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ISSUE DATE: 4/19/21	SOLICITATION NO.: 001	CONTRACT NO.: 001	CATEGORY CODE:		-COVER.DWG
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SHEET INDEX					
SHEET TITLE	SHEET ID				
COVER SHEET	G001				
GENERAL NOTES, LEGEND AND ABBREVIATIONS	G002				
EXISTING CONDITIONS	V101				
ESPC NOTES	EC001				
ESPC NOTES	EC002				
ESPC NOTES	EC003				
ESPC NOTES	EC004				
ESPC & ACCESS PLAN	EC101				
ESPC DETAILS	EC501				
ESPC DETAILS	EC502				
PLAN & PROFILE	C101				
PLAN & PROFILE	C102				
DETAILS	C501				

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

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	GENERAL NOTES	ENVIRONMENTAL NOTES
G F	 NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. ALL WORK SHALL CONFORM WITH THESE DRAWINGS, THE PROJECT SPECIFICATIONS, AND ALL CURRENT APPLICABLE CODES WITH THEIR LATEST REVISIONS OF THE FOLLOWING REFERENCE DOCUMENTS: GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) ROAD AND BRIDGE SPECIFICATIONS MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (GREEN BOOK) GEORGIA STORMWATER MANAGEMENT MANUAL VOLUMES 1, 2, & THE COASTAL STORMWATER SUPPLEMENT AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION'S 2020 MANUAL FOR RAILWAY ENGINEERING CSX STANDARD SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PRIVATE SIDETRACKS (2016) THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ONSITE DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES FOUND SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL INFORMATION SHOWN ON THESE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER ANY CONDITIONS CONFLICTING WITH THE DRAWINGS. FIELD MODIFICATIONS TO THE DRAWINGS SHALL NOT BE MADE WITHOUT THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE DEBRIS FROM THE SITE. DISPOSAL OF ALL MATERIALS IS THE CONTRACTOR'S RESPONSIBILITY, EXCEPT AS OTHERWISE NOTED. THE CONTRACTOR SHALL ADIL PAPLICABLE LOCAL AND STATE ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS. THE CONTRACTOR SHALL ADALEY BASIS, REMOVE DEBRIS FROM THE SITE. DISPOSAL OF ALL MATERIALS IS THE CONTRACTOR'S RESPONSIBILITY, EXCEPT AS OTHERWISE NOTED. THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE DEBRIS FROM THE SITE. DISPOSAL OF ALL MATERIALS IS THE CONTRACTOR'S RESPONSIBILITY, EXCEPT AS OTHERWISE NOT	 37. THERE ARE NO WETLANDS WITHIN THE PROJECT LIMITS. 38. CONSTRUCTION ENTRANCE LOCATION: a. LAT: 31.163066/LON: 82.163405 b. N: 463753.0314/E: 621973.3506. 39. PROJECT AREA IS 1.89 ACRES, LAND DISTURBED AREA IS 1.51 ACRES. THE PROJECT REQUIRES THE FOLLOWING PERMIT: c. GAR 100002 - INFRASTRUCTURE CONSTRUCTION PROJECT OVER ONE ACRE OF DISTURBANCE. 40. FOR SOIL EROSION & SEDIMENTATION CONTROL NOTES, SEE SHEETS EC101-EC104 41. FOR SOIL EROSION & SEDIMENTATION CONTROL DETAILS, SEE SHEETS EC101 42. FOR SOIL EROSION & SEDIMENTATION CONTROL DETAILS, SEE SHEETS EX501-EC502 43. PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING ANY AND ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST OR CROSS THROUGH THE AREA OF CONSTRUCTION WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS. BEFORE DIGGING, TO AVOID THE UTILITES, THE CONTRACTOR SHALL CALL THE "UTILITIES PROTECTION CENTER" AT 1-800-282-7411. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS SOLE EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. 44. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, NONEXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT OR DEPTH OF ANY OR ALL UNDERGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FRATURES (MANHOLES, CATCH BASINS, ALVES, ETC.) ARE UNAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNER'S RECORDS AND/OR ELECTRONIC UNE THACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM WHATEVER TEST EXCEORDING OR THER RELINVESTIGATION AS NECESSARY TO VERIFY LOCATIONS AND CLEARANCES. 45. UNLESS OTHERWISE NOTED, UTILITIES ARE TO BE ADJUSTED BY THE RESPECTIVE OWNER.
E	 ONSITE CONSTRUCTION ACTIVITY. DO NOT BLOCK ACCESS TO THE ADJACENT PROPERTIES DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER. 10. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE PLANS WITH THE EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING DEMOLITION, FABRICATION, AND CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS. 11. THE CONTRACTOR SHALL KEEP AND MAINTAIN A SET OF PROJECT PLANS AND SPECIFICATIONS ON THE SITE AT ALL TIMES. 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, DRIVEWAYS, WALKS, CURBS, PAVEMENT MARKINGS, ETC. THAT MUST BE CUT OR REMOVED, OR THAT ARE DAMAGED DURING CONSTRUCTION. 13. CONTRACTOR SHALL STOP WORK AND NOTIFY ENGINEER IF ANYTHING OF HISTORIC OR ARCHEOLOGICAL SIGNIFICANCE IS ENCOUNTERED. 14. FOR SITE PLANS, SEE SHEETS C101, C102 	46. GEORGIA STATE LAW MANDATES THE NOTIFICATION OF UTILITY OWNERS 48 HOURS IN ADVANCE OF EXCAVATION. FOR LOCATION OF UTILITIES CALL THE "UTILITY PROTECTION CENTER" AT 811 48 HOURS PRIOR TO LAND DISTURBANCE ACTIVITY. LEGEND OBJECT EXISTING PROPOSED PROJECT LIMITS PROPOSED PROPOSED PROPOSED
	 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER. THE CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO OWNER, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A MEETING WITH OWNER TO DISCUSS COORDINATION OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE SUBJECT TO AND COMPLY WITH COORDINATION REQUIREMENTS OF OWNER. COORDINATE CONNECTION TO CSX MAINLINE WORK WITH OWNER. 	PROPERTY LINE
C	 CONSTRUCTION 19. SUBMITTALS ON MATERIALS FOR THIS PROJECT SHALL BE PROVIDED TO THE OWNER FOR APPROVAL PRIOR TO ORDERING AND BEGINNING CONSTRUCTION. 20. ALL CONSTRUCTION ACTIVITIES SHALL ONLY TAKE PLACE WITHIN CLEARING LIMITS, UNLESS OTHERWISE NOTED. 21. ALL CLEARING, GRUBBING, AND GRADING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS. 22. EXISTING VEGETATION SURROUNDING THE CONSTRUCTION AREA SHALL REMAIN IN A NATURAL STATE. DAMAGES BY CONTRACTOR OUTSIDE THE PROJECT LIMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR. 23. THE CONTRACTOR SHALL STRIP TOPSOIL AND ANY ORGANIC LADEN SOIL AND STORE FOR USE IN BACKFILLING AND LANDSCAPING FOR SITE RESTORATION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY EXCESS SOIL AFTER RESTORATION OF THE SITE. 24. WHEN MATERIALS WHICH ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR PURPOSE OCCUR WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE SUCH MATERIAL BELOW THE GRADE SHOWN ON THE PLANS. THE AREAS TO BE EXCAVATED SHALL BE REQUIRED TO EXCAVATE SUCH MATERIAL BELOW THE GRADE SHOWN ON THE PLANS. THE AREAS TO BE EXCAVATED SHALL BE REQUIRED TO EXCAVATE SUCH MATERIAL BELOW THE GRADE SHOWN ON THE PLANS. THE AREAS TO BE EXCAVATED SHALL BE BACKFILLED WITH APPROVED SUITABLE OR SELECT FILL MATERIAL. 25. ANY NECESSARY FILL SHALL BE PLACED IN 6" LIFTS. ALL FILL SHALL BE COMPACTED TO 95% MODIFIED STANDARD PROCTOR. SUBGRADE SHALL BE PROOF-ROLLED PER THE DIRECTION OF THE OWNER. AREAS WHICH RUT EXCESSIVELY SHALL BE UNDERCUT AND REPLACED WITH CONTROLLED FILL. 26. FINISHED SLOPES SHALL BE GRADED TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL WORK AND TO EXISTING DITCHES. 	DITCH CSX TRACK C/L
B	 27. CONTRACTOR SHALL REMAIN WITHIN PROJECT LIMITS DURING ALL CONSTRUCTION ACTIVITIES. SURVEY NOTES 28. ALL ELEVATIONS SHOWN ON THE DRAWINGS ARE REFERENCED TO NAVD 88. 29. VERTICAL DATUM - ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON NAVD 88 DATUM. 30. HORIZONTAL DATUM - GEORGIA STATE PLANE COORDINATE SYSTEM, NAD 83. 31. THESE DRAWINGS ARE BASED ON: PIERCE COPUNTY LIDAR PROVIDED BY THE OWNER. 32. HORIZONTAL & VERTICAL CONTROL POINTS WILL BE PROVIDED BY THE CONTRACTOR. 33. FOR EXISTING CONDITIONS PLAN, SEE SHEETS V101 DEMOLITION NOTES 34. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE. 35. ALL MATERIALS REMOVED UNDER DEMOLITION, NOT TO BE RELOCATED OR TO BE TURNED OVER TO THE OWNER, SHALL BE REMOVED FROM THE SITE. GEOTECHNICAL NOTES	
А	36. A GEOTECHNICAL EXPLORATION HAS NOT BEEN PERFROMED ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRM THAT THE EXISTING SOILS ARE SUITABLE FOR THE PROPOSED CONSTRUCTION ACTIVITIES.	

