	SWPPP INDEX OF SHEETS	
DE	SCRIPTION	SHT
1.	SWPPP REQUIREMENTS (3.0).	S-1
2.	SWPPP REQUIREMENTS (3.0)	S-1
3.	ORDER OF CONSTRUCTION ACTIVITIES (3.5.1.b, 3.5.2.a)	S-1
4.	STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION	S-1
5.	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (3.5.3)	S-2
6.	POLYACRYLAMIDE	S-3
7.	UTILITY RELOCATION	S-3
8.	MAINTENANCE AND INSPECTION	S-4
9.	SITE ASSESSMENTS (3.1.2)	S-4
10.	STORMWATER MANAGEMENT (3.5.4)	S-4
11.	NON-STORMWATER DISCHARGES (3.5.9)	S-5
12.	SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (3.5.5.c, 5.1)	S-5
13.	RECORD-KEEPING	S-6
14.	SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (7.7.5)	
15.	SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)	
16.	ENVIRONMENTAL PERMITS (9.0)	S-7
	OUTFALL TABLE	S-8

NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

1. SWPPP REQUIREMENTS (3.0)

- 1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING CERTIFICATIONS (3.1.1)?
 - X YES NO (CHECK ALL THAT APPLY BELOW) ☐ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC): OR
 - ☑ TDEC LEVEL II
- 1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN. HYDRAULIC HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (SEDIMENT BASINS, ETC.) (3.1.1)? YES NO X IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? YES NO
- 1.3. DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (5.4.1)? ▼ YES □ NO (CHECK ALL THAT APPLY BELOW) ☐ IMPAIRED WATERS (303d FOR SILTATION OR HABITAT ALTERATION) KNOWN EXCEPTIONAL TENNESSEE WATERS (KETW)

IF YES TO SECTION 1.3, HAVE THE EPSC PLANS BEEN PREPARED BY AN INDIVIDUAL WHO IS TOEC LEVEL II CERTIFIED? (5.4.1.b) MYES □ NO □ N/A (MAY 23, 2013 CGP EXEMPTION); AND

IF YES TO SECTION 1.3. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL WHO IS TDEC LEVEL II CERTIFIED? (5.4.1.b) MYES INO

- SITE DESCRIPTION (3.5.1)
 2.1. PROJECT LIMITS (3.5.1.g): REFER TO TITLE SHEET
 - 2.2. PROJECT DESCRIPTION (3.5.1.a): TITLE: STATE ROUTE 95, WIDEN CULVERT OVER BEAR CREEK, LM 4.19 COUNTY: ROANE PIN: 118495.00
 - 2.3. SITE MAP(S) (3.5.1.g): REFER TO TITLE SHEET
 - 2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): REFER TO EXISTING CONTOURS SHEET(S) Z, DRAINAGE MAP SHEET(S) Z, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.3.
 - 2.5. MAJOR SOIL DISTURBING ACTIVITIES (3.5.1.b) (CHECK ALL THAT APPLY): □ CLEARING AND GRUBBING ■ EXCAVATION CUTTING AND FILLING

X FINAL GRADING AND SHAPING □ UTILITIES

OTHER (DESCRIBE):

2.6. TOTAL PROJECT AREA (3.5.1.c): 1.49 ACRES

- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 1.26 ACRES

 NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.
- 2.8. IF GREATER THAN 50 ACRES, HAS CONSTRUCTION PROJECT PHASING BEEN SPECIFIED IN SECTION 3 BELOW (3.5.3.1.k)? ☐ YES ☐ NO ☒ N/A
- 2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES X NO IF YES, LIST THE CORRESPONDING PLAN SHEET: _
- 2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)? ☐ YES (DATE) ☑ NO
 IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)
- 2.11. ARE UTILITIES INCLUDED IN THE CONTRACT? ☐ YES NO
- 2.12 SOIL PROPERTIES (3.5.1 e)(4.1.1) SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE

SOIL PROPERTIES					
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)		
Conasauga Shale					
SSURGO Data-spatial and tabular Incomplete					

- 2.13. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES X NO
 - 2.13.1. IF YES TO SECTION 2.13. HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? YES NO; AND
 - 2.13.2. IF YES TO SECTION 2.13.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? ☐YES ☐ NO ☐ N/A (TDOT SP107L WILL BE
- 2.14. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.f). DINOSE COSSEICIENTS SOR EVISTING CONDITIONS

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS						
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR		
IMPERVIOUS	.45	30	98			
PERVIOUS	1.04	70	61			
WEIGHTED CURVE	72					

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS						
AREA TYPE	AREA(AC) PERCENTAGE OF TOTAL AREA (%)		RUNOFF CN	C FACTOR		
IMPERVIOUS	.55	37	98			
PERVIOUS	.94	63	61			
WEIGHTED CURVE	75					

ORDER OF CONSTRUCTION ACTIVITIES (3.5.1.b, 3.5.2.a)
CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO: MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUIDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC

DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP. 3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 7-8)
3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM

THE SITE. 3.4. INSTALL INITIAL EPSC (EROSION PREVENTION AND SEDIMENT CONTROL)

MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN 15 DAYS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

REMOVE AND STORE TOPSOIL.

STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY

STAGE AND/OR PHASE OF ACTIVITY. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE

STRUCTURES

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES 3.13. COMPLETE FINAL STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION

CONTROL BLANKET, SOD, ETC.) 3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT

UNIFORM PERMANENT VEGETATIVE COVER. 3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION 4.1. STREAM INFORMATION

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? YES NO IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT WETLAND IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY): ☐ 303d IMPAIRED FOR SILTATION

303d IMPAIRED FOR HABITAT ALTERATION

KNOWN EXCEPTIONAL TENNESSEE WATERS (KETW)

RECEIVING STREAMS (3.5.1.j).

RECEIVING STREAM INFORMATION							
NATURAL RESOURCE LABEL	NAME OF RECEIVING NATURAL RESOURCE	303d IMPAIRED FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	KETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)		
STR-1	STR-1 Bear Creek		YES	YES	YES		

STATE OF TERRESSEE

PROJECT NO.

73017-4225-04

73017-4223-04

2016

CONST. P.E. 2016

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RECEIVING STREAM INFORMATION LOCATED LOCATED 303d IMPAIRED WITHIN ≤ 1 KETW WITHIN NAME OF FLOW MILE NATURAL RECEIVING SILITATION OR PRO IFCT (YES RESOURCE DOWN HABITAT LIMITS NATURAL GRADIENT OF LABEL ALTERATION RESOURCE NO) (YES OR PROJECT LIMITS (YES OR NO) NO) (YES OR NO)

4.1.4. ARE BUFFER ZONES REQUIRED (4.1.2, 5.4.2)? ☐ YES ☒ NO IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____ IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER

☐ 60-FEET FOR IMPAIRED AND KNOWN EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED

BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE
ADJACENT TO AND ON BOTH SISSO OF THE RECEIVING
STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO
THE MAXIMUM EXTERN PRACTICABLE DURING
CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT
CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT
STREAM CONTROLLED FOR THE SITE OF THE THE 60 FOOT
ACTIVITIES AT THE SITE OF THE CONTROLLED AND THE SITE OF THE SITE

☐ 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 1-FEET)

A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH DIBES OF THE RECEIVING STREAM SHALL BE TO BE ADDED TO THE RECEIVING STREAM SHALL BE TO BE ADDED TO THE RECEIVING ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT. AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE BY ADDED TO THE SUFFER TO ANY ADDED TO THE SUFFER TO SITE AND THE SITE OF THE SUFFER TO SITE OF THE SUFFER ZONE BY MORE THAN 15 FEET AT ANY MEASURED LOCATION. ACTIVITIES NOT TO TAKE HEAD WITHIN THE BUFFER ZONE BY THE TO SITE OF THE SUFFER ZONE BY THE TO SET OF THE SUFFER ZONE BY THE TO SUFFER ZONE BY THE SUFFER ZONE BY THE TO SUFFER ZONE BY THE SUFFE

IF NO, CHECK THE APPROPRIATE BOX BELOW.

☐ BUFFERS NOT REQUIRED (i.e. NO STREAM, WETLAND, ETC. IMPACTS)

TDEC ARAP APPLIES

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PREAPPROVED SITES (4.1.2.2.)

