.9 LBS	2/1 - 5/1	200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULANT EL.	
LOVEGRASS WEEPING	4 LBS	0.1 LBS	5/15 - 6/15	1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERIEA LESPEDEZA.	
MILLET, BROWNTOP	40 LBS	0.9 LBS	4/1 - 7/1	137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE EXCESSIVE COMPETION IN MIXTURES IF SEEDED AT HIGH RATE.	
MILLET, PEARL	50 LBS	1.1 LBS	6/1 - 8/1	88,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5FT IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.	
OATS	4 BU (128 LBS)	2.9 LBS	9/1 - 12/1	13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS A WINTER HARDY AS RYE OR BARLY.	
RYE	3 BU (168 LBS)	3.9 LBS	7/15 - 12/1	18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTER HARDY.	
RYEGRASS, ANNUAL	40 LBS	0.9 LBS	8/1 - 5/1	227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.	
SUDANGRASS	60 LBS	1.4 LBS	4/1 - 9/1	55,000 SEED PER POUND. GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.	
WHEAT	3 BU (180 LBS)	4.1 LBS	9/15 - 1/1	15,000 SEED PER POUND. WINTER HARDY.	

*UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES **SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE

VARIATIONS AND CONDITIONS

SPECIFICATIONS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OF THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ.FT.) SHALL BE APPLIED.

FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, IN ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1 - DISTURBED AREA STABILIZATION (WITHOUT MULCHING ONLY).

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

DISTURBED AREA Ds2 STABILIZATION WITH **TEMPORARY SEEDING**

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION. CONDITIONS

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS

SPECIFICATION

GRADING AND SHAPING

BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMEN WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT

VEGETATION.

OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS: BROADCAST PLANTINGS

1.TILLAGE AT A MINIMUM. SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES: ALLEVIATE COMPACTION INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS AND ALLOW FOR THE ANCHORING OF STRAW 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 4.ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AN GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

PLANTING. 2.FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING 3.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.

HYDRAULIC SEEDING

PLANTING

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE. CONVENTIONAL SEEDIN

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING. USE A CULTIPACKER SEEDER DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE 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. NO-TILL SEEDIN

NO-TILL SEEDING IS A PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROPS OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND FERTILIZER RATES FOR PLANTED AT THE PROPER DEPTH

SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES

APPLY MULCH

INDIVIDUAL PLANT

MULCHING MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE 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 TONS PER 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 PER ACRE. DRYSTRAW 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 ON SLOES OF 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 SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FO SEEDED AREAS

6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED 7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES. IN DITCHES OR DRY WATERWAYS TO PREVENT TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE VEGETATIVE COVER. SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM SEEDING). APPLICATION DURING SEEDING.

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 COVEI 75% OF THE SOIL SURFACE

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT. ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS: 1. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD, A SPECIAL "PACKER DISK" DISK HARROW WITH THE DISKS SET STRAIGHT MAYBE USED. THE DISKS MAYBE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OF 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 CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. 2. SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS PREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TB- TACKIFIERS AND BINDERS

3. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RAT OF ONE-QUARTER TO ONE HALF BUSHEL PER ACRE 4. 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 SPECIFICATIONS. IRRIGATION

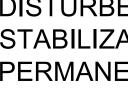
IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF

SEEDING RATE FOR PERMANENT SEEDING

	BROADCAST RATES			
	BROADC			L
SPECIES	RATE PER ACRE^2	PURE LIVE SEED (PLS) PER 1000 S.F.	PLANTING DATES BY RESOURCE AREA	
BAHIA, WILMINGTON	60 LBS	1.4 LBS	1/1 - 12/31	:
BERMUDA	40 CU. FT. OR SOD PLUGS 3FT X 3FT	0.9 CU. FT. OR SOD PLUGS 3FT X 3FT	5/15 - 7/15	1
CENTIPEDE	BLOCK	SOD ONLY	11/1 - 5/31	
FESCUE, TALL	50 LBS	1.1 LBS	3/1 - 4/31 & 8/1 - 10/30	2 F F
LESPEDEZA SERICEA	75 LBS	1.7 LBS	1/1 - 12-31	
LOVEGRASS, WEEPING	4 LBS	0.1 LBS	4/15 - 6/15	:

*Unusual site conditions may require heavier seeding rates





GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZER EQUIPMENT IS TO BE USED. VERTICAL

EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF TH

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND

1.WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE

AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

166,000 SEED PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUD PASTURES AND LAWNS. MIX WITH SERCEA LESPEDEZA OR WEEPING A CUBIC FOOT CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 CUBIC FEET OR APPROXIMATELY 800 SPRIGS. DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACEN TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINDTERHARDY AS FAR AS NORTH ATHENS AND ATLANTA. 27,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. MIX WITH PERENNIAL LESPEDEZA OR CROWNVETCH. APPLY TOPDRESSING IN SPRING FOLOOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC 350,000 SEED PER POUND. WIDELY ADAPTED. LOW MAINTENCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROADBANKS. INOCULATE SEED WITH EL INOCULANT. 1,500,000 SEED PER POUND, QUICK COVER, DROUGHT TOLERANT, GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.

**Seeding dates may need to be altered to fit temperature variations and conditions

DISTURBED AREA PERMANENT SEEDING

APPROPRIATE SOD VARIETIES FOR ATLANTA

APPROPRIA	APPROPRIATE SOD VARIETIES FOR ATLANTA			
GRASS	VARIETY	GROWING SEASON		
BERMUDA	COMMON TIFWAY TIFGREEEN, TIFLAWN	WARM WEATHER		
BAHIA	PENSACOLA	WARM WEATHER		
CENTIPEDE		WARM WEATHER		
ZOYSIA	EMERALD MEYER	WARM WEATHER		
TALL FESCUE	KENTUCKY	COOL WEATHER		

SOIL PREPARATION

BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS. MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR GENERAL APPLICATION OF 10-10-10 @ 1000 LBS PER ACRE (1 LB /40 SQ. FT.) AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS / ACRE.

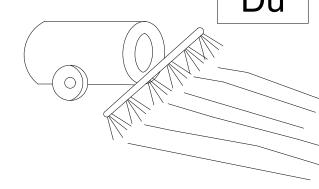
Ds4

STABILIZATION WITH SODDING

GRASS TYPE	PLANTING YEAR	FERTILIZER (NPK)	RATE (LBS/ ACRE)	NITROGEN TOP DRESSING (LBS/ ACRE)
COOL SEASON GRASSES	1ST 2ND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 30
WARM SEASON GRASSES	1ST 2ND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

PERMANENT VEGETATION (Ds-3)

DUST CONTROL



TEMPORARY METHODS

MULCHES. SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD

SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS.

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS.

IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS. SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT. PERMANENT METHODS

PERMANENT VEGETATION. SEE STANDARD DS3 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD TP - TOPSOILING.

STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

VEGETATION NOTES

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED. IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. REFER TO SPECIFICATION DS1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER (TEMPORARY VEGETATION, DS-2) AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16) LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL

LIME AND FERTILIZER RATES AND ANALYSIS (PERMANENT VEGETATION, DS-3)

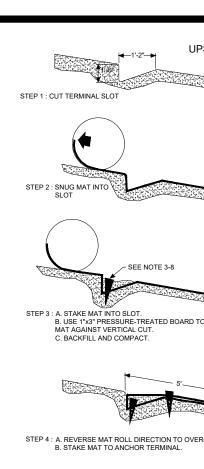
PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE. INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES ARE LISTED IN TABLE 6-5.1.

MULCHING MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE 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 TONS PER 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 PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.

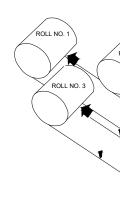
3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER. 4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE. 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT 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.

7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.