P:\20-1019 PIERCE COUNTY RAIL\600 CADD\SHEETS\CONST\20-1019 G002-GENNOTESLEGABB.DWG <> PLOT DATE: 4/30/2021 8:36:42 AM BY: JASON BALL

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ABBREVIATIONS:
ABBREVIATIONS: APPROX = APPROXIMA AREMA = AMERICAN R MAINTENAL ASTM = AMERICAN SOM MATERIALS C/L = CENTERLINE CLR = CLEAR CMF = CONCRETE MON CMP = CORRUGATED N CONC = CONCRETE DB = DEED BOOK DEMO = DEMOLITION DIM = DIMENSION DWG = DRAWING E = EAST EA = EACH EDA = ECONOMIC DEV ADMINISTRATION ELEV = ELEVATION ELEV = ELEVATION EPD = ENVIRONMENTA ETC = ET CETERA EXIST = EXISTING FEMA = FEDERAL EMEL ADMINISTRATION FPS = FEET PER SECO FRA = FEDERAL EMEL ADMINISTRATION FPS = FEET PER SECO FRA = FEDERAL RAILRY FT = FEET GDOT = GEORGIA DEP TRANSPORTATION HWY = HIGHWAY IAW = IN ACCORDANCE IN = INCORPORATED INV = INVERT IRF = IRON ROD FOUNT IRS = INCORPORATED INV = INVERT IRF = IRON ROD FOUNT IRS = INCARPORATED INV = INVERT IRF = INON ROD FOUNT IRS = INCORPORATED INV = INVERT IRF = INON ROD FOUNT IRS = IRON ROD FOUNT IRS = IRON ROD FOUNT IRS = INCORPORATED INV = INVERT IRF = INON ROD FOUNT IRS = IRON ROD FOUNT IRS = IRON ROD FOUNT IRS = IRON ROD FOUNT IRS = INCORPORATED INV = INVERT IRF = INON ROD FOUNT IRS = INON ROD FOUNT IRS = INCORPORATED INV = INVERT IRF = INON ROD FOUNT INT = NOW OR FORMER NAD = NORTH AMERIC NAVD = NORTH AMERIC

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	EROSION AND SEDIMENT CONTROL NOTES	b. II
	DESIGN PROFESSIONAL'S CERTIFICATION	S
G	(1) I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING	C. T A E R A F
	METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002. (2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY	8. AFTER PROJE
	MYSELF OF MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.	
	SUPERVISION IN ACCORDANCE WITH SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."	DEVIC 9. AFTER CLEAR 10. THE SEDIM
F	GSWCC LEVEL II DESIGN PROFESSIONAL: JASON P. BALL, PE	BEGIN 11. NO E
ſ	GSWCC CERTIFICATION NO. 0000044937	12. ALL
	GENERAL EROSION CONTROL NOTES	TRAN:
	1. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.	164 0
	2. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY PAVEMENT AND GRASSING.	14. MUL
_	3. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:	15. ALL 16. SEDI
	a. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.	OR RE
	c. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.	GRADING
	d. PROVIDING GRAVEL OR PAVING AT ENTRANCE / EXIT DRIVES.	1. DURIN
	4. THIS PROJECT CONSISTS OF GRASSED AREAS WITHIN THE LIMITS OF DISURBANCE SURROUNDING THE RAILROAD TRACKS.	STRIP
Е	a. THE TOTAL AREA IN PROJECT LIMITS: 1.89 ACRES	2. SEDIN
	5. THE DISTURBED AREA IN PROJECT LIMITS: 1.51 ACRES	STABI
	100002. THE PROJECT WILL IMPLEMENT TEMPORARY BMPS UNTIL THE SITE IS STABILIZED TO PREVENT SEDIMENTATION FROM	3. EROSI THE E
	6. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC	
	RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED,	DIFFIC
_	7. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING	IMME 4 THE C
		5. THE C
	8. 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	BARRI STABI
	CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.	REPLA
	ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.	6. CUT A
D	10. 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	CONS
	11. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL	a. T
	PERMANENT GROUND COVER IS ESTABLISHED.	b. N
	12. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.	c. A
	13. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT	d. IN
	CONTROL OR TREAT THE SEDIMENT SOURCE.	C FINAL PH
	SEEDING.	1. THE F
	15. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.	CONS ⁻ a. P
	16. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON FMPS WITH A HYDRAULIC COMPONENT	b. R
C	17. FOR SOIL EROSION & SEDIMENTATION CONTROL NOTES. SEE SHEETS EC001 TO EC004.	2. SEDIN
	18. FOR SOIL EROSION & SEDIMENTATION CONTROL PLAN, SEE SHEET EC101.	3. THE C
	19. FOR SOIL EROSION & SEDIMENTATION CONTROL DETAILS, SEE SHEETS EC501 & EC502.	PAVE
	INITIAL PHASE EROSION CONTROL NOTES	4. ALL RO BEYON
_	1. PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER.	5. SEDIN
	2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND REPEOPMANICE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL OLIVANT	REPLA INSTA
	3. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.	6. UPON
	4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL	ILIVIE
	MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.	
В	DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL	
	6. PRIOR TO ANY OTHER CONSTRUCTION. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY	
	TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.	
	7. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY [ADJUST AS REQUIRED].	
_	a. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FT BY 50 FT 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. (ROCK INSTALLATION TO COINCIDE WITH DEMOLITION)	
Α		

. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL EROSION CONTROL PLAN.

c. TYPE "NS" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2 AND THE DETAILS PROVIDED IN THE EORSION ABD SEDIMENTATION CONTROL PLANS. 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.

TER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE OJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL PROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT ARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL VICES DEEMED NECESSARY BY THE SITE INSPECTION.

TER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CONSTRUCTION, EARING AND GRUBBING ACTIVITIES.

HE DESIGN PROFESSIONAL WHO PREPARED THE EROSION CONTROL PLANS WILL INSPECT THE INSTALLATION OF THE INITIAL DIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN SEVEN DAYS AFTER INITIAL CONSTRUCTION ACTIVITY GINS.

IO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.

LL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF ANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 4 OF THE GDOT STANDARD SPECIFICATIONS, FOR ROADS AND BRIDGES.

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

LL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

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

ING/INTERMEDIATE PHASE EROSION CONTROL NOTES

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

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

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

IE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY IMPROVEMENTS ARE BEING MADE. IE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE RRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE ABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATE, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE PLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

JT AND FILL SLOPES ARE NOT TO EXCEED "2H:1V"

IE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF INSTRUCTION.

a. TYPE "NS" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

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

c. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING

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

PHASE EROSION CONTROL NOTES

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

a. PERMANENT GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF FINAL GRADING.

b. REMOVE SILT FENCE AFTER PERMENANT GRASSING IS ESTABLISHED AND ACCEPTED BY THE OWNER.

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

IE CONSTRUCTION EXIT SHALL BE REMOVED TO BEGIN WORK ON THE PAVEMENT SECTION. AFTER GRADED AGGREGATE BASE, AND VEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS SHALL BE REMOVED.

L ROADWAY SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER, OR GRAVEL COVER, AS SOON AS FINAL GRADE IS ACHIEVED YOND THE EDGE OF PAVEMENT.

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

ON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL MPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.