- 4.1.5. ARE THERE BUFFER ZONE EXEMPTIONS (4.1.2.1)? ☐ YES ☒ NO IF YES, EXISTING CONDITIONS DESCRIPTION:
- 4.1.6. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT WHERE ISSUED ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. OUTFALL INFORMATION:

A SEDIMENT BASIN OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

4.2.1. OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO AN IMPAIRED STREAM OR NOWN EXCEPTIONAL TENNESSEE WATERS. FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MIMIMUM 2-YEAR? 24-HOUS TOME VEH STILL THE ENVIRONMENTAL AND EXAMPLE AND STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MIMIMUM 2-YEAR? 24-HOUS TOME VEH STILL THE ENVIRONMENTAL AND EXAMPLE AND STORAGE VEH STILL THE STILL THE ENVIRONMENTAL AND EXAMPLE AND STORAGE VEH STILL THE STILL THE ENVIRONMENTAL AND EXAMPLE AND STORAGE VEH STILL THE STILL THE ENVIRONMENTAL AND STANDARD STORAGE VEH STILL THE STILL THE ENVIRONMENTAL AND STANDARD STAN

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO AN IMPÁRIES STREAM OR KNOWN EXCEPTIONAL TENNESSEE WATERS, FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS MEMBERED BY EXCEPTIONAL TENNESSEE WATERS OR WATERS MEMBERED BY EXCEPTIONAL TENNESSEE WATERS OR WATERS MEMBERED BY EXCEPTION OF PROJECT OF PROJECT

- OUTFALL TABLE (3.5.1.d, 5.4.1.f).
 SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION.
- 4.2.3. WHERE POSSIBLE, HAS NON-PROJECT RUIN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT SO AS TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUIN-OFF THERBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

 ☐ YES ☐ NO ☑ NA
- 4.2.4. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)? ☐ YES ☐ NO ☒ N/A
- 4.2.5. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.g, 5.4.1.f)? ☑ YES ☐ NO
- 4.2.6. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (2.6.2)? ☑YES ☐ NO
- 4.3. WETLAND INFORMATION WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? MEYES ☐ NO

IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT WETLAND IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

WETLAND INFORMATION								
WETLAND FROM STAT		TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)				
WTL-1 12+50 RT.		12+90 RT.	.004					
WTL-2	13+90 RT.	15+40 RT.		.06				
WTL-3	14+00 LT.	15+40 LT.	.03					

4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)
4.4.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT
MAINTAINS AN EPA APPROVED TMDL FOR SILTATION?

XYES □ NO

- 4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?
 ☑ YES ☐ NO
- 4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?
 □ YES □ NO.
- 4.4.4. IF YES, HAS A SUMMARY OF THE CONSULTATION LETTER BEEN INCLUDED WITH THE SWPPP DOCUMENTATION? □ YES ☑ NO.
- 4.5. ECOLOGY INFORMATION (3.5.5.e)

IF SPECIAL NOTES ARE PRESENT IN THE TDOT ECOLOGY REPORT, HAVE THE NOTES BEEN ADDED TO THE APPROPRIATE PLAN SHEETS?

☐ YES ☐ NO 図 NO NOTES REQUIRED

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) ___

4.6. ENVIRONMENTAL COMMITTMENTS
ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

▼ YES □ NO
IF YES. THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 1B

- EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (3.5.3)
 5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO
 CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO
 MINIMIZE FROSION (4.1.1)
- EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)
- 5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED ACCORDING TO THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (3.5.3.3)?

 ☑YES ☐ NO
- THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24 HOUR STORM EVENT (3.5.3.3, 5.4.1.a).
- ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (3.5.1.n)?

 YES
 NO
- 5.6. HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT (3.5.2)?

 YES ☒ NO ☐ (IF YES, CHECK ONE BELOW)

 SEA ☒ ☐ ☐ PROTECT DESTRUCTOR A PER A PER
 - 5.6.1.

 PROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
 - 5.6.2. PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.7. IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.4.1.a)? ☐ YES ☒ NO
- 5.8. HAVE STEEP SLOPES (GREATER THAN 35%) BEEN MINIMALLY DISTURBED ANDIOR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (3.5.3.2) (10. "STEEP SLOPE")?

 ☐ YES ☐ NO ☑ N/A
- ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE RESEARCHED, APPLIED IN ACCORDANCE WITH MANUFACTURE'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1b).
- ALL EPSC CONTROL MEASURES WILL BE INSTALLED ACCORDING TO TDOT STANDARDS (i.e. STANDARD DRAWINGS).
- 5.11. EPSC MEASURES WILL NOT BE INSTALLED IN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.
- 5.12. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.14).

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

YEAR

TYPE

CONST. 2016 P.E. 2016 PROJECT NO.

73017-4225-04

73017-4223-04

5.13. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS MUST USE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT, UNLESS INFEASIBLE (4.1.7).

- 5.14. THE CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 2 HAVE BEEN SELECTED IN ACCORDANCE WITH TOOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.b).
- 5.15. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 2 (3.5.3.1.n).
- 5.16. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- 5.17. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE. WHICHEVER IS LESSER.
- 5.18. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- 5.19 EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD
- 5.20. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.
- 5.21. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.) INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS) ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WIHTOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL
- 5.22. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- 5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE, ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS, WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

- 5.24. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR IMPAIRED AND KNOWN EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM. WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.
- 5.25. DISCHARGES FROM SEDIMENT BASINS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT, TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL. SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT, WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE
- 5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 15 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED
- 5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (3.5.3.2).
- 5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS LINPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE
- 5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
- 5.30. FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED ONCE APPLIED. FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- 5.31. STEEP SLOPES (3.5.3.2): STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 5.32. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1.i). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET 5. ALL PERMITS WILL BE MAINTAINED ON SITE IN THE 'DOCUMENTATION AND PERMITS' BINDER.

6. POLYACRYLAMIDE

6.1. ENSURE POLYACRYLAMIDE (PAM) EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE AND MEET THE FOLLOWING REQUIREMENTS: 6.1.1. MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF

- EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER
- 6.1.2. HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE.
- 6.1.3. MIXTURE IS NON-COMBUSTIBLE. 6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.
- 6.2. PAM SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET, REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.
- 6.3. ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS

REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF PAM ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. PAM EMIJI SIONS SHALL NEVER BE APPLIED. DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TOOT IF CHITOSAN IS PROPOSED FOR USE ON THIS PROJECT.

- 6.4. ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING THAT A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.
- 6.5. EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF THE TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.
- 6.6. PAM POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER. MIXING PAM POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.
- 6.7. PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE
- 6.8. PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY RECHIREMENTS

7. UTILITY RELOCATION

- STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.
- 7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY
- 7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- 7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TOOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT. APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.
- 7.6. IN REGARD TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- 7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CALISE STORMWATER RUNGER TO CONCENTRATE AT THE TRENCH LINE

STATE OF TERRESSEE DEPARTMENT OF TRAMSPORTATION

YEAR

2016 P.E.

TYPE CONST. 2016 PROJECT NO.

73017-4225-04

73017-4223-04



ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

- 7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE
- 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TOOT RESPONSIBLE PARTY.
- 7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TOOT ENGINEER BEFORE

8. MAINTENANCE AND INSPECTION 8.1. INSPECTION PRACTICES (3.5.8)

- 8.1.1. PROJECT EPSC INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
- 8.1.2. THE TDOT CONSTRUCTION SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION SUPERVISOR OR THEIR DESIGNEE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- 8.1.3. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT.
- 8.1.4. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- 8.1.5 UPON CONCLUSION OF THE INSPECTIONS EPSC MEASURES. FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT. IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR. REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24 HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR. REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.
- 8.1.6. INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES SHALL BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%) DURING SEDIMENT REMOVAL. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INFERENTIVE IF DAMAGE DOES OCCUR THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE

- 8.1.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS. DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT SHALL BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.
- 8.1.8. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS A PART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE AUDITS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TOOT ENVIRONMENTAL COMPLIANCE OFFICE.
- 8.1.9. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH (I.E. EXTREME DROUGHT CONDITIONS, FROZEN GROUND, ETC.) WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).
- 8.1.10. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT
 ARE EXPOSED TO PRECIPITATION. STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).
- 8.1.11. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10)
- 8.1.12. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.8.5.2.e AND
- 8.1.13. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIEV AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.n).
- 8.1.14. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TOOT PROJECT SUPERVISOR PER THE
- 8.1.15. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE
- 8.1.16. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (3.8.5.2.H).

8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

- THE PROJECT SUPERVISOR MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS. THE PROJECT SUPERVISOR AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST PERFORM THE FOLLOWING:
- COMPLETE AND SIGN THE TOOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.
- SUBMIT THE EPSC DELEGATION OF AUTHORITY TO THE LOCAL TDEC EFO.

8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER. NECESSARY REPAIRS OR MAINTENANCE

WILL BE ACCOMPLISHED BEFORE THE NEXT STORM EVENT AND IN NO CASE MORE THAN 24 HOURS AFTER THE NEED IS IDENTIFIED. IN A CASE WHERE THE ACTIVITY IS DEEMED IMPRACTICABLE. ANY SUCH CONDITIONS WILL BE DOCUMENTED (35820)

YEAR

TYPE CONST. 2016

P.E. 2016 PROJECT NO.

73017-4225-04

73017-4223-04

- ALL CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.
- 8.3.3. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS. SILT FENCE SEDIMENT BASINS AND OTHER CONTROLS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50% (3.5.3.1.e).
- CHECK DAMS WILL BE INSPECTED FOR STABILITY, SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (1/2) THE HEIGHT OF THE DAM
- 8.3.5. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF OF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (3.5.3.1.f).
- 8.3.6. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.
- 8.3.7. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR, THE TOOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE

9. SITE ASSESSMENTS (3.1.2)

QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED ACCORDING TO THE TDOT ENVIRONMENTAL DIVISION COMPREHENSIVE INSPECTIONS OFFICE GUIDELINES

 STORMWATER MANAGEMENT (3.5.4)
 STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE SHOWN ON THE PLANS AND NOTED AS PERMANENT.