SEQUENTIAL ROLL RUN OUT IN CHANNELS



INSTALLATION NOTES

SITE PREPARATION

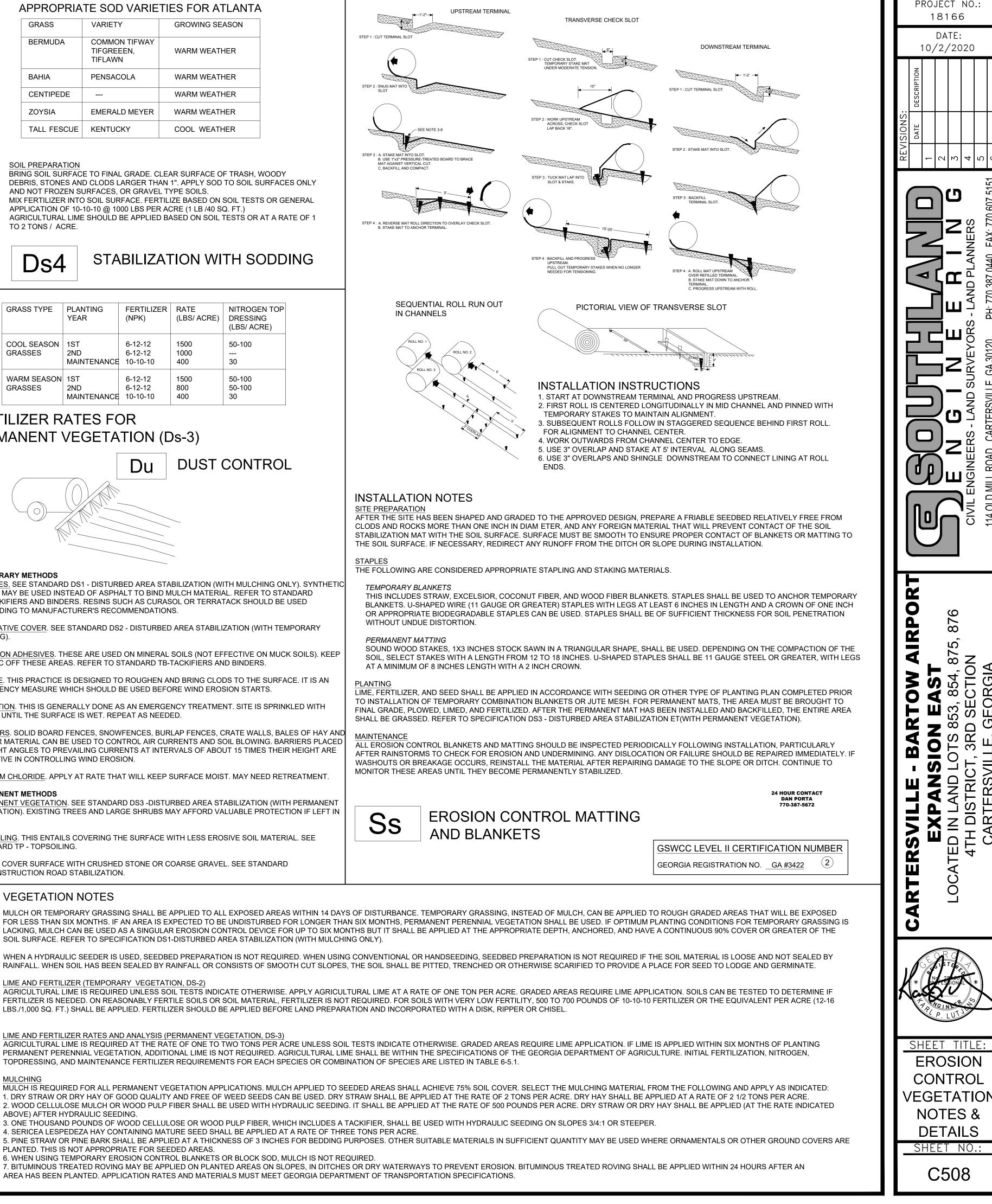
TEMPORARY BLANKETS WITHOUT UNDUE DISTORTION.