						DATE
						MARK DESCRIPTION
	4/ 19/2 1	SOLICITATION NO.: 001	CONTRACT NO.:	001	CATEGORY CODE:	0-ESPC NOTES.DWG
DRAWN BY:	BVA	4 DESIGNED BY:	CHECKED BY:	MTF	SUBMITTED BY: JPB	ANSI D 20-1019 EC00
	II K Ball Maritime (Troun, I)	4 Cedar View Court Savannah, Georgia 31410 (912) 662 www.hallmartime.com				
		ACCESS				
SHEET ID EC001						

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GSWC	Georgia Soil and Water Conservation Commission
Jason	P Ball
Level II Certified I	Design Professional
CERTIFICATION NUMBER	0000044937
ISSUED: 07/19/2020	EXPIRES: 07/19/2023

PRELIMINARY

	PERMIT COVERAGE
	ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL NPDES PERMIT NO. GAR 100002 FOR AUTHORIZATION TO DISCHARGE UNDER THE
G	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR AN INFRASTRUCTURE PROJECT.
	AUTHORIZED DISCHARGES
	1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO
	OR GREATER THAN ONE ACRE PART I.C.1.4.c 2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART I.C.2 AND
_	PART III.A.2 OF THE PERMIT. PART III.A.1
	a. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION
	ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.
	ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT.
F	c. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT
	AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT. 4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2
	a. FIRE FIGHTING ACTIVITIES
	b. FIRE HYDRANT FLUSHING
_	d. IRRIGATION DRAINAGE
	e. AIR CONDITIONING CONDENSATE
	f. SPRINGS 9 LINCONTAMINATED GROUND WATER
	h. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS
_	LIMITATIONS ON COVERAGE: PART I.C.3
	1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT: a. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER CONSTRUCTION
	ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.
	III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.T (NON-STORMWATER DISCHARGES) OF THIS PERMIT.
	c. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED
	THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATION FOR SUCH DISCHARGES.
	REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.
	2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A §§12-14-2, ET SEQ.) 40 CFR
	117 OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE-MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404)
D	656-4863 OR (800) 241-4113, OR THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802. PART III.B.1 3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ONSITE SPILL, PART
	III.B.2
	WATER QUALITY COMPLIANCE: PART I.C.4 ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS
	PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL. CHAPTER 391-3-6-03. NO SAMPLING IS REQUIRED AS PART OF THIS PROJECT.
_	
	DEVELOPER/OWNERDESIGN PROFESSIONAL24 HOUR CONTACTPIERCE COUNTY IDABALL MARITIME GROUPBALL MARITIME GROUP
	200 SW CENTRAL AVE.4 CEDAR VIEW CT.JASON P. BALL, PEBLACKSHEAR, GA 31516SAVANNAH, GA 31410PHONE: (912) 662-2914
с	
	CONSTRUCTION ACTIVITIES SCHEDULE:
	INFRASTRUCTURE
	ESTABLISH CONSTRUCTION EXIT - INSTALL
_	PERIMETER SILT FENCE PRELIMINARY GRADING/BEGIN GRUBBING PRELIMINARY GRADING/BEGIN GRUBBING
	MEASURES AS CLEARING PROGRESSES
	MAINTAIN CONSTRUCTION ENTRANCE/EXIT AS CLEARING AND GRADING WARRANTS
В	FINAL GRASSING Image: Comparison of the second se
	REMOVE TEMPORARY EROSION CONTROL
	MEASURES
A	

P:\20-1019 PIERCE COUNTY RAIL\600 CADD\SHEETS\CONST\20-1019 EC000-ESPC NOTES .DWG <> PLOT DATE: 4/30/2021 8:37:07 AM BY: JASON BALL

	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST	NA 35 Delineate all sampling locations
	STAND ALONE CONSTRUCTION PROJECTS	storm water is discharged. *
	SWCD: Region 3 - Satilla River	EC001 Y 36 A description of appropriate co
Project Name:	Pierce County Industrial Park Rail Acces: Address: 6200 Bowen Road, Blackshear, GA 31516	(1) initial sediment storage requ
Name & email of	person filling out checklist: JASON P. BALL, PE JASON@BALLMARITIME.COM	BMPs, and (3) final BMPs. Fo
Plan Includ	ed TO BE SHOWN ON ES& PC PLAN	control BMPs, intermediate gra
Page # Y/N		all of the BMPs into a single pr
EC002 Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission	EC101 Y 37 Graphic scale and North arrow
	(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)	EC101 Y 38 Existing and proposed contour
FC001 Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional.	1 inch = 100ft or
	(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)	larger scale
EC001 Y	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from	NA 39 Use of alternative BMPs whose
I	the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must	conventional BMPs as certified
	include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. *	and Water Conservation Com
	(A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)	www.gaswcc.georgia.gov.
EC002 Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.	NA 40 Use of alternative BMP for app
EC002 Y	5 Provide the name, address, email address, and phone number of primary permittee.	for Erosion & Sediment Contro
EC003 Y	6 Note total and disturbed acreages of the project or phase under construction.	NA 41 Delineation of the applicable 25
G001 Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.	
G001 Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.	V101 Y 42 Delineation of on-site wetlands
EC003 Y	9 Description of the nature of construction activity and existing site conditions.	43 Delineation and acreage of co
G001 Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.	44 Provide hydrology study and r
EC003 Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes,	EC003 Y 45 An estimate of the runoff coeffici
	residential areas, wetlands, marshlands, etc. which may be affected.	completed.
EC001 Y	12 Design professional's certification statement and signature that the site was visited prior to development of the	NA 46 Storm-drain pipe and weir velo
	ES&PC Plan as stated on Part IV page 19 of the permit.	erosion. Identity/Delineate all s
EC001 Y	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate	EC003 Y 47 Soil series for the project site a
	and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. *	EC101 Y 48 The limits of disturbance for each
EC004 Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the	EC003 Y 49 Provide a minimum of 67 cubic
	initial sediment storage requirements and perimeter control BMPs within 7 days after installation."	retrotted detention pond, and/
	In accordance with Part IV.A.5 page 25 of the permit.	site has been achieved. A wri
ECODI Y	Is clearly note the statement that 'Non-exempt activities shall not be conducted within the 25 or 50-100t	sediment basin is not attainable
	marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary	sediment basin is not provided
	variances and permits."	also be given. Worksheets fro
EC003 Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.	storage design protessional to from sediment basins and impo
EC001 Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on	from the surface, unless infeasi
	BMPs with a hydraulic component must be certified by the design professional." *	a written justification explaining
EC003 Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as	Y EC101 50 Location of Best Management R
	authorized by a Section 404 permit." *	Erosion and Sediment Control
EC001 Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of	legend.
	erosion and sediment control measures and practices prior to land disturbing activities."	EC501 Y 51 Provide detailed drawings for a
EC001 Y	20 Clearly note statement that "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	ECSUZ Y 52 Provide vegetative plan, noting dates and seeding, fertilizer, lin
	21 Clearly note the attactment "Any disturbed area left ay need for a paried greater than 14 days shall be	of the year that seeding will tak
	stabilized with mulch or temporary seeding "	* If using this checklist for a projec
	22 Any construction activity which discharges storm water into an Impaired Stream Segment or within 1 linear mile	but within 200 ft of a perennial strea
	upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply	
	with Part III. C. of the permit Include the completed Appendix 1 listing all the BMPs that will be used for those	
	areas of the site which discharge to the Impaired Stream Segment. *	
NA	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in	
	Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific	
	conditions or requirements included in the TMDL Implementation Plan.	
EC003 Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout	
	25. Provide RMPs for the remediation of all notroloum shills and looks	
	26 Description of the measures that will be installed during the construction preserve to control and wheth in struct	
ECOU3 Y	20 Description of the measures that will be installed during the construction process to control pollutants in storm	
	27 Description of practices to provide cover for building materials and building products on site.	
EC003 Y		
EC002 Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major	
	portions or the site (i.e., initial perimeter and sediment storage Bivie's, cleaning and grubbing activities, excavation activities, utility activities, temporary and final stabilization).	
	30 Provide complete requirements of Inspections and record keeping by the primary permittee *	
	31 Provide complete requirements of Sampling Eroquionou and Poporting of sampling require *	
EC004 Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit	
	3 Description of analytical methods to be used to collect and analyze the samples from each location. *	
NA	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *	



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s, perennial and intermittent streams and other water bodies into which

ontrols and measures that will be implemented at the construction site including: quirements and perimeter control BMPs, (2) intermediate grading and drainage or construction sites where there will be no mass grading and the initial perimeter rading and drainage BMPs, and final BMPs are the same, the Plan may combine ohase. *

Ir lines with contour lines drawn at an interval in accordance with the following:

Ground Slope	Contour Intervals, ft
Flat 0 - 2%	0.5 or 1
Rolling 2 - 8%	1 or 2
Steep 8% +	2,5 or 10

se performance has been documented to be equivalent to or superior to ed by a Design Professional (unless disapproved by GAEPD or the Georgia Soil mission). Please refer to the Alternative BMP Guidance Document found at

plication to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual ol in Georgia 2016 Edition. *

