

STORMWATER
POLLUTION
PREVENTION
PLAN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET NO.	PROJECT NO.	YEAR	TYPE
S-1	PE-47PLM-F0-045	2017	CONST.

LOCATED WITHIN 51 FLOW MILE STATE WATER HABITAT PROJECT LIMITS (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	ETW (YES OR NO)	SLILTATION OR ALTERNATION FOR PARAMETERS UNAVAILABLE (YES OR NO)	NAME OF STATE WATER	TOOT LABEL FROM ERR

RECEIVING WATERS OF THE STATE INFORMATION

4.1.3. RECEIVING WATERS OF THE STATE (3.5.1.k).
 EXCEPTIONAL TENNESSEE WATERS (ETW)
 303d WITH UNAVAILABLE PARAMETERS FOR SLILTATION ALTERNATION
 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION

4.1.2. HAVE ANY OF THE RECEIVING STATE 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 WITH UNAVAILABLE PARAMETERS FOR SLILTATION
 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STRAMS WITHIN THE PROJECT LIMITS? YES NO
 IF YES, THE IMPACT(S) HAS/HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

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

4.1. STEAM INFORMATION (3.5.1j, 3.5.1k).
 4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STRAMS WITHIN THE PROJECT LIMITS? YES NO
 IF YES, THE IMPACT(S) HAS/HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING STATE 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 WITH UNAVAILABLE PARAMETERS FOR SLILTATION
 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION

4.1.3. RECEIVING WATERS OF THE STATE (3.5.1.k).
 EXCEPTIONAL TENNESSEE WATERS (ETW)
 303d WITH UNAVAILABLE PARAMETERS FOR SLILTATION ALTERNATION
 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION

3. **ORDER OF CONSTRUCTION ACTIVITIES** (3.5.1b, 3.5.2a)
 CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR BUILT 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 ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(Ac)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	FACTOR C
PERVIOUS	1.24	56	61	
IMPERVIOUS	0.96	44	98	
WEIGHTED CURVE NUMBER OR C-FACTOR = 77.3				

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS

AREA TYPE	AREA(Ac)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	FACTOR C
PERVIOUS	1.48	67	61	
IMPERVIOUS	0.72	33	98	
WEIGHTED CURVE NUMBER OR C-FACTOR = 73.2				

SOIL PROPERTIES

PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (K value)
DC2, Dewey Silt Loam	B	49.1	0.37
Dd2, Dewey Silt Loam	B	14.1	0.37
Emb, Emory Silt Loam	B	36.8	0.37

2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1g).
 2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? YES NO
 2.11. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? YES NO
 2.12. IF YES TO SECTION 2.12.11, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? YES NO
 2.11. SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

2.6. TOTAL PROJECT AREA (3.5.1c): 2.2 ACRES
 2.7. TOTAL AREA TO BE DISTURBED (3.5.1c): 1.829 ACRES
 2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.
 2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? YES 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
 2.11. SOIL PROPERTIES (3.5.1f) (4.1.1).
 2.12. IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

SWPPP INDEX OF SHEETS

DESCRIPTION

1. SWPPP REQUIREMENTS (3.0)..... 1
 2. SITE DESCRIPTION (3.5.1)..... 1
 3. ORDER OF CONSTRUCTION ACTIVITIES AND SEDIMENT CONTROL (EPSC) MEASURES (3.5.3)..... 1
 4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION..... 1
 5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (3.5.3)..... 2
 6. FLOCCULANTS (3.5.3.1b)..... 3
 7. UTILITY RELOCATION..... 3
 8. MAINTENANCE AND INSPECTION..... 4
 9. SITE ASSESSMENTS (3.1.2)..... 4
 10. STORMWATER MANAGEMENT (3.5.4)..... 5
 11. NON-STORMWATER DISCHARGES (3.5.9)..... 5
 12. SPLIT PREVENTION, MANAGEMENT AND NOTIFICATION (3.5.5.c, 5.1)..... 5
 13. RECORD-KEEPING..... 6
 14. SITE WIDE/PRIMARY PERMITTER CERTIFICATION (7.7.5)..... 7
 15. SECONDARY PERMITTER (OPERATOR) CERTIFICATION (7.7.6)..... 7
 16. ENVIRONMENTAL PERMITS (9.0)..... 7

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

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (3.1.1)?
 YES (CHECK ALL THAT APPLY BELOW) OR NO
 CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
 A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (3.1.1)? YES NO
 IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? YES NO
 1.3. DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (3.4.1)? YES (CHECK ALL THAT APPLY BELOW) NO
 WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SLILTATION OR HABITAT ALTERATION)
 EXCEPTIONAL TENNESSEE WATERS
 1.4. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (3.5.1)?
 CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
 A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

2.1. PROJECT LIMITS (3.5.1.h); REFER TO TITLE SHEET
 2.2. PROJECT DESCRIPTION (3.5.1.a):
 TITLE: Kingston Pike Sidewalk in Farragut
 COUNTY: Knox
 PIN: 106915.00
 2.3. SITE MAP(S) (2.6.2); REFER TO TITLE SHEET
 2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d); REFER TO EXISTING CONTOUR SHEET(S) 12.13, DRAINAGE MAP SHEET(S) 9, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.3.
 2.5. MAJOR SOIL DISTURBING ACTIVITIES (3.5.1.b) (CHECK ALL THAT APPLY):
 CLEARING AND GRUBBING
 EXCAVATION
 CUTTING AND FILLING

STORMWATER POLLUTION PREVENTION PLAN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

- 5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).
- 5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO BANKS (4.1.1).
- 5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (3.5.3.3)?
- 5.4. THE 2-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.h)? YES NO
- 5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- 5.7. 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.

- 4.5. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)
- 4.5.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?
 YES NO
- 4.5.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?
 YES NO
- 4.5.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?
 YES NO
- 4.5.4. IF YES, HAS A SUMMARY OF THE CONSULTATION LETTER BEEN SUBMITTED/RECEIVED?
 YES NO
- 4.4. ECOLOGY INFORMATION (3.5.5.a)
- 4.4.1. DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?
 YES NO
- 4.4.2. IF YES, HAVE THEY BEEN INCLUDED ON PLAN SHEETS?
 YES NO
- 4.4.3. ENVIRONMENTAL COMMITMENTS
WHERE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?
 YES NO
- 4.4.4. IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEETS) _____

WETLAND INFORMATION				
WETLAND LABEL	TDOT FROM STATION	TO STATION	LT OR RT	TEMPORARY IMPACTS (AC)

- 4.4. WETLAND INFORMATION
- 4.4.1. WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? YES NO
- 4.4.2. IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

SHEET NO.	YEAR	TYPE	PROJECT NO.
S-2	2017	CONST.	PE-47PLM-F0-045

- 4.3.1. OUTFALL INFORMATION
- 4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)? YES NO
- 4.3.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE DOCUMENTATION AND PERMITS' BINDER (2.6.2)? YES NO
- 4.3.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?
 YES NO N/A
- 4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN? YES NO N/A
- 4.3.6. A SEDIMENT BASIN OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA.
- 4.3.7. OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 2-YEAR, 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (3.5.3.3) MINIMUM 2-YEAR, 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (3.5.3.3) OR
- 4.3.8. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE, RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEEMING CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.
- 4.3.9. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL

- 4.2.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? YES NO
- 4.2.2. IF YES, ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR WOTUS (EPHEMERAL) DUE TO A USAGE PERMIT?
 YES NO
- 4.2.3. OUTFALL INFORMATION
- 4.2.4. IF YES, MUST BE APPLIED INDEPENDENTLY.
- 4.2.5. 30-FOOT FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE, BUT MUST BE APPLIED INDEPENDENTLY).
- 4.2.6. 60-FOOT FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FOET).
- 4.2.7. A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 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 IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION, IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.
- 4.2.8. A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE PROJECT. 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 IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION, IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.
- 4.2.9. APPLIED INDEPENDENTLY.
- 4.2.10. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARA? (3.0)
- 4.2.11. YES NO
- 4.2.12. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) YES NO
- 4.2.13. IF YES, EXISTING CONDITIONS DESCRIPTION: _____
- 4.2.14. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2)
- 4.2.15. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE, RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEEMING CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

RECEIVING WOTUS (EPHEMERAL) INFORMATION			
TDOT WOTUS LABEL	LOCATED WITHIN PROJECT LIMITS	LOCATED WITHIN 15 FT OF THE PROJECT LIMITS	(YES OR NO)

- 4.2. RECEIVING WATERS OF THE UNITED STATES (WOTUS) (EPHEMERAL)
- 4.2.1. WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WOTUS (EPHEMERAL)? YES NO
- 4.2.2. IF YES, 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 CGP WHERE ISSUED. ARA#401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

TDOT STATE WATER LABEL FROM	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE FLOW MLE WITHIN 51 FT	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	ETW (YES OR NO)	HABITAT ALTERATION (YES OR NO)	SITATION OR ALTERATION (YES OR NO)	PROJECT LIMITS (YES OR NO)