PERMANENT MATTING

PLANTING

MAINTENANCE





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	PROJECT NAME AND LOCATION CARTERSVILLE-BARTOW AIRPORTOWNER CARTERSVILLE BARTOW AIRPORT AUTHORITY P.O. BOX 323.426 EAST AIRPORT DRIVE CARTERSVILLE, GA 30120OWNER CARTERSVILLE, GA PHONE: 770.382.1822	SANITARY WASTE 25 A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL STATE REGULATIONS. ALL
	STATE WATER /WETLAND (42) THERE ARE STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE. THE ETOWAH RIVER RUNS ALONG THE NORTH EASTERN PROPERTY LINE. THERE WILL BE NO LAND DISTURBANCE IN THE 50' BUFFER AREA. THERE ARE NO TROUT STREAMS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE.	SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE.
	RECEIVING WATER (1) (2) (2) (4) THE PROJECTS'S INITIAL RECEIVING WATER IS THE ETOWAH RIVER A WARM WATER STREAM. IT IS NOT AN IMPAIRED STREAM SEGMENT. THERE WILL BE NO LAND DISTURBANCE IN THE 50' BUFFER AREA. NO OTHER ADJACENT AREAS WILL BE	SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY SEWER SYSTEM AT THE COMPLETION OF THIS PROJECT. INVENTORY FOR POLLUTION PREVENTION PLAN (25)
	AFFECTED. <u>SITE LOCATION</u> $\overline{7}$ THE SITE IS LOCATED WITHIN LAND LOT 853, 854, 875, AND 876 OF THE 4TH DISTRICT, 3RD SECTION, CARTERSVILLE, GA.	THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:
	CONSTRUCTION EXIT GPS LOCATION: LAT: 34.129091 LONG: -84.84808 <u>OFFSITE VEHICLE TRACKING</u> A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED. IF DURING CONSTRUCTION THE GENERATION OF DUST BECOMES AN ISSUE THE CONTRACTOR IS TO PROVIDE "DU" DUST CONTROL.	Concrete Fertilizers Wood Asphalt Petroleum Based Products Masonry Blocks Tar Cleaning Solvents Roofing Material Detergents Paints Metal Studs
	STATE STREAM BUFFERS (15)(16) 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 WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.	SPILL PREVENTION MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL
	PETROLEUM SPECIFIC PRACTICES CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR	BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSU OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. GOOD HOUSEKEEPING
	LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DISCHARGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.	THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. * AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
	FERTILIZERS/HERBICIDES THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FRO EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.	 * ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER ROOF OR OTHER ENCLOSURE. * PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE
	PAINTS/FINISHES/SOLVENTS ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.	ORIGINAL MANUFACTURER'S LABEL. * SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS
	CONCRETE TRUCKS (24) NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. CONCRETE TRUCK CHUTE AND TOOLS MAY BE WASHED OUT IN THE DESIGNATED WASHOUT AREA ONLY.	ONSITE RECEIVE PROPER USE AND DISPOSAL.
	BUILDING MATERIALS NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.	THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. * PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
	AMENDMENTS TO PLAN (17) AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.	* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
	THE PRIMARY PERMITTEE SHALL HAVE PLANS AMENDED BY THE DESIGN PROFESSIONAL WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT, I.E., THOSE BMPS WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY OF STORMS OR ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF GEORGIA AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN.	* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE: <u>PETROLEUM SPECIFIC PRACTICES</u>
	AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL. SECONDARY PERMITTEES MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24 HOURS OF BECOMING AWARE OF ANY SUSPECTED BMP DESIGNED DEFICIENCIES WHICH ARE NOT EFFECTIVE IN CONTROLLING THE DISCHARGE OF POLLUTANTS FROM THE SITE.	CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DISCHARGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE
	PRE/POST DEVELOPED SITE CHARACTERISTICS/NARRATIVE: (9) THE EXISTING SITE CONSISTS OF SLIGHT TO STEEP SLOPES ACROSS THE ENTIRE PROPERTY. THE PROPERTY CONSISTS OF THREE EXISTING HANGERS, PARKING LOT, AND AN ACCESS ROAD. NEIGHBORING AREAS INCLUDE INDUSTRIAL AND AGRICULTURAL ZONED PROPERTIES. THE PROPOSED DEVELOPMENT IS A GRADING AND EROSION CONTROL PLAN FOR FUTURE HANGER DEVELOPMENTS. THE PROJECTS PROPERTY LINE BOUNDS 30.50 ACRES. THE PROPERTY IS ZONED H-1. THE SITE IS LOCATED IN LAND LOTS 853, 854, 875, AND 876 OF THE 4TH DISTRICT, 3RD SECTION, CARTERSVILLE, GEORGIA. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES, AS NEEDED, TO PREVENT TRANSPORTATION OF SEDIMENT FROM THE SITE. THE SITE CONTAINS SEVERAL SOIL TYPES (SEE SOIL MAP, C501 FOR SOIL DELINEATION).	OF OILS, FUELS AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS. SPILL CLEANUP AND CONTROL PRACTICES LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1–800–426–2675. FOR SPILLS OF AN UNKNOWN AMOUNT. THE NATIONAL CENTER WILL BE CONTACTED WITHIN 24 HOURS AT 1800–425–2675. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER WIDDED TO DESCOVERY.
	ESTIMATED RUNOFF COEFFICIENT 45	IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAT 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR
	PRE-DEVELOPED 68 POST-DEVELOPED 75	WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A
	NOTE: SEE HYDROLOGY REPORT FOR DETAILED CALCULATIONS AND MAPS.	HAZARDOUS SUBSTANCE. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP
	WASTE DISPOSAL (18) WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.	TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.
	ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED OF IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS, TO A STATE APPROVED LANDFILL. NOT WASTE SHALL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. LIMITS OF DISTURBANCE: (3)	HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM
	THE PROPOSED SITE CONSTRUCTION WILL NOT DISTURB MORE THAN 50 ACRES AT ONE TIME. <u>ALTERNATIVE BMP:</u> (39) (40) NO ALTERNATIVE BMP'S HAVE BEEN SPECIFIED.	THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP PLAN AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL
	POTENTIAL POLLUTION: 28 THE MOVEMENT OF SOIL AND THE USE OF BUILDING MATERIALS, SUCH AS CONCRETE, PAINT, FORM OILS, FERTILIZER, ETC., WILL BE IMPLEMENTED DURING THE COURSE OF THE PROJECT. STRUCTURAL AND VEGETATIVE MEASURES WILL BE USED TO CONTROL THE ESCAPE OF SEDIMENT AND POLLUTION FROM THE SITE. SEE SHEET C501 AND C504 FOR SEDIMENT AND POLLUTION CONTROL MEASURES. IN ADDITION, LOCAL WASTE COLLECTION AREAS SHALL BE LOCATED AWAY FROM STREET, GUTTERS, WATER	BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIAL. NO SPILLED MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER
10100	COARSE AND STORM DRAINS. THE USE OF CONTAINMENT DUMPSTERS AND PORTABLE SANITATION WASTE DEVICE SHALL BE ONSITE. STORM WATER MANAGEMENT AFTER CONSTRUCTION IS COMPLETE 26 THE SITE HAS BEEN DESIGNED TO ACCOMMODATE POLLUTANTS IN STORMWATER AFTER CONSTRUCTION IS 26	DISCHARGE WILL BE CONTAINED ON SITE AND UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.
	COMPLETE, BY PROVIDING A STORMWATER SYSTEM THAT ROUTES ALL STORMWATER INTO TWO STORMWATER PONDS. THE STORMWATER PONDS CONTAIN 100% OF THE WATER QUALITY VOLUME ASSOCIATED WITH THIS DEVELOPMENT. THE STORMWATER POND HAS A T.S.S (TOTAL SUSPENDED SOLIDS) REMOVAL OF 80%, WHICH MEETS THE MINIMUM STANDARDS.	BUILDING COVER: 27 ANY ERODED MATERIAL OR PRODUCT WILL BE PROPERLY PROTECTED WITH A COVER OR TAR KEEPING THE INTERIOR BUILDING IN ACCEPTABLE CONDITIONS ON SITE.
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NSPECTIONS: 30 a.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 AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 2. MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- 3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOW AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 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 ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL | e. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- 4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLILITANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S) EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- 5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- 6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND.OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