25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional Issuing Authority. Clearly note and delineate all areas of impact.

s and all state waters located on and within 200 feet of the project site.

ontributing drainage basins on the project site.

maps of drainage basins for both the pre- and post-developed conditions. * cient or peak discharge flow of the site prior to and after construction activities are

locities with appropriate outlet protection to accommodate discharges without storm water discharge points.

and their delineation.

ach phase of construction.

ic yards of sediment storage per acre drained using a temporary sediment basin, I/or excavated inlet sediment traps for each common drainage location. Sediment ace prior to and during all land disturbance activities until final stabilization of the ritten justification explaining the decision to use equivalent controls when a ole must be included in the Plan for each common drainage location in which a ed. A written justification as to why 67 cubic yards of storage is not attainable must from the Manual included for structural BMPs and all calculations used by the o obtain the required sediment when using equivalent controls. When discharging noundments, permittees are required to utilize outlet structures that withdraw water

sible. If outlet structures that withdraw water from the surface are not feasible, g this decision must be included in the Plan. t Practices that are consistent with and no less stringent than the Manual for

l in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with

all structural practices. Specifications must, at a minimum, meet the guidelines set and Sediment Control in Georgia.

ng all temporary and permanent vegetative practices. Include species, planting ime and mulching rates. Vegetative plan shall be site specific for appropriate time ke place and for the appropriate geographic region of Georgia.

ct that is less than 1 acre and not part of a common development

am, the * checklist items would be N/A.

Effective January 1, 2021



PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

								DATE
								.RK DESCRIPTION
								MAI
ISSUE DATE:	4/19/21	SOLICITATION NO.: 001	CONTRACT NO.:	001	CATEGORY CODE:			0-ESPC NOTES.DWG
DRAWN BY:	BWA	DESIGNED BY: JPB	CHECKED BY:	MTF	SUBMITTED BY:	2 10	SIZE: FILE NAME.	ANSI D 20-1019 EC00
	I & Ball Maritime (4 Cedar View Court Savannah, Georg						
		s⊦ E(∃⊺ 0	пр 02	2)	

1 2 3	4 5 6
EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPC)	(CONSTRUCTION EXIT SHOULD BE DEFINED - INSTALLATION MAY WAIT UNTIL DEMOLITION HAS OCCURRED)
1. THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100002. THESE PLAN SHEETS AND ALL REQUIREMENTS	2. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED WITHIN 14 DAYS. IF THE AREA IS N
OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION	YET TO FINAL GRADE, IT SHALL BE MULCHED. IF THE AREA IS TO FINAL GRADE AND WILL EVENTUALLY CONTAIN SITE IMPROVEMEN IT SHALL BE TEMPORARY SEEDED, AREAS BROUGHT TO FINAL GRADE THAT WILL REMAIN PERVIOUS ARE TO BE PERMANENTLY SEE
	ALLOWABLE EXCEPTIONS FROM THE NPDES GENERAL NPDES PERMIT NO. GAR 100001, ARE NOTED BELOW.
	3. "WHERE THE INITIAL OF STABILIZATION MEASURE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR PERMANEN
PROJECT LIMITS CONTAIN APPROXIMATELY 1.89 ACRES.	CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED
2. THE OFFSITE DRAINAGE ENTERS THE SITE FROM THE WEST SIDE THROUGH SURFACE DRAINAGE TO THE PROPOSED RAILROAD. THE	
MAJORITY OF THIS DRAINAGE SHEET FLOWS ACROSS THE SITE, AFTER DEVELOPMENT OF THE SITE, IT WILL DIVERTED AROUND THE	4. WHERE CONSTRUCTION ACTIVITY WILL RESOME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAT 21 DAYS) THEN STABILIZATION
RAILYARD.	MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY
3. ALL RUNOFF FROM THE SITE SHEET FLOWS ACROSS THE SITE FROM THE EAST TO THE WEST, COLLECTING EVENTUALLY IN CONCENTRATION IN THE WETLANDS TO THE WEST.	TEMPORARILY CEASED."
A THE PROPOSED DRAINAGE SYSTEM FOR THE PROJECT CONSISTS OF GRADING ONLY	5. PLEASE REFER TO DETAIL SHEETS FOR THE LAND DISTURBANCE CONSTRUCTION SCHEDULE AND TEMPORARY AND PERMANENT
5. CONSTRUCTION WILL BEGIN WITH INSTALLATION OF A CONSTRUCTION EXIT AND REACEMENT OF DERIMETER SULT FENCE ALONG	
APPLICABLE PORTIONS OF THE PROJECT LIMITS TO LIMIT THE AMOUNT OF SILT RUNOFF. AFTER THESE EROSION CONTROL BMPS HAVE	CANAL. THE CANAL DISCHARGES INTO THE SAVANNAH RIVER.
BEEN INSTALLED, CLEARING WILL BEGIN. CONSTRUCTION OF DRAINAGE PROVISIONS WILL START. THE SITE WILL THEN BE GRADED AND	7. 67 C.Y. SEDIMENT STORAGE PER DISTURBED ACRE REQUIREMENT
STABILIZED WITH VEGETATION OR MULCHED.	a. TOTAL PROJECT SITE = 1.89 AC
6. FOR EXISTING CONDITIONS SEE SHEET V101.	b. TOTAL DISTURBED ACREAGE = 1.51 AC
7. FOR PROJECT PLAN & PROFILE SEE SHEETS C101 & C102.	C. TOTAL REQUIRED SEDIMENT STORAGE:
8. FOR ESPC PLAN SEE SHEET EC101.	67 C Y / AC X 1 51 AC = 45 CY
9. ZONING: INDUSTRIAL	d SEDIMENT STORAGE REQUIREMENTS WILL BE MET BY LITUIZING SUIT FENCE
10. NAME OF RECEIVING WATERS: SATILLA RIVER.	d. Sebiment Storkde Regolitements wile be met brotheizing sier rende
11. BUFFER VARIANCE: A STREAM BUFFER VARIANCE IS NOT REQUIRED FOR CONSTRUCTION ACTIVITIES FOR THIS PROJECT.	
12. STATE WATERS: NO STATE WATERS ARE LOCATED WITHIN 200 FEET OF THE PROJECT SITE.	
13. SURVEY INFORMATION	
a. ADJACENT PROPERTIES: CSX & NORFOLK SOUTHERN	28"
b. VERTICAL DATUM: ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON NAVD88.	2.5° MIN.
c. HORIZONTAL DATUM: COORDINATES ARE IN U.S. SURVEY FEET REFERRED TO THE GEORGIA STATE PLANE ZONE 1001 EAST, NAD83.	
14. FEMA: FLOOD INSURANCE RATE MAP, COMMUNITY NUMBER 13229C, PANEL 0195D, DATED 09/25/2009, SHOWS THE EXISTING	
PROJECT STE TO BE OUTSIDE THE EXISTING FLOODPLAIN.	
15. THE STE IS LOCATED IN PIERCE COUNTY, GA. GROSS ACREAGE OF THE DRAINAGE BASIN: 3,000 ACRES. ACREAGE OF THE PROJECT SITE: 1.5 ACRES. THE WEIGHTED CURVE NUMBER FOR THE TOTAL PROJECT SITE IS 80	
2. WEIGHTED DEE CONSTRUCTION CUDVE NUMBER (CN): 90	
a. WEIGHTED PACE CONSTRUCTION CURVE NUMBER (CN): 80	1.5' MIN. 2"
17. SOIL PROPERTIES (SEE SOILS WAP BELOW FOR LOCATIONS)	
	SIDE VIEW
	$CV/UNEAD FT = (11.7 \times 1.17 \times$
	$C_{1}C_{1}C_{1}C_{2}C_{1}C_{1}C_{2}C_{1}C_{1}C_{2}C_{1}C_{2}C_{1}C_{1}C_{2}C_{1}C_{1}C_{2}C_{1}C_{1}C_{1}C_{2}C_{2}C_{1}C_{1}C_{1}C_{2}C_{2}C_{1}C_{2}C_{2$
MhA RIA	1,451 LF SILT FENCE: 1,451 LF X 0.25 CY/LF = 363 CY SEDIMENT STORAGE
Ada PaA	T. 363 CY EXCEEDS THE REQUIRED 45 CY OF SEDIMENT STORAGE
NS DIA	g. JUSTIFICATION FOR USING SILT FENCING FOR SEDIMENT STORAGE:
RIA	DUE TO THE TOPOGRAPHY, GENERAL STIE STABILITY AND DESIRE TO MINIMIZE NEGATIVE IMPACTS TO WILDLIFE AND VEGETATION SEDIMENT STORAGE WILL BE PROVIDED USING THE PERIMETER SILT FENCING IN LIFLLOF SEDIMENT BASING THE
Pad	SILT FENCING SHOULD PROVIDE THE MOST VIABLE MEANS FOR TRAPPING AND STORING WATERBORNE SEDIMENT ON THIS S
	THE ADJACENT DETAIL SHOWS THE STORAGE VALUE PER LINEAR FOOT OF SILT FENCE. ACCUMULATED SEDIMENT SHOULD BE
Ada	
Ada LiA	
	1. ALL NON-STOKIVIWATER DISCHARGES WILL BE ROUTED THROUGH ON-SITE BMPS WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES. IRRIGATION WATER, GROUND WATER, DEWATERING OF DISCHARGES INCLUDE
PaA	CONSTRUCTION SITE AND RINSE OFF WATER OF NON-TOXIC MATERIALS.
LiA	OTHER CONTROLS
	1. NO WASTE WILL BE DISPOSED OF INTO STORMWATER INLETS OR WATERS OF THE STATE EXCEPT AS AUTHORIZED BY A SECTION 4(
	PERMIT.
	2. WASTE MATERIALS
No.	a. ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL M
To CmA	ALL SULID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IE NECESSARY AND TP
	WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.
	b. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES
TO THOSE OF THE TOLLOWING SOL SERIES DASED ON THE USDA-NECS NATIONAL COUPERATIVE SULL SURVEY:	BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLO
	3. HAZARDOUS WASTE
	a. 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
	MATERIAL SAFETY DATE SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE IOR (
	WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE
	PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANO
19. SOIL DISTURBING ACTIVITIES INCLUDE:	WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEFTS AND
a. INSTALLING PERIMETER AND OTHER SEDIMENT CONTROLS.	SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL
b. INSTALLING A STABILIZED CONSTRUCTION EXIT.	CONTROL TECHNIQUES.
c. GRADING AND EXCAVATION.	b. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHI
d. PREPARATION FOR FINAL SEEDING.	THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED
e. COMPLETION OF ON-SITE STABILIZATION.	SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN
EROSION AND SEDIMENT CONTROLS	COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT
1. ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES.	SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SF