- 10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.1.F, 3.5.4): CLASS "C" RIP-RAP WILL BE PLACED AT THE OUTLET OF THE CULVERT.
- 10.3. OTHER ITEMS NEEDING CONTROL (3.5.5) CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).
- ☑ LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
- CONCRETE WASHOUT
- CONCRETE AND CORRUGATED METAL PIPES
- MINERAL AGGREGATES, ASPHALT
- **⊠** FARTH IQUID TRAFFIC STRIPING MATERIALS, PAINT
- ☑ ROCK
- ☑ CURING COMPOUND
- ☐ EXPLOSIVES
- □ OTHER
- THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4 WASTE MATERIALS (3.5.5 b)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TOOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS.
IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING. BUT NOT LIMITED TO NPDES. AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS

10.4.1. HAZARDOUS WASTE (3.5.5.c) (7.9)

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S ON-SITE REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.4.2. SANITARY WASTE (3.5.5.b)

PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTARI E UNITS IN A TIMELY MANNER BY A LICENSED. WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

10.4.3. OTHER MATERIALS

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY)

FERTILIZERS AND LIME

PESTICIDES AND/OR HERBICIDES

☑ DIESEL AND GASOLINE MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

 NON-STORMWATER DISCHARGES (3.5.9)
 11.1. THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE COURSE OF THIS PROJECT (CHECK ALL THAT APPLY):

 □ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER

MATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE WATER USED TO CONTROL DUST (3.5.3.1.n)

DOTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM

EXTENT PRACTICABLE ☐ UNCONTAMINATED GROUNDWATER OR SPRING WATER

I FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS

□ OTHER: _

11.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO

11.3 THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

11.4. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL

11.5 ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (3.5.1.h)? ☐ YES ☑ NO IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT

NUMBER:

12. SPILL PREVENTION. MANAGEMENT AND NOTIFICATION (3.5.5.c, 5.1) 12.1. SPILL PREVENTION (3.5.5.c)

CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY LAW AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL STATE AND FEDERAL PERMITS THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION SUPERVISOR.

12.2. MATERIAL MANAGEMENT 12.2.1. HOUSEKEEPING

ONLY NEEDED PRODUCTS WILL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES. HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL PH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING. AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF

12.3. PRODUCT SPECIFIC PRACTICES

12.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

12.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

12.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4 SPILL MANAGEMENT

12.4.1. IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES. THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY.

12.4.2. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.3 APPROPRIATE CLEANUP MATERIALS AND FOLIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. AS APPROPRIATE, FOUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.

12.4.4. ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

12.4.5. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUR

12.4.6. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED

12.4.7. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

12.4.8. IF A SPILL OCCURS THE CONTRACTOR'S SITE SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT CONSTRUCTION SUPERVISOR AND/OR PROJECT ENGINEER. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

12.4.9 APPROPRIATE CLEANUP MATERIALS AND FOLIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.5. SPILL NOTIFICATION (5.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT SUPERVISOR IS RESPONSIBLE FOR NOTIFYING THE REGIONAL ENVIRONMENTAL COORDINATOR OR ASSISTANT REGIONAL ENVIRONMENTAL COORDINATOR AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDOT REGIONAL ENVIRONMENTAL COORDINATOR WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3 A WRITTEN DESCRIPTION OF THE RELEASE DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE.

STATE OF TERRESSEE DEPARTMENT OF TRANSPORTATION

YEAR

TYPE CONST. 2016

P.E. 2016 PROJECT NO.

73017-4225-04

73017-4223-04

AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE. CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

13.1. REQUIRED RECORDS

- TDOT OR THEIR DESIGNEE WILL MAINTAIN AT THE SITE THE FOLLOWING
- RECORDS OF CONSTRUCTION ACTIVITIES (3.5.3.1.m) (6.2.1): . THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR
- · THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE
- . THE DATES WHEN STABILIZATION MEASURES ARE INITIATED
- · RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES
- · RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS
- . COPY OF SITE EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION

13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):

13.2.1. EQUIPMENT

AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE. WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

13.2.2. LOCATION

THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE. AS DEFINED IN THE NOI OF THE NPDES PERMIT. IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC).
AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING. GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED. OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.

13.2.3. METHODS

RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING. GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.

13.2.4. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.

- 13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TOOT RAINFALL RECORD. SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER
- 13.2.6. IF, IN THE EVENT THAT THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME. THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.
- 13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

13.3. KEEPING PLANS CURRENT (3.4)

TDOT OR THEIR DESIGNEE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

- · WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;
- WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS LOCAL STATE OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP.
- . WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF
- . TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED ACHATIC FALINA
- . WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS

ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 7 DAYS BY THE PROJECT EPSC INSPECTOR

- 13.4. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION). CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION
- 13.5. THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS, IT MUST BE AMENDED. MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INFEFECTIVE IN FLIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE STAGES DEPICTED IN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE PHASES OF CONSTRUCTION THAT WILL OCCUR. THUS THESE DOCUMENTS WILL HAVE TO BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS, A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP

13.6. MAKING PLANS ACCESSIBLE

- 13.6.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF FINAL STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (6.2).
- 13.6.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA. TDOT OR THEIR DESIGNEE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1):
 - A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE
 - NPDES PERMIT NUMBER FOR THE PROJECT; THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT:
 - A BRIEF DESCRIPTION OF THE PROJECT: AND
 - THE LOCATION OF THE SWPPP.
- 13.6.3. ALL INFORMATION DESCRIBED IN SECTION 10.3.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.7. NOTICE OF TERMINATION (8.0)

- 13.7.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY FINAL STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.
- 13.7.2 FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT. THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE FOLLOWING
 - · ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND
 - ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED: AND
 - ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED:
 - ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED: AND THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR
 - ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE: AND
 - TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND ALL STORMWATER DISCHARGES ASSOCIATED WITH
 - CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.8. RETENTION OF RECORDS (6.2)

TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

STATE OF TENNESSEE DEPARTMENT OF TRAMSPORTATION

YEAR

TYPE

CONST. 2016 P.E. 2016 PROJECT NO.

73017-4225-04

73017-4223-04

DIVISION					
GN DI					
FILE 1					
	14. SITE WIDEPRIMARY PERMITTEE CERTIFICATION. (7.7.5) I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED	16. ENVIRONMENTA LIST ALL ENVIR (TO BE COMPLE BY TDOT CONST	ONMENTAL PER TED AT THE EN RUCTION OR TH	MITS AND EXPIRATION I IVIRONMENTAL PRECON: EIR DESIGNEE):	DATES FOR PROJECT STRUCTION MEETING
	PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY MOUSINE OF THE PERSON OF 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 THEER ARE SIGNIFICANT PENALTIES FOR SUBMITTING FAUSE INFORMATION, INCLIDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWNING VIOLATIONS.			ONMENTAL PERMITS PERMIT	EXPIRATION
		PERMIT TDEC ARAP	YES OR NO	OR TRACKING NO.	DATE*
mork.dgn	A Ogra- Githorized TWO PERSONNEL SIGNATURE (3.3.1)	CORPS OF ENGINEERS (USACE)			
ir for Note	JIM OZMENT PRINTED NAME	TVA 26A			
SWPPP Borde	ENVIRONMENTAL DIVISION DIRECTOR TITLE 11/28/2016	TDEC CGP			
5.00\SWPP\	DATE	OTHER:			
Snowers/Region Niklane County/PM IB49	15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6) I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWYPP REFERENCED ABOVE BASED ON MY INQURY OF THE CONSTRUCTION SITE OWNER/DEVELOPER DENTIFIED ABOVE MOUNT OF THE CONSTRUCTION SITE OWNER/DEVELOPER DENTIFIED ABOVE ASSEMBLING THIS NOT AND SWYPP. I SELEVE THE INFORMATION SUBBITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE- DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPOES PERMIT NUMBER TWIN100000, AND THAT CERTIAN OF MY ACTIVITIES ON-SITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, NCLUDING THE POSSIBILITY OF FINE AND IMPRISOMMENT FOR RNOWING VICALIDIS. AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS.	*THE TDOT ENVI TO PERMIT EXF	RONMENTAL DIV	ISION MUST BE NOTIFIED	SIX MONTHS PRIOR
Mory	AUTHORIZED OPERATOR (CONTRACTOR) SIGNATURE (3.3.1)				
ě					
and Nemos	PRINTED NAME				
s Letters and Memos	PRINTED NAME TITLE				

STATE OF TEMMESSEE DEPARTMENT OF TRANSPORTATION

TYPE YEAR PROJECT NO.