MAINTENANCE.

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

SAMPLING REQUIREMENTS (33)

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

a.SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- 1. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DOWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
- 2. A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
- 3. WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM 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. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE
- 1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- 2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- 3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- 4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION. UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY
- CALIBRATED TUBIDIMETER. 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.

SAMPLING POINTS

- 1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER
- 1. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I,E., THE DISCHARGE FARTHEST UPSTREAM 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.

OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- 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.
- UPSTREAM. f. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- g.PERMITTEES DO NOT HAVE THE 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 AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).
- 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 CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4.., WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY (31)

- 1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- 2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- 3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
- a.FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
- b. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR RFOM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF CERTIFIED MAIL OR SIMILAR SE A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED. INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT REA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- d.WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
- e.EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE 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 COLLECTION TURBIDITY
 - SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR

NON-STORM WATER DISCHARGES.

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

REPORTING

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2 SAMPLING REPORTS MUST BE SUBMITTED T EPD USING ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

- 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION: a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS:
- b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

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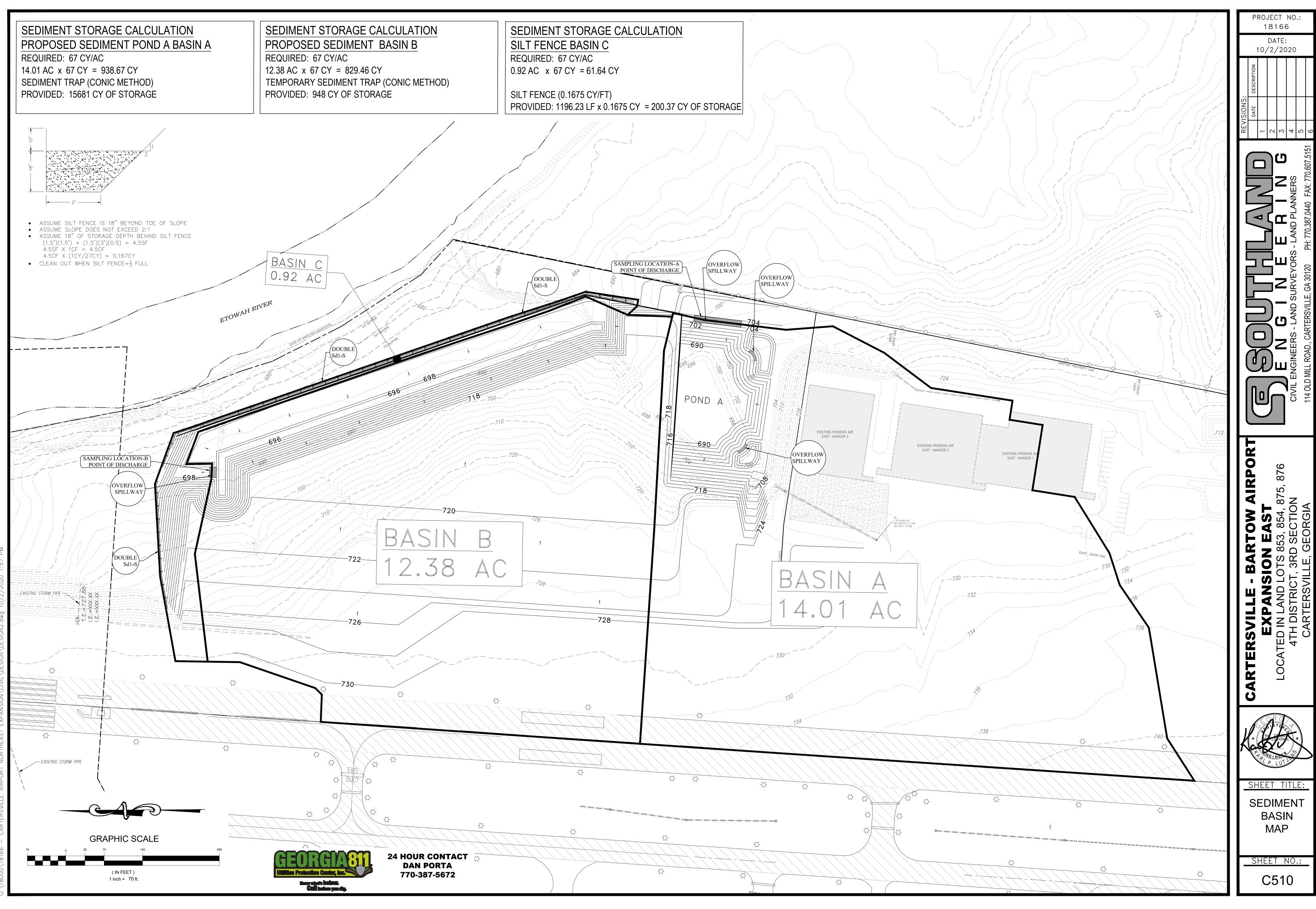
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- d.A COPY OF ALL SAMP REQUIRED BY THIS PE
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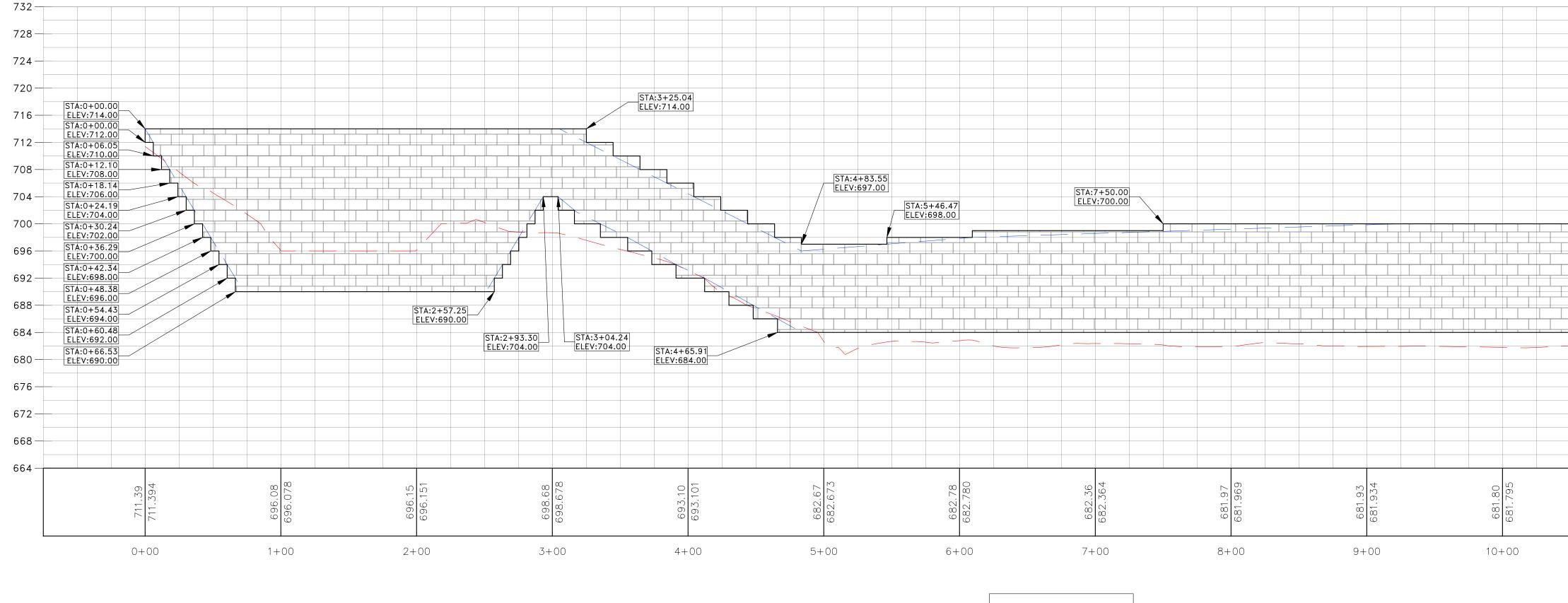
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ICES OF INTENT SUBMITTED TO EPD; SION, SEDIMENTATION AND POLLUTION CONTROL THIS PERMIT;	Example 2: For a site size of 51.7 acres and a warm water drainage area of 72 square miles, the NTU value to us III.C.4 is 100 NTU.	BAR DIS DIS Normalization of the second seco
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