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ΡΙΔΝ								DATE
4. SANITARY V a. A MINI WASTE FACILIT b. ALL SA STORM SPECIA STORM PLAN	VASTES MUM OF ONE PORTABLE SANITARY UN WILL BE COLLECTED FROM THE PORTA Y PROVIDER IN COMPLETE COMPLIANO NITARY WASTE UNITS WILL BE LOCATE IWATER DISCHARGE IS NEGLIGIBLE. AD LLY DESIGNED PLASTIC SKID CONTAINE IWATER DISCHARGES. THE LOCATION (NIT WILL BE PROVIDE ABLE SANITARY UNITS CE WITH LOCAL AND D IN AN AREA WHERE DITIONAL CONTAINN ERS AROUND THE BAS DF THE SANITARY WA	D FOR EVERY TEN (10 S A MINIMUM OF ON STATE REGULATIONS E THE LIKELIHOOD OF MENT BMPS MUST BE SE, TO PREVENT WAST STES UNITS MUST BE) WORKERS ON TH E TIME PER WEEK THE UNIT CONTRI IMPLEMENTED, SI TES FROM CONTRI I IDENTIFIED ON TH	IE SITE. ALL SANITARY BY A LICENSED PORTAE BUTING TO JCH AS GRAVEL BAGS C BUTING TO HE EROSION CONTROL	BLE DR		
c. GRADII	NG PHASE BY THE CONTRACTOR ONCE	THE LOCATIONS HAV	E BEEN DETERMINED).				
5. OFFSITE VE a. A STAE FOR CC TRACK TARPA	HICLE TRACKING BILIZED CONSTRUCTION EXIT HAS BEEN DNSTRUCTION EXIT LOCATION AND DET ING OF MUD, DIRT OR ROCK. DUMP TR	PROVIDED TO HELP F FAILS. THE PAVED STF LUCKS HAULING MAT	REDUCE VEHICLE TRA REET ADJACENT TO TH ERIAL FROM THE CON	CKING OF SEDIME HE SITE EXIT WILL E ISTRUCTION SITE \	NT. SEE SHEETS EC101 3E INSPECTED DAILY FO WILL BE COVERED WITH	R I A		DESCRIPTION
INVENTORY F	OR POLLUTION PREVENTION PLA	N						
1. THE FOLLO FUELS AND FERTILIZERS	WING MATERIALS ARE EXPECTED ON-S LUBRICANTS FOR EQUIPMENT, TAR, M 5, HERBICIDES, CRUSHED STONE, PLAST ON	ITE DURING CONSTRU ETAL REINFORCING, I IC, METAL, AND CON	JCTION: CONCRETE P PAINTS/FINISHES, PAI CRETE PIPES.	RODUCTS, ASPHAI NT SOLVENTS, LUI	LT, PETROLEUM BASED MBER, PESTICIDES,			
1. PRACTICES WILL BE FO 2. GOOD HOU	SUCH AS GOOD HOUSEKEEPING, PROP LLOWED TO REDUCE THE RISK OF SPILL SEKEEPING	ER HANDLING OF HAZ S AND SPILLS FROM I	ZARDOUS PRODUCTS DISCHARGING INTO S	AND PROPER SPIL TORMWATER RUN	L CONTROL PRACTICES IOFF.		E DATE: 1 CITATION NO.: FACT NO.:	GORY CODE: OTES.DWG
a. QUAN b. PRODU	FITIES OF PRODUCTS STORED ON-SITE V	WILL BE LIMITED TO T IN A NEAT, ORDERLY	THE AMOUNT NEEDED MANNER IN APPROP	D FOR THE JOB. RIATE CONTAINER	S PROTECTED FROM		ISSUE 4/19/2 SOLIC 001 CONT	001 CATE CATE
RAINFA c. PRODU	ALL, WHERE POSSIBLE. ICTS WILL BE KEPT IN THEIR ORIGINAL (CONTAINERS WITH M	1ANUFACTURER LABE	LS LEGIBLE AND VI	SIBLE.			ME: EC000-E
d. PRODU RECOM	ICTS MIXING, DISPOSAL AND DISPOSAL IMENDATIONS.	OF PRODUCT CONTA	AINERS WILL BE ACCO	RDING TO THE MA	ANUFACTURER'S		BY: IED BY: ED BY:	TED BY: FILE NAN 20-10191
3. PRODUCT S	PECIFIC PRACTICES						DRAWN BWA DESIGN JPB CHECKI	MTF SUBMIT JPB SIZE: ANSI D
a. PETRO FOR LE MAINT NATUR CONTA PROPE STATE	LEUM BASED PRODUCTS - CONTAINERS AKS AND SPILLS. THIS INCLUDES ON-SI ENANCE OF SUCH EQUIPMENT. EQUIPI AL DRAINS AND STORMWATER DRAIN INMENT LINER TO PREVENT/MINIMIZE R DISPOSAL METHODS WILL INCLUDE C REGULATIONS.	S FOR PRODUCTS SUC TE VEHICLE AND MAC MENT MAINTENANCE AGE INLETS. IN ADDIT SITE CONTAMINATIC COLLECTION IN A SUIT	CH AS FUELS, LUBRICA CHINERY DAILY INSPEC E AREAS WILL BE LOCA FION, TEMPORARY FU ON. DISCHARGE OF OI FABLE CONTAINER AN	NTS AND TARS WI CTION AND REGUL ATED AWAY FROM IELING TANKS SHA ILS, FUELS AND LU ID DISPOSAL AS RE	ILL BE INSPECTED DAILY AR PREVENTATIVE I STATE WATER, LL HAVE A SECONDARY BRICANTS IS PROHIBITE QUIRED BY LOCAL AND	ED.	Dup, LLC B 1410 (912) 662-2914 J Copyright © 2021	≥ <u>∞</u> ,∞∢
b. PAINTS EXCESS WITH 1 AND R	FINISHES/SOLVENTS - ALL PRODUCTS PRODUCT WILL NOT BE DISCHARGED HESE PRODUCTS AND PRODUCT CONT ECOMMENDATIONS.	WILL BE STORED IN T TO THE STORMWATE AINERS WILL BE DISP	FIGHTLY SEALED ORIG R COLLECTION SYSTE POSED OF ACCORDING	INAL CONTAINERS M. EXCESS PRODU 5 TO MANUFACTU	WHEN NOT IN USE. CT, MATERIALS USED RER'S SPECIFICATIONS		ime Gro	
c. CONCR DRUM	ETE TRUCK WASHING - NO CONCRETE WASH WATER ONSITE.	TRUCKS WILL BE ALL	OWED TO WASH OUT	OR DISCHARGE SI	JRPLUS CONCRETE OR		ourt Sav e.com	SGRI
d. FERTILI SPECIF AND SE	ZER/HERBICIDES - THESE PRODUCTS W ICATIONS OR ABOVE THE GUIDELINES S EDIMENT CONTROL IN GEORGIA. ANY S	VILL BE APPLIED AT RA SET FORTH IN THE CR STORAGE OF THESE N	ATES THAT DO NOT EX OP ESTABLISHMENT (1ATERIALS WILL BE UN	KCEED THAT MANU OR IN THE GSWCC NDER ROOF IN SEA	JFACTURER'S MANUAL FOR EROSION LED CONTAINERS.	J	Ball M Cedar View C	
e. BUILDI SUCH M 4. SPILL CLEAN	NG MATERIALS/FORMWORK - NO BUIL MATERIAL WILL BE DISPOSED OF IN PRO NUP AND CONTROL PRACTICES	DING OR CONSTRUC OPER WASTE DISPOSA	TION MATERIALS WIL AL PROCEDURES.	L BE BURIED OR D	ISPOSED OF ON-SITE. A	LL		
a. LOCAL, PROCE	STATE AND MANUFACTURER'S RECON DURES WILL BE MADE AVAILABLE TO S	IMENDED METHODS ITE PERSONNEL.	FOR SPILL CLEANUP	WILL BE CLEARLY F	POSTED AND			
b. MATER AND EC SAWDI c. SPILL P	IAL AND EQUIPMENT NECESSARY FOR QUIPMENT INCLUDES, BUT IS NOT LIMI JST AND PROPERLY LABELED PLASTIC A REVENTION PRACTICES AND PROCEDU	SPILL CLEANUP WILL TED TO, BROOMS, DI ND METAL WASTE CO RES WILL BE REVIEW	BE KEPT IN THE MATI USTPANS, MOPS, RAG ONTAINERS. ED AFTER A SPILL ANI	ERIAL STORAGE AF GS, GLOVES, GOGG D ADIUSTED AS NE	REAS. TYPICAL MATERIA LES, CAT LITTER, SAND,	NLS		
FUTUR d. ALL SP	E SPILLS.	Y UPON DISCOVERY.	ALL SPILLS WILL BE RI	EPORTS AS REOUII	RED BY LOCAL, STAT, AN	ND		
e. FOR SP BE CON	AL REGULATIONS. ILLS THAT IMPACT SURFACE WATER (LI	EAVE A SHEEN ON SU	IRFACE WATER), THE I	NATIONAL RESPON	NSE CENTER (NRC) WILL			
f. FOR SP	ILLS OF UNKNOWN AMOUNT, THE NAT	FIONAL RESPONSE CE	NTER (NRC) WILL BE (CONTACTED WITH	IN 24 HOURS AT		.	
g. FOR SP	ILLS GREATER THAN 25 GALLONS AND	NO SURFACE WATER	IMPACTS, THE SPILL	WILL BE CLEANED	UP AND LOCAL AGENCI	ES	RAIL	
5. THE CONTR PETROLEUN GREATER TI PREPARED I	ACTOR SHALL NOTIFY THE LICENSED PI A IS STORED ONSITE (THIS INCLUDES CA HAN 660 GALLONS. THE CONTRACTOR BY THAT LICENSED PROFESSIONAL.	ROFESSIONAL WHO P APACITIES OF EQUIPN WILL NEED A SPILL PF	PREPARED THIS PLAN I MENT) OR IF ANY ONE REVENTION CONTAIN	IF MORE THAN 1,3 PIECE OF EQUIPM MENT AND COUN	20 GALLONS OF IENT HAS A CAPACITY TERMEASURES PLAN		L PARK	
INSPECTIONS							RIA	
1. EACH DAY V PROVIDED F PRODUCTS THE PRIMA INSPECTION 2. MEASURE R	WHEN ANY TYPE OF CONSTRUCTION AC BY THE PRIMARY PERMITTEE SHALL INS ARE STORED, USED, OR HANDLED FOR RY PERMITTEE'S SITE WHERE VEHICLES IS MUST BE CONDUCTED UNTIL A NOT AINFALL ONCE EVERY 24 HOURS EXCEP	CTIVITY HAS TAKEN PI PECT: (A) ALL AREAS SPILLS AND LEAKS FR ENTER OF EXIT THE S ICE OF TERMINATION PT NON-WORKING SA	LACE AT A PRIMARY P AT THE PRIMARY PER OM VEHICLES AND EC SITE FOR EVIDENCE OF I IS SUBMITTED.	ERMITTEE'S SITE, (MITTEE'S SITE WH QUIPMENT; AND (I F OFF-SITE SEDIME (ING SUNDAY AND	QUALIFIED PERSONNEL IERE PETROLEUM B) ALL LOCATIONS AT ENT TRACKING. THESE D NON-WORKING		TY INDUST ACCESS	ESPC NOTES
FEDERAL HO OF THE SITE PERENNIALS	DLIDAY UNTIL A NOTICE OF TERMINATI E HAVE UNDERGONE FINAL STABILIZAT S APPROPRIATE FOR THE REGION.	ON IS SUBMITTED. M ION OR ESTABLISHED	IEASUREMENT OF RAI	INFALL MAY BE SU VEGETATION AND	SPENDED IF ALL AREAS A SEEDING OF TARGET		PIERCE COUN	
	CORCEACED Seorgia811.com	Jason P Ball Level II Certified Design Profess Certification Number 1ssued:	D WATER DOMMISSION	PR NOT TO BE (RELIMINAR		SHEE EC(т ір 303
	vani perore yeu dig.						$\underline{}$)