CONST. 2016 73017-4225-04

P.E. 2016 73017-4223-04

	TENNESSEE (DESIGN DIV	
•			

4.2.2 OUTFALL TABLE (3.5.1.d, 5.4.1.f)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 (P1) DRAINAGE AREA (AC)	STAGE 2 (P2) DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING NATURAL RESOURCE NAME OR LABEL	COMMENTS
1	Out-1		LT	2.2	0.42		N/A	STR-1	
1	Out-2		LT	2.5	0.33		N/A	STR-1	
1	Out-3		RT	4.3	0.31		N/A	STR-1	
1	Out-4		RT	3.1	0.37		N/A	STR-1	
2	Out-1		LT	3.3		0.20	N/A	STR-1	
2	Out-5		RT	3.1		0.30	N/A	STR-1	

^{*} SEE COMMENTS SECTION FOR ADDITIONAL INFORMATION REGARDING DRAINAGE AREA.

STATE OF TENNESSEE DEPARTMENT OF TRAMSPORTATION

TYPE YEAR

CONST. 2016

PROJECT NO.

73017-4225-04 P.E. 2016 73017-4223-04

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE.

INDEX OF SHEETS
SEE SHEET 1A FOR INDEX

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

 TENN.
 2016
 1

 FED. A1D PROJ. NO.
 1

 state PROJ. NO.
 73017-4225-04

 S.R.95
 ROANE CO.

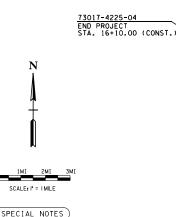
ROANE COUNTY

S.R.95: CULVERT OVER BEAR CREEK, L.M. 4.19

GRADE, DRAIN, BASE, PAVE, GUARDRAIL, AND BRIDGE EXTENSION

STATE HIGHWAY NO. 95 F.A.H.S. NO. N/A





PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

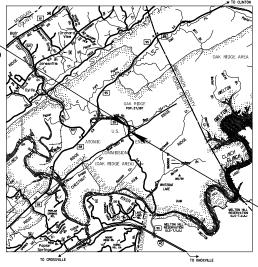
THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1,2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT ROAD C.E.MANAGER 1 ERIC WILSON, P.E.

DESIGNER MICHAEL W. RUSSELL, P.E. CHECKED BY: JAY MORGAN, P.E.

P.E. NO. 73017-4223-04 (DESIGN)

PIN NO.118495.00



ROADWAY LENGTH BRIDGE LENGTH BOX BRIDGE LENGTH PROJECT LENGTH 0.098 MILES 0.000 MILES 0.004 MILES 0.102 MILES 73017-4225-04
BEGIN PROJECT
STA. 10+70.00 (CONST.)

NO EXCLUSIONS

NO EQUATIONS



U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

DATE

DIVISION ADMINISTRATOR

APPROVED:

UNOFFICIAL

SET

INDEX

STANDARD BRIDGE DRAWINGS

SHEET NAME	SHEET NO.	DWG. NO	REV.	DESCRIPTION
TITLE SHEET	1	BRIDGE A	PPURTEN	ANCES ENGLISH (LRFD BOX CULVERTS)
INDEX AND STANDARD DRAWINGS	1A	STD-10-1	04-08-05	MISCELLANECUS ABUTMENT AND DRAINAGE DETAILS
PROJECT COMMITMENTS	1B	STD-17-1		INDEX OF DRAWINGS
ESTIMATED ROADWAY QUANTITIES	2	STD-17-2		TERMINOLOGY
TYPICAL SECTIONS & PAVEMENT SCHEDULE	2A	STD-17-3		GENERAL NOTES
GENERAL NOTES	2B-2C	STD-17-4		DESIGN SECTION LIMITS
SPECIAL NOTES AND SCOPE OF WORK	2D	STD-17-5		TYPICAL SECTIONS AND DETAILS
TABULATED QUANTITIES	2E	STD-17-6		TYPICAL ELEVATIONS
R.O.W. ACQUISITION TABLE, UTILITY NOTES, & UTILITY OWNER	tS3	STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS
PRESENT LAYOUT	4			THAN 45 DEG
PROPOSED LAYOUT	4A	STD-17-9		INTERIOR WALL END TREATMENTS
PROFILE	4B	STD-17-10		TYPICAL WINGWALL END TREATMENTS
BOX BRIDGE CROSS SECTION	5	STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
EROSION PREVENTION AND SEDIMENT CONTROL NOTES	6	STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE	17	STD-17-16		WINGWALL DESIGN SECTION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE	28	STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
TRAFFIC CONTROL PLAN	9	STD-17-18		BACKFILL DETAILS
PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES	9A	STD-17-25		STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE
SOILS SHEETS	10, 10A, 10B			TOP OF SLAB NOT GREATER THAN 3'-6")
ROADWAY CROSS SECTIONS	11-14	STD-17-26		EXTENSION DETAILS
UTILITY INDEX	U-1	STD-17-28		END SECTION DETAILS
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	<s-1< td=""><td>STD-17-75</td><td></td><td>BOX BRIDGE, 2 BARRELS AT 10', CLEAR HTS. 7' - 10', 0 - 60' FILL</td></s-1<>	STD-17-75		BOX BRIDGE, 2 BARRELS AT 10', CLEAR HTS. 7' - 10', 0 - 60' FILL

DWG. NO

STA	NDARD	ROADWAY	DRAWINGS
S. NO	REV.	DESCRIPTION	

ROADWAY	DESIGN	STANDARDS
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-\$-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS

SAFETY DEVICE	S AND FENCES
S-CZ-1	CLEAR ZONE CRITERIA

S-PL-1	SAFETY PLAN AT ROADSIDE HAZARDS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	73017-4225-04	1A
	1		

S.R.95 73017-4225-04 (CONST.)

DESCRIPTION SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE SAFETY PLAN: SAFETY HARDWARE PLACEMENT W-BEAM GUARDRAIL SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS TYPE 38 GUARDRAIL TERMINAL EARTH PAD FOR TYPE 38 TERMINAL DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES INTERCONNECTED PORTABLE BARRIER RAIL DETAIL FOR VERTICAL PANELS AND F-EXIBLE DELNEATORS ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2 08-01-12 SEDIMENT FILTER BAG

EC-STR-37 03-10-14 SEDIMENT TUBE

ENDS

DWG. NO REV.

D2-08-16

12-01-14

11-03-14

TRAFFIC CONTROL DESIGN

07-24-14

07-24-14

01-30-15

06-30-09

11-01-11

04-02-12

S-PL-3

S-PL-6

S-GR31-1

S-GRS-2

S-GRT-2

S-GRT-2P

T-M-1

T-M-2

T-M-15A

T-PBR-1

T-PBR-2

T-WZ-10

EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	D8-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-25	D8-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
FC-STR-30A	01-01-10	INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-34	08-01-12	ERCSION CONTROL BLANKET FOR SLOPE INSTALLATION

UNOFFICIAL NOT FOR BIDDING

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DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

	160	PROJECT COMMITMENTS	1.54
COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHZ001	ENVRONMENTAL (HAZARDOUS MATERIALS)	AN ARES IOS LOVINIMINS IM IEROAL RUMIN SURVEY TWAS CURLUC LEU ON BRIDGE NO. 738/8950001, 87-85 OVER BEAR CREEK, I.M. 4.19 (738/8964-19). NO ACIM WAS DETECTIED, NO SPECOIL ACCOMODATIONS FOR DEMOLITION AND WASTE DISPOSAL ARE ANTICIPATED FOR THESE S INTUINES AND THE MATERIAL CAN BE DEPOSITED IN A CSD LANDFILL PRIOR TO THE DEMOLITION OR REHABULITATION. OF ANY STRUCTURE REPOSITED OF BULLIONG, THE THOMAS OF THE ADMINISTRATION OF THE PROPERTY OF THE DEMOLITION OF THE PROPERTY OF THE STRUCTURE REPOSITED OF THE PROPERTY OF THE STRUCTURE REPOSITED OF THE PROPERTY OF THE THE THE CONTISION OF AIR POLILITION CONTROL (STANDARD SPECIFICATIONS) FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015) SECTIONS 107.08 D AND 202.03).	BRIDGE NO. 73SR0950001, SR-95 OVER BEAR CREEK, LM 4.19 (73- SR095-4.19)
EDHZ002	ENVIRONMENTAL (HAZARDOUS MATERIALS)	BEAR CREEK S LISTED BY TDEC FOR CHEMICAL CONTAMINANTS (INTRALERINING FROM INTL SITES), ASSUMING 1HS MEANS THE WATER UNITS SINCE SEDIMENTS ARE NOT LISTED. F WORK IN THE STREAM IS REQUIRED, TOOT EMPLOYEES MUST USE THE SITE THALTH AND SAFETT FLAN DEVELOPED FOR THIS SITE. CONTRACTORS MUST ENSURE THEIR EMPLOYEES HAVE A SITE HEALTH AND SAFETY PLAN FOR THIS SITE.	BEAR CREEK
EDEC001	ENVIRONMENTAL (ECOLOGY)	THE TENNESSEE DACE (CHROSOMUS TENNESSEENSIS) HAS BEEN RECORDED IN BEAR CREEK AND SEVERAL TRIBUTARY STREAMS IN THE PROJECT AREA TO AVOID AUVORAD MENATIS TO THIS SPECIES. TWINS HAS REQUESTED THAT SWEEDS FOR THIS SPECIES BE CONDUCTED PRIOR TC ANY IN-STREAM WORK AND ANY INDIVIDUALS COLLECTED BE RELOCATED OUTSIDE THE PROJECT IMPACT AREA.	BEAR CREEK AND SEVERAL TRIBUTARY STREAMS IN THE PROJECT AREA

TYPE YEAR PROJECT NO. SHEET NO. CONST. 2016 73017-4225-04 1B

S.R.95 73017-4225-04 (CONST.)