- 4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2)
- 4.1.5. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) YES NO
- 4.1.6. IF YES, EXISTING CONDITIONS DESCRIPTION: _____
- 4.1.7. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2)
- 4.1.8. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE, RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEEMING CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.
- 4.1.9. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL

- 4.1.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? YES NO
- 4.1.2. IF YES, ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR WOTUS (EPHEMERAL) DUE TO A USAGE PERMIT?
 YES NO
- 4.1.3. OUTFALL INFORMATION
- 4.1.4. IF YES, MUST BE APPLIED INDEPENDENTLY.
- 4.1.5. 30-FOOT FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE, BUT MUST BE APPLIED INDEPENDENTLY).
- 4.1.6. 60-FOOT FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FOET).
- 4.1.7. A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 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 IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION, IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.
- 4.1.8. APPLIED INDEPENDENTLY.
- 4.1.9. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARA? (3.0)
- 4.1.10. YES NO
- 4.1.11. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) YES NO
- 4.1.12. IF YES, EXISTING CONDITIONS DESCRIPTION: _____
- 4.1.13. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2)
- 4.1.14. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE, RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEEMING CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

RECEIVING WATERS OF THE STATE INFORMATION							
TDOT STATE WATER LABEL FROM	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE FLOW MLE WITHIN 51 FT	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	ETW (YES OR NO)	HABITAT ALTERATION (YES OR NO)	SITATION OR ALTERATION (YES OR NO)	PROJECT LIMITS (YES OR NO)

- 4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2)
- 4.1.5. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) YES NO
- 4.1.6. IF YES, EXISTING CONDITIONS DESCRIPTION: _____
- 4.1.7. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2)
- 4.1.8. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE, RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEEMING CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.
- 4.1.9. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL

- 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 PROJECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTINUATION OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC 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. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE BACKFILLED WITHIN TIGHTER THAN FORTY-EIGHT HOURS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TIGHT 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 THE TRENCH IS BACKFILLED.
- 7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. TRENCHES SHALL BE SEED AND MULCHED OR SOLOD DAILY IF POSSIBLE, BUT NO LATER THAN FORTY-EIGHT HOURS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TIGHT 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 THE TRENCH IS BACKFILLED.
- 7.6. IN REGARDS 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 CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. 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 COVER.
- 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT 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 TDOT ENGINEER BEFORE COMMENCING WORK.
- 7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
 - 7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
 - 7.11.2. THE STREAM BANK OR WETLAND BOUNDARY.
 - 7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
- 7.13. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION SERVICES OFFICE FOR REVIEW AND APPROVAL.
- 8. MAINTENANCE AND INSPECTION
 - 8.1. INSPECTION PRACTICES (3.5.8)
 - 8.1.1. PROJECT INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):
 - 8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.1.1.2. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE DOCUMENTATION AND PERMITS BINDER. REPORTS WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.a) AND (3.5.8.2.f).
 - 8.1.1.3. 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 (3.5.8.2.a) AND (3.5.8.2.f).
 - 8.1.1.4. INSPECTION PRACTICES (3.5.8.1)
 - 8.1.1.4.1. 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 (3.5.8.2.a) AND (3.5.8.2.f).
 - 8.1.1.4.2. 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 (3.5.8.2.a) AND (3.5.8.2.f).
 - 8.1.2. 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.
 - 8.1.3. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROJECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTINUATION OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC 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. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE BACKFILLED WITHIN TIGHTER THAN FORTY-EIGHT HOURS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TIGHT 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 THE TRENCH IS BACKFILLED.
 - 8.1.4. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY 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.f).
 - 8.1.4. EPSC CONTROLS SHALL BE INSTALLED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARDS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION SITE INSPECTION REPORT FORM.
 - 8.1.5. WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SIGNIFICANT IMPACTS TO SURROUNDING SITE WATERS, WILDS (EPIHEMAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS, WHERE DISCHARGE LOCATIONS ARE INADEQUATE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROW/ADJACENT SEEDING TRACKING.
 - 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.
 - 8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME 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).
 - 8.1.8. 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 OFFFALL WILL BE INSPECTED (3.5.8.2.b).
 - 8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION RELATED WATER QUALITY PERMITS (I.E. TDEC CONSTRUCTION RELATED ACTIVITIES AROUND WATERS OF THE STATE (10 INSPECTOR)).
 - 8.1.10. 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 (3.5.8.2.a) AND (3.5.8.2.f).
 - 8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE DOCUMENTATION AND PERMITS BINDER. REPORTS WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.a) AND (3.5.8.2.f).
 - 8.1.12. SUCCESSFULLY COMPLETED THE TDEC LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL COURSE AS REQUIRED.
 - 8.1.13. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
 - 8.1.14. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CESC).
 - 8.1.15. SUCCESSFULLY COMPLETED TDEC LEVEL II - DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES' COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.2. DUTY AUTHORIZED REPRESENTATIVE (7.3)
 - 8.2.1. THE TDOT CONSTRUCTION ENGINEER OR THEIR DUTY AUTHORIZED REPRESENTATIVE AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.2.2. THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.
 - 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 AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.f).
 - 8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.3.3. 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. THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DAILY AND EPSC INSPECTION REPORT AN ESTIMATED REPAIR SCHEDULE SHALL BE ADJUSTED TO REFLECT CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%) (3.5.3.1.e).
 - 8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%) (3.5.3.1.e).
 - 8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THIS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
 - 8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT HEIGHT OF THE DAM.
 - 8.3.7. 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 ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/US.
 - 8.3.8. 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 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).
 - 8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.
 - 9. SITE ASSESSMENTS (3.1.2)
 - 9.1. QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE REPORTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.

8.1.13. 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 (3.5.8.2.h).

8.1.14. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY 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.f).

STORMWATER
POLLUTION
PREVENTION
PLAN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET	NO.	YEAR	TYPE	PROJECT NO.
S-4		2017	CONST.	PE-47PLM-F0-045

**STORMWATER
 POLLUTION
 PREVENTION
 PLAN**

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

SHEET NO.	PROJECT NO.	YEAR	TYPE
S-5	PE-47PLM-F0-045	2017	CONSTR.

MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DEGREASING 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. 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 PHOSPHORATING 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 THE SOIL ANALYSIS OR TOOT. 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 PER 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 DRAINAGE SYSTEM. WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4. SPILL MANAGEMENT

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

12.4.1. 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 APPROPRIATE CLEANUP SUPPLIES.

12.4.2. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER AS APPROPRIATE. EQUIPMENT 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.

12.4.3. ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SITE AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY 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 THESE MATERIALS AND CONTAINERS TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATING WILL BE CONTAINED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.4.5. IF SPILLS REPRESENT AN IMMEDIATE 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.

12.4.6. IF AN OIL SPILL IS OBSERVED ON SURFACE WATER (E.G. THE SHEEN), THE CONTRACTOR WILL USE APPROPRIATE SETTLING PONS, DETENTION PONS, SWALES, ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SPILL.

10. STORMWATER MANAGEMENT (3.5.4)

10.1. 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 DESCRIBED ON THE PLANS AND NOTED AS PERMANENT.

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.4) N/A

10.3. OTHER ITEMS NEEDING CONTROL (3.5)

UNCONTAMINATED GROUNDWATER OR SPRING WATER
 FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.
 OTHER: _____

10.4. WASTE MATERIALS (3.5.5b)

OTHER _____
 THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.5. HAZARDOUS WASTE (3.5.5) (7)

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 ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. SANITARY WASTE (3.5.5b)

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

10.7. 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.

11. NON-STORMWATER DISCHARGES (3.5.9)

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

Dewatering of work areas or collected stormwater and ground water.

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

12.1. SPILL PREVENTION (3.5.5)

12.1.1. CONTRACTORS 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 1,200 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY DOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW.

12.1.3. THE CONTRACTOR SHALL 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 DOT CONSTRUCTION ENGINEER.

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

CONTRACTOR, EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE 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 THESE MATERIALS AND CONTAINERS TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATING WILL BE CONTAINED 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

12.2.3. HAZARDOUS MATERIALS (3.5.5) (7)

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 ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

12.3. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (3.5.5, 5.1)

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 THE SOIL ANALYSIS OR TOOT. 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 PER 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 DRAINAGE SYSTEM. WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4. SPILL MANAGEMENT

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

12.4.1. 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 APPROPRIATE CLEANUP SUPPLIES.

12.4.2. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER AS APPROPRIATE. EQUIPMENT 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.

12.4.3. ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SITE AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY 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 THESE MATERIALS AND CONTAINERS TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATING WILL BE CONTAINED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.4.5. IF SPILLS REPRESENT AN IMMEDIATE 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.

12.4.6. IF AN OIL SPILL IS OBSERVED ON SURFACE WATER (E.G. THE SHEEN), THE CONTRACTOR WILL USE APPROPRIATE SETTLING PONS, DETENTION PONS, SWALES, ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SPILL.

10. STORMWATER MANAGEMENT (3.5.4)

10.1. 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 DESCRIBED ON THE PLANS AND NOTED AS PERMANENT.

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.4) N/A

10.3. OTHER ITEMS NEEDING CONTROL (3.5)

UNCONTAMINATED GROUNDWATER OR SPRING WATER
 FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.
 OTHER: _____

10.4. WASTE MATERIALS (3.5.5b)

OTHER _____
 THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.5. HAZARDOUS WASTE (3.5.5) (7)

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 ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. SANITARY WASTE (3.5.5b)

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

10.7. 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.

11. NON-STORMWATER DISCHARGES (3.5.9)

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

Dewatering of work areas or collected stormwater and ground water.

- 12.47: 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 DOT CONSTRUCTION ENGINEER AND/OR PROJECT ENGINEER. ALL SPLITS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE(S), INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- 12.48: APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT 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.
- 12.49: SPILL NOTIFICATION (5.1)
- 12.50: SPILL NOTIFICATION (5.1)
- 12.51: THE DOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.
- 12.52: THE DOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.
- 12.53: IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A REPORT OF THE RELEASE DATE OF RELEASES AND CIRCUMSTANCES LEADING TO THE RELEASE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF THE RELEASE SHALL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES AND TO RESPOND TO THE OCCURRENCE OF SUCH RELEASES AND TO PREVENT THE REPEAT OF SUCH RELEASES.
- 12.54: THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE.
- 12.55: APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE.
- 12.56: DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDING DATES, AMOUNT OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE MAINTAINED IN THE DOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE DOCUMENTATION AND PERMITS BINDER.
- 12.57: IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY INSPECTION, THE GAUGE WILL BE EMPLOYED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.
- 12.58: 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.
- 12.59: KEEPING PLANS CURRENT (3.4)
- 12.60: 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 PROVEN INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.
- 12.61: THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION. COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION. PLANS 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 STAGES OF CONSTRUCTION THAT WILL OCCUR. THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.
- 12.62: EQUIPMENT
- 12.63: 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

- 13.1: REQUIRED RECORDS
- 13.1.1: REQUIRED RECORDS OF CONSTRUCTION ACTIVITIES
- 13.1.2: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR
- 13.1.3: THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE
- 13.1.4: RECORDS WHEN STABILIZATION MEASURES ARE INITIATED.
- 13.1.5: RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.
- 13.1.6: COPY OF SITE EPSC INSPECTORS CERTIFICATION AND/OR LICENSING
- 13.1.7: COPY OF REQUIRED SOIL ANALYSIS
- 13.1.8: A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.
- 13.2: RAINFALL MONITORING PLAN (5.3.1.0):
- 13.2.1: EQUIPMENT
- 13.2.2: 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
- 13.3: THE DOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY.
- 13.3.1: 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.
- 13.3.2: WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THAT THE SWPPP IS PROVEN INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, OR IS 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.
- 13.3.3: WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP.
- 13.3.4: PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA.
- 13.3.5: 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.
- 13.3.6: ALL SWPPP REVISIONS SHALL BE RECORDED WITHIN 7 DAYS BY THE PROJECT EPSC INSPECTOR.
- 13.3.7: 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.
- 13.4: MAKING PLANS ACCESSIBLE
- 13.4.1: DOT 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 OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITY UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE) (6.2)
- 13.4.2: PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA DOT ON THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1).
- 13.4.2.1: A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT.
- 13.4.2.2: THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT.
- 13.4.2.3: A BRIEF DESCRIPTION OF THE PROJECT, AND THE LOCATION OF THE SWPPP.
- 13.4.2.4: THE LOCATION OF THE SWPPP.
- 13.4.3: ALL INFORMATION DESCRIBED IN SECTION 13.4.2 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 PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.
- 13.5: NOTICE OF TERMINATION (6.0)

STORMWATER
 POLLUTION
 PREVENTION
 PLAN

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

SHEET NO.	YEAR	TYPE	PROJECT NO.
S-6	2017	CONST.	PE-47-PLM-F0-045

13.5.1 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.

13.5.2 FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE ASSOCIATION WITH THE ELIMINATION OF STORMWATER DISCHARGES, ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND

13.5.2.1 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

13.5.2.2 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; AND

13.5.2.3 ALL POTENTIAL POLLUTANTS AND POLLUTANTS GENERATING ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND

13.5.2.4 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

13.5.2.5 TEMPORARY EPCG MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND

13.5.2.6 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.

13.5.2.7 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.

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (7.7.5)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4). THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

John Barrett
PRINTED NAME

Transportation Project Manager II
TITLE

8/9/2017
DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE, BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE.

AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TR1810000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4). THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (9.0)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT (TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE).

ENVIRONMENTAL PERMITS

PERMIT	YES OR NO	PERMIT NO. OR TRACKING NO.	EXPIRATION DATE*
TEC ARAP			
CORPS OF ENGINEERS (USACE)			
TVA 26A			
TDCC CGP			
OTHER:			

THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

PROJECT NO.	YEAR	TYPE	CONST	2017	PE-471.PLM-F-0-045	S-7

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUTFALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1	OUT-1		RT	2.5	0.15			N/A		
2	OUT-1		RT	25	0.03			N/A		
1	OUT-2		RT	5.0	0.32			N/A		
2	OUT-2		RT	25	0.06			N/A		
1	OUT-3		RT	7.0	0.22			N/A		
2	OUT-3		RT	25	0.05			N/A		
1	OUT-4		RT	20.0	0.10			N/A		
2	OUT-4		RT	25	0.03			N/A		
1	OUT-5		RT	3.0	0.29			N/A		
2	OUT-5		RT	25	0.10			N/A		
1	OUT-6		RT	25	0.44			N/A		
1,2	OUT-7		RT	12.5	0.31			N/A		
2	OUT-7A		LT	1.0	0.05			N/A		
2	OUT-7B		LT	1.0	0.24			N/A		
2	OUT-7C		LT	0.6	0.10			N/A		
2	OUT-7D		LT	1.2	0.20			N/A		
2	OUT-7E		LT	1.4	0.25			N/A		
2	OUT-7F		LT	2.5	0.34			N/A		
1	OUT-8		LT	10.0	0.21			N/A		
2	OUT-8		RT	12.0	0.22			N/A		
2	OUT-8A		LT	1.5	0.55			N/A		
1,2	OUT-9		RT	35	0.19			N/A		
1,2	OUT-10		RT	12	0.19			N/A		

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

STORMWATER
POLLUTION
PREVENTION
PLAN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET NO.	YEAR	TYPE	PROJECT NO.
S-8	2017	CONST.	PE-47PLM-F0-045

Index of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS OF IMPROVEMENTS
3	PROPERTY MAP AND ACQUISITION TABLE
4-8	PRESENT LAYOUT
4A-8A	PROPOSED LAYOUT
9	DRAINAGE MAP
10	CURVE DATA
11	SPECIAL EROSION PREVENTION AND
12-15	SEEDING PREVENTION AND SEDIMENT CONTROL NOTES
16	CONTROL PLANS (STAGE 1 & 2)
17-30	TRAFFIC CONTROL PLAN
	ROADWAY CROSS-SECTIONS

47956-2526-54
 END PROJ. STP-M-9109(140)
 STA. 219+79.26 (R.O.W.)
 N 563515.7790
 E 2505729.0139
 47956-2526-54
 BEGIN PROJ. STP-M-9109(140)
 STA. 200+16.61 (R.O.W.)
 N 563107.1743
 E 2503812.8584

SPECIAL NOTES

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.

DESIGNED BY: CANNON & CANNON, INC.
 DESIGNER: KENNETH ELLIOTT
 P.E. NO. 47164-M-F-1-046
 PIN NO. 106915.00

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF ENGINEERING
KNOX COUNTY

KINGSTON PIKE SIDEWALK IN FARRAGUT

R.O.W. PLANS

STATE HIGHWAY NO. 1 F.A.H.S. NO. 11



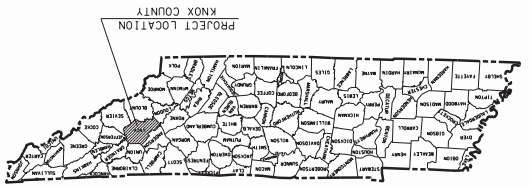
RIGHT-OF-WAY LENGTH
 0.372 MILES

TRAFFIC DATA	
V	45 MPH
ADT (2016)	25000

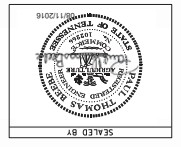
ORIGINAL SURVEY DATE: APR. 11, 2014
 UPDATED SURVEY DATE:

SHEET NO.	YEAR	TENN.
1	2016	

REQ. AID PROJ. NO. 47956-2526-54
 STATE PROJ. NO. STP-M-9109(140)



NO EXCLUSIONS
 NO EQUATIONS



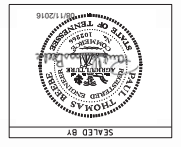
APPROVED: *Paul D. DeGoes*
 PAUL D. DEGOES, CHIEF ENGINEER
 DATE: _____

APPROVED: *John Schroer*
 JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
 DIVISION ADMINISTRATOR
 DATE: _____

PLANS
R.O.W.



ROADWAY INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS	1A1
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVING SCHEDULE	2A
GENERAL NOTES	2B
SPECIAL NOTES	2C
RIGHT-OF-WAY NOTES, UTILITY NOTES, UTILITY OWNERS	3
PROPERTY MAP AND RIGHT-OF-WAY ACQUISITION TABLE	4 - 8
PRESENT LAYOUT	4 - 8
PROPOSED LAYOUT	4A - 8A
PROPOSED PROFILE	4B - 8B
DRAINAGE MAP	9
CULVERT SECTIONS	10
SHEET NOT USED	11
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS	12 - 15
PAVEMENT EDGE DROP-OFF NOTES	16
TRAFFIC CONTROL PLAN	17 - 17A
TRAFFIC SIGNAL MODIFICATIONS	18
ROADWAY CROSS SECTIONS	19 - 32
RETAINING WALL DETAILS	R-1
LANDSCAPE PLAN	L-1, 11
UTILITIES INDEX	U-1
SWPPP SHEETS	S-1 - S-8

"NO PROJECT COMMENTS"

DWG.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
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
RD01-1S-8A	07/31/2013	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-CB-12LP	08-01-12	LOW PROFILE 12" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SC	03-11-14	STANDARD 5' X 5' X 2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CBB-12A	05-27-01	TYPE B CAST IRON FRAME, GATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
D-MH-2	02-02-16	STANDARD MASONRY & PRECAST NO. 3 MANHOLE TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE
D-MH-3	04-21-14	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-5	04-01-14	STANDARD 5' X 5' X 2" SQUARE CONCRETE NO. 3 MANHOLE
D-MH-6	04-01-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE
D-MH-7	04-01-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 3 MANHOLE
D-RF-1	02-02-16	STANDARD PRECAST RISER

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
RP-MC-1	02-28-02	STANDARD 4' SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-H-3	10-10-16	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	10-10-16	PERPENDICULAR CURB RAMP
RP-H-5	10-10-16	PARALLEL CURB RAMP
RP-H-7	10-10-16	PERPENDICULAR CURB RAMP IN CURVE
RP-H-8	10-10-16	PARALLEL CURB RAMP IN CURVE
RP-S-7	02-05-16	DETAILS FOR CONCRETE SIDEWALKS
RP-S-8	02-05-16	DETAILS FOR STANDARD CONCRETE STEPS AND PIPE HANDRAILS
RP-S-9		ALTERNATE DETAILS FOR PEDESTRIAN FACILITIES
WMSE-2		ROADWAY FEATURES FOR USE MODULAR BLOCK FACING RETAINING WALL
S-CZ-1		CLEAR ZONE CRITERIA
S-BPR-1	02-05-16	BIKE/PEDESTRIAN SAFETY RAIL
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORB
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	10-10-16	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-05-17	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS

DESIGN - TRAFFIC CONTROL

EROSION PREVENTION AND SEDIMENT CONTROL

SAFETY DESIGN AND FENCES

ROADWAY AND PAVEMENT APPURTENANCES

SHEET NO.	PROJECT NO.	YEAR	TYPE
1A	S1P-44-109(140)	2017	CONST.

S.R. 1
KNOX CO.
47956-3526-54 (CONST.)



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$QUONPECC\$\$\$\$\$
\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$QUONPECC\$\$\$\$\$

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG.	REV.	DESCRIPTION
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-12	07-02-15	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-02-15	STANDARD GROUND MOUNTED SIGNING PERFORATED/KNOCKOUT SQUARE TUBE DETAILS
T-S-19	07-19-15	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
SIGNALS		
T-S-G-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-S-G-6	06-27-16	PEDESTRIAN SIGNAL DETAILS
T-GC-9A	06-27-16	MISCELLANEOUS SIGNAL DETAILS
T-S-G-10	06-27-16	MAST ARM POLE AND STRAIN POLE FOUNDATION DETAILS
T-S-G-11	06-27-16	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-S-G-12	06-27-16	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS

SHEET NO.	PROJECT NO.	YEAR	TYPE
1A1	STP-A-9109(140)	2017	CONST.

S.R. 1
KNOX CO.
47956-3526-54 (CONST.)



SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

STANDARD TRAFFIC
OPERATIONS &
DRAWINGS

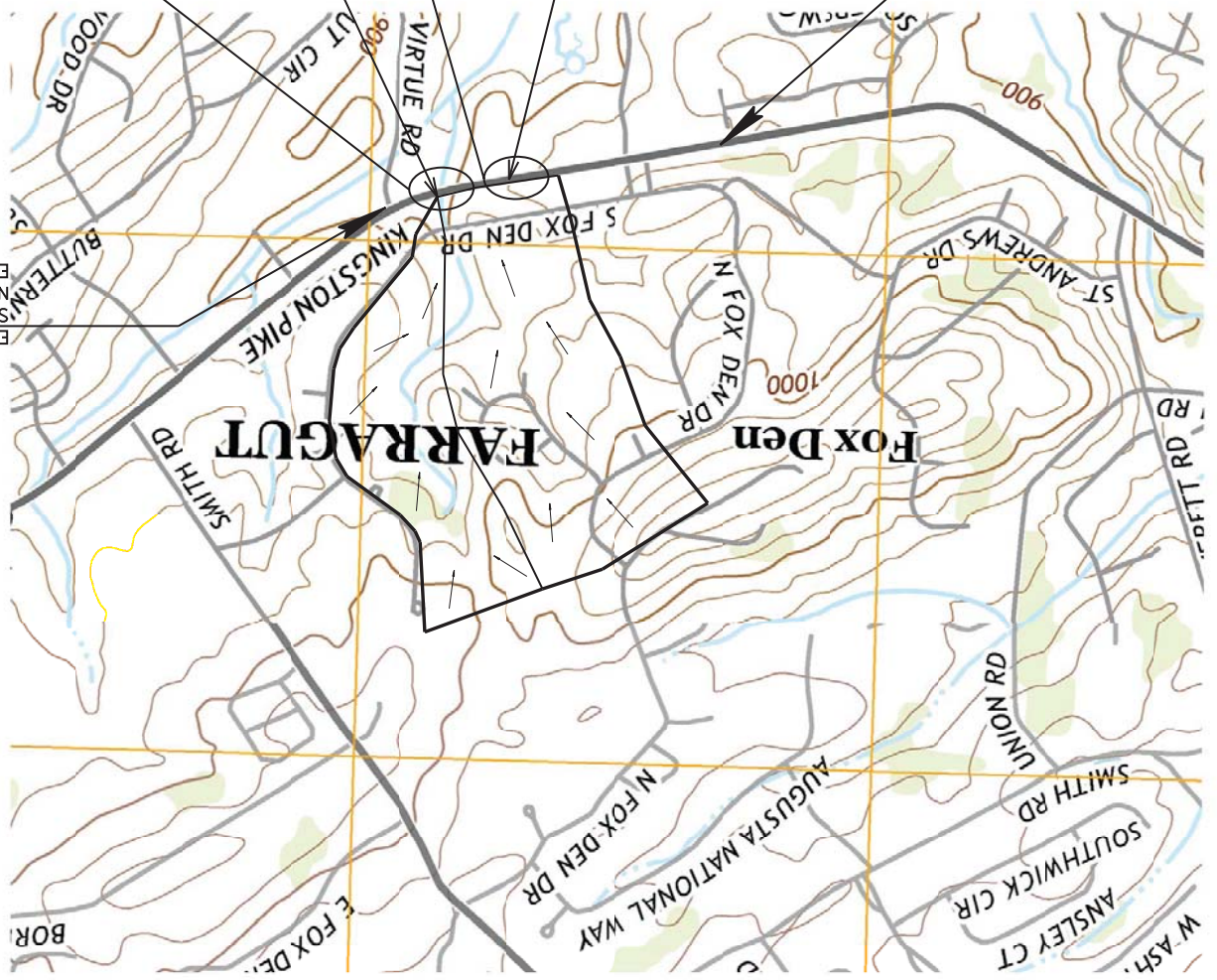
PASS TIME: 00:00:00

BEGIN PROJ. NO. SFP-M-9109(104)
 STA. 200+12.71 (CONST.)
 N 563106.4475
 E 2503809.0267
 47956-3526-54

EXIST. 6' X 4' BOX CULVERT
 D.A. = 57.5 AC.
 050 = 230 CFS
 0100 = 249 CFS

EXIST. 3' X 3' BOX CULVERT
 D.A. = 35.3 AC.
 050 = 141 CFS
 0100 = 153 CFS

47956-3526-54
 END PROJ. NO. SFP-M-9109(140)
 STA. 220+93.78 (CONST.)
 N 563552.6932
 E 2505838.2160



SHEET NO.	YEAR	PROJECT NO.	TYPE
9	2016	SFP-M-9109(140)	R.O.W.
9	2017	SFP-M-9109(140)	CONST.

S.R. 1
 KNOX CO.
 47956-3526-54 (R.O.W.)
 47956-3526-54 (CONST.)



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

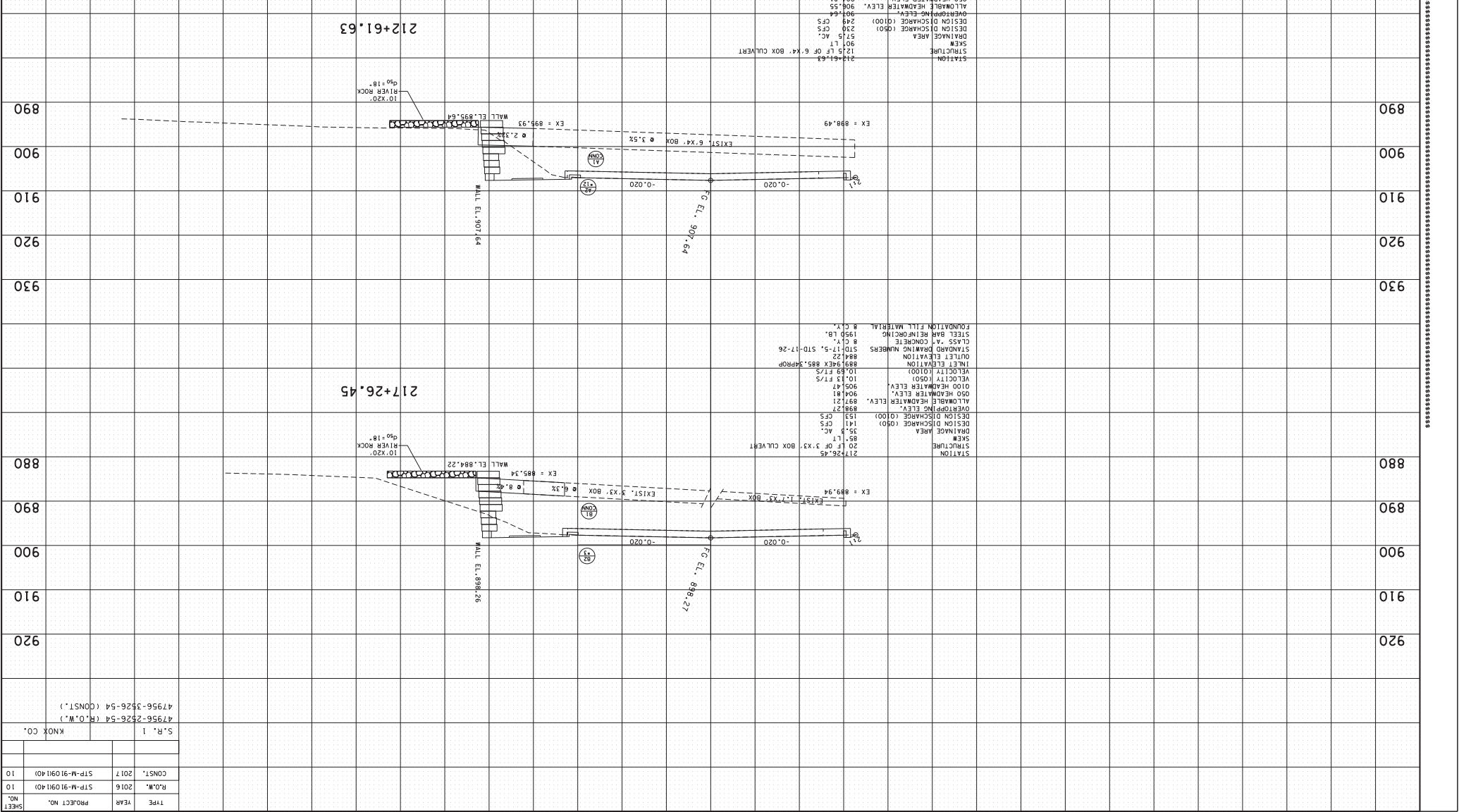
DRAINAGE MAP

BEGIN PROJECT
 TO END PROJECT
 SCALE: 1"=400'

SHEET NO.	PROJECT NO.	YEAR	TYPE
10	STP-W-910911-401	2016	CONST.
10	STP-W-910911-401	2017	CONST.
S.R. 1		47956-2526-54 (I.O.W.)	
KNOX CO.		47956-3526-54 (CONST.)	



DEPARTMENT OF TRANSPORTATION
SECTIONS
 SCALE: 1"=10' HORIZ.
 1"=10' VERT.



STATION	STRUCTURE	SKW	DRAINAGE AREA	DESIGN DISCHARGE (CFS)	DESIGN DISCHARGE (1000)	ALLOWABLE HEADWATER ELEV.	050 HEADWATER ELEV.	VELOCITY (FPS)	VELOCITY (1000)	INLET ELEVATION	OUTLET ELEVATION	STANDARD FRAMING NUMBERS	CLASS "A" CONCRETE	STEEL BAR REINFORCING	FOUNDATION FILL MATERIAL
212+61.63	6' x 4' BOX CULVERT	57.5 AC.	907 LF	249 CFS	249 CFS	906.55	904.81	10.13 FT/S	10.13 FT/S	899.64	899.64	STD-17-26, STD-17-51	CLASS "A" CONCRETE	STEEL BAR REINFORCING	FOUNDATION FILL MATERIAL
217+26.45	3' x 3' BOX CULVERT	85 LF	20 LF OF 3' x 3' BOX CULVERT	141 CFS	141 CFS	897.21	904.81	10.13 FT/S	10.13 FT/S	889.22	889.22	STD-17-26	CLASS "A" CONCRETE	STEEL BAR REINFORCING	FOUNDATION FILL MATERIAL

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		SYMBOL	ITEM	STD. DWG.
EC-S1R-3C	SILT FENCE WITH WIRE BACKING	● SFB ● SFB ● SFB ●		
EC-S1R-6A	ENHANCED ROCK CHECK DAM (CHANNEL)			
EC-S1R-25	TEMPORARY CONSTRUCTION EXIT			
EC-S1R-39A	CURB INLET PROTECTION (TYPE 4)			

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, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

SPECIAL EROSION PREVENTION AND SEDIMENT CONTROL NOTES

SHEET NO.	YEAR	PROJECT NO.
11	2016	S1P-M-91-09(14D)
11	2017	S1P-M-91-09(14D)

S.R. 1 KNOX CO.

47956-2526-54 (R.O.M.)

47956-3526-54 (CONST.)



SEALED BY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
EROSION & SEDIMENT CONTROL (EPC) NOTES

PROJECT: 47956-3526-54 (R.O.W.)

SPECIAL EROSION PREVENTION AND SEDIMENT CONTROL NOTE
 NPDES:
 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, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE AMOUNT OF TOTAL AREA OF EXPOSED SOIL.

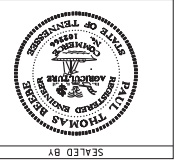
OUTFALL NO.	DRAINAGE AREA	AVERAGE SLOPE
1	0.15 AC	2.5%
2	0.32 AC	5.0%
3	0.22 AC	7.0%
4	0.10 AC	20.0%
5	0.29 AC	3.0%

SYMBOL	ITEM	STD. DWG.
	GURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	ENHANCED ROCK CHECK DAM (CHANNEL)	EC-STR-6A
	BACKING	EC-STR-3C
	SILT FENCE WITH WIRE	EC-STR-3C
	SFB * SFB * SFB *	EC-STR-3C
	SFB * SFB * SFB *	EC-STR-3C

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

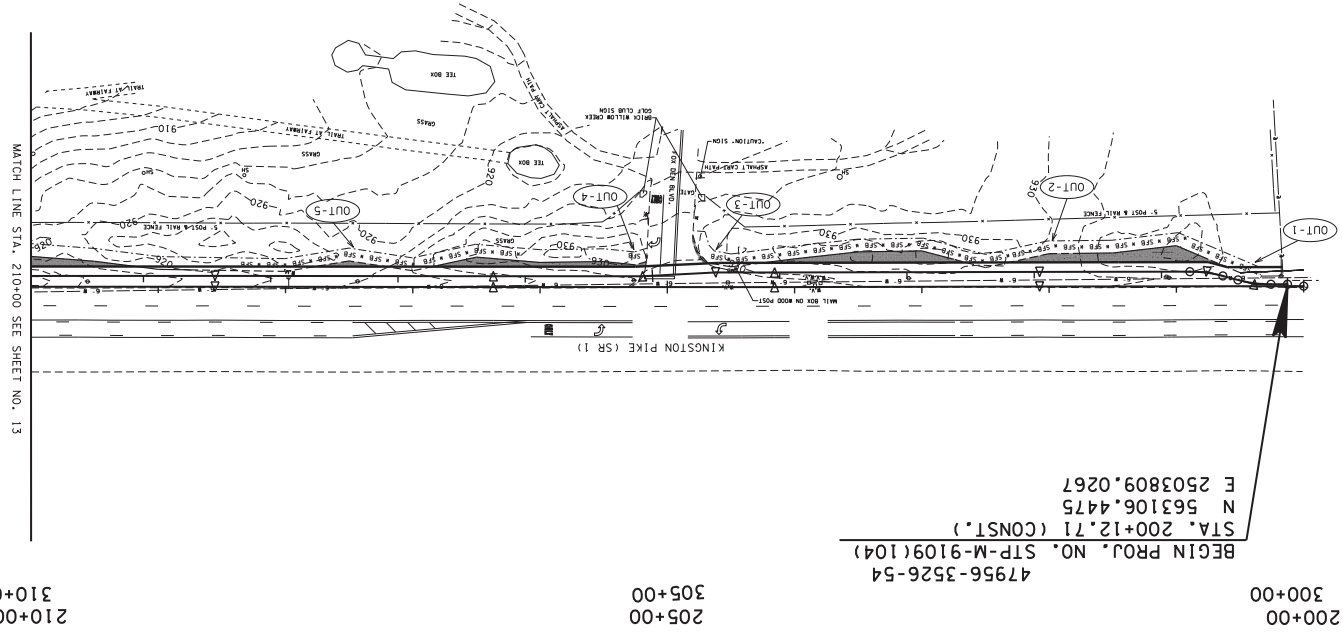
STAGE I

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLAN
 STA. 200+12.71 TO STA. 210+00
 SCALE: 1" = 50'



SEALING BY

WILLIAM A. ROACH (TRUSTEE)
 (1)



BEGIN PROJ. NO. STP-M-9109(104)
 47956-3526-54
 STA. 200+12.71 (CONST.)
 N 563106.4475
 E 2503809.0267

S.R. 1
 47956-2526-54 (R.O.W.)
 47956-3526-54 (CONST.)

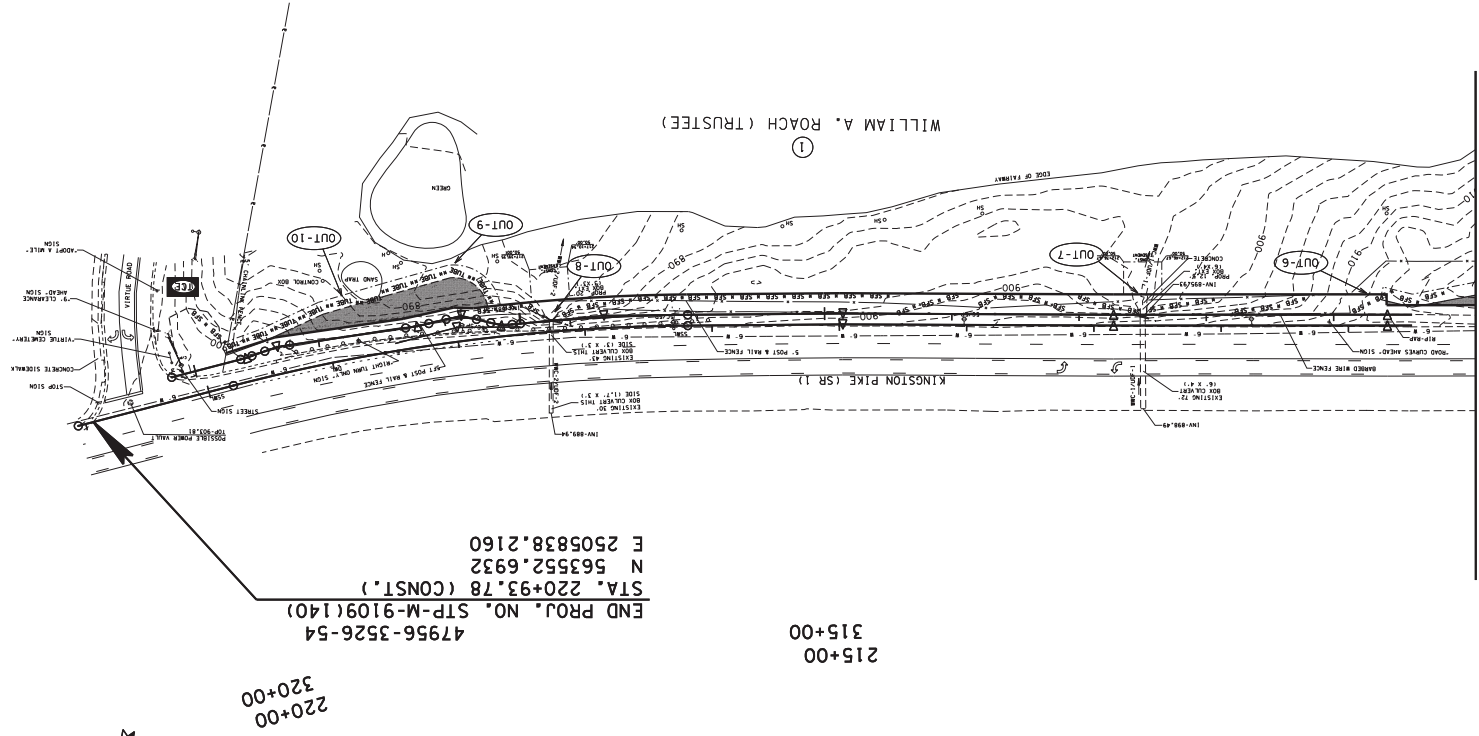
SHEET NO.	YEAR	PROJECT NO.
12	2016	STP-M-9109(140)
11	2017	STP-M-9109(140)

DATE PLOTTED: 08/20/2018 10:58:11 AM

MATCH LINE STA. 210+00 SEE SHEET NO. 12

OUTFALL NO.	DRAINAGE AREA	AVERAGE SLOPE
6	0.44 AC	25%
7	0.31 AC	12.5%
8	0.21 AC	10.0%
9	0.19 AC	35%
10	0.19 AC	12%

SYMBOL	ITEM	STD. DWG.
	SEDIMENT TUBE	EC-S1R-37
	TEMPORARY CONSTRUCTION EXIT	EC-S1R-25
	SILT FENCE WITH WIRE BACKING	EC-S1R-3C
	ITEM	STD. DWG.



STAGE 1

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLAN
 STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION



COORDINATES ARE NAD83/95N
 ARE DATUM ADJUSTED BY THE
 FACTOR OF 1.00009 AND TIED TO
 THE TOWN ALL ELEVATIONS ARE
 REFERENCED TO THE MVD 1988.

SHEET NO.	YEAR	PROJECT NO.
13	2016	STP-M-9109(140)
13	2017	STP-M-9109(140)

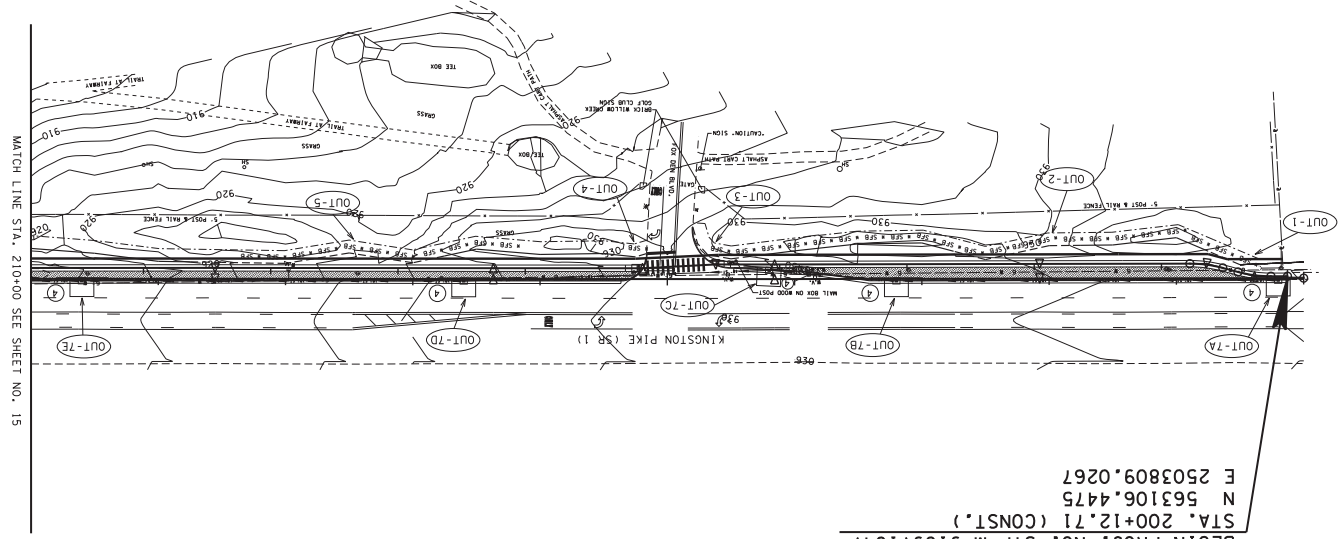
S.R. 1
 KNOX CO.
 47956-2526-54 (R.O.W.)
 47956-3526-54 (CONST.)
 1-23-17; ADDED WMC-1/UDF-1 AND WMC-2/UDF-2

SCALE: 1" = 50'

PROJECT: STP-M-9109(104) - KINGSTON PIKE (SR 1) - WETLANDS RESTORATION PROJECT

OUTFALL NO.	DRAINAGE AREA	AVERAGE SLOPE
1	0.03 AC	25%
2	0.06 AC	25%
3	0.05 AC	25%
4	0.03 AC	25%
5	0.10 AC	25%
7A	0.05 AC	1.0%
7B	0.24 AC	1.0%
7C	0.10 AC	0.6%
7D	0.20 AC	1.2%
7E	0.25 AC	1.4%

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND	
SYMBOL	ITEM
	SILT FENCE WITH WIRE BACKING
	CURB INLET PROTECTION (TYPE 4)
EC-5TR-3C	●SRB●SRB●SRB●
EC-5TR-3A	EC-5TR-3A



WILLIAM A. ROACH (TRUSTEE)
 (I)

BEGIN PROJ. NO. STP-M-9109(104)
 47956-3526-54
 STA. 200+12.71 (CONST.)
 N 563106.4475
 E 2503809.0267

200+00 300+00 205+00 305+00 210+00



STAGE II

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLAN

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 COORDINATES ARE NAD83/95
 ARE DATUM ADJUSTED BY THE
 FACTOR OF 1.00009 AND TIED TO
 THE TBM ALL ELEVATIONS ARE
 REFERENCED TO THE NAD 1983.



SEALED BY

S.R. 1
 47956-2526-54 (R.O.W.)
 47956-3526-54 (CONST.)

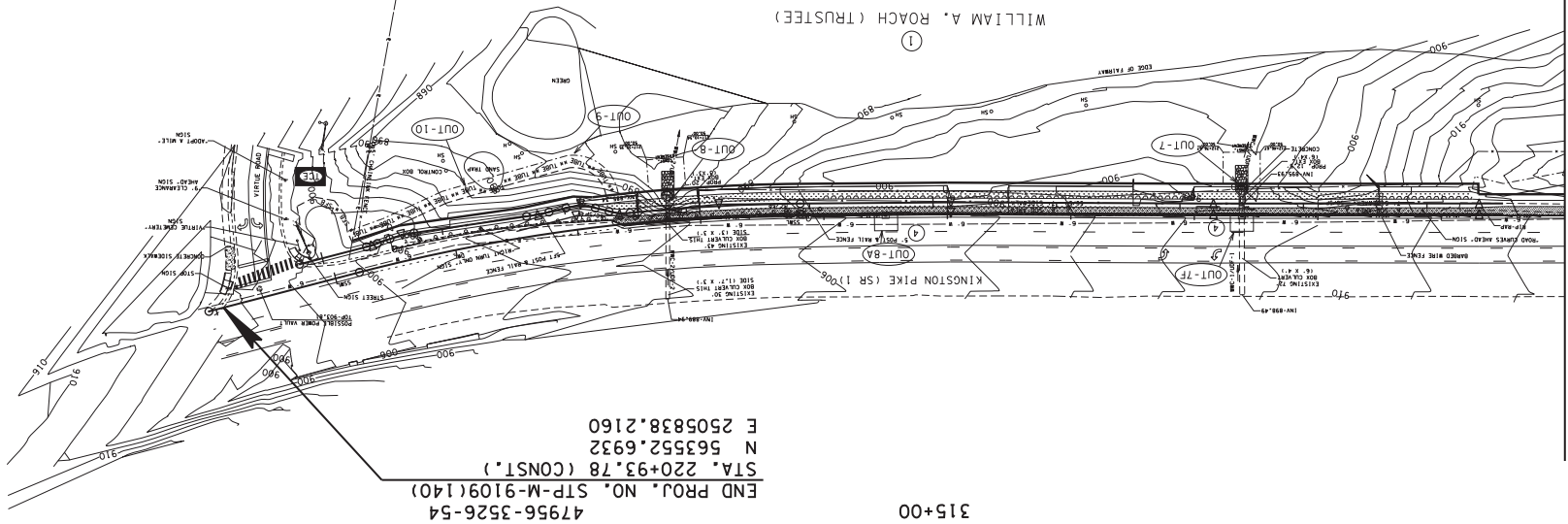
SHEET NO.	YEAR	PROJECT NO.	TYPE
14	2016	STP-M-9109(104)	R.O.W.
14	2017	STP-M-9109(104)	CONST.

PROJECT NUMBER: 47956-3526-54

MATCH LINE STA. 210+00 SEE SHEET NO. 14

OUTFALL NO.	DRAINAGE AREA	AVERAGE SLOPE
7	0.16 AC	12.5%
7F	0.34 AC	2.5%
8	0.22 AC	12.0%
8A	0.55 AC	1.5%
9	0.19 AC	35%
10	0.19 AC	12%

SYMBOL	ITEM	STD. DWG.
	SILT FENCE WITH WIRE BAKING	EC-S1R-3C
	ENHANCED ROCK CHECK DAM (CHANNEL)	EC-S1R-6A
	TEMPORARY CONSTRUCTION EXIT	EC-S1R-25
	RIPRAP	EC-S1R-27
	** TUBE ** TUBE **	EC-S1R-37
	CURB INLET PROTECTION (TYPE 4)	EC-S1R-39A



END PROJ. NO. STP-M-9109(140)
 STA. 220+93.78 (CONST.)
 N 563552.6932
 E 2505838.2160
 47956-3526-54

220+00
320+00



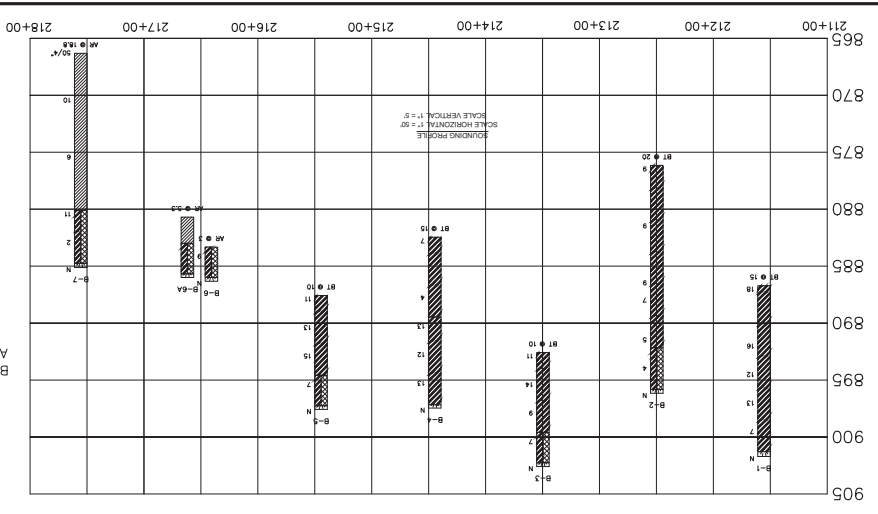
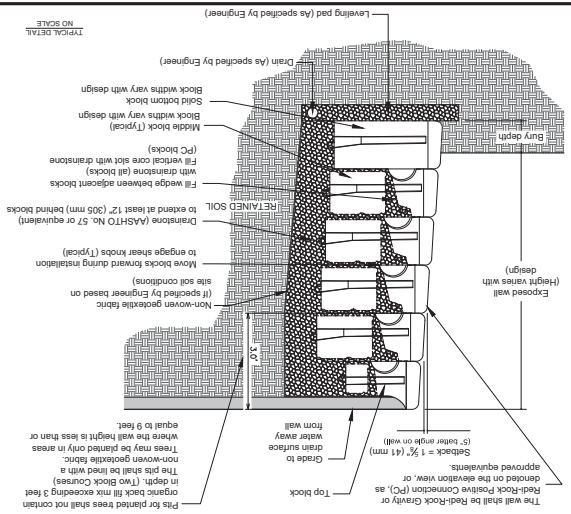
SHEET NO.	YEAR	PROJECT NO.
15	2016	STP-M-9109(140)
15	2017	STP-M-9109(140)

S.R. 1
 KNOX CO.
 47956-3526-54 (R.O.W.)
 47956-3526-54 (CONST.)
 1-23-17; ADDED WMC-1/UDF-1 AND WMC-2/UDF-2

STAGE II

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLAN
 DEPARTMENT OF TRANSPORTATION
 STATE OF TENNESSEE
 COORDINATES ARE NAD 83/9951 ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TOWN ALL ELEVATIONS ARE REFERENCED TO THE NAD 1988.

SEALED BY
 THOMAS R. JONES
 PROFESSIONAL ENGINEER
 STATE OF TENNESSEE
 LICENSE NO. 21454



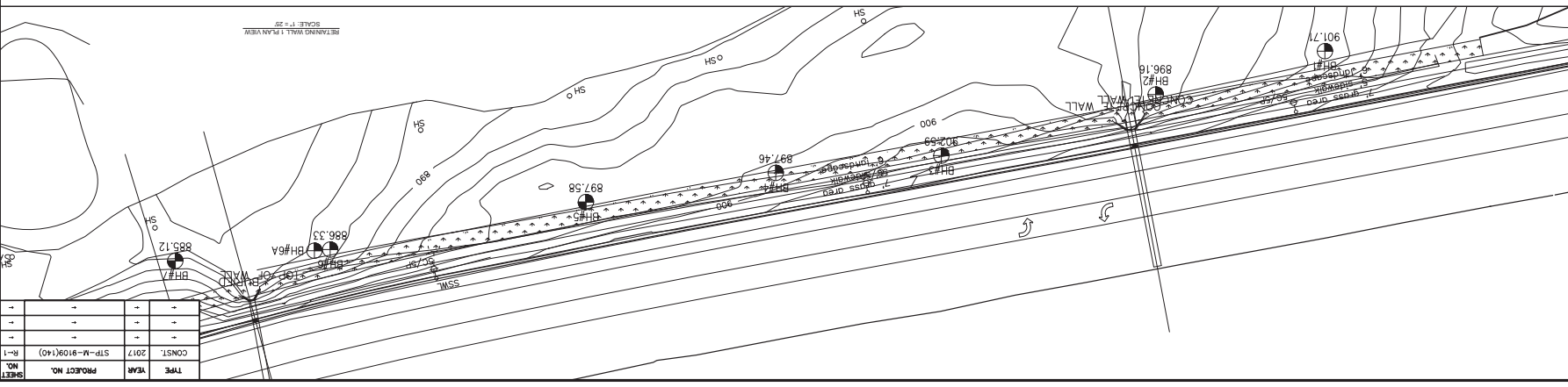
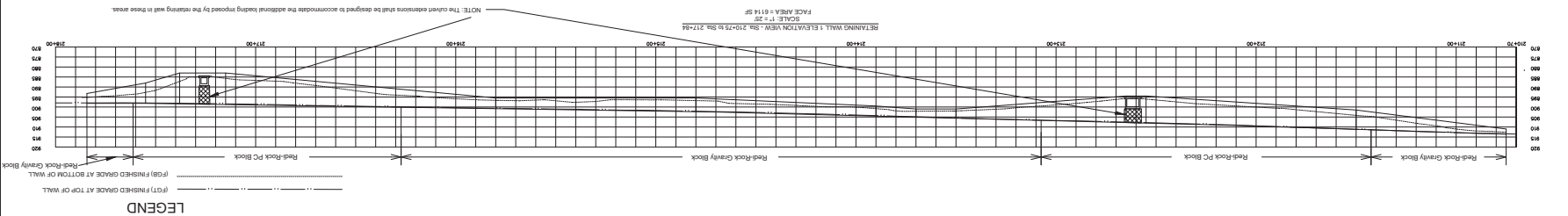
Retaining Wall Layout

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

REFERENCED TO THE NAD 1988
THE TORN. ALL ELEVATIONS ARE
FACTORED 1.00003 AND TIED TO
COORDINATES ARE NAD 83(1995).

FORQUATT, SIEWALK
Knox County

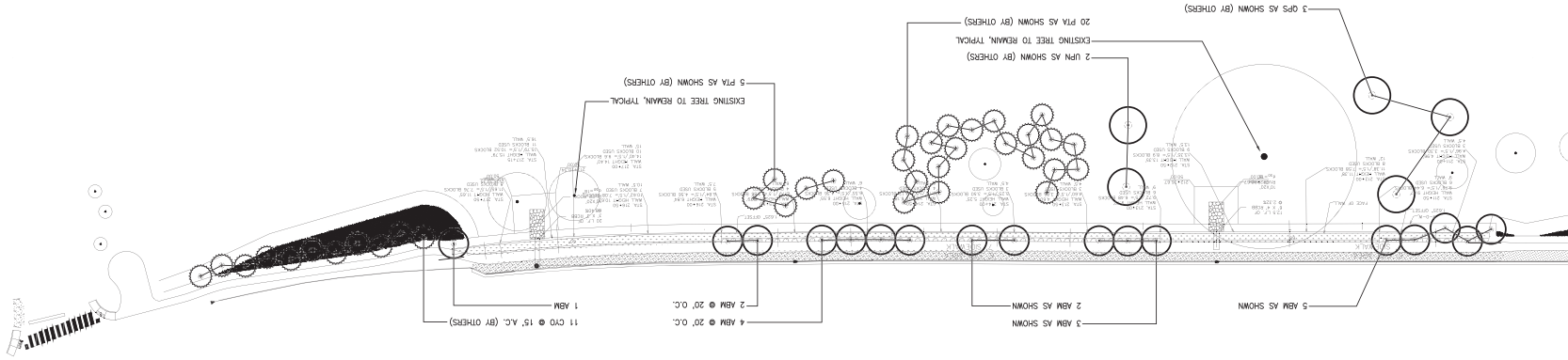
SEALED BY



SHEET NO.	PROJECT NO.	YEAR	TYPE
R-1	SIP-M-8109(14)	2017	CONST.
-	-	-	-
-	-	-	-
-	-	-	-

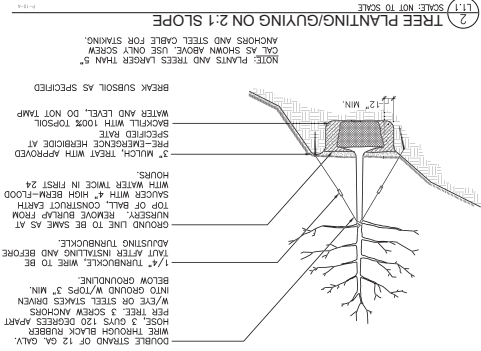
TYPE	ITEM #	KEY	BOTANICAL NAME	COMMON NAME	SPREAD	HEIGHT	ROOT	REMARKS	QUANTITY
TREES	001-1016M	KEP	BERBERIDACEAE	HOOP PINE	15' DIA.	15' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	17
BR CHES	016	PHS	FRAXINUS NIGRA	RED BELLIED PINE	4' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 4'	18
BR CHES	018	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18
BR CHES	019	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18
BR CHES	020	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18
BR CHES	021	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18
BR CHES	022	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18
BR CHES	023	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18
BR CHES	024	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18
BR CHES	025	QUR	QUERCUS FALCATA MICROPHYLLA	HOOPWOOD WHITE OAK	5' DIA.	18' HGT.	888	KEAY MATCHED SPECIMEN, BRANCHED @ 6'	18

PLANT LIST



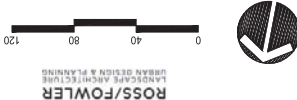
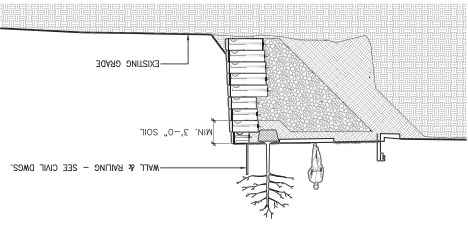
PLANTING NOTES:

1. THE LOCATION OF ALL SURFACE AND UNDERGROUND UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AT GROUND BREAK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE AS REQUIRED DURING CONSTRUCTION AND TO REPAIR ANY DAMAGE WHICH SHOULD OCCUR TO THE SATISFACTION OF THE OWNER.
2. ALL PLANTS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. THE LOCATION OF ALL TREES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE THE BEGINNING OF PLS. PLANTING SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS OR WHERE FIELD LOCATED BY LANDSCAPE ARCHITECT.
4. HAZARD TREE MASS ARE EXISTING CONDITIONS INCLUDED FOR REFERENCE.
5. BACK FILL MIX SHALL BE APPROVED BY LANDSCAPE ARCHITECT IN ADVANCE TO PROTECT FROM DAMAGE.
6. MULCH ALL AREAS OF TREE PLANTING WITH 3\"/>



2 TREE PLANTING/GUYING ON 2:1 SLOPE

1 TREE PLANTING @ RETAINING WALL



ROSS/POWLER
 LANDSCAPE ARCHITECTS
 URBAN DESIGN & PLANNING

SEALD BY

COMPONENTS ARE NAD/83(1993), ARE ADJUSTED BY THE FACTOR OF 1.000, AND THE TORN ALL ELEVATIONS ARE REFERENCED TO THE NAD, 1983. DEPARTMENT OF TRANSPORTATION

PLANTING PLAN

L11