G	1. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER (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) THE FOLLOWING: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY
	PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
_	2. 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, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO
F	RECEIVING WATER(S). 3. 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.
	4. A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(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 ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.
Е	MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS
	1. MAINTENANCE a. THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FROM THE "MANUAL FOR EROSION AND
	SEDIMENT CONTROL IN GEORGIA", FIFTH EDITION. b. CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5 -3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO POADWAYS OF INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
	c. RETROFIT STRUCTURES SHALL BE KEPT CLEAR OR TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST.
	d. SEDIMENT SHALL BE REMOVED FROM SILT FENCES ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS).
D	e. SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAPS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.
	f. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.
	g. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREA AROUND THE INLET.
	h. REPAIR ALL DAMAGES CAUSED TO TEMPORARY SEDIMENT BASINS BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHED THE SPECIFIED DISTANCE BELOW THE TOP OF THE RISE. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGE WAYS DURING SEDIMENT REMOVAL OR DISPOSAL. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT, ADJACENT TO A STREAM OR FLOODPLAIN.
	i. ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH.
с	j. 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.
_	k. PERMANENT VEGETATION SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREA THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OF SODDING SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP-RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES,
	SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGION, SUCH THAT WITHIN THE GROWING SEASON A 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.
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P:\20-1019 PIERCE COUNTY RAIL\600 CADD\SHEETS\CONST\20-1019 EC000-ESPC NOTES .DWG <> PLOT DATE: 4/30/2021 8:37:16 AM BY: JASON BALL

RETENTION OF RECORDS

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- 2. COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN;
- 3. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
- 4. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
- 5. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART OF THIS PERMIT; AND
- 6. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.
- 7. THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO STORMWATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENT OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF A NY AND ALL LOCAL, STATE AND FEDERAL AGENCIES HAVE GOVERNING AUTHORITY, INCLUDING THE CONDITIONS RELATED TO MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH THE ESPCP AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

CERTIFICATION

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

CERTIFIED BY

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.

DATE OF INSPECTION _

"I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ESPC PLAN ON THE DATE OF INSPECTION."

GSWCC LEVEL II DESIGN PROFESSIONAL: JASON P. BALL, PE GSWCC CERTIFICATION NO. 0000044937

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ESPC PLAN.

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



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GSWC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
Jason	P Ball
Level II Certified I	Design Professional
CERTIFICATION NUMBER	0000044937
Issued: 07/19/2020	EXPIRES: 07/19/2023

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION



Sediment Barrier



DEFINITION

Sediment Barriers are temporary structures made up of a porous material typically supported by steel or wood posts. Types of sediment barriers may include silt fence, brush piles, mulch berms, compost filter socks or other filtering material.

PURPOSE

To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition and/or filtration of sediment at the structure. The barriers retain the soil on the disturbed land until the activities disturbing the land are completed and vegetation is established.

CONDITIONS

Barriers should be installed where runoff can be stored behind the barrier without damaging the submerged area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or other concentrated flow areas.