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

		ESTIMATED ROADWAY QUANTITI	ES	
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES, AND GRADES	LS	1
(9)	203-30.01	ROADWAY APPROACHES	L.S.	- 1
0	204-08	FOUNDATION FILL MATERIAL	C.Y.	52
	209-05	SEDIMENT REMOVAL	C.Y.	21
(14)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1080
0	209-00.00	ENHANCED ROCK CHECK DAM	EACH	4
	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	8
-	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	240
(2)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	218
•	303-01.01	GRANULAR BACKFILL	TON	592
(13)	303-10.01	MINERAL AGGREGATE (SIZE #57)	TON	12
(307-01.15	ASC MIX (PG64-22) (BPMLC-HM) GRADING CS	TON	1.6
	403-01	BITUMINOUS MATERIALFOR TACK COAT (TC)	TON	1
	411-01.10	ACS MIX (PG64-22) GRADING D	TON	175
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	M.	0.2
	415-01.02	COLD PLANING OF BITUMINOUS PAVEMENT	S.Y.	1440
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	144
(12)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	23,675
	705-01.04	GUARDRAIL, METAL BEAM GUARD FENCE	L.F.	46
	705 02.02	GINGLE CUARDRAIL (TYPE 2)	L.F.	622
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	4
(10)	705-08.50	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-2	EACH	2
	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	86
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	400
9	/12-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	100
(3)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	50
0	712-01	TRAFFIC CONTROL	LS	1
(6)	712-06	SIGNS (CONSTRUCTION)	S.F.	384
0	712-09.30	REMOVABLE BLACK-OUT TAPE (6")	L.F.	1620
	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EA.	20
	716-01.21	ŠNOWFLOWABLE MARKERS (BI-DIR)/1 COLOR)	EACH	8
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	M.	1
(7)	716-13.01	SPRAY THERMO PVMT MRKNG (60 MIL) (4 IN LINE)	M.	1
	717-01	MOBILIZATION	LS	1
(8)	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	234
	740-10.04	GEOTEXTILE (TYPE IV) (STABILIZATION)	S.Y.	713
-	740-11.03	TEMPORARY SEDIMENT TUBE 18 IN	L.F.	160
	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	3.840

SEE SUBSECTION 209-07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
 ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE T.D.D.T. OPERATION DISTRICT ENGINEER.

INCLUDE 100 TONS FOR MANTENANCE OF TRAFFIC.

TO BE INCREASED OR DECFEASED AS DIRECTED 3Y THE T.D.O.T. OPERATIONS SUPERVISOR. FOR RIP-RAP APRON AT BRIDGE END.

FOR TEMPORARY CONSTRUCTION EXITS.

SEE SHEET 9 FOR CONSTRUCTION SIGN LOCATIONS.

THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC.
PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR

THERMOPLASTIC.
INCLUDES 86 S.Y. FOR TEMFORARY CONSTRUCTION EXIT AND 148 S.Y. FOR THE INSTREAM

TEMPORARY DIVERSION CHANNEL

MCLUDES 14 C.Y. OF ROAD AND DRAINAGE EXCAVATION FOR TEMPORARY CONSTRUCTION EXITS.
THAI RIFM SHALL IF A PORTABLE FRIERCY ARSORAING TERLINAL MEFTING THE RECUIREMENTS
OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD GUARD, A REACT 350, OR A TRACC.
THE PAY TIEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN IN THE

MANUFACTURER'S DRAWING.

TO BE USED WITHGRADED SOLID ROCK.

TO INCLUDE ANY EPOXY BARS.
TO BE USED WITH SEDIMENT FILTER BAG.

INCLUDES 174 L.F. FOR SEDMENT FILTER BAGS.

ALL COSTS OF THESE ESTIMATED QUANTITIES TO BE INCLUDED IN PRICE BID FOR ROADWAY APPROACHES ITEM NO. 203-30.01 CLEARING & ROAD & DRAIN BORROW WATER CHANNEL PLACING & SEEDING TEMPORARY BORROW WATER SPREADING W/MULCH SEEDING GRUBBING EXC. (UNCL.) EXCAVATION EXCAVATION EXC. SEEDING (UNCL.) TOPSOIL (GRADED (WITH 9 SOLID SODDING MULCH) ROCK) C.Y. UNITS 774 1085 14 216 69 69 11

NOTE: NO CHANGE IN COMPENSATION WILL BE MADE FOR NORMAL VARIATIONS IN ESTIMATED QUANTITIES.

TYPE YEAR PROJECT NO. SMEET NO. CONST. 2016 73017-4225-04 2

S.R.95 ROANE CO. 73017-4225-04 (CONST.) ROANE CO. 08-09-16 MODIFIED QUANTITIES ITEM NUMBERS 209-65.04 AND 411-12.02.

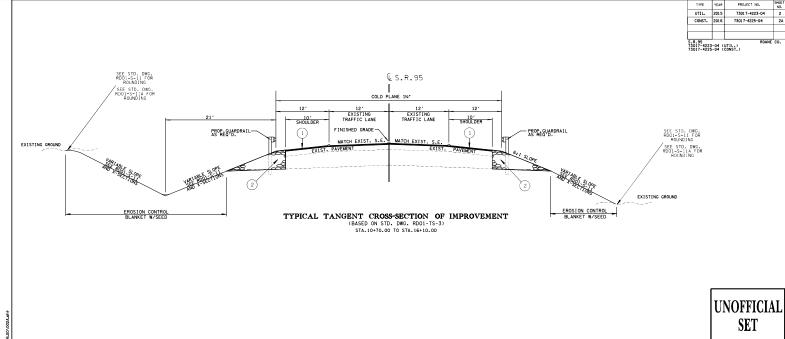
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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

1



PROPOSED PAVEMENT SCHEDULE

ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 14" THICK (APPROX. 132.5 LBS/SO.YD.)

BITUMINOUS MATERIAL FOR TACK COAT (TC)

ACS MIX (PG64-22) GRADING "D"

(RATE 0.10 GAL./S.Y.)

411-01.10

403-01

MINERAL AGGREGATE BASE @ 8" (ROADWAY)

303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"





2



DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS PAVEMENT SCHEDULE

GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (3) THE CONTRACTOR SHALL NOT DSPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W IN A REGULATORY FLOOD WAY SO EITHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND, NOW-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL STATE OR LOCAL JGENCY.

SEEDING AND SODDING

(4) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL RI ANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE BRIGINEER.

GUARDRAIL

(5) THE PROPOSED GUARDRAIL INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY FAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS. UNTIL IT IS COMPLETE IN PLACE.

DRAINAGE

- (6) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN HE COST OF OTHER TIEMS.
- (7) CULVERT EXCAVATION FOR CONCRETE BOX BRIDGE EXTENSIONS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (8) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-30.1 ROADWAY APPROACHES.
- (9) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST AGEOGNATED WITH MAINTAINING THE FLOW OF WATER AND THAFFIG, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

MISCELLANEOUS

- (10) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAIL BOXES WHERE AND AS DIRECTED BY THE ENGINEER.
- (11) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

PAVEMENT MARKINGS

- (1.2) IEMPURANT PAVEMENT LINE MANCHINGS UN IN I EMPLUIA IE LATERS OP PAVEMENT SHALE BE REFLECTIVE TAPE OF REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO, 716-13.01, SPRAY THERNO PUNTI MERKING GOM ILL/ (4 IN LINE).
- (13) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATUNE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT EE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAUP FOR MARKINGS WILL BE MEASURED AND PAUP FOR MARKINGS WILL BE MEASURED AND PAUP FOR STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED THE PERMANENT STANDARDS AT THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED FOR THE PERMANENT STANDARDS AT THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED FOR THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(*4) THE PAYEMENT MARKING ON THE LANE SHIFT FOR CENTERLINE. EDGELIES AND LANE LINES WILL BE INSTALLED AND MAITAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. HESE MARKINGS SHALL BE INPLACE PRIOR TO ALLOWING MEASURED AND PAID FOR UNDER ITEM NO 716-13.01. SPRAY THERMOPLASTIC PAYEMENT MARKING (SO III.) AIN LINES.

PAVINO

(15) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MITERIAL IS COMPINED. THE END GATE AND EXTRUCES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSULDATED WEDGE-SHAPE PAVERNIFFEDGE OF APPROXIMETELY 55 TO 30 DEGREES AS IT LEAVES THE PAVER MEASURED FROM A LINE PARALLEL TO THE PAVENET SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SE* FORTH IN SPECIAL PROVISION 4795E.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (16) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (+8) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (17) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL INNEEDED SIGNS AS DIRECTED BY THE ENGINEER COSTS OF REMOVAL. COVERING AND REINSTALLING S GANS SHALL NOT SE MEASURED AND PAID FOR SEPARATELY BUT ALL COSTS SHALL SE INCLUDED IN THE ORIGINAL UNIT PRICE BIT FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SOURCE FOOT.
- (18) A LONGTERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE ISPULLY COVERED.
- (19) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (20) USE OFBARRICADES, PORTABLE BARRIER FAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIAE AREAS OF CONSTICUTION WHEREA HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDDE OF THE THE AVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY THE AVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY THE AVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY THE AVELED BY THE AVELED WAY BEFORE OR AFTER USE WITH CURRENT AND TATS LESS THAN 1500 AND DESIGNS PEED OF LESS THAN 600 MPH. THIS DISTANCE SHALL INDREASE TO FORTLY FUE (45) FEET FOR ROADWAYS WITH CURRENT HAS TOSK OF SOME OR GREATER AND DESIGNS SPEED OF BORDAY SHALL INDREASE OF THE AVEL OF THE AVEL
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY '30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIG UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 DR GREATER AND DESIGN SPEED OF 60 MPH OK GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE S INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK. THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND DECLIEST THE ENGINEED'S ADDROVAL TO USE THEM
- (22) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTRCL DEVICES.

EROSION PREVENTION AND SEDIMENT CONTROL NATURAL RESOURCES

- (1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATEUS. SPES MEASURES TO PROTECT WITHOUT ALREADY MOVINGES AND WATER OLM ITY SHALL BEHABNITAMED THROUGHOLD THE CONSTRUCTION HAS BEEN ALLEADY OF THE PROPERTY OF THE PROTECTION OF THE PROPERTY BASE OF ALL FILLS AND CUTS. ON THE DOWNHILL SIDE OF STOCKINLED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WELTANDS OR OTHER VATURAL FEATURES IN ACCORDANCE WITH TOOT STANDARDS EPSS MEASURES EXTERDITE WORTH OF THE AREA TO SEE CLEARED. AND SAKED, AND EXTERDITE WORTH OF THE AREA TO BE CLEARED.
- NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE FXISTING AND/OR TEMPORARY CHANNEL.
- (3) INSTREAM EPSC DEVICES REQUIRE THE TDCT ENVIRONMENTAL DIVISION, PERMITSSECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (4) THE OPERATION OF EQUIPIENT IN WATERS OF THE STATELUS, INCLIDING WETLANGS AND EPHEMERAL, INTERMITENT, AND PERENNIAL STREAMS, SHALL BE ONLY AS DEPICTED ON THE CONSTRUCTION PLANS ANDIOR AS SO SPECEFIED IN THE WATER QUALITY PERMITS, IF APPLICABLE, MODIFICATION OF THE TOOT RESPONSIBLE PARTY AS SOON AS POSSIBLE. ADDITIONAL PERMITS REQUIRED BY THE CONTRACTORS HE INDIO OF OBTAIN A PROPERTY OF THE TOOT OF TOO THE TOOT OF TOO THE TOOT OF TOOT OF THE TOOT OF TOOT OF TOOT OF TOOT OF THE TOOT OF TO
- (5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL DE LIMITED TO THE MINIMUM NECEGOARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- STREAM REDS SHALL NOT RE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS, OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS, ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY. PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- (7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OF OHER NEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND THEM SHITLED AFTER THE WORK IS COMPLETED AND APPECTED AFTER SHOULD BE RETURNED FOR PRE-EMISTING CONDITIONS.
- (8) WETLANDS SHALL NOT BE JSED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, INITESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- (9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFOREALL CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOTIFIED ACTIVITIES OF FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOTIFIED ACTIVITIES DE MORE DOT TO THE UNIVERSITY OF AN CONTRACTION OF TO THE MEYER DE MORE DATE OF THE TO THE T

TYPE YEAR PROJECT NO. SMEET NO. CONST. 2016 73017-4225-04 28

S.R.95 73017-4225-04 (CONST.)

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STATE OF TEMMESSEE DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.

INSPECTION, MAINTENANCE & REPAIR

REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEETS (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

PERMITS, PLANS & RECORDS

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TIDEC NIPLES FERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TOOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS. THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT. SHALL BE BROUGHT TO THE ATTENTION OF THE TOOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL
- IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TOOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TOOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS
- ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE, ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM DECOMING A POLLUTANT COURCE FOR STORMWATER DIGOLARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS
- CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS

- (11) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEMOR STORMWATER TREATMENT SYSTEM.
- IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF
- ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL
- OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW, IF ALLOWED, NATURAL VEGETATION, "REES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING. DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO
- MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.
- WASTE MATERIAL (EARTH, ROCK, ASPHALT CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR, IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE, IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 28A PERMITS TO DISPOSE OF WASTE MATERIALS.

SUPPORT ACTIVITIES

MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TOOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

PROJECT NO. CONST. 2016 73017-4225-04 20

TYPE

S.R.95 73017-4225-04 (CONST.)

NOT FOR

BIDDING



STATE OF TENNESSES DEPARTMENT OF TRANSPORTATION

GENERAL

GRADING

- THE GRADING TABULATIONS AND RESULTING FARTHWORK ASSOCIATED. BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION
- BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BCRING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.
- TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD. NASHVILLE THOR AT THE TROT REGION 1 BLILLDING IN KNOVVILLE TH
- THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS LITILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE NADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY 3ECTION 104.02 IN THE CURRENT EDITION OF THE 3TANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

- THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR
- ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

STAFF FROM THE TOOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS

ECOLOGY

STAFF FROM THE TOOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.

- STAFF FROM THE TOOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.
- ALL DROJECTS WITH LEGALLY PROTECTED SPECIES OR ORITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES INPLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS, THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

PROJECT COMMITMENTS

SEE PROJECT COMMITMENTS, SHEET 1B, FOR CETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT

SPECIAL NOTES

STREAMS, WETLANDS & BUFFER ZONES

FOR TEMPORARY WETLAND IMPAOT AREAD, REMOVE THE FOR TWELVE (12") OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED. RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS, THIS INCLUDES REMOVING HAUL ROADS (IF APPLICABLE). RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED ACCORDING TO OTANDARD PRACTICES.

SCOPE OF WORK

- (15) THIS PROJECT INCLUDES THE CONSTRUCTION OF 2(0) 10' X 8' BOX BRIDGE EXTENSIONS ON S.R. 95 AT BEAR CREEK.
- THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE, AND PAVEMENT FOR S.R. 95 TO LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS, PLAN, AND PROFILE SHEETS OR AS DIFECTED BY THE T.D.O.T. OPERATIONS DISTRICT SUPERVISOR.
- THIS PROJECT INCLUDES THE CONSTRUCTION OF ALL DITCHES. GUARDRAIL. APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL DEVICES, SEEDING, PAVEMENT MARKINGS INSTALLATION OF TRAFFIC CONTROL DEVICES AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. CPERATIONS SUPERVISOR

TYPE YEAR PROJECT NO. 2016 73017-4225-04 20

ROANE CO. 73017-4225-04 (CONST.)

> NOT FOR BIDDING



STATE OF TENNESSES DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES AND

SCOPE OF WORK

	TYPE	YEAR	PROJECT NO.	SHEET NO.
Ì	CONST.	2016	7301 7-4225-04	2E
ı				
ı				
	S.R.95 73017-422	5-04	(CONST.)	E CO.

						BOX I	BRIDGE T	ABULATI	ON			
	1		16	HT LENGTH	SKEW	DRAINAGE	BOX BRIDGE			FOUNDATION	GRANULAR	1.84
STATION	LOCATION						CLASS "A" CONC. (C.Y.)	REINF. STEEL (LBS.)	DRAWING NO.	FILL MATERIAL (C.Y.)	BAC <fill (TON)</fill 	COMMENT
13+24	SR-95; L.M. 4.19	2 @ 10'	8	25.2	90	4.0	144	23,675	STD-17-26 STD-17-75	52	592	EXTENSION LT. & RT
TOTALS				-			144.0	23.675		52	592	

	ESTIMATED GRADI	NG QUANT	ITIES		
Zari ta Dalahir, mina ing Karingti	ROAD & DRAINAGE EXC. (UNCL.)	BORROV	EXCAVATION	EMBANKMENT	TOPSOIL
STATION TO STATION	COMMON (C.Y.)	UNCL. (C.Y.)	S. ROCK (TONS)	(C.Y.)	(C.Y.)
STA. 10+70 TO STA. 16+10	273	774	615	791	216
TOTALS	273	774	615	791	216

				PI	ROPOSE	D GUARDRA	IL			
SHEET						GUAR	DRAIL	END TREATMENT		
SHEET	LOCATION	SI	DE	STATION		METAL FENCE	SINGLE TYPE	TYPE 38	REMARKS	
NO.						705-01.04	705-02.02	705-04.07		
		LEFT	RIGHT	FROM	ТО	(L.F.)	(L.F.)	(EACH)		
4A	SR-95	Х		11+72	15+06	23.19	311	2		
4A	SR-95		X	11+72	15+06	23.19	311	2		
TOTALS						46	622	4		







TABULATED QUANTITIES

- 2

U. S. ATOMIC ENERGY COMMISSION

30

S19

777

10221.700 10221.700

PROJECT NO.

73017-4225-04

TABLE.

& UTILITY OWNERS

10221.700

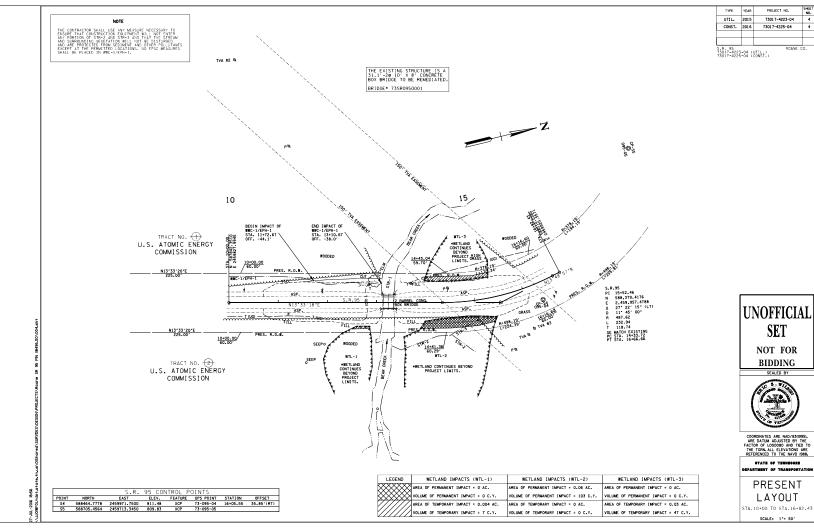
73017-4223-04

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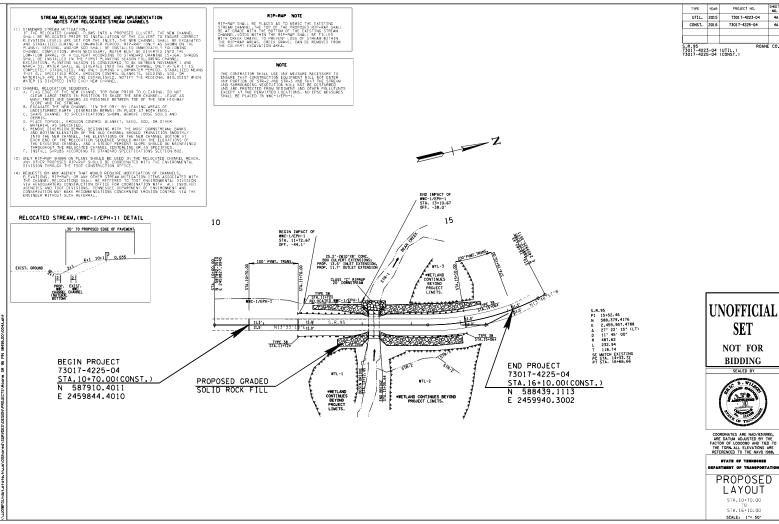
3 ROANE CO.

TYPE UTIL.

2015



ROANE CO.



73017-4223-04 44 73017-4225-04 ROANE CO.

SET NOT FOR BIDDING SEALED BY



COORDINATES ARE NAD/83/1995), ARE DATUM ADJUSTED BY THE FACTOR OF LODOCOSO AND TED TO THE TORN ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.10+70.00

				PE YEAR PR TIL. 2015 730
				NST. 2016 7301
			S.R.	95
			7301	95 7-4223-04 (UTIL.) 7-4225-04 (CONST.
		EXC. (UNCLASSIFIED) 273 C.Y. (INCLUDES 35 C.Y. TOPSOIL FROM EXC. AREAS AND 181 C.Y. TOPSOIL FROM EMB. AREAS)		
		EMB. (UNCLASSIFIED) 791 C.Y. (INCLUDES 89 C.Y. TO REPLACE STRIPPED TOPSOLL)		
		CMC- (86RnOW) 774-C;Y;		
850		EMB. (GRADED SOLID ROCK) 615 C.Y. (1085 TOMS) SHRINKAGE 5%	850	
030				
845	DECIN DROJECT	THE ROOTER	845	
	BEGIN PROJECT 73017-4225-04	END FROJECT		
840	STA. 10+70.00(C	IST.)) 840	
835		STATION 13-24e STATION 13-24e STATION STATIO	835	
		STATION 13-04 10-7 xt COMC. BOX BRIDGE (31.1") EX ST.		
830		DRAINGE DRAI	830	
005		DATE 90	825	
825		OUTLET GENEVATION MARKETS CLASS AF CONCRETE CLASS AF CONCRETE TELL SAF REPORTED 23, 495 E.S. FOUNDATION FILL MARKETS 52, CV, Y, FOUNDATION FILL MARKETS 52, CV, Y,	625	UNO
820			820	S
		05: STA 84:19 GB 9: 05		NO
815			815	BII
810		1 1 1 1 1 1 1 1 1 1	810	SE
		Rugo GRAPHI GRADE EXISTING GROUND		1 130
805			805	1 1/3/2
		THE FUTURE HIGHWATER WATER ELEV. 803.08		100
800			800	
795		100 1000 1000 1000 1000 1000 1000 1000	795	
		NOTE PROPOSED GRADES TO		DEPARTMENT
790		FOLLOW EXISTING GRADES.	790	PRC
705			785	STA.
785		10+00 11+00 12+00 13+00 14+00 15+00 16+00	1 0 0 1 0 0 0 1 0 0 0 1 0 0 0	STA. SCALE:

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																									TIL.		7301 7-4223- 301 7-4225-0	
																									M31.	2016	3011-4225-0	4
																								5.R.5	95	_	RO	ANE CO.
																								7301	7-4223 7-4225	-04 (UTIL -04 (CONS	T.)	
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780									7.28.38	1.795.20 17.31			EXISTING JNV.EL.795.40 OFFSET 13.75		INV.EL.795.49 OFFSET 27.28													780
50									#II	INV.EL			EX1ST OFF SE		OFF SE													1 80
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									DES	IGN DISC IGN DISC RTOPPING HEADWAT D HEADWA	HARGE (0500)	1610 806.	CFS														
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									FOU	NDATION	FILL MA	TERTAL	52.0	C.Y.														
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EROSION PREVENTION AND SEDIMENT CONTROL NOTES STREAMS, WETLANDS & BUFFER ZONES

(1) ANY WORK WITHIN THE STREM CHANNEL AREA (E.G., PIER FOOTING, RIP-RACEMENT, GLUVERIBRIDGE CONSTRUCTION, ETC., SHALL BE REACEMENT, GLUVERIBRIDGE CONSTRUCTION, ETC., SHALL BE PERFORMED DURING LOW 3-COW CONDITIONS. ALL TERMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW). UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PLAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER TIEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS (EC. STR. 31) AND I EMPORARY DIVERSION CLIVERT CONSTRUCTION.

ENVIRONMENTAL

(1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, LXCAVATION, GRADING, CUTTING OR FILLING OPERATION; OR ON THE TOTAL AREA OF EXPOSED SOIL.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

	SEDIMENT CONTROL QUANTIT	ILO	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-05	SEDIMENT REMOVAL	C.Y.	21
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	LF	1080
209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	8
209-65.14	TEMPORARY IN STREAM DIVERSION	L.F.	240
303-10.01	MINERAL AGG. (SIZE#57) FOR SEDIMENT MIL.	TON	12

TYPE YEAR PROJECT NO. SMEET NO. UTIL. 2015 73017-4223-04 6
CONST. 2016 73017-4225-04 6

ROANE CO.

S.R.95 73017-4223-04 (UTIL.) 73017-4225-04 (CONST.)

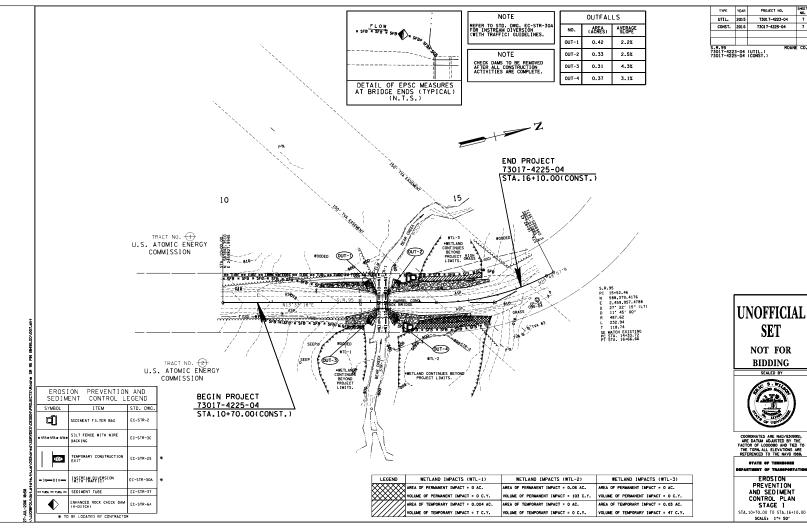
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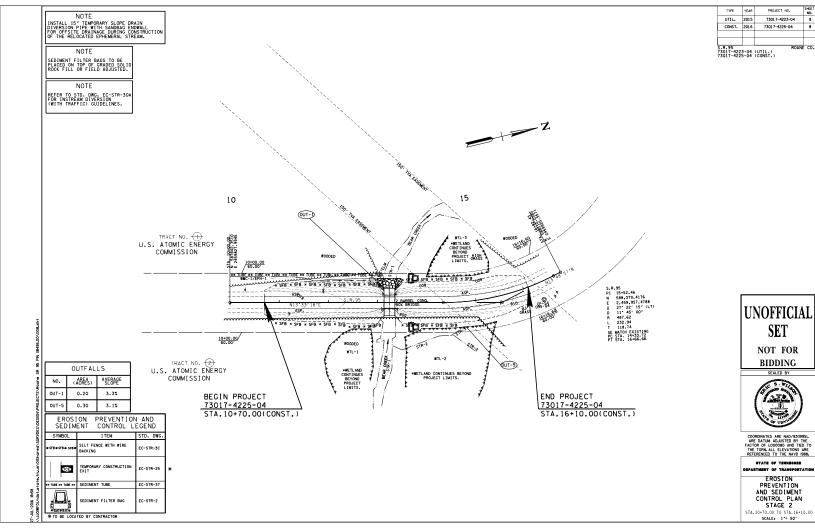
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BIDDING

STATE OF TEMMESSEE DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
AND SEDIMENT
CONTROL NOTES







THE CONSTRUCTION SIGNING PLANS ARE TO SERVE AS A GUIDE ONLY.
OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION. THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE MITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS. 2 FLAGS ARE TO BE MOUNTED ON ALL ROAD WORK ADVANCE WARNING SIGNS. FLAGS ARE TO BE 18"X18" AND FLOURESCENT RED-ORANGE IN COLOR. COST OF FLAGS IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

ALL CONSTRUCTION SIGNS ON S.R. 95 AND BEAR CREEK ROAD SHALL BE COVERED WHEN MORK WILL NOT BE AFFECTING TRAFFIC, COST OF COMERING VANCOVERING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COST SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 1712-06, SIGNS CONSTRUCTION/PER SQUARE FOOL

ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE TDOT OPERATIONS ENGINEER.



SIGNS SHOWN ABOVE ARE TO BE USED WHEN CONSTRUCTION OPERATIONS WARRANT. TO BE USED AS DIRECTED BY THE TDOT OPERATIONS

ENGINEER.

CONSTRUCTION SIGN TABULATION ITEM NO. 712-06 NO. TYPE SIZE QUANTITY (S.F.) G20-2 48" X 48" W4-2L 48" X 48" 32 W8-9a 48" X 48" 32 W8-11 48" X 48" 32 W20-1 48" X 48" W20-5L 48" X 48" 32 W20-7a 48" X 48" 32 TOTAL 320

SYMBOL	1 TEM
a FI	
	EXIBLE DRUMS (CHANNELIZING)
▶ S:	(GN (CONSTRUCTION)
	ORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	EMPORARY ATTENUATOR

W20-1

YEAR PROJECT NO. TYPE 73017-4225-04 9 ROANE CO. S.R.95 73017-4225-04 (CONST.)

END ROAD WORK

STA.10+70.00(CONST.) 10 G20-2 (WHITE WING ROAD) END PROJECT 73017-4225-04 W20-1 STA.16+10.00(CONST.) /w20-1 PHASE 1 PHASE 2 € S.R.95 MAINTAIN | TRAFFIC MAINTAIN TRAFF10 WORK ZONE ROADWAY SECTION ROADWAY SECTION £ S.R.95 TRAFFIC MAINTAIN WORK ZON

BEGIN PROJECT

73017-4225-04

SET NOT FOR BIDDING

UNOFFICIAL



DEPARTMENT OF TRANSPORTATION TRAFFIC

STA.10+70.00 TO STA.16+ SCALE: 1"=100"

CONSTRUCT WEST EXTENSION OF BRIDGE AND ROADWAY APPROACH SHOULDERS; MAINTAIN TRAFFIC ON EASTERN EXISTING PORTION OF BRIDGE AND APPROACH.

BRIDGE SECTION

STRUCTURE

CONSTRUCT EAST EXTENSION OF BRIDGE AND ROADWAY APPROACH SHOULDERS: MAINTAIN TRAFFIC ON WESTERN EXISTING PORTION OF BRIDGE AND APPROACH

EXISTING

STRUCTURE

BRIDGE SECTION

- A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:
 - DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES.
 - a WARNING SIGNS, UNEVEN LANES (WB-11) ANDOR SHOULDER DROP-OFF WITH PALOBY (WF-17 AND WB-17), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA, MAXIMUM PACING BETWEEN SIGNS SHALL BE 2.000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA, WHERE UREVEN SIDE OF THE ROADWAY.
 - DIFFERENCES IN FLEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAYEMENT SHALL BE ELIMINATED WITHIN THEE WORKDAYS.
 - c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
 - WHEN THE DIFFERENCE IN ELEVATION IS RETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.
 - DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.
 - SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOIL OWING:
 - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED
 - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR CR 50 FEET, WHICHEVER SPACING IS GREATER.
 - b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DOCINCAGE TO 2 INDICE ON LOCAD 97 THE LOW DOT CAGE IN WORKDAY, COMES MAY BE USED DURING DAY LIGHT HOURS IN LIGHT HOURS IN LIGHT ENDERGY THE CONTROL OF THE PROPERTY OF THE SHORE OF THE PROPERTY OF THE SHORE OF TH
 - C. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LAME AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY LISE WARRING SIGNAS AND/OS PROTFETTIVE DEVICES AS APPLICABLE AND APPOVED BY THE ENGINEER. SEE PARAGRAPH A RECARDING USE OF DRIVING, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEL NAISS AND/OS SHOULDER DRO-OFF) WILL BE FLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MANUMIN SPACKIOS ENTIVEN SIGNS SHALL BE 200 WHERE UNEVEN PAYAMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON BACH SIGN OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HS OPERATIONS TO ONE WORK ZORE NOT EXCEEDING 2 MLES IN LENGTH UNLESS OTHERWISE NOTEO ON THE PLANS OR APPROVED BY THE PIGNISHE CHOCK THE CONTRACTOR BEGINS WORK IN WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELECTION IS ELIMINATED OF THE PROPERTY OF THE PIGNISHE STATION OF THE PIGNISHE AND A PROPERTY OF THE PIGNISHE STATION OF WORK ZONE ACTIVITY.

- DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:
 - THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
 - WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
 - WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICF THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS OREATED.

- 2. THE CONTRACTOR SHALL PROVIDE DRUNS, BARRICADES OR ATHER ADPROVED SEADATION DEVICES AS SEPCRIBED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE OR FLATTER. TO ELIMINATE THE VERTICAL OFFSETIF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.
- C. THE CONTRACTOR SHALL PROVIDE DRUNS, BARRICADES OR OTHER APPROVED SEPRATION DEVICES AS SPECIFIED IN PARACHAMIA AND IT THE LOWER LELYATION ID DAD COTCH. OR ASPHALT PAYMENT, PLACEMENT OF SUSSICIUSTIL LAYERS OF CONTINUOUSLY UNITL. THE DIFFERENCE IN ELEVATION ELIMINATED OR REDUCED TO SIX INCHES OR LESS.
- THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a. b. AND G. THE CONTRACTOR SHALL USE THE SHOULDER DORPO-FOR WARNING SIGN WITH PLAQUE (WB-17 AND WB-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMMA SPACING BETWEEN THE SIGNS SHALL BE 2.000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL INTHIS HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE BILL ENGINE HOUSE. ONCE THE CONTRACTOR BEALL LINE WORK IN A WORK ZONE. A CONTINUOUS OPERATION SHALL BE WANTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SPRATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED WORK TO MESTER COME.

FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS STILATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS "O ONE WORK ZOONE NOT EXCEEDING! MILE! IN LEROTH UNLESS OTHERMSE NOTED ON THE PLANS OR APPROVED BY THE FNIGHERE ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZOONE, CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTAINEOUS WORK ON SEPARATE ROADWAYS OF DVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZOONE ACTIVITY.

- IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC GAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:
- IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

WARNING SIGNS (UNEVEN LANES ANDIOR SHOULDER DROP-OFF) SHALL BE PLACED IN ADJANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

- IF THE DIFFERENCE IN E.EVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:
 - a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE
 - WHERE POSTED SPEEDS ARE 5) MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED
 - WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR50 FEET, WHICHEVER SPACING IS SPEATER.
- IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6
 - SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES
 OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE
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 - (1) WHERE POSTED SPEEDS ARE 5) MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FFFT
 - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEPT TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET. WHICHEVER SPACING IS SREATER.
- ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TREAFT IS REPORTED TO AN IF INVATION INFERRENCE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES ANELEVATION DIFFERENCE WITHIN 8 PEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

- WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
- WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING ISGREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY OF SHALL BE PUREUED AS A CONTRIBUCUS OPERATIONUTIL THE ELEVATION DIFFERENCE IS ELLIMINATED.

TYPE YEAR PROJECT NO. SMEET NO. CONST. 2016 73017-4225-04 9A

S.R.95 ROANE CO. 73017-4225-04 (CONST.)

> UNOFFICIA SET NOT FOR BIDDING

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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