DESIGN CRITERIA

Sediment barriers are designed to retain sediment transported by sheet flow from disturbed area. It is important for the design professional to take into account the profile of the product for use on the site. Sediment Barriers should also provide a riprap splash pad or other outlet protection device for any point where flow may overtop the sediment barrier. Ensure that the maximum height of the barrier at a protected, reinforced outlet does not exceed 1 foot and that the support spacing does not exceed 4 feet.

Where all runoff is to be stored behind the sediment barrier (where no storm water disposal system is present), maximum continuous slope length behind a sediment barrier shall not exceed those shown in Table 6-27.1. For longer slope lengths, slope interrupters must be used. The drainage area shall not exceed 1/4 acre for every 100 feet of sediment barrier.

Placement

The type of sediment barrier depends on whether the area is sensitive or nonsensitive. Sensitive areas can be defined as any area that needs additional protection, these areas include but are not limited to, state waters, wetlands, B. or any area the design professional designates as sensitive.

When using multiple types of sediment barriers on a site in a single run, the barriers must be overlapped 18 inches or as specified by design professional. See Figure 6-27.5

Construction Exit (c_{\circ})



DEFINITION

A stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk or parking area or any other area where there is a transition from bare soil to a paved area.

PURPOSE

To reduce or eliminate the transport of mud from the construction area onto public rights-ofway by motor vehicles or by runoff.

CONDITIONS

This practice is applied at appropriate points of construction egress. Geotextile underliners are required to stabilize and support the pad aggregates.

DESIGN CRITERIA Formal design is not required. The following standards shall be used:

Aggregate Size Stone will be in accordance with National Stone As-

sociation R-2 (1.5 to 3.5 inch stone). Pad Thickness

The gravel pad shall have a minimum thickness of 6

inches.

Pad Width At a minimum, the width should equal full width of all or site onto roadways or into storm drains must be points of vehicular egress, but not less than 20 feet wide. removed immediately.

Pad Length

The gravel pad shall have a minimum length of 50 feet. When the construction is less than 50 from the paved access, the length shall be from the edge of existing pavement to the permitted building being constructed.

CONSTRUCTION SPECIFICATIONS

Non-sensitive Areas * Sd1-NS

Sediment barriers being used as Type NS shall have

Sensitive Areas* (Sd1-S)

Sediment barriers being used as Type S shall have a support spacing of no greater than 4 feet on center, with each being driven into the ground a minimum of 18 inches. *As of January 1 2016, in the existing Georgia epartment of Transportation Qualified Products list #36 (QPL- 36), Type A, B, or C will fall under sensitive and non-sensitive applications. **Type C** will be classified as sensitive and Type A and **B as non-sensitive**. Refer to

Appendix A-2 and the Equivalent BMP List. PRACTICE CLASSIFICATIONS For silt fence Type A, B or C refer to Table 6-27.4.

Type A Silt Fence

This 36-inch wide filter fabric shall be used on developments where the life of the project is great than or equal to six months. Type A is classified as non-sensitive application.

Type B Silt Fence

Though only 22-inches wide, this filter fabric allows the same flow rate as Type A silt fence. Type B silt fence shall be limited to use on minor projects, such as residential home sites or small commercial developments where permanent stabilization will be achieved in less than Installation six Type B is classified as non-sensitive application.

Type C Silt Fence

Type C fence is 36-inches wide with wire reinforcement or equivalent. The wire reinforcement is necessary because this fabric allows almost three times the flow rate as Type A silt fence. Type C silt fence shall be used where runoff flows or velocities are particularly high or where slopes exceed a vertical height of 10 feet. Type C is classified as sensitive application.

Filter Media Sock Specifications

Compost filter media used for sediment barrier filler material shall be weed free and derived from a well-decomposed source of organic matter. Filter Media Sock is classified as a Type **B**, non-sensitive application. The compost shall be produced using an aerobic composting process meeting CFR 503 regulations including time and temperature data. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted without applicable water quality test results. Test methods for the items below should follow US Composting soil upward next to the slit and to minimize horizontal Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures:

pH – 5.0-8.0 in accordance with TMECC 04.11-A, "Electrometric pH Determinations for Compost"

Particle size – 99% passing a 2 inch (50mm) sieve and a maximum of 40% passing a 3/8 inche (9.5mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification". (Note: In the field, product commonly is between ½ in./12.5mm and 2 in./50 mm in particle size.)

Moisture content of less than 60% in accordance with standardized test methods for moisture determination.

If the action of the vehicle traveling over the

gravel pad does not sufficiently remove the mud,

the tires should be washed prior to entrance onto

public rights-of-way. When washing is required, it

shall be done on an area stabilized with crushed

stone and provisions that intercept the sedimentlade

runoff and direct it into an approved sediment trap or

The exit shall be located or protected to prevent

It is recommended that the entrance area be exca-

On sites where the grade toward the paved area is

3:1 side slopes shall be constructed across the foundation

The geotextile underliner must be placed the full length

1. For subgrades with a CBR greater than or equal to

M288-06 Section 7.3, Separation Re- guirements.

Geotextile Property Requirements for Subsurface

Drainage, Separation, Stabilization, and Permanent

Erosion Control (Geotextile Property Requirements).

2. For subgrades with a CBR between 1 and

3 or sheer strength between 30 and 90

kPa, geotextile must meet requirements

of section AASHTO M288-06 Section 8,

The exit shall be maintained in a condition that

Figure 6-14.1 dropped, washed, or tracked from vehicles

will prevent tracking or flow of mud onto public

dressing with 1.5-3.5 inch stone, as conditions

structures to trap sediment. All materials spilled,

demand, and repair and/or cleanout of any

rights-of-way. This may require periodic top

3 or shear strength greater than 90 kPa, geotextile

must meet requirements of section AASHTO

and width of the entrance. Geotextile selection shall be

vated to a depth of 3 inches and be cleared of all veg-

Washing

sediment basin

etation and roots.

Diversion Ridge

Geotextile

MAINTENANCE

sediment from leaving the site.

CONSTRUCTION SPECIFICATIONS

approximately 15 feet above the road.

based on AASHTO M288-06 specification:

Location

Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

support spacing of no greater than 6 feet on center, with shall be a photodegradable or biodegradable knitted mesh wide with a 6" excavation. Post setting and fabric each being driven into the ground a minimum of 18 inches. material and should have 1/8 in. to 3/8 in., openings.

Brush Barrier Sd1-BB

(Only during timber clearing operations) Brush obtained from clearing and grubbing operations may be piled in a row along the perimeter of disturbance at the time of clearing and grubbing. Brush barriers should not be used in developed areas or locations where aesthetics are a concern. Brush should be wind-rowed on the contour as nearly as possible and may require compaction. Construction equipment may be utilized to satisfy this requirement. The minimum base width of the brush barrier rows of Type S sediment barriers shall be used. The two shall be 5 feet and should be no wider 10 feet. The height of the brush barrier should be between 3 and 5 feet tall.

A brush barrier is a good tool to use in developing pasture in an agricultural situation to prevent sediment from leaving the site until the pasture is stabilized. If greater filtering capacity is required, a commercially available sediment barrier may be placed on the side of the brush barrier receiving the sediment-laden runoff. The lower edge of the fabric must be buried in a 6-inch deep trench immediately uphill from the barrier. The upper edge must be stapled, tied or otherwise fastened to the brush barrier. Edges of adjacent fabric pieces must overlap each other. See Figure 6-27.5.

Sediment barriers should be installed along the

Temporary sediment barriers shall be installed

according to the following specifications as shown on the plans or as directed by the design professional. For installation of the barriers. See Figures 6-27.1. 6-27.2, 6-27.3 and 6-27.4, respectively. It is important to remember that not all sediment barriers need to be trenched into the ground but most taller sediment barriers

Post installation shall start at the center of a low point (if applicable) with the remaining posts spaced no greater than 6 feet apart for Type NS sediment barriers and no greater than 4 feet apart for Type C sediment barriers. For post size requirements, see Table 6-27.2. Fasteners for wood posts are listed in Table 6-27.3.

Static Slicing Method

installation

The static slicing machine pulls a narrow blade through the ground to create a slit 12" deep, and simultaneously inserts the silt fence fabric into this slit behind the blade. The blade is designed to slightly disrupt compaction, thereby creating an optimum condition for compacting the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the slit in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed areas. This vertical compaction reduces the air spaces between soil particles, which minimizes infiltration. Without this compaction infiltration can saturate the soil, and water may find a pathway under the fence. When a silt fence is holding back several tons of accumulated water and sediment, it needs to be supported by posts that are driven 18 inches into the soil. Driving in the posts and attaching the fabric to them completes the

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



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

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(Sd1)

Trenching Method

Trenching machines have been used for over twenty-five years to dig a trench for burying part of the Sock containment system for compost filter media filter fabric underground. Usually the trench is about 2-"6" installation often precede compaction, which make effective compaction more difficult to achieve. EPA supported an independent technology evaluation (ASCE 2001), which compared three progressively better variations of the trenching method with static slicing areas. The static slicing method performed better than two lower performance levels of the trenching method and was as good as or better than the trenching method's highest performance. The best trenching method typically required nearly triple the time and effort to achieve results comparable to the static slicing method. Along all state waters and other sensitive areas, two rows of Type S should be placed a minimum of 36 inches

MAINTENANCE

Sediment shall be removed once it has accumulated to one-half the original height of the barrier. Sediment barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately six months) or the height of the product is not maintaining 80% of its properly installed

Temporary sediment barriers shall remain in place until disturbed areas have been permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.

TYPF FF Tensile Strength (Lbs (ASTM D-4632) Elongation (% Max.) ASTM D-4632) AOS (Apparent Openir Max. Sieve Size) (A Flow Rate (Gal/Min/Sq GDT-87) Ultraviolet Stability (2) ASTM D-4632 after

weathering in accord D-4355)

Bursting Strength (PS ASTM D-3786 Diap Strength Tester)

30" MIN

18" MIN

30" MIN

18" MIN.

SILT FENCE - TYPE SENSITIVE

SIDE VIEW

FRONT VIEW

FABRIC

(WOVEN

WIRE

6"

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION,

2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND

SEDIMENTATION, AND POLLUTION CONTROL PLAN.

POLLUTION CONTROL PLAN

FENCE

Figure 6-27.2

BACKING)

◄ 4' MAX. O.C. ►



Table 6-27.4	4			30" MIN.
ICE	A	В	С	
Min.) (1)	Warp - 120 Fill - 100	Warp - 120 Fill - 100	Warp - 260 Fill - 180	
	40	40	40	18" MIN.
ng Size)				
STM D-4751)	#30	#30	#30	NOT
q. Ft.)	25	25	70	2.
300 hours dance with ASTM	80	80	80	
l Min.) hram Bursting	175	175	175	
ı (Inches)	36	22	36	

(2) Percent of required initial minimum tensile strength.

- HARD SURFACE PUBLIC ROAD

ORIGINAL GRADE 6" MIN





1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Figure 6-27.1

Table 6-27.1 Criteria	Table 6-27.1 Criteria for Sediment Barrier						
Land Slope	Maximum Slope Length Above Fence						
Percent	Feet						
< 2	100						
2 to 5	75						
5 to 10	50						
10 to 20	25						
> 20*	15						
n areas where the slope is greater than 20%, a flat rea length of 10 feet between the toe of the slope to he fence should be provided.							

Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE •To reduce runoff and erosion

- To conserve moisture •To prevent surface compaction or crusting To control undesirable vegetation
- •To modify soil temperature •To increase biological activity in the soil

REQUIREMENT FOR REGULATORY

COMPLIANCE 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 any area will remain undisturbed for greater than six

months, permanent vegetative techniques shall be employed. Refer to Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 -Disturbed Area Stabilization (With Sodding).

SPECIFICATIONS Mulching Without Seeding

This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be

- 1. Grade to permit the use of equipment for applying and anchoring mulch.
- Install needed erosion control measures as required such as dikes, diversions, berms,
- 3 inches.

depth indicated:

- Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic should remain on site, be chipped, and applied as mulch. This method of mulching
- protection. This material can be salvaged

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 per acre in addition to the normal amount shall be applied to offset the uptake
- the organic mulches. Apply polyethylene film on exposed areas.

Anchoring Mulch

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.



- 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. Polvethylene film shall be anchor trenched at the top as well as incrementally as necessary

Dust Control on **Disturbed Areas**

TRENCH



DEFINITION Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE

•To prevent surface and air movement of dust from exposed soil surfaces. •To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS This practice is applicable to areas subject to surface

and air movement of dust where on and off-site damage may occur without treatment METHOD AND MATERIALS

A. 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 specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.



Know what's below. Call before you dig

stabilized with a mulch cover. Site Preparation terraces and sediment barriers. 3. Loosen compact soil to a minimum depth of

Mulching Materials

Select one of the following materials and apply at the

- 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
- material from the clearing stage of development can greatly reduce erosion control costs
- 3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary and re-used.

- perennial vegetation, 20-30 pounds of nitrogen of nitrogen caused by the decomposition of
- 1. Straw or hay mulch can be pressed into

Applying Mulch

10

•	Min Length	Type of Post	Size of Post
1	4'	Soft wood Oak Steel	3"dia or 2x4 1.5" x1.5" 1.15lb./ft. min
	4'	Steel Oak	1.15-1.25 lb./ ft. min 2"x2"

	Gauge	Crown	Legs	Staples / Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/ Post
Nails	14 min.	1"	3/4"	4 min.

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS





FRONT VIEWS - NOT TO SCALE

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

Figure 6-27.5



bring clods to the surface. It is an emergency measure that should be used before wind erosion Starts. Begin plowing on windward side of Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Tillage. This practice is designed to roughen and

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

ences, 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

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification 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 specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification Cr-Construction Road tabilization

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Jason P Ball

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Disturbed Area Stabilization (With Temporary Ds2 Seeding)

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or otherwise. Apply agricultural lime at a rate determined by denuded areas.

PURPOSE

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

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 normally place seed one-quarter to one-half inch deep. areas that will be exposed for less than six months. If an Appropriate depth of planting is ten times the seed 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 Temporary

CONDITIONS

Seeding).

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 not causing runoff and erosion. The soil shall be companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

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

Seedbed Preparation

seeding equipment is to be used.

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, 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 soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Seeding

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, culti-packer-seeder, or hydraulic seeder (slurry including

seed and fertilizer). Drill or cultipacker seeders should diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to Ds1-Disturbed Area Stabilization (With Mulching Only).

Irrigation

During times of drought, water shall be applied at a rate until the permanent vegetation is established. Note: Some thoroughly wetted to a depth that will insure germination of species of temporary vegetation are not appropriate for the seed. Subsequent applications should be made when needed.

Table 6-4.1 - Temporary Cover or Companion Cover Crops PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS

pecies	Broadcast	Rates	Resource Area ³		P	lant	ing	Date	es by	Re	sou	rce .	Are
				Sol	id line	s inc	ficat ermi	e opti	mum but i	date marg	s, do inal d	tted i	line.s
	Rate Per Acre ²	Pure Live Seed (PLS) Per 1000 sqft		J	F	M	A	м	J	J	A	S	0
ARLEY brdeum vulagre													
lone i mixture	3 bu. (144 lbs) 1/2 bu. (24lbs)	3.3 lbs 0.6 lb	M-L P										
ESPEDEZA, ANNUAL			U	20-em)									-
lone mixture	40 lbs 10 lbs	0.9 lb 0.2 lb	M-L P										
OVEGRASS, WEEPING			0										
lone I mixture	4 lbs 2 lbs	0.1 lb 0.05 lb	M-L P C										
ILLET, BROWNTOP													
lone i mixture	40 lbs 10 lbs	0.9 lb 0.2 lb	M-L P C			0				-			
	1		Pasquiroa										_
pecies	Broadcast	Rates	Area ³	So	F Ød lin	Plan les in	ting	Dat te op	tes t	n de	eso les, d	urce	Al
	Cate Card and	Pure Live Seed (PLS) Per 1 000		,	_		pern	ni ssib		mar	ginal	date	IS.
ILLET, PEARL	Kate Per Acre	sqrt		J	F	IVI	_	IVI	J	J	Ê	5	T
one	50 lbs	1,1 lbs	M-L P C				-	-			-	-	
ATS rena sativa		-				4							
one mixture	4 bu. (128 lbs) 1 bu. (32 lbs)	2.9 lbs 0.7 lb	M-L P C										
YE ecale cereale					t						t		t
one mixture	3 bu. (168 lbs) 1/2 bu. (28 lbs)	3.9 lbs 0.6 lb	M-L P C							-	-		
YEGRASS, ANNUAL	1.421							1					
one	40 lbs	0.9 lb	M-L P C							3			
JDANGRASS orghum sudanese												t	
one	60 lbs	1.4 lbs	M-L P C										

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Jason	P Ball
Level II Certified I	Design Professional
CERTIFICATION NUMBER	0000044937
Issued: 07/19/2020	EXPIRES: 07/19/2023



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с	WP: 9 622580.6656 WP: 10 622927.9181 WP: 11 623121.1742 WP: 12 623606.0724 WP: 13 603560.0724	464111.8462 464221.6532 464274.8578 464422.1854		150 -	PROFILE: TRAC	E BREAK STA
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SCALE: NTS



10

BUMPING POST DETAIL

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION