.o.T.	NO.	
SEE D	DIVISION	
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SWPPP INDEX OF SHEETS

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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 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? \square YES \square NO

- 1.3. DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (5.4.1)? ☑ YES (CHECK ALL THAT APPLY BELOW) ☐ NO

 - ☑ EXCEPTIONAL TENNESSEE WATERS

IF YES TO SECTION 1.3, HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.4.1.b)?

- ☑ YES (CHECK ALL THAT APPLY BELOW) ☐ NO
 - ☑ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
 - A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE
 - ☑ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

2. SITE DESCRIPTION (3.5.1)

- 2.1. PROJECT LIMITS (3.5.1.h): REFER TO TITLE SHEET
- 2.2. PROJECT DESCRIPTION (3.5.1.a):

TITLE: SR 332 (CONCORD ROAD), FROM TURKEY CREEK ROAD TO NORTHSHORE DRIVE COUNTY: KNOX

PIN: 107777.00

- 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 CONTOURS SHEET(S) 19-19D, DRAINAGE MAP SHEET(S) 13-14, 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
- ☑ FINAL GRADING AND SHAPING
- ☑ UTILITIES
- ☐ OTHER (DESCRIBE): _____
- 2.6. TOTAL PROJECT AREA (3.5.1.c): 20.06 ACRES
- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 18.44 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: 1B, 2C1
- 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. SOIL PROPERTIES (3.5.1.f) (4.1.1).

SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES					
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)		
Bd - BLOOMINGDALE SILT LOAM	C/D	1.7	0.43		
CcD - COGHILL-CORRYTON COMPLEX	В	5.8	N/A		
DeB - DEWEY SILT LOAM	В	14.3	0.37		
DeC2 - DEWEY SILT LOAM	В	8.9	0.37		
DeD2 - DEWEY SILT LOAM	В	11.8	0.37		
DeE2 - DEWEY SILT LOAM	В	12.2	0.28		
DyC - DEWEY-UDORTHENTS-URBAN LAND COMPLEX	В	21.4	0.37		
DyD - DEWEY-UDORTHENTS-URBAN LAND COMPLEX	В	12.1	0.37		
EmC - EMORY SILT LOAM	В	5.5	0.37		
EvB - ETOWAH-MINVALE COMPLEX	В	1.1	0.32		
LtC - LOYSTON-TOLBOTT ROCK OUTCROP COMPLEX	N/A	5.2	N/A		

- 2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? $\hfill \square$ YES $\hfill \boxtimes$ NO
 - 2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? ☐ YES ☐ NO; AND
 - 2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? ☐ YES ☐ NO ☐ N/A (TDOT SP107L WILL BE APPLIED.)
- 2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.q).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS					
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR	
IMPERVIOUS (ROADS, SHOULDERS, ETC.)	5.62	28		0.9	
PERVIOUS	14.44	72		0.36	
WEIGHTE	0.51				

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CONST.	2017	STP-M-332(9)	S-1

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS					
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR	
IMPERVIOUS (ROADS, SHOULDERS, ETC.)	11.56	57.6		0.9	
PERVIOUS	8.5	42.4		0.4	
WEIGHTED C-FACTOR =				0.69	

3. 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 DENUDED 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 ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

- 3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 2D)
- 3.2. INSTALL STABILIZED CONSTRUCTION EXITS.
- 3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE
- 3.4. INSTALL INITIAL EPSC 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 14 DAYS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BFI OW.)
- 3.6. REMOVE AND STORE TOPSOIL.
- 3.7. STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY.
- 3.8. 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 (3.5.1.j, 3.5.1.k)
 - 4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? \square YES \boxtimes NO

IF YES, THE IMPACT(S) 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 SILTATION
 - ☐ 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION
 - ☑ EXCEPTIONAL TENNESSEE WATERS (ETW)

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4.1.3. RECEIVING WATERS OF THE STATE (3.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION							
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)		
WWC-1, UDF-1	UNNAMED TRIB. TO TURKEY	NO	NO	YES	YES		
WWC-2, UDF-2	UNNAMED TRIB. TO TURKEY	NO	NO	YES	YES		
WWC-3, EPH-1	UNNAMED TRIB. TO TURKEY	NO	NO	YES	YES		

4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2. 5.4.2)

□ YES ☒ NO

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1,2.2.)

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

IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

☐ 60-FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET).

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 CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☐ 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

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 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 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.

- 4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (9.0)
- 4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) \square YES \boxtimes NO

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 SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. 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 RIPARIAN ZONE MUST 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 CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. RECEIVING WATERS OF THE UNITED STATES (WOTUS) (EPHEMERAL)

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WOTUS (EPHEMERAL)? \boxtimes YES \square NO

RECEIVING WOTUS (EPHEMERAL) INFORMATION				
TDOT WOTUS LABEL	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 15-FT OF THE PROJECT LIMITS (YES OR NO)		
WWC-3, EPH-1	YES	YES		

4.2.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? \square YES \boxtimes NO

IF YES, A 15 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING EPHEMERAL STREAM IDENTIFIED AS A WOTUS (EPHEMERAL) BY THE U.S. ARMY CORPS OF ENGINEERS (USACE) OR THE ENVIRONMENTAL PROTECTION AGENCY SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE.

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

4.2.2. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR WOTUS (EPHEMERAL) DUE TO A USACE PERMIT?

4.3. OUTFALL INFORMATION

- 4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION.
- 4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)? \boxtimes YES \square 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?

MYES □NO □N/A

- 4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)? ☑ YES ☐ NO ☐ N/A
- 4.3.6. A SEDIMENT BASIN OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

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 MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (3.5.3.3)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (5.4.1.0).

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IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

4.4. WETLAND INFORMATION

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? ☐ YES ☒ NO

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

WETLAND INFORMATION					
TDOT WETLAND LABEL	FROM STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)		
N/A	N/A	N/A	N/A	N/A	

- 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?

- 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? $\ \ \, \boxtimes \ \, YES \ \, \square \ \, NO$
- 4.6. ECOLOGY INFORMATION (3.5.5.e)

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) $\underline{^{1B}}$.

4.7. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☑ YES ☐ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 1B.

5. 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 EROSION (4.1.1).
- 5.2. 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 PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (3.5.3.3)?

 ☑YES ☐ NO
- 5.4. 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).
- 5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (3.5.1.h)? $\ \ \, \boxtimes$ YES $\ \ \, \square$ NO
- 5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

 5.7. LINESS OTHERWISE NOTED IN THE BLANS, THE CONTRACTOR SHALL NOT.
- 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.
- 5.8. 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),

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ILE NO.

SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

- 5.9. HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT (3.5.2)?
 YES ☑ NO ☐ (IF YES, CHECK ONE BELOW)
 - 5.9.1. PROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
 - 5.9.2. PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (3.5.3.2) (10. "STEEP SLOPE")? ☑ YES ☐ NO ☐ N/A
- 5.11. 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.j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.
- 5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET <u>2A</u> HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.b).
- 5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS
- 5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.
- 5.15. 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.
- 5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.
- 5.17. 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 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 WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.
- 5.18. 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.
- 5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 2A (3.5.3.1.n).
- 5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.4).
- 5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER 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.
- 5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS 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. (4.1.7).
- 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 CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.
- 5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.
- 5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.
- 5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1.h).
- 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. UNPACKED 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. A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO THE APPLICATION OF FERTILIZERS TO ANY PORTION OF THE STE. SOILS SHOULD BE ANALYZED FOR ph, BUFFER VALUE, PHOSPHOROUS, POTASSIUM, CALCIUM AND MAGNESIUM. SOIL SAMPLES SHOULD BE REPRESENTATIVE OF THE AREA FOR WHICH FERTILIZER WILL BE APPLIED. SAMPLE TYPE SHOULD BE COLLECTED AND ANALYZED IN ACCORDANCE WITH THE UT EXTENSION "SOIL TESTING" BROCHURE PB1061. (4.1.5.)
- 5.31. FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED FROM THE ANALYSES. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- 5.32. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.4.1.a)? $\ \square$ YES $\ \boxtimes$ NO

IF YES, THE FOLLOWING NOTES APPLY:

- 6.1. POLYACRYLAMIDES (PAM) SHALL BE OF THE ANIONIC OR NEUTRALLY CHARGED TYPE ONLY. PAM REQUIREMENTS ARE AS FOLLOWS:
 - 6.1.1. CATIONIC PAM IS NOT ALLOWED BECAUSE OF ITS TOXICITY TO FISH AND AQUATIC LIFE.
 - 6.1.2. ANIONIC AND NEUTRALLY CHARGED PAM SHALL MEET THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR LESS THAN 0.05% BY WEIGHT ACRYLAMIDE MONOMER.
 - 6.1.3. ANIONIC AND NEUTRALLY CHARGED PAM SHALL HAVE A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLES.
 - 6.1.4. PAM MIXTURES SHALL BE NON-COMBUSTIBLE.
 - 6.1.5. PAM SHALL CONTAIN ONLY MANUFACTURER-RECOMMENDED ADDITIVES.

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- 6.2. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE RESEARCHED, APPLIED IN ACCORDANCE WITH MANUFACTURE'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1.b).
- 6.3. FLOCCULANTS SHALL BE HANDLED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USE CONFORMING TO ALL FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS.
- 6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANTS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT FOR BOTH ACUTE AND CHRONIC TOXICITY TESTS WHICH VERIFIES THAT THE FLOCCULANT EXHIBITS 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.
- 6.5. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.
- 6.6. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. DO NOT APPLY EMULSION FORMS OF FLOCCULANTS DIRECTLY TO STORMWATER RUNOFF OR TO STREAMS, WETLANDS, OR OTHER WATER RESOURCES DUE TO SURFACTANT TOXICITY.
- 6.7. FLOCCULANT POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. IF APPROVED BY THE MANUFACTURER, FLOCCULANT MAY BE MIXED WITH DRY SILICA SAND, FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS TO AID IN SPREADING. FLOCCULANTS MAY ALSO BE APPLIED WITH A WATER TRUCK OR AS PART OF HYDROSEEDING. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.
- 6.8. MANUFACTURER'S GUIDANCE SHOULD BE FOLLOWED FOR BLOCK, LOG AND SOCK SPACING CONFIGURATIONS, BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☐ YES ☐ NO

IF YES, THE FOLLOWING APPLY:

- 7.1. 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. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED 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

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CONTAINMENT 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. 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.

- 7.5. 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 FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT 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 WET 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 DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
 - 7.11.3. 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 PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

- 8.1. INSPECTION PRACTICES (3.5.8)
 - 8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, 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. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
 - 8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
 - 8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
 - 8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT

CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.

- 8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT
- 8.1.3. 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") (3.5.1.0).
- 8.1.4. 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 FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.
- 8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER 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.
- 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
- 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 OUTFALL 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 ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION 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.e 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 SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT
- 8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL 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).

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8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

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.b)
- 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. 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. (3.5.8.2.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 THUS 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 WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE 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 FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.
- 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)

QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

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 DEPICTED 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): SOD FOR SIDESLOPE STABILIZATION. AND RIP-RAP FOR OUTLET DITCH STABILIZATION.

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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
- ☑ PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
- ☑ MINERAL AGGREGATES, ASPHALT
- **⊠** EARTH
- ☑ LIQUID TRAFFIC STRIPING MATERIALS, PAINT
- ⊠ ROCK
- □ CURING COMPOUND
- 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 TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN 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.

10.5. 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 ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. SANITARY WASTE (3.5.5.b)

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):
 - $\hfill \hfill \square$ Dewatering of work areas of collected stormwater and ground water.
 - WATERS 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)
 - POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE
 - ☑ UNCONTAMINATED GROUNDWATER OR SPRING WATER.
 - ☐ 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 DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FI OCCILI ANTS
- 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 BEGLIA ATIONS
- 11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (3.5.1.i)?

☐ 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)
 - 12.1.1. 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.
 - 12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT 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 TDOT CONSTRUCTION ENGINEER

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 RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. 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

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CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER PLINOEE

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 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 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 OUTLET OF THE SITE. UPON COMPLETION OF CONSTRUCTION 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 INFORMATION AND 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 SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- 12.4.4. 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 CLEANUP.
- 12.4.5. 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.
- 12.4.6. 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.
- 12.4.7. 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 ENGINEER 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.

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12.4.8. 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.

12.5. SPILL NOTIFICATION (5.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOLIR PERIOD:

- 12.5.1. THE TDOT 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.
- 12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.
- 12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, 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, 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. RECORD-KEEPING

13.1. REQUIRED RECORDS

TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (3.5.3.1.m) (4.1.5.) (6.2.1):

- 13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
- 13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.
- 13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- 13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.
- 13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.
- 13.1.6. COPY OF SITE EPSC INSPECTOR'S 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 (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 TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER
- 13.2.6. IF 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)

- 13.3.1. 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 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.
- 13.3.2. THE STAGES DEPICTED WITHIN 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 STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.
- 13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:
 - 13.3.3.1. 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;
 - 13.3.3.2. 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

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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;

- 13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;
- 13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;
- 13.3.3.5. 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.
- 13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 7 DAYS BY THE PROJECT EPSC INSPECTOR.
- 13.3.3.7. 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. 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).
- 13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA, TDOT OR 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
 - 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 LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.5. NOTICE OF TERMINATION (8.0)

- 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 NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE
 - 13.5.2.1. 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
 - 13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES

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THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND

- 13.5.2.3. 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
- 13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT
 GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND
- 13.5.2.5. 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
- 13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND
- 13.5.2.7. 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.

13.6. 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.

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 PEÑALTY OF PERJURY.

AUTHORIZED TOOT PERSONNEL SIGNATURE (3.3.1)

JOHN BARRETT

PRINTED NAME

C.E. MANAGER 2

TITLE

13 2017

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 ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE, I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVEDESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, 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 PERSO	ONNEL SIGNATUR	RE (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 OR TRACKING NO.	EXPIRATION DATE*			
TDEC ARAP		&				
CORPS OF ENGINEERS (USACE)						
TVA 26A						
TDEC CGP		22				
OTHER:						

^{*}THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

47033-1223-54

	ı
TENNESSEE D.O.T.	DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEE NO.
P.E.	2017	47033-1223-54	5-01
CONST	2017	STP-M-332(9)	S-8

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	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		110+25 LT	11.6	0.5			N/A	WWC-3/EPH-1	
1	OUT-2		99+05 RT	8.0	5.2			YES	UDF-2/WWC-2	
1		OUT-2A	94+80 LT	10.6	1.1			N/A	UDF-2/WWC-2	
1		OUT-2B	96+05 LT	9.3	0.7			N/A	UDF-2/WWC-2	
1		OUT-2C	97+35 LT	8.0	1.2			N/A	UDF-2/WWC-2	
1		OUT-2D	97+65 LT	10.0	0.4			N/A	UDF-2/WWC-2	
1		OUT-2E	97+95 RT	4.3	0.4			N/A	UDF-2/WWC-2	
1		OUT-2F	98+75 RT	0.7	0.2			N/A	UDF-2/WWC-2	
1		OUT-2G	99+00 RT	2.0	0.2			N/A	UDF-2/WWC-2	
1		OUT-2H	80+65 LT TURKEY CREEK RD	5.1	0.3			N/A	UDF-2/WWC-2	
1		OUT-2I	100+75 RT	5.9	0.2			N/A	UDF-2/WWC-2	
1		OUT-2J	101+65 RT	4.2	0.1			N/A	UDF-2/WWC-2	
1		OUT-2K	103+00 RT	4.2	0.1			N/A	UDF-2/WWC-2	
1		OUT-2L	103+00 LT	7.5	0.1			N/A	UDF-2/WWC-2	
1		OUT-2M	103+55 LT	7.7	0.1			N/A	UDF-2/WWC-2	
1		OUT-2N	104+00 LT	7.1	0.1			N/A	UDF-2/WWC-2	
1		OUT-2P	79+50 LT SUMMERDALE DR	7.4	0.6			N/A	UDF-2/WWC-2	
1		OUT-2Q	79+50 LT SUMMERDALE DR	5.6	1.8			N/A	UDF-2/WWC-2	
1	OUT-3		110+25 LT	8.6	6.5			YES	WWC-3/EPH-1	
1	OUT-4		115+00 RT	8.9	1.9			N/A		
1	OUT-5		124+35 RT	6.3	3.9			N/A		
1	OUT-6		136+50 RT	7.4	1.6			N/A		
1	OUT-7		137+65 LT	10.5	8.6			YES		
1		OUT-7A	138+45 LT	3.0	3.0			N/A		
1		OUT-7B	139+45 LT	6.0	5.6			YES		
2-3	OUT-9		99+05 RT	7.8		8.7	8.7	YES	UDF-2/WWC-2	
2-3		OUT-9A	94+80 LT	10.6		1.1	1.1	N/A	UDF-2/WWC-2	
2-3		OUT-9B	96+05 LT	9.3		0.7	0.7	N/A	UDF-2/WWC-2	
2-3		OUT-9C	97+35 LT	8.0		1.2	1.2	N/A	UDF-2/WWC-2	
2-3		OUT-9D	97+65 LT	10.0		0.4	0.4	N/A	UDF-2/WWC-2	
2-3		OUT-9E	95+85 RT	3.6		0.2	0.2	N/A	UDF-2/WWC-2	
2-3		OUT-9F	97+85 RT	2.2		0.2	0.2	N/A	UDF-2/WWC-2	
2-3		OUT-9G	98+80 RT	1.4		0.6	0.6	N/A	UDF-2/WWC-2	
2-3		OUT-9H	99+00 RT	2.6		0.1	0.1	N/A	UDF-2/WWC-2	

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

OUTFALLS OUT-2"O" AND OUT-8 HAVE BEEN OMITTED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SEE D.O.T.	DIVISION
TENNESS	DESIGN

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	47033-1223-54	
CONST.	2017	STP-M-332(9)	S-9

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	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
2-3		OUT-9I	80+65 LT TURKEY CREEK RD	5.1		0.3	0.3	N/A	UDF-2/WWC-2	
2-3		OUT-9J	100+75 RT	4.5		0.1	0.1	N/A	UDF-2/WWC-2	
2-3		OUT-9K	101+50 RT	4.7		0.1	0.1	N/A	UDF-2/WWC-2	
2-3		OUT-9L	103+75 RT	2.2		0.1	0.1	N/A	UDF-2/WWC-2	
2-3		OUT-9M	79+50 LT TURKEY RD	5.6		1.8	1.8	N/A	UDF-2/WWC-2	
2-3		OUT-9N	100+60 LT	7.4		0.6	0.6	N/A	UDF-2/WWC-2	
2-3		OUT-9P	100+65 LT	8.8		0.1	0.1	N/A	UDF-2/WWC-2	
2-3		OUT-9Q	102+50 LT	5.1		0.2	0.2	N/A	UDF-2/WWC-2	
2-3		OUT-9R	103+90 LT	3.1		0.5	0.5	N/A	UDF-2/WWC-2	
2-3		OUT-9S	199+40 RT FAIRGROUND DR	2.5		0.4	0.4	N/A	UDF-2/WWC-2	
2-3		OUT-9T	199+40 LT FAIRGROUND DR	4.7		0.01	0.01	N/A	UDF-2/WWC-2	
2-3	OUT-10		110+55 RT	5.2		2.0	2.0	N/A	WWC-3/EPH-1	
2-3		OUT-10A	112+15 RT	8.2		0.3	0.3	N/A	WWC-3/EPH-1	
2-3		OUT-10B	114+15 RT	4.2		0.3	0.3	N/A	WWC-3/EPH-1	
2-3		OUT-10C	110+05 RT	15.1		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-10D	109+85 RT	15.2		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-10E	109+65 RT	11.7		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-10F	109+20 RT	11.4		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-10G	21+00 LT LOOP RD	6.4		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-10H	21+00 RT LOOP RD	8.8		0.2	0.2	N/A	WWC-3/EPH-1	
2-3		OUT-10I	21+50 RT LOOP RD	8.8		0.2	0.2	N/A	WWC-3/EPH-1	
2-3		OUT-10J	108+05 RT	5.4		0.5	0.5	N/A	WWC-3/EPH-1	
2-3	OUT-11		123+60 RT	6.1		1.6	1.6	N/A		
2-3		OUT-11A	124+00 RT	6.0		0.1	0.1	N/A		
2-3		OUT-11B	123+50 RT	5.5		0.4	0.4	N/A		
2-3		OUT-11C	123+50 LT	4.5		0.4	0.4	N/A		
2-3		OUT-11D	121+15 RT	1.5		0.3	0.3	N/A		
2-3		OUT-11E	121+15 RT	3.3		0.1	0.1	N/A		
2-3		OUT-11F	121+15 LT	7.6		0.3	0.3	N/A		
2-3	OUT-12		124+50 RT	6.2		5.1	5.1	YES		
2-3		OUT-12A	124+75 RT	3.0		0.02	0.02	N/A		
2-3		OUT-12B	125+00 RT	10.5		0.1	0.1	N/A		
2-3		OUT-12C	125+25 RT	11.0		0.2	0.2	N/A		
2-3		OUT-12D	126+40 RT	2.0		0.2	0.2	N/A		
2-3		OUT-12E	124+25 LT	5.9		3.7	3.7	N/A		

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

OUTFALL OUT-9"O" HAS BEEN OMITTED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TENNESSEE D.O.T.

LE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	47033-1223-54	
CONST	2017	STP-M-332(9)	S-10

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	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
2-3		OUT-12F	124+75 LT	4.4		0.2	0.2	N/A		
2-3		OUT-12G	125+00 LT	4.5		0.1	0.1	N/A		
2-3		OUT-12H	125+25 LT	4.3		0.2	0.2	N/A		
2-3		OUT-12I	126+40 LT	5.4		0.4	0.4	N/A		
2-3	OUT-13		135+35 RT	3.4		2.1	2.1	N/A		
2-3		OUT-13A	135+35 RT	9.8		0.1	0.1	N/A		
2-3		OUT-13B	134+45 RT	4.4		0.1	0.1	N/A		
2-3		OUT-13C	134+20 RT	4.9		0.1	0.1	N/A		
2-3		OUT-13D	133+65 RT	1.5		0.1	0.1	N/A		
2-3		OUT-13E	133+00 RT	6.1		0.3	0.3	N/A		
2-3		OUT-13F	131+05 RT	1.3		0.3	0.3	N/A		
2-3		OUT-13G	131+05 LT	3.5		0.2	0.2	N/A		
2-3		OUT-13H	131+25 LT	3.1		0.1	0.1	N/A		
2-3		OUT-13I	49+05 RT SECOND DR	2.7		0.3	0.3	N/A		
2-3		OUT-13J	133+65 LT	3.1		0.1	0.1	N/A		
2-3		OUT-13K	59+30 LT LAKERIDGE DR	3.3		0.1	0.1	N/A		
2-3		OUT-13L	134+55 LT	0.6		0.1	0.1	N/A		
2-3		OUT-13M	135+10 LT	0.9		0.1	0.1	N/A		
2-3		OUT-13N	128+90 LT	6.1		0.1	0.1	N/A		
2-3	OUT-14		138+05 RT	12.0		0.3	0.3	N/A		
2-3		OUT-14A	138+40 RT	18.4		0.1	0.1	N/A		
2-3		OUT-14B	138+50 RT	3.7		0.1	0.1	N/A		
2-3		OUT-14C	139+40 RT	1.4		0.1	0.1	N/A		
2-3	OUT-15		137+65 LT	10.4		0.1	0.1	N/A		
2-3		OUT-15A	138+50 LT	2.6		0.1	0.1	N/A		
1-3	OUT-16		92+25 RT	13.1	5.2	5.2	5.2	YES	UDF-1/WWC-1	
1-3		OUT-16A	90+70 LT	13.7	1.3	1.3	1.3	N/A	UDF-1/WWC-1	
1-3		OUT-16B	92+25 LT	11.4	3.9	3.9	3.9	N/A	UDF-1/WWC-1	
1	OUT-17		107+30 LT	12.1	0.3			N/A		
1		OUT-17A	104+75 LT	4.5	0.1			N/A		
1		OUT-17B	105+45 LT	8.9	0.2			N/A		
1	OUT-18		110+40 RT	7.3	0.5			N/A	WWC-3/EPH-1	
2-3	OUT-18		110+40 RT	8.7		0.1	0.1	N/A	WWC-3/EPH-1	
1	OUT-19		110+55 LT	8.3	0.8			N/A	WWC-3/EPH-1	
2-3	OUT-19		110+55 LT	6.5		11.3	11.3	YES	WWC-3/EPH-1	
2-3		OUT-19A	109+50 LT	3.4		0.01	0.01	N/A	WWC-3/EPH-1	

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

JLE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	47033-1223-54	
CONST	2017	STP-M-332(9)	S-11

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	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
2-3		OUT-19B	19+30 RT LOOP RD	11.4		0.2	0.2	N/A	WWC-3/EPH-1	
2-3		OUT-19C	18+90 RT LOOP RD	11.2		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-19D	18+90 LT LOOP RD	6.8		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-19E	108+55 LT	8.7		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-19F	107+40 LT	10.6		0.2	0.2	N/A	WWC-3/EPH-1	
2-3		OUT-19G	107+40 LT	12.0		6.2	6.2	YES	WWC-3/EPH-1	
2-3		OUT-19H	107+20 LT	12.0		0.3	0.3	N/A	WWC-3/EPH-1	
2-3		OUT-19I	106+00 LT	8.3		0.3	0.3	N/A	WWC-3/EPH-1	
2-3		OUT-19J	105+55 LT	8.8		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-19K	110+85 LT	4.9		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-19L	111+80 LT	9.4		0.2	0.2	N/A	WWC-3/EPH-1	
2-3		OUT-19M	112+30 LT	7.4		0.4	0.4	N/A	WWC-3/EPH-1	
2-3		OUT-19N	113+70 LT	7.7		0.7	0.7	N/A	WWC-3/EPH-1	
2-3		OUT-19P	115+05 LT	4.8		0.1	0.1	N/A	WWC-3/EPH-1	
2-3		OUT-19Q	115+05 LT	8.3		1.0	1.0	N/A	WWC-3/EPH-1	
2-3		OUT-19R	116+15 LT	8.0		0.8	0.8	N/A	WWC-3/EPH-1	
2-3		OUT-19S	116+15 RT	7.3		0.2	0.2	N/A	WWC-3/EPH-1	
2-3		OUT-19T	116+15 RT	6.1		0.2	0.2	N/A	WWC-3/EPH-1	
1	OUT-20		21+50 RT LOOP RD	6.6	0.8			N/A		
1	OUT-21		17+85 RT LOOP RD	3	3.8			N/A		

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

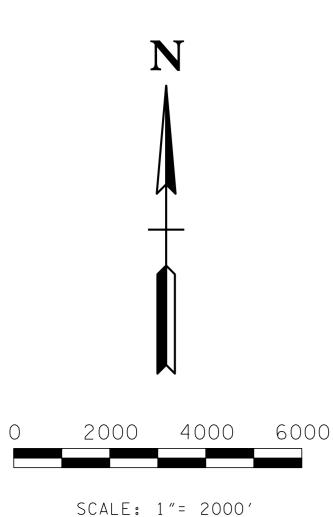
OUTFALL OUT-19"O" HAS BEEN OMITTED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ILE NC

Index Of Sheets

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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 MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT ROAD SP. SV. 2 <u>Maysoon haddad</u>

DESIGNER <u>STACY WEAVER</u>

P.E. NO. 47033-1223-54 (DESIGN)

PIN_107777.00

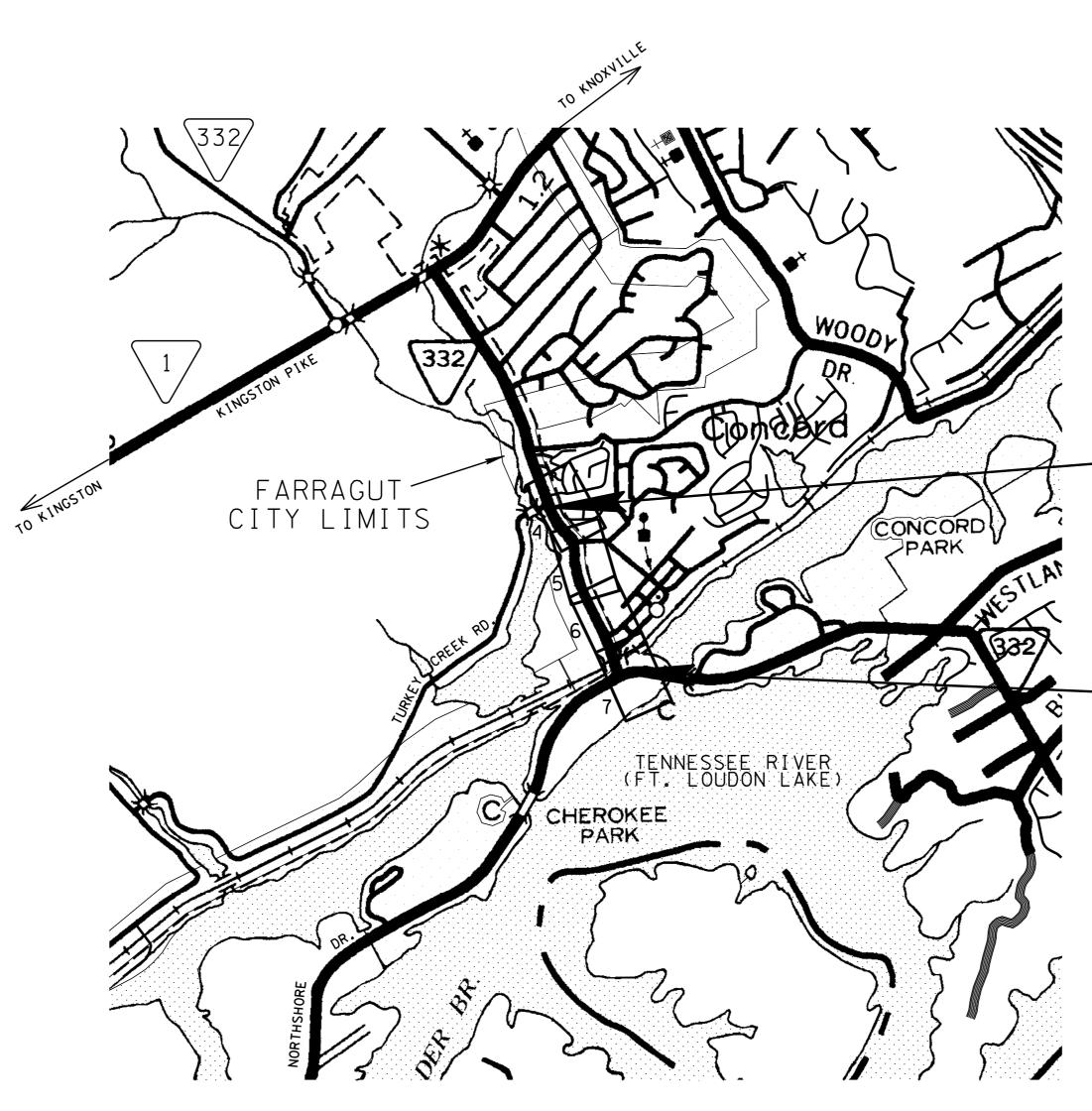
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

KNOX COUNTY

S.R. 332 (CONCORD RD.), FROM TURKEY CREEK ROAD
TO NORTHSHORE DRIVE

R.O.W.

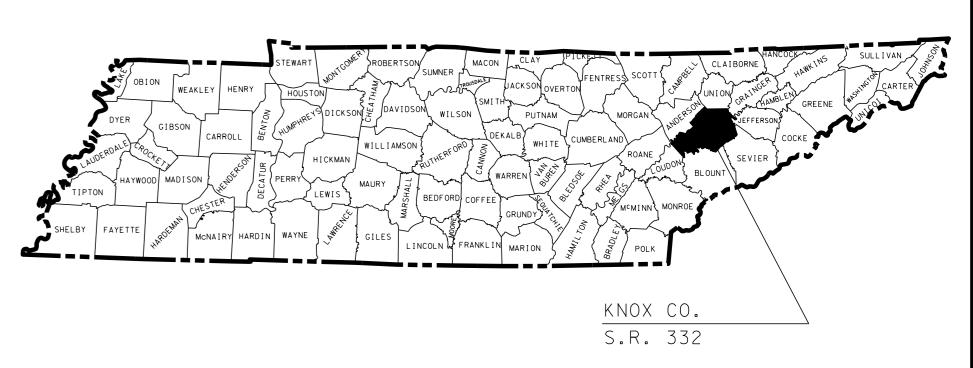
STATE HIGHWAY NO. 332 F.A.H.S. NO. 332



R.O.W. PROJECT LENGTH 0.730 MILES

TENN.	YEAR	SHEET NO.
I CIVIV .	2013	1
FED. AID PROJ. NO.	STP-M-3	332(9)
STATE PROJ. NO.	47033-22	23-54
C D 339		KNOV CO

S.R. 332 KNOX CO.



NO EQUATIONS
NO EXCLUSIONS

47033-2223-54 BEGIN PROJECT STP-M-332(9) STA. 100+24.64 (R.O.W.)

47033-2223-54 END PROJECT STP-M-332(9) STA.138+81.07 (R.O.W.)



SEALED BY

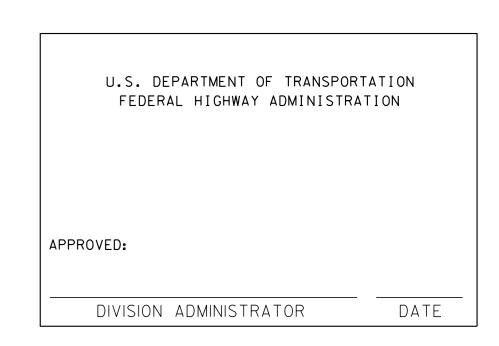
APPROVED:

DATE:

APPROVED:

ORIGINAL SURVEY: NOVEMBER 2008 UPDATED SURVEY: MARCH 2010

TRAFFIC	DATA
AADT (2013)	16554
AADT (2033)	28594
DHV (2033)	3145
D	55 - 45
T (AADT)	2 %
T (DHV)	1 %
V	40 MPH



47033-3223-54

BEGIN PROJECT NO. STP-M-332(9) CONSTRUCTION

47033-3223-54

CHECKED BY: RANDY PLUMMER

END PROJECT NO. STP-M-332(9) CONSTRUCTION

TENN. 2017 STP-M-332(9) FED. AID PROJ. NO. 47033-3223-54 STATE PROJ. NO.

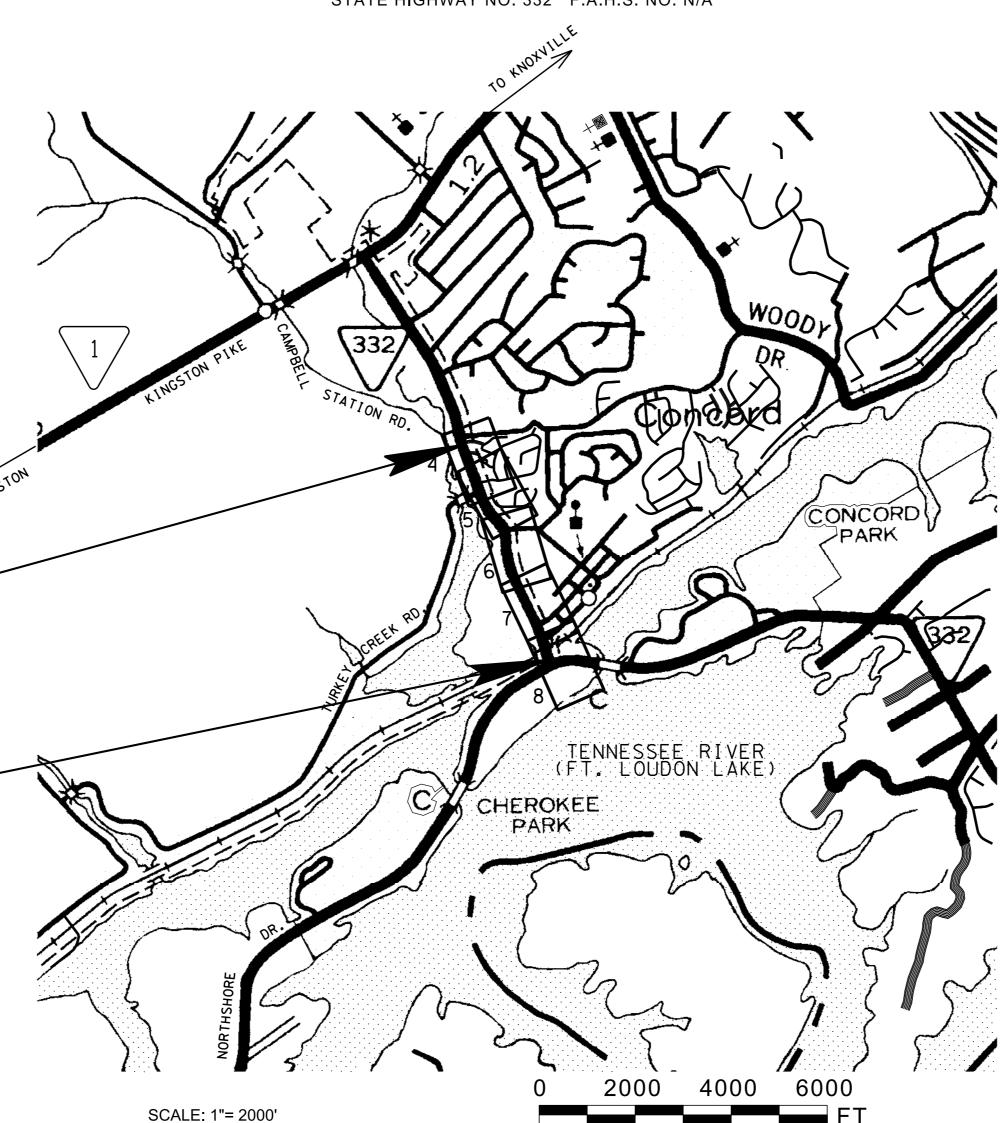
KNOX COUNTY

S.R. 332 (CONCORD RD.), FROM NORTH OF TURKEY CREEK ROAD TO NORTHSHORE DRIVE

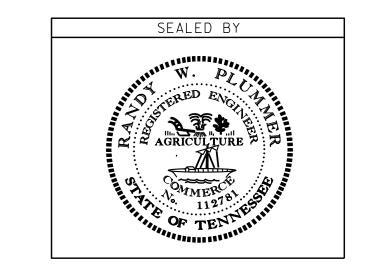
CONSTRUCTION

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

STATE HIGHWAY NO. 332 F.A.H.S. NO. N/A



NO EXCLUSIONS



KNOX CO. S.R. 332

APPROVED:

APPROVED:



U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

DIVISION ADMINISTRATOR

DATE

SURVEY 11-06-08	TRAFFIC	DATA
UPDATED 03-04-10	ADT (2017)	18692
UPDATED 10-14-10	ADT (2017)	31002
UPDATED 02-19-13	DHV (2037)	3409
UPDATED 06-20-14	D	55 - 45
UPDATED 12-08-15		
UPDATED 12-17-15	T (ADT)	2 %
UPDATED 01-06-16	T (DHV)	1 %
UPDATED 11-28-16	V	40 MPH

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS OBTAINED 06-16-08 USING GEOID 2003 MODEL AND DATUM

NOVEMBER 2008

SURVEY	11-06-08	TRAFFIC	DATA
UPDATED	03-04-10	ADT (2017)	18692
UPDATED	10-14-10	ADT (2017)	31002
UPDATED	02-19-13	DHV (2037)	3409
UPDATED	06-20-14	D	55 - 45
UPDATED	12-08-15		
UPDATED	12-17-15	T (ADT)	2 %
UPDATED	01-06-16	T (DHV)	1 %
UPDATED	11-28-16	V	40 MPH

ADJUSTMENT FACTOR OF 1.00009

TDOT ROAD SP. SV. 2: RANDY PLUMMER DESIGNER: KAREN LEE

THE REASONABLE COST ANALYSIS VALUE.

AND IN THE PROPOSAL CONTRACT.

47033-1223-54 (DESIGN)

107777.00 PIN NO.

STA. 90+45.00

STA. 139+57.15

N 565822.9000 E 2517650.8729

N 561289.9209 E 2519442.4204

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES

CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW

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

ROADWAY LENGTH

BRIDGE LENGTH

BOX BRIDGE

PROJECT LENGTH



0.899 MILES

0.031 MILES

0.930 MILES

0.000 MILES

ROADWAY INDEX

STANDARD ROADWAY DRAWINGS

SHEET NAME	SHEET NO.	DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION
TITLE SHEET	1	ROADWAY C	ROSS SECTI	ONS43 - 72	D-PS-1	03-15-76	STRUTTING DETAILS FOR CORR. METAL &
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A, 1A1	SIDE ROAD C	ROSS SECT	IONS73 - 80	D DE 404	04 00 45	STRUCTURAL PLATE ROUND PIPE
STANDARD TRAFFIC OPERATIONS DRAWINGS ANDSTRUCTURE DRAWING	1A2			ONS81	D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 6:1 SLOPES)
PROJECT COMMITMENT	1B			ON PREVENTION PLAN (SWPPP) INDEX S-1	D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 6:1 SLOPES)
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX		UTILITIES INL)EX	U1-1	D-PE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL
ESTIMATED ROADWAY QUANTITIES	2A						PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES	2A1	ROADWAY	DESIGN	STANDARDS	D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
ESTIMATED UTILITIES QUANTITIES	2A2	RD-A-1	12-18-99	STANDARD ABBREVIATIONS	D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL
ESTIMATED SIGNAL QUANTITIES	2A3	RD-L-1	10-26-94	STANDARD LEGEND	D12 00/1	00 11 10	PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
TYPICAL SECTIONS AND PAVING SCHEDULE	2B – 2B3	RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS	D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL
GENERAL NOTES	2C – 2C2	RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING	D DE 404	00 44 40	PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
SPECIAL NOTES AND SCOPE OF WORK	2D	RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND	D-PE-42A	06-14-13	42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
TABULATED QUANTITIES	2E – 2E1	ND-L- 4	04-10-04	LIGHTING	D-PE-42B		42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL
DETAIL SHEETS	2F – 2F1	RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND			PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
ROUNDABOUT DETAILS			00.00.40	SEDIMENT CONTROL	D-PE-48A	06-14-13	48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
RIGHT-OF-WAY NOTES, UTILITY NOTES, UTILITY OWNERS,		RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-PE-48B		48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL
AND DISTURBED AREA	3	RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND			PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE	(S)3A – 3C			SEDIMENT CONTROL	D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR " ENDWALLS (FOR 3:1, 4:1 & 6:1 SLOPES)
PRESENT LAYOUT AND PROPOSED R.O.W.		RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS	D-SEW-1A	06-14-13	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE
PROPOSED LAYOUT AND PROFILE	4A	RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL	D OLVV IA	00 14-10	GRATE FOR 15" AND 18" PIPES - 6:1 SLOPE
PRESENT LAYOUTS	5 – 8			HIGHWAYS WITH FLUSH MEDIANS	D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE
PROPOSED R.O.W.	5A – 8A	RD01-TS-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER	D DE 4	00 10 70	GRATE FOR 15" AND 18" PIPES 12:1 SLOPE
PROPOSED LAYOUTS	5B – 8B	RD01-TS-8	04-08-16	SHARED USE PATH TYPICAL SECTIONS	D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE. 36" TO 78"
PROFILES	5C – 8C	RD01-TS-9	06-15-12	DESIGN STANDARDS FOR SINGLE LANE URBAN AND	D-PE-4	10-10-16	STRAIGHT CONCRETE ENDWALL
PROFILE OF SIDE ROADS	9 – 10	11201100	00 10 12	RURAL ROUNDABOUTS	D-PE-8	01-19-97	DETAIL OF STANDARD PIPE AND PIPE-ARCH CULVER WITH BEVELED ENDS AND RIP-RAP
PROFILE OF PRIVATE DRIVES	11 – 12	RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS	D-PE-9	04-25-90	CONCRETE ENDWALLS TYPE "B" (FOR ROUND & SIDE
DRAINAGE MAP	13 – 14	RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT			TAPERED INLETS, PIPE SIZES 15" TO 78", ALL SKEWS 2:1 AND 4:1 SLOPES) 1976
CULVERT CROSS-SECTION	15 – 17	RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND	D-PE-9A	10-25-82	GENERAL DIMENSION QUANTITIES ROUND PIPE
EROSION PREVENTION & SEDIMENT CONTROL NOTES	18	ND01-3-11A	10-13-02	CONSTRUCTION			CONCRETE ENDWALLS TYPE "B" (PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES) 1976
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION	18A	RD01-SA-1	10-15-02	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION	D-PE-9E		BILL OF STEEL (SHEET 3 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED
EROSION PREVENTION & SEDIMENT CONTROL PLAN (PHASE	E 1)19, 19A – 19D	RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND			INLET, PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 SLOPE)
EROSION PREVENTION & SEDIMENT CONTROL PLAN (PHASE	E 2)20, 20A – 20D			GENERAL NOTES	CATOUR		1976
EROSION PREVENTION & SEDIMENT CONTROL PLAN (PHASE	E 3)21, 21A – 21D	RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION		ASINS ANI	D MANHOLES
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	22	RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE	D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LF CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE
TRAFFIC CONTROL PLANS	23, 23A – 23R			UNDIVIDED ROADWAYS			CURB)
SIGNING AND PAVEMENT MARKING PLANS	24 – 28	RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS	D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
SIGN SCHEDULE SHEETS	29 – 32	PIPE CIII V	/FRTS AN	D ENDWALLS	D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH
PROPOSED SIGNAL LAYOUT	33				/- /- /-		BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
TRAFFIC SIGNAL DETAILS	33A	D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION	D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12
PROPOSED LIGHTING LAYOUT	34-38	D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE			CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
LUMINAIRES AND POLE DATA	39			INSTALLATION	D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12
DECORATIVE LIGHTING DETAILS	40	D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION			CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
PULL BOXES AND TRENCHES DETAILS	41	D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE	D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH
CONTROL CENTER AND ELECTRICAL DETAILS	42						BASIN

TYPE	YEAR	PROJECT NO.	NO.
CONST.	2017	STP-M-332(9)	1 A

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ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH	RP-I-5	12-18-96	EXAMPLES OF STREET & ALLEY INTERSECTIONS	T-M-17	02-20-14	PAVEMENT MARKING DETAILS FOR ROUNDABOUTS
		BASIN	RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS	T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
D-CB-12SC	03-11-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 12 CATCH BASIN	RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE	T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO.			CURBS AND CONCRETE CURBS AND GUTTERS	T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE
		14 CATCH BASIN	RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS			DELINEATORS
D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN	RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS	T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN	RP-R-2		STANDARD CONSTRUCTION DETAILS FOR ROUNDABOUTS	T-WZ-40	03-05-17	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
D-CB-25LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 25LP CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)	RP-H-3	10-10-16	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL	T-WZ-41	03-05-17	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
D-CB-25P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO.	RP-H-4	10-10-16	PERPENDICULAR CURB RAMP	T-WZ-42	03-05-17	CENTER LANE CLOSURES AT NEAR SIDE OF
		25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)	RP-H-5	10-10-16	PARALLEL CURB RAMP			INTERSECTIONS
D-CB-25RA	01-27-16	STANDARD PRECAST 48" CIRCULAR NO. 25 CATCH	RP-H-7	10-10-16	PERPENDICULAR CURB RAMP IN CURVE	EROSION	PREVENTI	ON AND SEDIMENT CONTROL
D-CD-25KA	01-27-10	BASIN (FOR USE WITH 6" MOUNTABLE CURB)	RP-H-8	10-10-16	PERPENDICULAR CURB RAMP PLACED OUTSIDE	EC-STR-2	08-01-12	SEDIMENT FILTER BAG
D-CB-25RB	01-27-16	STANDARD PRECAST CIRCULAR NO. 25 CATCH BASIN			CURVE	EC-STR-3B	08-01-12	SILT FENCE
		(FOR USE WITH 6" MOUNTABLE CURB)	RP-H-9	10-10-16	PARALLEL CURB RAMP IN CURVE	EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
D-CB-25S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)	RP-S-7	02-05-16	DETAILS FOR CONCRETE SIDEWALKS	EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
D-CB-25SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 25 CATCH	SAFETY D	ESIGN AN	ID FENCES	EC-STR-8	06-10-14	FILTER SOCK
D-0D-230D	05-11-14	BASIN (FOR USE WITH 6" MOUNTABLE CURB)	S-CC-1	03-28-17	CRASH CUSHION	EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
D-CB-25SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 25 CATCH	S-CZ-1		CLEAR ZONE CRITERIA	EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE
D 0D 00DD	20.44.44	BASIN (FOR USE WITH 6" MOUNTABLE CURB)	S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS			INSTALLATION
D-CB-38RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN	S-PL-2	10-10-16	SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES	EC-STR-37	06-10-14	SEDIMENT TUBE
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN	S-PL-3	10-10-16	SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE	EC-STR-6	05-06-16	ROCK CHECK DAM
D-CB-38SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH			ENDS	EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
		BASIN	S-PL-4	10-10-16	SAFETY PLAN FOR BRIDGE PIERS IN CLEAR ZONE	EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN	S-PL-6	10-10-16	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE	EC-STR-19	04-01-08	CATCH BASIN PROTECTION
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN	S-GR31-1	03-28-17	W-BEAM GUARDRAIL	EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
D CD 42CD	02 11 14			03-20-17		EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN	S-GR31-1A S-GRC-1	10-10-16	W-BEAM BARRIER FASTENING HARDWARE GUARDRAIL CONNECTION TO BRIDGE ENDS OR	EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES			BARRIER WALL	EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES	S-GRT-2	03-28-17	TYPE 38 GUARDRAIL TERMINAL	EC-STR-44A		CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER
D-CB-99RA		BILL OF STEEL FOR ROUND CATCH BASIN LIDS	S-GRT-2P	10-10-16	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL			DETAILS
	03-19-14	TYPE 'B' CAST IRON FRAME, GRATE &	S-F-1	05-24-12	HIGH VISIBILITY FENCE	EC-STR-45		CATCH BASIN FILTER ASSEMBLY (TYPE 5)
D-CBB-12A	05-27-01	NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS	DESIGN -	TRAFFIC (CONTROL	EC-STR-45A		CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
D-CBB-12B	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & 6" MOUNTABLE	T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING	EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
		INLET DETAILS FOR NOS. 25, 26 & 27 TYPE CATCH BASINS			ABBREVIATIONS	EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE	T-M-2	10-10-16	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS	FO OTD 47		DETAILS
		CATCH BASINS	T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS,	EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
D-JBS-3	08-01-12	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 JUNCTION BOX	0		MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS	EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
D-JBS-4	08-01-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 4 JUNCTION BOX	T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS	EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
D-MH-2	02-02-16	STANDARD MASONRY & PRECAST NO. 3 MANHOLE	T-M-10	06-15-12	SIGNING AND PAVEMENT MARKINGS FOR SHARED- USE PATHS	EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
D-MH-3	04-21-14	TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE	T-M-11	10-10-16	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE			
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS			LANES OR ROUTES			
D-RF-1	02-02-16	STANDARD PRECAST RISER	T-M-12	01-30-15	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE			
RP-D-15	04-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS	T M 40		LANES ON URBAN ROADWAYS			
RP-D-16	04-08-16	DETAILS OF LOWERED STANDARD CONCRETE	T-M-13		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES			
DD D 112	40.00	DRIVEWAYS	T-M-14	11-01-11	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AT INTERSECTIONS			
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY						

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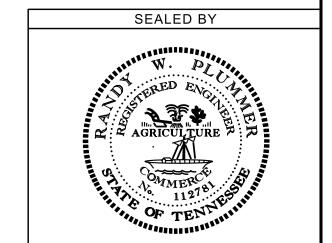
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> STANDARD ROADWAY DRAWINGS

SIGNS T-S-8 HIGHWAY SHIELDS USED ON STATE NUMBERED 07-15-91 ROUTES AND ARROWS T-S-9 STANDARD LAYOUT GROUND MOUNTED SIGNS 06-10-14 T-S-10 04-04-12 STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN T-S-13 STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-07-20-12 AWAY TYPE POST FOOTING DETAILS, I-BEAMS T-S-17 07-02-15 STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE T-S-19 STANDARD STEEL SIGN SUPPORTS 07-19-15 T-S-20 11-01-11 SIGN DETAILS T-S-23A MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST 07-02-15 SIGN SUPPORT T-S-23B MULTI-DIRECTIONAL SLIP BASE BREAKAWAY 07-19-13 STRUCTURAL PIPE SIGN SUPPORT SIGNALS T-SG-2 06-27-16 LOOP LEAD-INS, CONDUIT AND PULL BOXES ALTERNATE DETECTION DETAILS T-SG-3A 06-27-16 T-SG-5 06-27-16 CONTROLLER CABINET DETAILS T-SG-6 PEDESTRIAN SIGNAL DETAILS T-SG-7 06-27-16 SIGNAL HEAD ASSEMBLIES T-SG-7C TYPICAL SIGNAL HEAD PLACEMENT ONE-LANE AND TWO-LANE APPROACHES T-SG-7D TYPICAL SIGNAL HEAD PLACEMENT TWO-LANE APPROACHES T-SG-7F TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE APPROACHES T-SG-7I TYPICAL SIGNAL HEAD PLACEMENT **FOUR-LANE APPROACHES** T-SG-9 06-27-16 DETAILS OF CANTILEVER SIGNAL SUPPORT T-SG-9A MISCELLANEOUS SIGNAL DETAILS 06-27-16 T-SG-10 06-27-16 MAST ARM POLE AND STRAIN POLES FOUNDATION **DETAILS** T-SG-11 MAINTENANCE OF EXISTING SIGNALS DURING 06-27-16 HIGHWAY CONSTRUCTION 12-JUN-2017 13:25 \\JJ01WF01.tdot.state.tn.us\01Shared\SURVDES\DESIGN\PROJECTS\Kn T-SG-12 06-27-16 TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS **LIGHTING AND UTILITIY POLES** T-L-1 STANDARD LIGHTING FOUNDATION DETAILS 12-04-13 T-L-1SA 09-11-13 STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS T-L-3 STANDARD LIGHITNG DETAILS PULL BOXES T-L-4 05-25-11 STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

STANDARD TRAFFIC OPERATIONS DRAWINGS STRUCTURE DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-332(9)	1A2



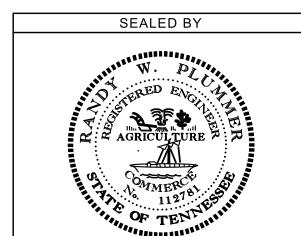
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> STANDARD TRAFFIC OPERATIONS DRAWINGS

		PROJECT COMMITMENTS	
COMMITMENT ID	SOURCE DIVISION	DESCRIPTION	STA./LOCATION
EDHZ001	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS CONDUCTED ON BRIDGE # 47524060001, CONCORD ROAD OVER SOUTHERN RAILROAD, LM 1.87. NO ACM WAS DETECTED. NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND WASTE DISPOSAL ARE ANTICIPATED FOR THESE STRUCTURES AND THE MATERIAL CAN BE DEPOSITED IN A C&D LANDFILL. PRIOR TO THE DEMOLITION OR REHABILITATION OF ANY STRUCTURE (BRIDGE OR BUILDING), THE CONTRACTOR IS REQUIRED TO SUBMIT THE NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS STANDARD 10-DAY NOTICE OF DEMOLITION TO THE TDEC DIVISION OF AIR POLLUTION CONTROL (PER TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015) SECTIONS 107.08 D AND 202.03).	LM 1.87
EDEC001	ENVIRONMENTAL DIVISION, ECOLOGY	TREE REMOVAL AMMM 1. MODIFY ALL PHASES/ASPECTS OF THE PROJECT (e.g., TEMPORARY WORK AREAS, ALIGNMENTS) TO AVOID TREE REMOVAL IN EXCESS OF WHAT IS REQUIRED TO IMPLEMENT THE PROJECT SAFELY. NOTE: TREE REMOVAL AMM1 IS AN AVOIDANCE MEASURE. IF THIS CANNOT BE APPLIED, PROJECTS MAY STILL BE NLAA AS LONG AS REMOVAL IS IN WINTER AND AVOIDS KNOWN ROOSTS.	S.R. 332
EDEC002	ENVIRONMENTAL DIVISION, ECOLOGY	TREE REMOVAL AMM 2. APPLY TIME OF YEAR (TOY) RESTRICTIONS FOR TREE REMOVAL WHEN BATS ARE NOT LIKELY TO BE PRESENT. FOR THIS PROJECT, TREE REMOVAL WILL BE DONE FROM OCTOBER 15 TO MARCH 31.	S.R. 332
EDEC003	ENVIRONMENTAL DIVISION, ECOLOGY	TREE REMOVAL AMM 3. ENSURE TREE REMOVALS IS LIMITED TO THAT SPECIFIED IN PROJECT PLANS. INSTALL BRIGHT ORANGE FLAGGING/FENCING PRIOR TO ANY TREE CLEARING TO ENSURE CONTRACTORS STAY WITHIN CLEARING LIMITS. ENSURE THAT CONTRACTORS UNDERSTAND CLEARING LIMITS AND HOW THEY ARE MARKED IN THE FIELD.	S.R. 332
EDEC004	ENVIRONMENTAL DIVISION, ECOLOGY	TREE REMOVAL AMM 4. DO NOT CUT DOWN DOCUMENTED INDIANA BAT OR NLEB ROOSTS (THAT ARE STILL SUITABLE FOR ROOSTING) OR DOCUMENTED FORAGING HABITIAT ANY TIME OF YEAR.	S.R. 332

DIVISION, ECOLOGY ARE STILL SUITABLE FOR ROOSTING) OR DOCUMENTED FORAGING HABITIAT ANY TIME OF YEAR.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-332(9)	1B



STATE OF TENNESSEE DEPARTMENT OF **TRANSPORTATION**

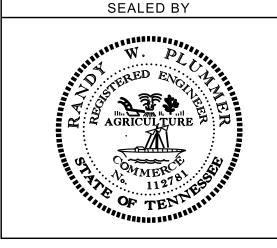
PROJECT COMMITMENTS

		ESTIMATED ROADWAY QUANTITIES		
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(3)	202-04.50	REMOVAL OF STRUCTURES (5'X4' BOX CULVERT, STA 110+33±)	LS	1 07050
1)(2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	27656 19156
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	3919
	203-06	WATER	M.G.	242
23	204-08.01	CKFILL MATERIAL (FLOWABLE FILL)	C.Y.	81
	209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	257
	209-03.20	FILTER SOCK (8 INCH)	L.F.	990
	209-05	SEDIMENT REMOVAL	C.Y.	627
(12)	209-08.02 209-08.03	TEMPORARY SILT FENCE (WITH BACKING) TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	5339 11597
	209-08.03	ROCK CHECK DAM	EACH	106
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	18
	209-09.01	SANDBAGS	BAG	400
(2)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	3
	209-09.40	CURB INLET PROTECTION (TYPE 1)	EACH	10
	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	92
(5)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	160
	209-40.33 209-40.42	CATCH BASIN PROTECTION (TYPE D) CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH EACH	6
	209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	3
	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	1
	209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	60
	209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	7
4	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	17861
213	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	80
	307-01.08 307-02.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	352 4898
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	3208
(5)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	52
5 5	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	22
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	511
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	2386
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	7618
21	604-01.01 607-03.02	CLASS A CONCRETE (ROADWAY) 18" CONCRETE PIPE CULVERT (CLASS III)	C.Y.	25 4437
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	299
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	165
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	187
	607-11.03	60" CONCRETE PIPE CULVERT (CLASS III)	L.F.	96
	607-11.04	60" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	59
	607-37.02 607-37.04	18" CORRUGATED METAL PIPE CULVERT	L.F.	175 122
	607-37.04	30" CORRUGATED METAL PIPE CULVERT 36" CORRUGATED METAL PIPE CULVERT	L.F.	16
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	10
	611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	1
	611-02.12	JUNCTION BOX, TYPE 3	EACH	1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	36
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1895
	611-07.03 611-12.01	STRUCTURAL STEEL (PIPE ENDWALLS) CATCH BASINS, TYPE 12, 0' - 4' DEPTH	LB. EACH	981 29
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	28
	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	1
	611-12.05	CATCH BASINS, TYPE 12, > 16' - 20' DEPTH	EACH	1
	611-12.07	CATCH BASINS, TYPE 12, > 24' - 28' DEPTH	EACH	1
	611-14.01	CATCH BASINS, TYPE 14, 0' - 4' DEPTH	EACH	1
	611-14.02 611-14.03	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH EACH	5
	611-14.03	CATCH BASINS, TYPE 14, > 6 - 12 DEPTH CATCH BASINS, TYPE 25, > 4' - 8' DEPTH	EACH	3
	611-25.05	CATCH BASINS, TYPE 25, > 16' - 20' DEPTH	EACH	1
	611-38.03	CATCH BASINS, TYPE 38, > 8' - 12' DEPTH	EACH	1
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	3
	611-44.02		EACH	1
217	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	217
218	621-03.06 701-01.01	42" TEMPORARY DRAINAGE PIPE CONCRETE SIDEWALK (4 ")	L.F. S.F.	155 21613
	701-01.01	CONCRETE SIDEWALK (4) CONCRETE CURB RAMP	S.F.	1603
	702-01	CONCRETE CURB	C.Y.	160
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	453
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	54
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2 _

	ESTIMATED ROADWAY QUANTITIES									
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY						
10	705-20.25	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH	9						
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	344						
2)(1)	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	5						
2(14)	709-05.05 709-05.06	MACHINED RIP-RAP (CLASS A-3) MACHINED RIP-RAP (CLASS A-1)	TON	150 501						
(19)	709-05.08	MACHINED RIP-RAP (CLASS A-1)	TON	162						
(N) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	255						
6	712-01	TRAFFIC CONTROL	LS	1						
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	2490						
(5) (5)	712-04.01 712-05.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH EACH	200 66						
(5) (7)	712-05.01	WARNING LIGHTS (TYPE A) SIGNS (CONSTRUCTION)	S.F.	735						
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	400						
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	500						
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	0.4						
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB.	101						
	713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	LB.	120						
	713-11.02 713-11.03	PERFORATED/KNOCKOUT SQUARE TUBE POST 2 1/2" DIA ROUND STEEL TUBE SIGN POST	LB.	1995 459						
	713-11.21	P POST SLIP BASE	EACH	1						
	713-11.23	ROUND POST SLIP BASE	EACH	14						
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	341						
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	156						
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS CHANGEABLE MESSAGE SIGN UNIT	LS	4						
	713-16.01 714-03	JACKED OR BORED CONDUIT	EACH L.F.	650						
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	7150						
	714-05.03	PULL BOXES (TYPE B)	EACH	50						
	714-06.04	CABLE (1/C # 8 AWG)	L.F.	7500						
	714-06.06	CABLE (1/C # 4 AWG)	L.F.	4500						
	714-06.07 714-08.09	CABLE (1/C # 2 AWG) LIGHT STANDARDS (DECORATIVE)	L.F. EACH	18000 46						
	714-08.09	LUMINAIRES (250 WATT)	EACH	40						
	714-09.09	LUMINAIRES (DECORATIVE)	EACH	46						
	714-10.01	OVERHEAD CONDUCTORS (#6 DUPLEX)	L.F.	800						
	714-12.01	CONTROL CENTER (NO. 1)	LS	1						
10	714-25 716-01.05	ELECTRICAL CONNECTION TEMPORARY RAISED PAVEMENT MARKER	EACH EACH	335						
16	716-01.03	SNWPLWBLE PVMT MRKRS (BI-DIR)(1 COLOR)	EACH	134						
	716-01.22	SNWPLWBLE PVMT MRKRS (MONO-DIR)(1 COLOR)	EACH	37						
	716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	560						
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	88						
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	272						
(8)	716-02.06 716-02.09	PLASTIC PAVEMENT MARKING (TURN LANE ARROW) PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	EACH L.F.	18 296						
	716-02.09	PLASTIC PAVEMENT MARKING (LONGTODINAL CROSS-WALK) PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	296						
	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	32						
	716-04.13	PLASTIC PAVEMENT MARKING (BIKELANE SYMBOL & ARROW)	EACH	37						
9	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.							
	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	38						
	716-05.09 716-05.11	PAINTED PAVEMENT MARKING(STRAIGHT-TURN ARROW) PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH EACH	6 146						
(9)	716-05.11	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	27						
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	569						
	716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH	1						
	716-08.07	REMOVAL OF PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	1						
	716-12.01 716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE) ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	2						
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE) ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.M.	757						
	717-01	MOBILIZATION	LS	1						
2(15)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1176						
2	740-11.01	TEMPORARY SEDIMENT TUBE 8IN (DESCRIPTION)	L.F.	686						
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	149						
	801-03	WATER (SEEDING & SODDING)	M.G.	280						
	803-01	SODDING (NEW SOD)	S.Y.	26505						

TYPE	YEAR	PROJECT NO.	NO.
CONST.	2017	STP-M-332(9)	2A

- INCLUDES 728 C.Y. FOR TEMPORARY BERMS (18" BERM-0.36 C.Y./L.F.), 21 C.Y. FOR TEMPORARY CONSTRUCTION EXITS, 260 C.Y. FOR CULVERT INLET PROTECTION TYPE 1, AND 60 C.Y. FOR SLOPE DRAINS.
- 2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE TDOT OPERATIONS ENGINEER.
-) EXISTING STRUCTURE IS TO BECOME THE PROPERTY OF THE CONTRACTOR.
- (4) INCLUDES 200 TONS FOR MAINTENANCE OF TRAFFIC.
- 5) TO BE INCREASED OR DECREASED AS DIRECTED BY THE TDOT OPERATIONS ENGINEER.
- (LINES).
- 7) SEE SHEET NUMBERS 24 & 24A-24C FOR CONSTRUCTION SIGN LOCATIONS.
- 8) 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.
- (9) FOR TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS.
- THIS ITEM SHALL BE PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
- 11) INCLUDES 12 TONS FOR RIP-RAP APRON, 7 TONS FOR BEVELED ENDWALL, 81 TONS FOR RIP-RAP DITCHES, 299 TONS FOR CULVERT PROTECTION TYPE 1, 102 TONS FOR SLOPE DRAIN PADS.
- (12) INCLUDES 264 L.F. TO BE USED WITH SEDIMENT FILTER BAGS.
- 13 INCLUDES 15 TONS FOR SEDIMENT FILTER BAGS, 65 TONS FOR CULVERT PROTECTION TYPE 1.
- (14) TO BE USED FOR TEMPORARY CONSTRUCTION EXIT.
- 15) INCLUDES 258 S.Y. FOR TEMPORARY CONSTRUCTION EXIT, 702 S.Y. FOR CULVERT PROTECTION TYPE 1, AND 216 S.Y. FOR SEDIMENT FILTER BAG.
- (16) MISSING RAISED PAVEMENT MARKERS SHALL BE REPLACED AT THE INSTRUCTION OF THE TDOT OPERATIONS ENGINEER.
- (17) TO BE USED FOR TEMPORARY EXTENSION OF EXISTING CULVERTS IN STAGE II EPSC. TO BE PLUGGED.
- (18) TO BE USED FOR TEMPORARY DIVERSION CULVERTS IN STAGE II EPSC. TO BE PLUGGED AFTER 5'X4' BOX CULVERT IS REMOVED.
- (19) TO BE USED FOR RIP-RAP DITCHES.
- (20) TO BE USED FOR RIP-RAP APRON.
- 1 TO BE USED FOR PRIVATE DRIVES AND BUSINESS ENTRANCE RAMPS (SEE SHEET 5B).
- TO BE USED TO PLUG 24" AND 42" TEMPORARY DRAINAGE PIPES. 56 C.Y. AT STA. 110+33, 14 C.Y. AT STA. 115+06, AND 11 C.Y. AT STA. 124+45.



UNOFFICIAL SET NOT FOR

BIDDING

DEPARTMENT OF TRANSPORTATION

STATE OF TENNESSEE

ESTIMATED ROADWAY QUANTITIES

GENERAL NOTES

GRADING

- ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-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 AGENCY.

SEEDING AND SODDING

SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

GUARDRAIL

- THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC. THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL

DRAINAGE

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- 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 THE COST OF OTHER ITEMS.
- EXCAVATION FOR PIPE INSTALLATION WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).
- CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- 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. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.
- DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, 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.
- ALL EXISTING PIPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER THAT ARE TO BE LEFT IN PLACE AND ABANDONED MUST BE BACKFILLED AND PLUGGED. ALL COST FOR THIS WORK SHALL BE INCLUDED IN ITEM NO. 204-08.01, BACKFILL MATERIAL (FLOWABLE FILL),

MISCELLANEOUS

- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.
- 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

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

- TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR 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. 716-05,20, PAINTED PAVEMENT MARKING (6" LINE), L.M.
- TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR 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. 716-05.02. PAINTED PAVEMENT MARKING (8" BARRIER LINE), L.F.
- WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), LIN. FT.

FINAL PAVEMENT MARKING

- PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.
- PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

BEFORE OPENING THE LANE SHIFT TO TRAFFIC. THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL, LUMP SUM.

PAVING

THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

SIGNING

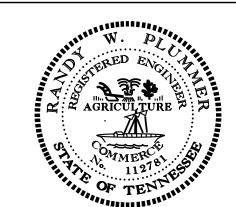
- THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION, SUITE 1200, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.
- ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.
- THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

YEAR PROJECT NO. TYPE CONST. STP-M-332(9)

SHEET

CONSTRUCTION FIELD REVIEW

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> **GENERAL** NOTES

SIGNALIZATION

- (1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.
- (2) EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730K-TRAFFIC SIGNALS."
- (3) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE TOWN OF FARRAGUT AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY OF FARRAGUT.
- (4) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.
- (5) THE TOWN OF FARRAGUT SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE 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 INCREASE 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. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- 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 TRAFFIC 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 OR GREATER AND DESIGN SPEED OF 60 MPH OR 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 IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- 7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LIGHTING

-) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 1, 2015 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.
- (2) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.
- (3) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.
- 4) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

- SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- (2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
- (3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS. IS NOT ALLOWED.
- (5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- STREAM BEDS SHALL NOT BE 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, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- 8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

- (10) 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.
- (11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).
- (12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

INSPECTION, MAINTENANCE & REPAIR

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

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PERMITS, PLANS & RECORDS

- (10) 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 TDEC NPDES PERMITS, 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 TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (11) 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 TDOT 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 PREVAIL.
- (12) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT 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.
- (13) 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 TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.
- (14) 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

- (15) 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 BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- (16) 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 SHALL BE USED.
- (17) 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.
- 18) 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 SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (19) 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 SANITARY WASTE.
- 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.
- (21) 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.
- (22) 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.
- (23) 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, TREES, 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.
- (25) 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.
- (26) 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 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

SUPPORT ACTIVITIES

(27) 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 TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-332(9)	2C2

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GRADING

- THE GRADING TABULATIONS AND RESULTING EARTHWORK 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 GUIDANCE ONLY.
- THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING 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.
- (3) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE 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 SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

SEEDING AND SODDING

(4) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.07.

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

- (1) THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).
- (2) 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.
- (3) 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.

SIGNING

(1) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, BROWN BACKGROUND, OR BLUE BACKGROUND.

SIGNALIZATION

(2) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

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

ECOLOGY

STAFF FROM THE TDOT 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.

RAILROAD

- (1) ALL WORK ON, OVER, UNDER, OR ADJACENT TO NORFOLK SOUTHERN (NS) RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE NORFOLK SOUTHERN "SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY INTERESTS" (NS SPECIAL PROVISION).
- THE CONTRACTOR SHALL CONTACT THE RAILROAD'S REPRESENTATIVE TWO (2) DAYS IN ADVANCE OF THOSE PLACES WHERE EXCAVATION, PILE DRIVING. OR HEAVY LOADS MAY DAMAGE RAILROAD UNDERGROUND LINES ON RAILROAD PROPERTY. UPON REQUEST FROM THE CONTRACTOR OR AGENCY, RAILROAD SIGNAL FORCES WILL LOCATE AND PAINT MARK OR FLAG RAILROAD UNDERGROUND SIGNAL COMMUNICATION, AND POWER LINES IN THE ATER TO BE DISTURBED FOR THE CONTRACTOR. THE CONTRACTOR SHALL AVOID EXCAVATION OR OTHER DISTURBANCE OF THESE LINES WHICH ARE CRITICAL TO THE SAFETY OF THE RAILROAD AND THE PUBLIC.IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD SIGNAL COMMUNICATION, OR POWER LINE, THE LINE SHALL BE POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION BY THE CONTRACTOR AND PROTECTED BY THE CONTRACTOR DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF A RAILROAD SINAL REPRESENTATIVE.
- ALL UTILITY INSTALLATIONS OR RELOCATIONS THAT ARE REQUIRED IN CONJUNCTION WITH THIS PROJECT CAN BE INSTALLED OR REPLACED AS PART OR THE PROJECT PROVIDED THE CONSTRUCTION IS PERFORMED BY THE PROJECT CONTRACTOR OR PROJECT CONTRACTOR'S SUBCONTRACTOR. HOWEVER, THE UTILITY MUST SUBMIT AN APPLICATION FOR THE INSTALLATION OR RELOCATION TO AECOM FOR APPROPRIATE HANDLING FOR LICENSE AGREEMENT AND APPLICABLE FEES. FOR UTILITY APPLICATIONS GO TO: www.nscorp.com > REAL ESTATE > NS SERVICES > WIRE, PIPELINE, & FIBER OPTICE PROJECTS > AECOM. NOTE: LICENSE AGREEMENT MUST BE EXECUTED PRIOR TO UTILITY BEING INSTALLED OR RELOCATED.
- (4) NORFOLK SOUTHERN WILL BE PROVIDED AS-BUILT DRAWINGS SHOWING THE ACTUAL CLEARENCES AS CONSTRUCTED. DEPTH, SIZE, AND LOCATION OF ALL FOUNDATION COMPONENTS SHALL BE SHOWN ON THE DRAWINGS.

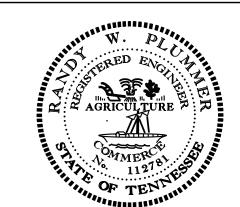
SCOPE OF WORK

- (1) THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE AND PAVEMENT FOR S.R. 332 TO LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS AND PLAN AND PROFILES SHEETS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.
- CONSTRUCTION OF A CONCRETE GIRDER BRIDGE OVER NORFOLK SOUTHERN RAILWAY COMPANY AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.
- (3) CONSTRUCTION OF PRIVATE DRIVES AND BUSINESS ENTRANCES TO LINES AND GRADES INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.
- (4) CONSTRUCTION OF ALL DITCHES, CURB AND GUTTER, GUARDRAIL, INSTALLATION OF A TRAFFIC SIGNAL, INSTALLATION OF LIGHTING, APPLICATION OF EROSION CONTROL DEVICES, SODDING, PAVEMENT MARKINGS, SIGNING, INSTALLATION OF TRAFFIC CONTROL DEVICES, AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.
- (5) REMOVAL OF EXISTING BRIDGE OVER NORFOLK SOUTHERN RAILWAY COMPANY.

TYPE YEAR PROJECT NO. SHEET NO.

CONST. 2017 STP-M-332(9) 2D

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

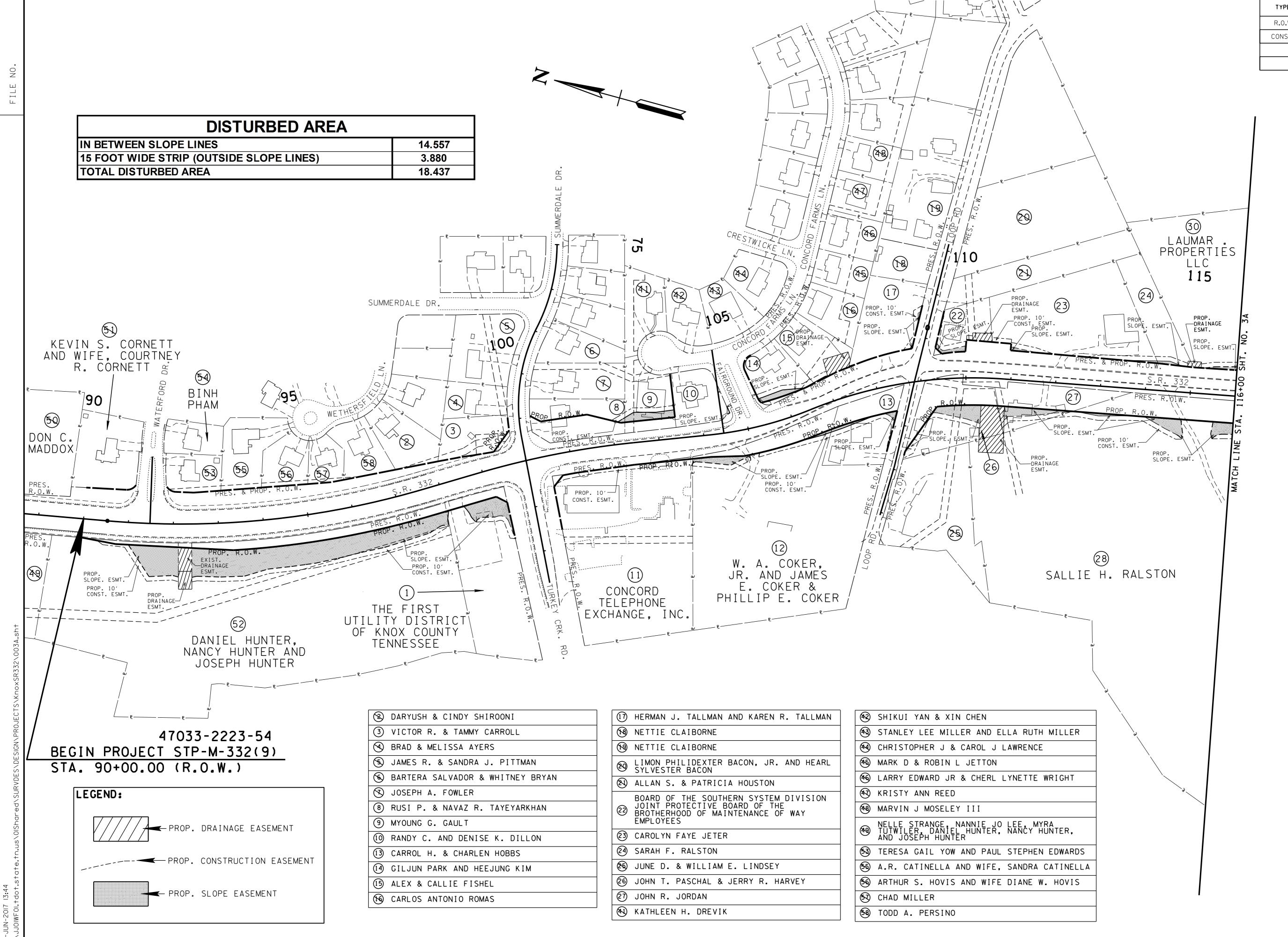
SPECIAL NOTES AND SCOPE OF WORK

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RVDE

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 TYPE
 YEAR
 PROJECT NO.
 SHEET NO.

 R.O.W.
 2015
 STP-M-332(9)
 3

 CONST.
 2017
 STP-M-332(9)
 3A

SEALED BY

N. P.

N. P.

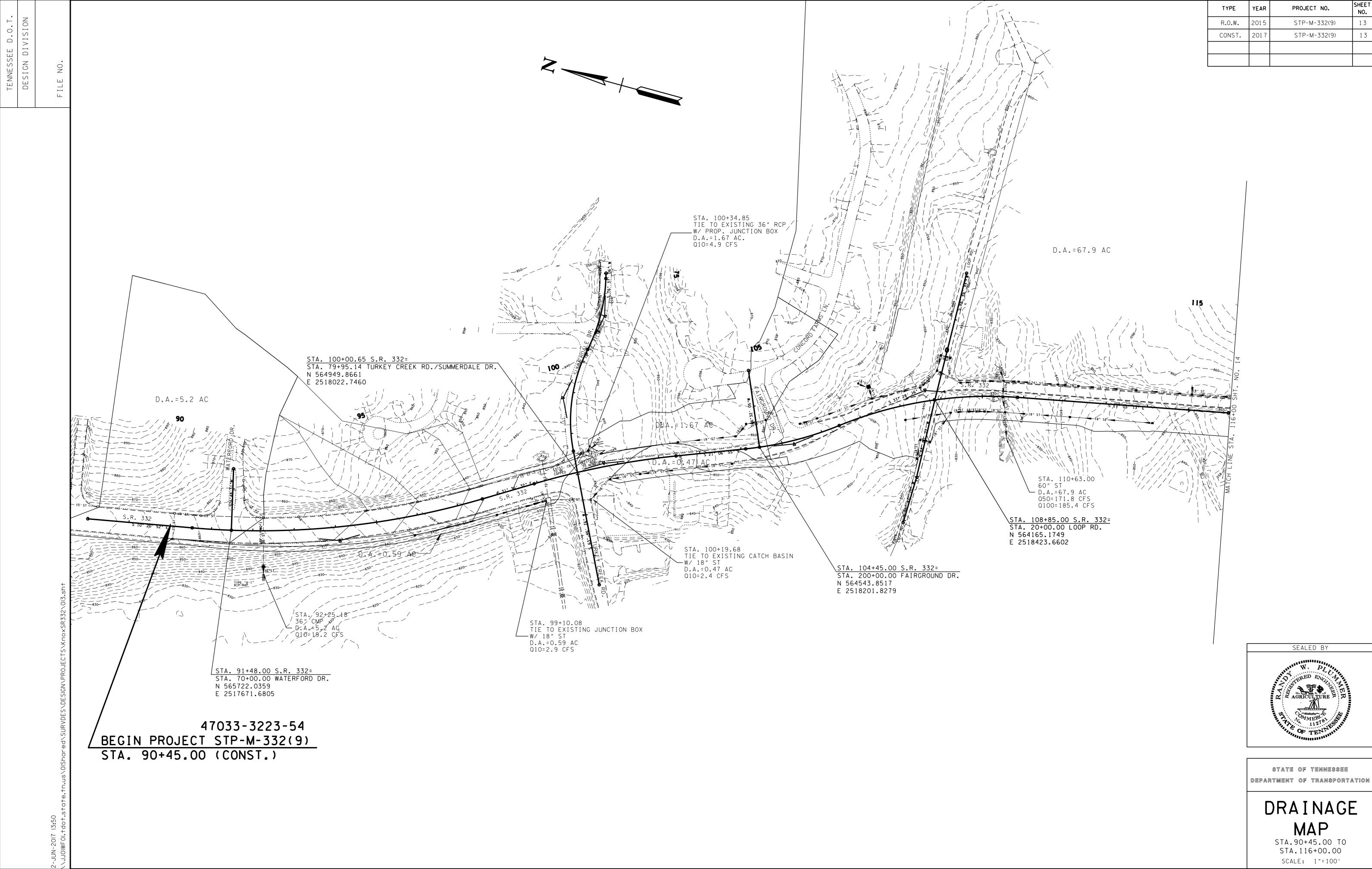
AGRICULTURE TO THE SEALED EVO.

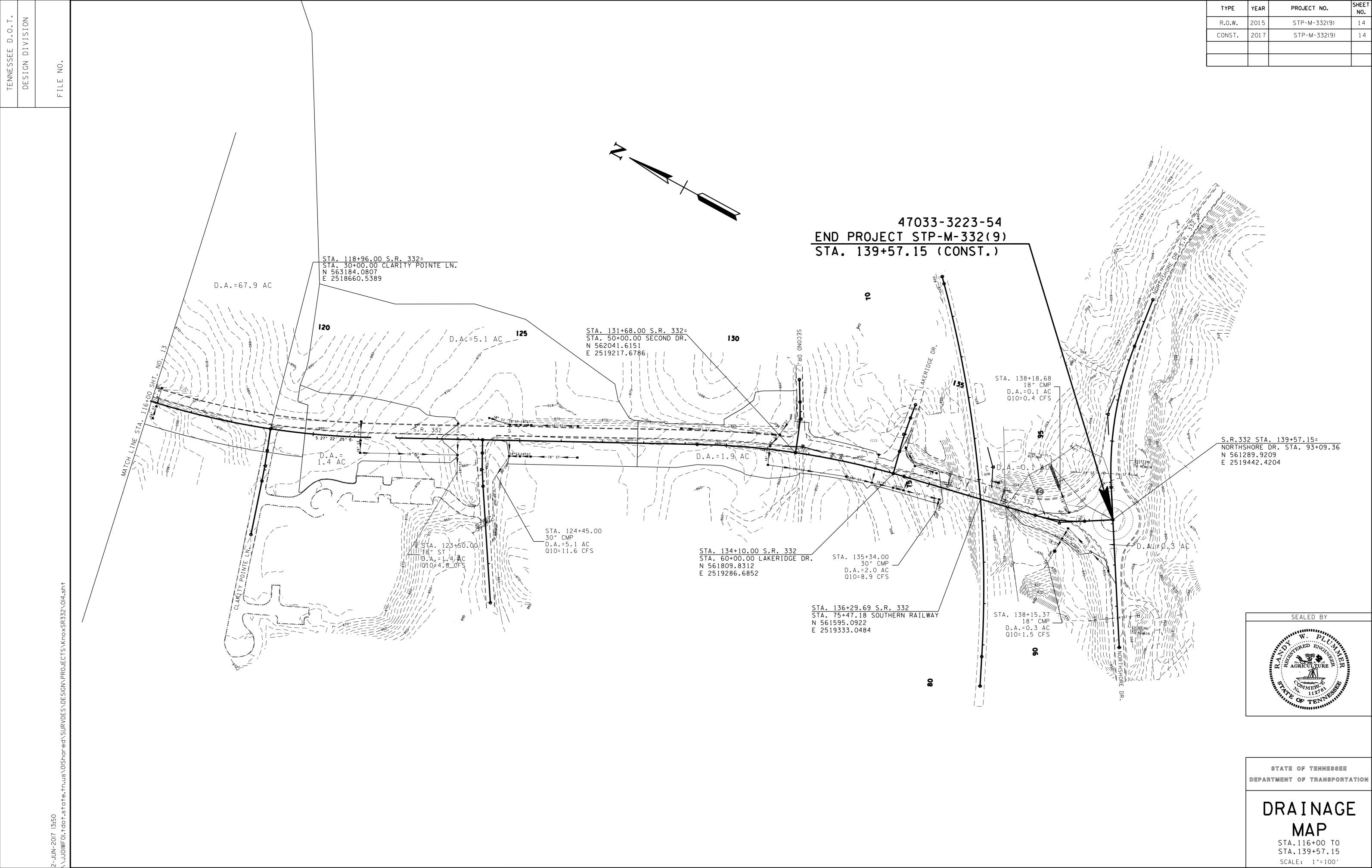
AGRICULTURE TO THE SEALED

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

SCALE: 1 "= 100'

PROPERTY
MAP
STA.90+00.00 TO
STA.116+00.00





EP

FILE

EPSC NOTES

STREAMS, WETLANDS & BUFFER ZONES

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., PIER FOOTING, RIP-RAP PLACEMENT, CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS (EC-STR-31) AND TEMPORARY DIVERSION CULVERTS (EC STR-32) FOR SINGLE BARREL CULVERT CONSTRUCTION.

RAILROAD ENVIRONMENTAL

(1) THE CONTRACTOR SHALL MAINTAIN A COMPLETE AND COMPREHENSIVE EPSC PLAN AND SWPPP TO PREVENT ROADWAY AND/OR CONSTRUCTION SEDIMENT OR DEBRIS AND ANY PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, PAINTS OR COATINGS ETC. FROM FALLING ONTO THE RAILROAD'S RIGHT-OF-WAY AND/OR FROM ENTERING THE DRAINAGE DITCHES OR DRAINAGE STRUCTURES OF THE RAILROAD, AND ANY SEDIMENT OR DEBRIS OR PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, ETC. THAT DO ENTER SUCH DRAINAGE AREAS OF THE RAILROAD'S RIGHT-OF-WAY ARE TO BE REMOVED IN ACCORDANCE WITH RULES SET FORTH BY NORFOLK SOUTHERN RAILWAY COMPANY AND AT THE CONTRACTOR'S EXPENSE.

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.

SEALED BY
W. PL

PROJECT NO.

STP-M-332(9)

STP-M-332(9)

NO.

18

18

TYPE

R.O.W.

CONST.

STATE OF TENNESSEE

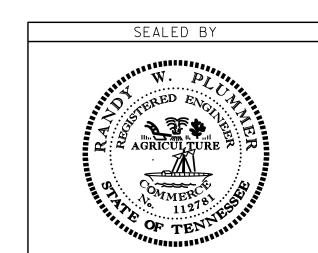
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL NOTES

	ON PREVENTION	
SEDIM	ENT CONTROL LI	EGEND
SYMBOL	ITEM	STD. DWG
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
ппппппппп	TEMPORARY BERM	EC-STR-27
	TEMPORARY SLOPE DRAIN	EC-STR-27
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	TEMPORARY DIVERSION CULVERT (1-48")	EC-STR-32
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47
	CURB INLET PROTECTION (TYPE 1)	EC-STR-39
2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
* STB * STB * STB *	SEDIMENT FILTER BAG	EC-STR-2
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
(CE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

	EROSION PREVENTION AND							
SEDIMENT CONTROL QUANTITIES								
ITEM NO.	DESCRIPTION	UNIT	QUANTITY					
209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	257					
209-03.20	FILTER SOCK (8 INCH)	L.F.	990					
209-05	SEDIMENT REMOVAL	C.Y.	627					
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	5339					
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	11597					
209-08.07	ROCK CHECK DAM	EACH	106					
209-08.08	ENHANCED ROCK CHECK DAM	EACH	18					
209-09.01	SANDBAG	BAG	400					
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	3					
209-09.40	CURB INLET PROTECTION (TYPE 1)	EACH	10					
209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	92					
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y	160					
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	6					
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	6					
209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	3					
209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	1					
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	60					
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	7					
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	80					
621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	155					
707-08.11	HIGH VISIBILITY FENCE FOR BUFFER ZONE	L.F.	344					
709-05.05	MACHINE RIP-RAP(CLASS A-3)	TON	150					
709-05.06	MACHINE RIP-RAP(CLASS A-1)	TON	401					
740-10.03	GEOTEXTILE (TYPE III)	S.Y	286					
740-11.01	SEDIMENT TUBE (8")	L.F.	686					

(1) TO BE USED FOR TEMPORARY CONSTRUCTION EXIT



PROJECT NO.

STP-M-332(9)

CONST.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL (EPSC)
LEGEND & TABULATION

1) TO BE USED AS DIRECTED BY TDOT OPERATIONS DISTRICT ENGINEER

2) TO BE INSTALLED AT LOCATIONS AS DIRECTED BY TDOT OPERATIONS DISTRICT ENGINEER

10.6%

DRAINAGE AREA SLOPE DRAINAGE AREA

47033-3223-54

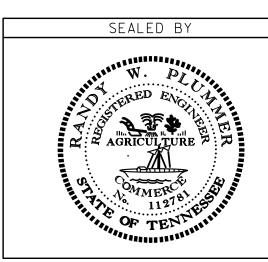
BEGIN PROJECT STP-M-332(9) STA. 90+45.00 (CONST.)

NOTE: ANY SF OR SFB NOT INSTALLED ON CONTOUR IS TO HAVE J-HOOKS INSTALLED.

STA. 91+48.00 S.R. 332= / STA. 70+00.00 WATERFORD DR. N 565722.0359 E 2517671.6805----

10° 20° 52″ E 24′ ASP. PVMT.

STP-M-332(9) STP-M-332(9)



COORDINATES ARE NAD/83(1995),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00009 AND TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

State of tennessee DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION

& SEDIMENT

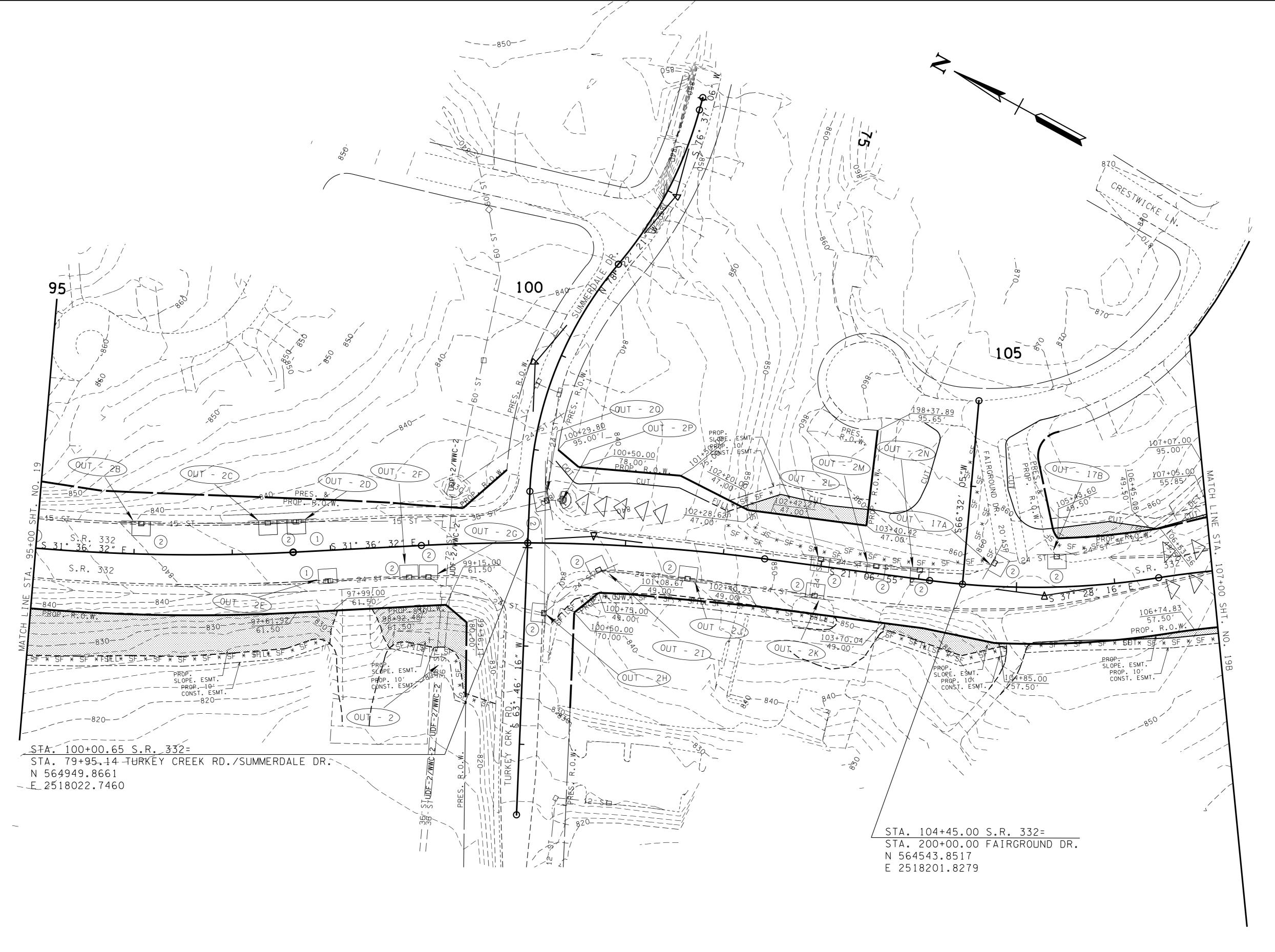
CONTROL PLAN

(STAGE 1)

STA.90+45.00

TO STA.95+00.00

SCALE: 1"= 50'



OUTFALL NO.	DRAINAGE AREA	DRAINAGE AREA SLOPE
2	5.2 AC.	8.0%
2B	O.7 AC.	9.3%
2C	1.2 AC.	8.0%
2D	O.4 AC.	10.0%
2E	0.4 AC.	4.3%
2F	0.2 AC.	0.7%
2 G	0.2 AC.	2.0%
2H	0.3 AC.	5.1%
2 I	0.2 AC.	5.9%
2J	O.1 AC.	4.2%
2K	0.1 AC.	4.2%
2L	O.1 AC.	7.5%
2M	O.1 AC.	7.7%
2N	O.1 AC.	7.1%
2P	0.6 AC.	7.4%
20	1.8 AC.	5.6%
17A	O.1 AC.	4.5%
17B	0.2 AC.	8.9%

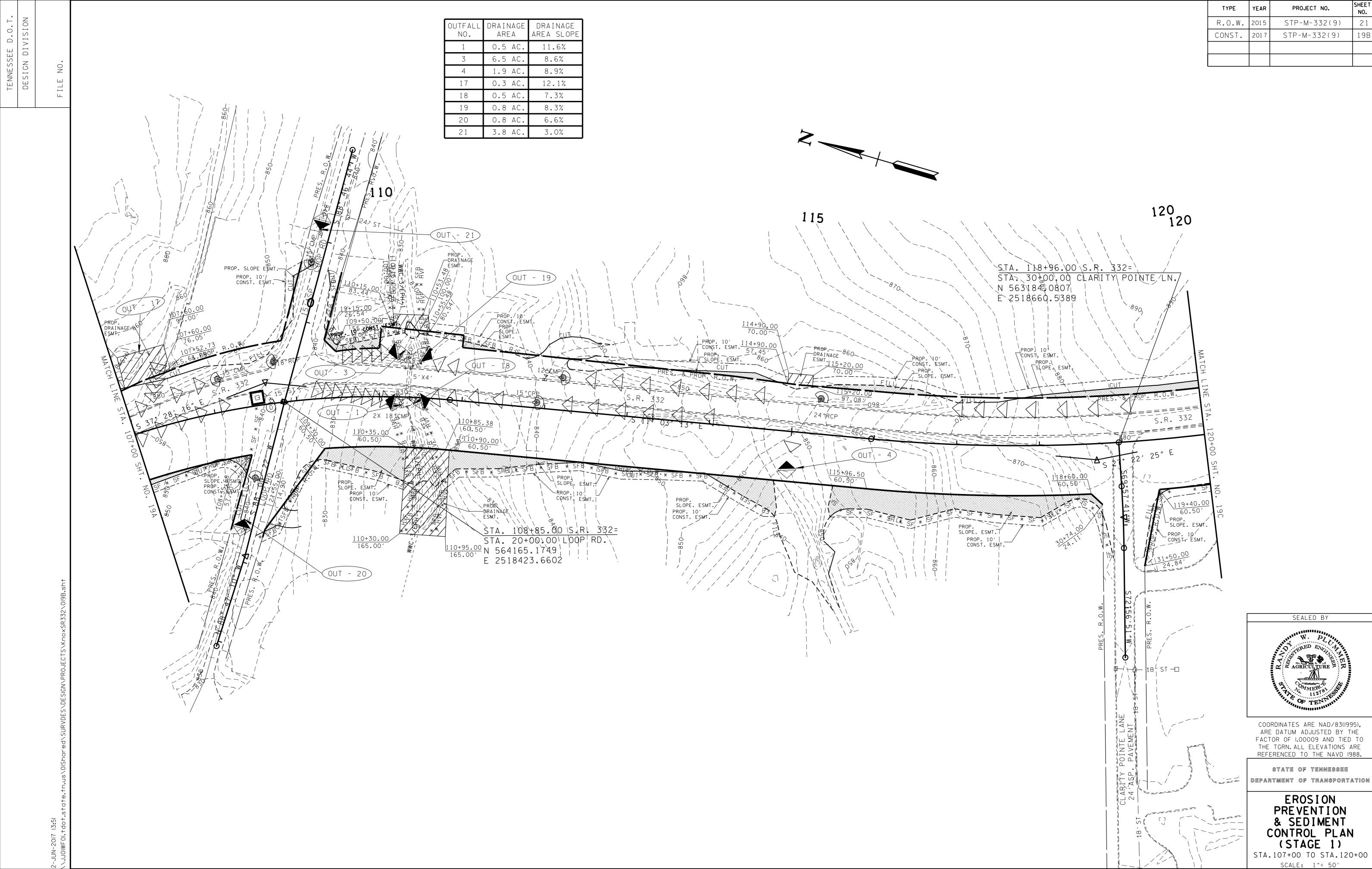
SEALED BY



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State of Tennessee DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 1)
STA.95+00.00
TO STA.107+00.00
SCALE: 1"= 50'



I TOUT ALL DIVATINAL	TYPE Y R.O.W. 20 CONST. 2
20 125 130 512. 131-68. 00 S12. 132. 131-68. 00 S12. 132. 131-68. 00 S12. 131-	
24 COF 5. 6. 32 24 COF 5. 6. 32 24 COF 5. 6. 32 25 COF 5. 6. 32 26 COF 5. 6. 32 27 COF 5. 6. 32 28 COF 5. 6. 32 29 COF 5. 6. 32 20 COF 5. 32 20	
10-ST — 10-ST	

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO.

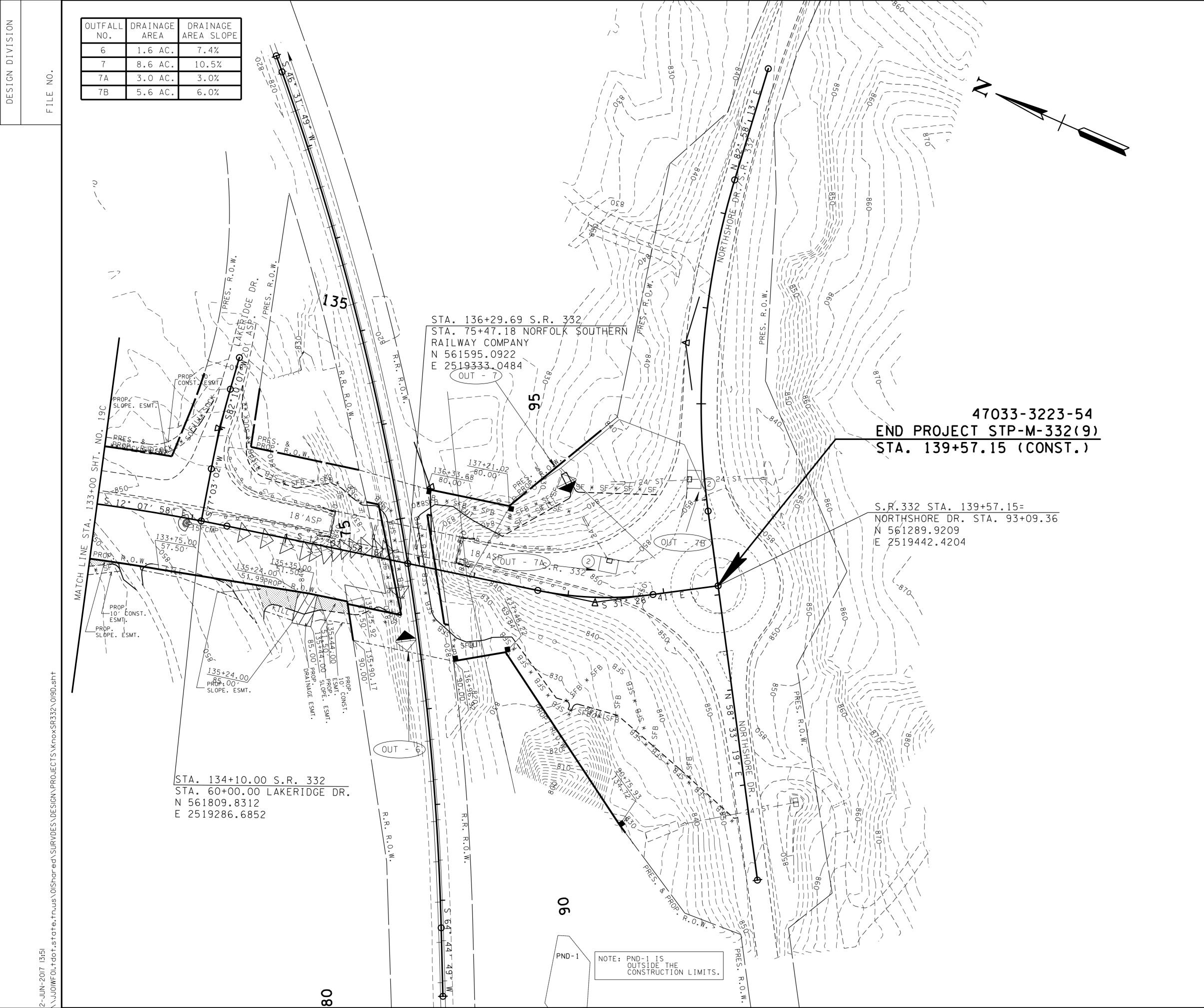
SHEET NO. 22 19C 2015 2017 PROJECT NO. STP-M-332(9) STP-M-332(9)

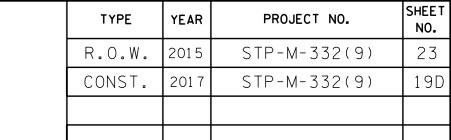
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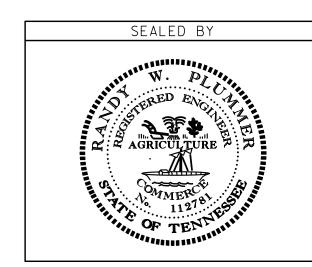
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 1)
STA. 120+00 TO STA. 133+00
SCALE: 1"= 50'





O6-09-17 CORRECTED RAILROAD NAME
TO NORFOLK SOUTHERN RAILWAY
COMPANY AS REQUIRED; REVISED
CONSTRUCTION EASEMENT AND EASEMENT
LABELS ON TRACT NO. 60; ADDED
PERMANENT EASEMENT AREAS AND
EASEMENT LABELS ON TRACT NO. 60.;
ADDED NOTE FOR PND-1 OUTSIDE OF
CONSTRUCTION LIMITS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

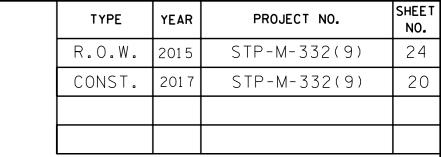
EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 1)
STA.133+00 TO
STA.139+57.15
SCALE: 1"= 50'

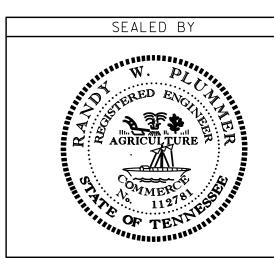
• -				
E D.O.T	OUTFALL NO.	DRAINAGE AREA	DRA AREA	
	9A	1.1 AC.	1 C	
SSE	S Z Z	16	5.2 AC.	13
DESIGN DI	16A	1.3 AC.	13	
	16B	3.9 AC.	1 1	

LOOP ROAD	90
TE ST	OUT - 16A
	PRES. & PROP. R.O.W. PRES. & PROP. R.O.W. PROP. R.O.W. 2 S 10° 20′ 52″ E 95
	90, 15, 00 92+11, 11 51, 76 PROP. SLOPE. ESMT. PROP. 10' CONST. ESMT. 92+39, 92 - Type - A - 2 - 105, 22 RIP-RAP FILL * SF *
47033-3223-54	92+11.75 145.00' PROP. DRAINAGE ESMT. OUT - 16 STA. 91+48.00 S.R. 332= STA. 70+00.00 WATERFORD DR. N. 565722.0359

N 565722.0359 E 2517671.6805

47033-3223-54 BEGIN PROJECT STP-M-332(9) STA. 90+45.00 (CONST.)





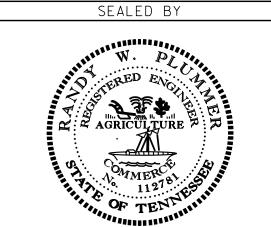
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State of tennessee DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 2)
STA.90+45.00
TO STA.95+00.00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-M-332(9)	25
CONST.	2017	STP-M-332(9)	20A
		_	

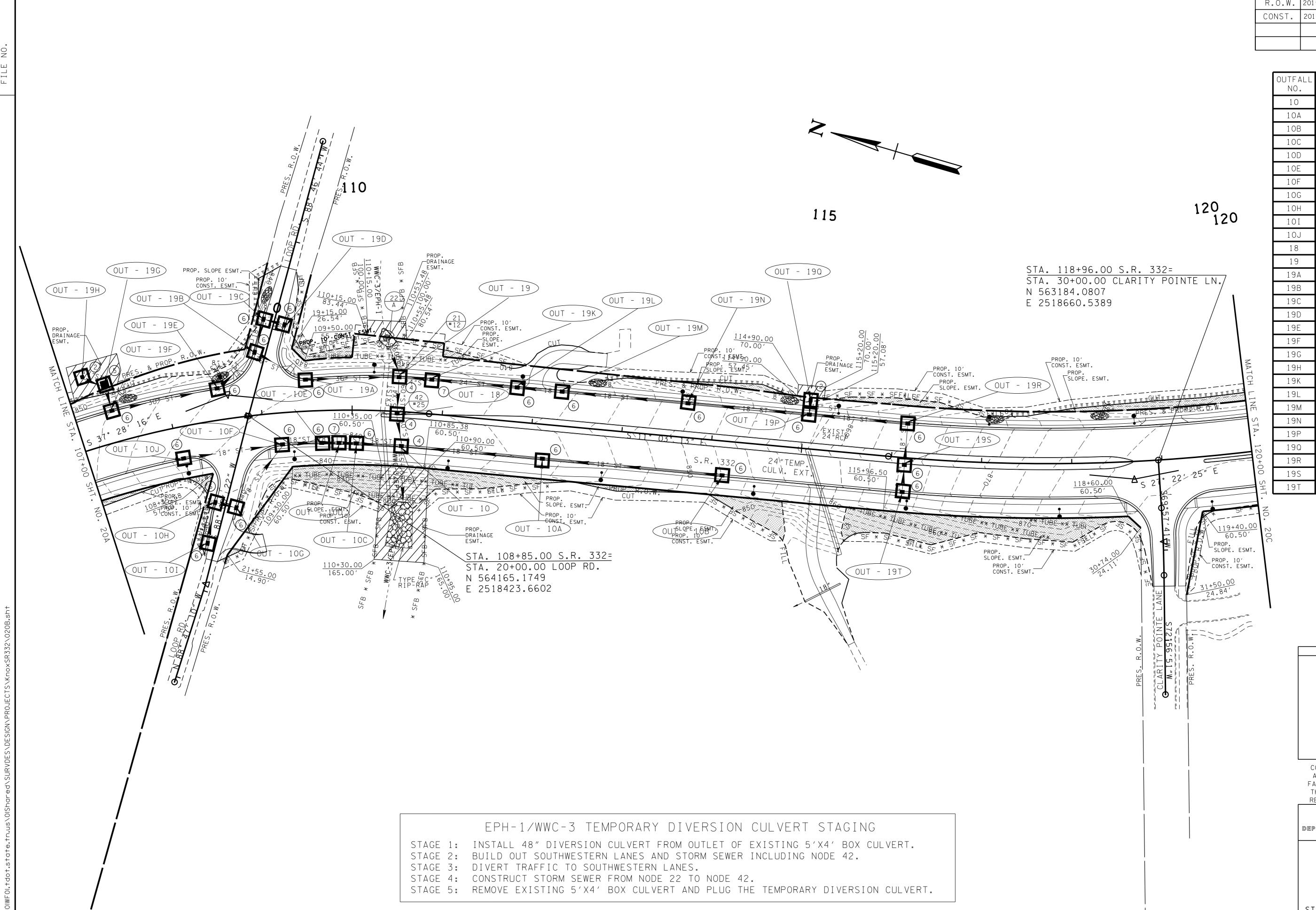
OUTFALL NO.	DRAINAGE AREA	DRAINAGE AREA SLOPE
9	8.7 AC.	7.8%
9B	0.7 AC.	9.3%
9C	1.2 AC.	8.0%
9D	O.4 AC.	10.0%
9E	0.2 AC.	3.6%
9F	0.2 AC.	2.2%
9 G	0.6 AC.	1.4%
9H	O.1 AC.	2.6%
9 I	0.3 AC.	5.1%
9J	O.1 AC.	4.5%
9K	O.1 AC.	4.7%
9L	O.1 AC.	2.2%
9M	1.8 AC.	5.6%
9N	0.6 AC.	7.4%
9P	O.1 AC.	8.8%
9 Q	0.2 AC.	5.1%
9R	0.5 AC.	3.1%
95	O.4 AC.	2.5%
9T	0.01 AC.	4.7%
19 I	0.3 AC.	8.3%
19J	O.1 AC.	8.8%



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State of Tennessee DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 2)
STA.95+00.00
TO STA.107+00.00
SCALE: 1"= 50'

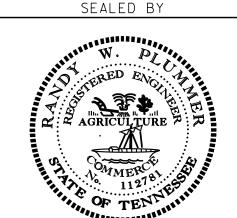


 TYPE
 YEAR
 PROJECT NO.
 SHEET NO.

 R.O.W. 2015
 STP-M-332(9)
 26

 CONST. 2017
 STP-M-332(9)
 20B

OUTFALL NO.	DRAINAGE AREA	DRAINAGE AREA SLOPE
10	2.0 AC.	5.2%
1 O A	0.3 AC.	8.2%
1 OB	0.3 AC.	4.2%
1 O C	O.1 AC.	15.1%
1 O D	O.1 AC.	15.2%
1 OE	O.1 AC.	11.7%
1 O F	O.1 AC.	11.4%
1 O G	O.1 AC.	6.4%
1 OH	O.2 AC.	8.8%
1 O I	0.2 AC.	8.8%
10J	0.5 AC.	5.4%
18	O.1 AC.	8.7%
19	11.3 AC.	6.5%
19A	0.01 AC.	3.4%
19B	0.2 AC.	11.4%
19C	O.1 AC.	11.2%
19D	O.1 AC.	6.8%
19E	O.1 AC.	8.7%
19F	0.2 AC.	10.6%
19G	6.2 AC.	12.0%
19H	0.3 AC.	12.0%
19K	O.1 AC.	4.9%
19L	0.2 AC.	9.4%
19M	O.4 AC.	7.4%
19N	0.7 AC.	7.7%
19P	O.1 AC.	4.8%
190	1.0 AC.	8.3%
19R	0.8 AC.	8.0%
195	0.2 AC.	7.3%
19T	0.2 AC.	6.1%



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN

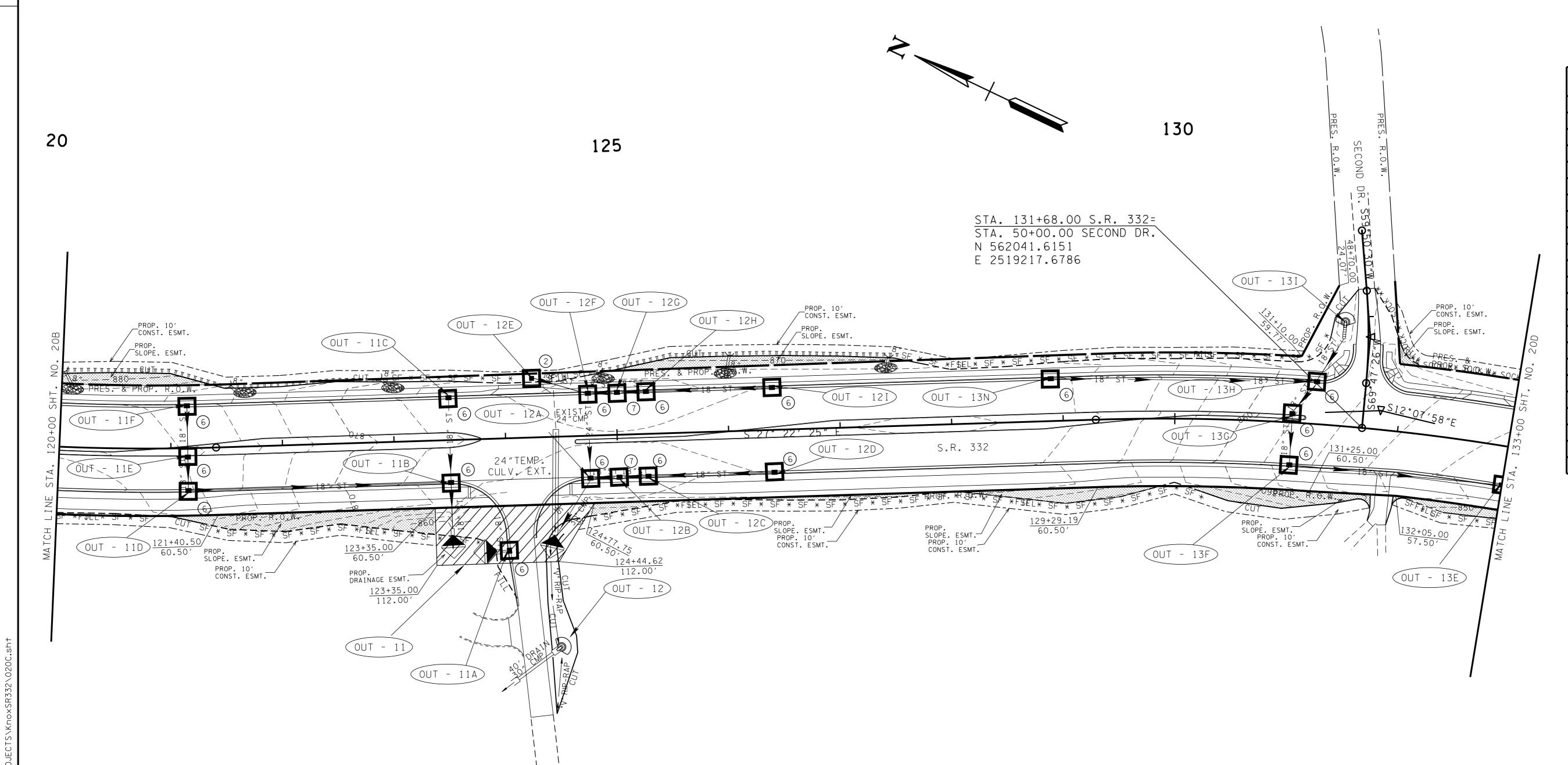
(STAGE 2) STA.107+00 TO STA.120+00

SCALE: 1"= 50'

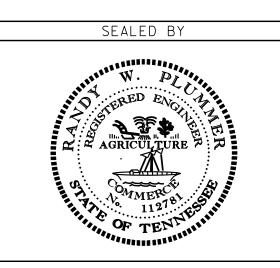
E D.O.T.	NOISIAIO	
TENNESSEE	DESIGN	FILE NO.

TYPE PROJECT NO. STP-M-332(9) STP-M-332(9)

REVISION 01-23-17: ADDED 30' BUSINESS ENTRANCE TO TRACT 36.



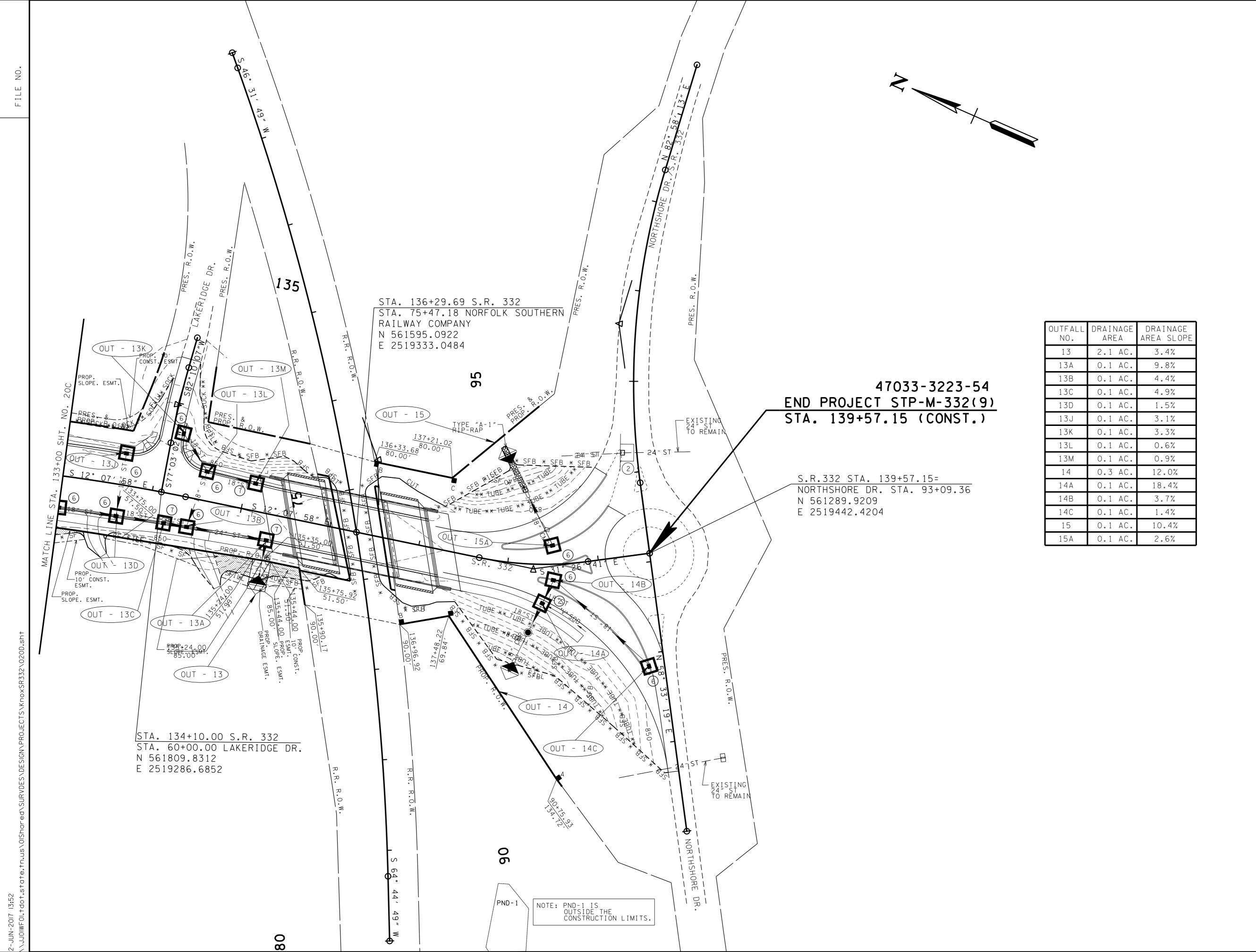
OUTFALL NO.	DRAINAGE AREA	DRAINAGE AREA SLOPE
1 1	1.6 AC.	6.1%
1 1 A	O.1 AC.	6.0%
11B	O.4 AC.	5.5%
11C	O.4 AC.	4.5%
11D	0.3 AC.	1.5%
11E	O.1 AC.	3.3%
11F	0.3 AC.	7.6%
12	5.1 AC.	6.2%
12A	0.02 AC.	3.0%
12B	O.1 AC.	10.5%
12C	0.2 AC.	11.0%
12D	0.2 AC.	2.0%
12E	3.7 AC.	5.9%
12F	0.2 AC.	4.4%
12G	O.1 AC.	4.5%
12H	0.2 AC.	4.3%
12 I	O.4 AC.	5.4%
13E	0.3 AC.	6.1%
13F	0.3 AC.	1.3%
13G	0.2 AC.	3.5%
13H	O.1 AC.	3.1%
13 I	0.3 AC.	2.7%
13N	O.1 AC.	6.1%



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REFERENCED TO THE NAVD 1988.

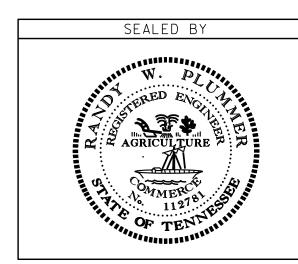
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 2)
STA. 120+00 TO STA. 133+00
SCALE: 1"= 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-M-332(9)	28
CONST.	2017	STP-M-332(9)	20D

O6-09-17 CORRECTED RAILROAD NAME
TO NORFOLK SOUTHERN RAILWAY
COMPANY AS REQUIRED; REVISED
CONSTRUCTION EASEMENT AND EASEMENT
LABELS ON TRACT NO. 60; ADDED
PERMANENT EASEMENT AREAS AND
EASEMENT LABELS ON TRACT NO. 60.;
ADDED NOTE FOR PND-1 OUTSIDE OF
CONSTRUCTION LIMITS.



COORDINATES ARE NAD/83(1995),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00009 AND TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

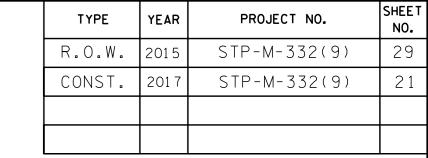
STATE OF TENNESSEE

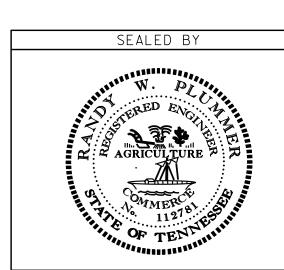
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 2)
STA.133+00 TO
STA.139+57.15
SCALE: 1"= 50'

NOIS		OUTFALL NO.	DRAINAGE AREA	DRAINA AREA SI	
	INIO		9A	1.1 AC.	10.6
7	DI		16	5.2 AC.	13.1
,)	GN	0 Z	16A	1.3 AC.	13.7
<u> </u>	ESI	<u>-</u> Щ	16B	3.9 AC.	11.4
_					

LOOP ROAD	90 95
15 " ST PRES . R.O. W.	OUT - 16A OUT - 16B PRES. & PROP. R.O.W. / P. 16B OUT - 16B
S.R. 332 S 10° 20′ 52 PRES. R.O.W. 90+00.00 41.99′	PROP. R.O.W. PROP. R.O.W. PROP. R.O.W. STANDARD PROP. R.O.W. PROP.
	PROP. 10' CONST. ESMT. 92+11-49 36 ST 105.22 - TYPE-74-1-3 RIP-RAP PROP. DRAINAGE ESMT. 92+39.64 145.00' OUT - 16
47033-3223-54 BEGIN PROJECT STP-M-332(9) STA. 90+45.00 (CONST.)	STA. 91+48.00 S.R. 332= STA. 70+00.00 WATERFORD DR. N 565722.0359 E 2517671.6805





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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 3)
STA.90+45.00
TO STA.95+00.00
SCALE: 1"= 50'

	75
95 100 OUT - 9B OUT - 9C OUT - 9D PRES. PROP. R.O.W. PROP. R.O.W. SO REMAIN D OUT - 9D O	CONC OUT - 19J
S 31 36 32" F 2	102+40.23 8 7

OUTFALL NO.	DRAINAGE AREA	DRAINAGE AREA SLOPE
9	8.7 AC.	7.8%
9B	0.7 AC.	9.3%
9C	1.2 AC.	8.0%
9D	O.4 AC.	10.0%
9E	O.2 AC.	3.6%
9F	0.2 AC.	2.2%
9 G	0.6 AC.	1.4%
9H	O.1 AC.	2.6%
9 I	0.3 AC.	5.1%
9J	O.1 AC.	4.5%
9K	O.1 AC.	4.7%
9L	O.1 AC.	2.2%
9M	1.8 AC.	5.6%
9N	0.6 AC.	7.4%
9P	O.1 AC.	8.8%
90	0.2 AC.	5.1%
9R	0.5 AC.	3.1%
95	O.4 AC.	2.5%
9 T	0.01 AC.	4.7%
19 I	0.3 AC.	8.3%

30 21A

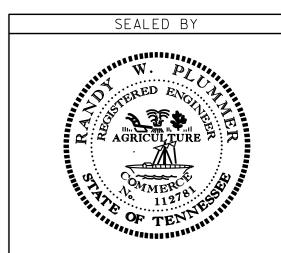
PROJECT NO.

STP-M-332(9)

STP-M-332(9)

R.O.W.

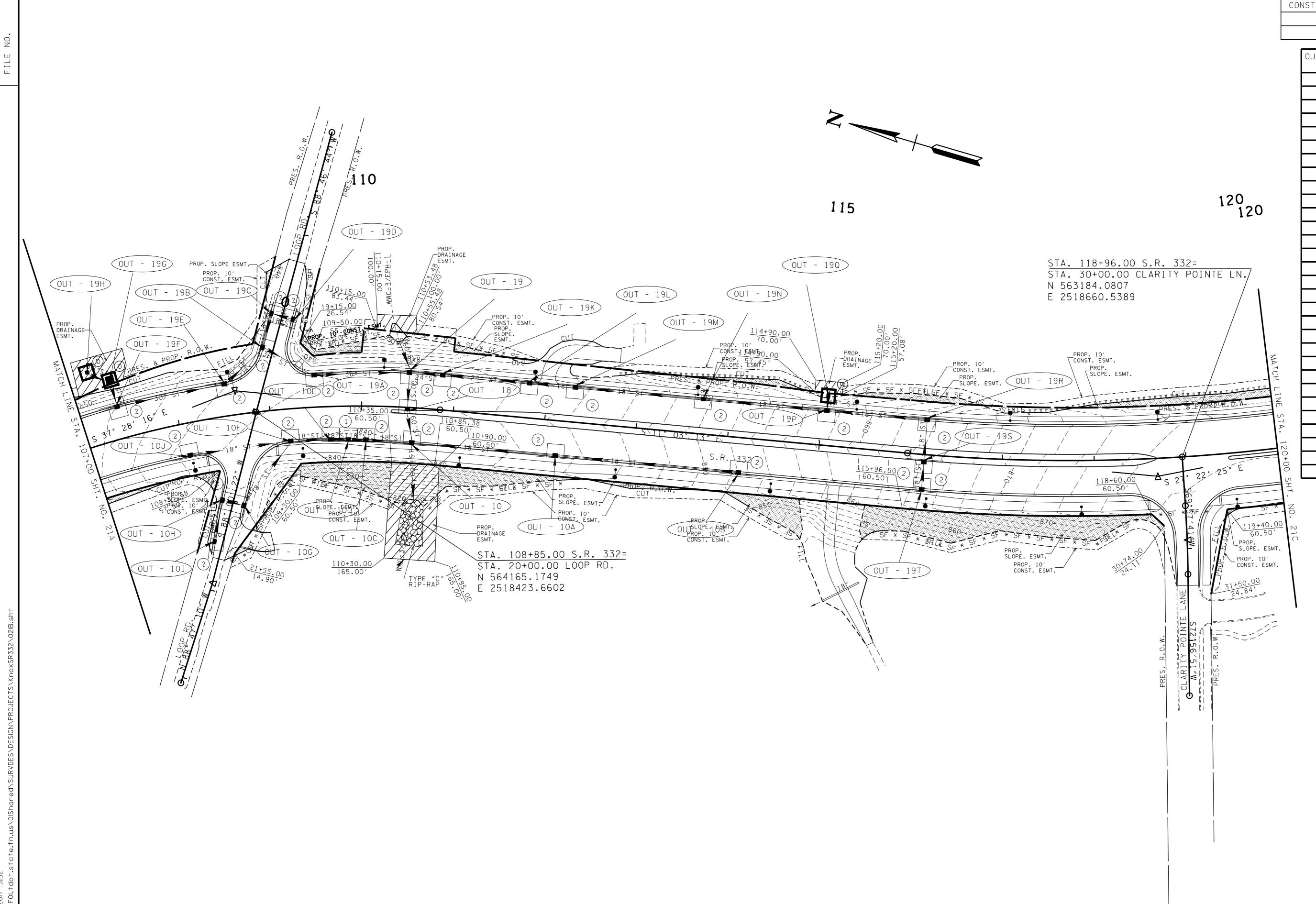
CONST.



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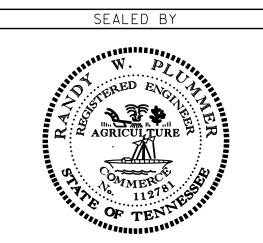
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 3)
STA. 95+ 00
TO STA. 107+00.00
SCALE: 1"= 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-M-332(9)	31
CONST.	2017	STP-M-332(9)	21B

OUTFALL NO.	DRAINAGE AREA	DRAINAGE AREA SLOPE
10	2.0 AC.	5.2%
1 O A	0.3 AC.	8.2%
1 OB	0.3 AC.	4.2%
1 O C	O.1 AC.	15.1%
1 O D	O.1 AC.	15.2%
1 OE	O.1 AC.	11.7%
1 OF	O.1 AC.	11.4%
1 O G	O.1 AC.	6.4%
1 OH	0.2 AC.	8.8%
1 O I	0.2 AC.	8.8%
10J	0.5 AC.	5.4%
18	O.1 AC.	8.7%
19	11.3 AC.	6.5%
19A	0.01 AC.	3.4%
19B	0.2 AC.	11.4%
19C	O.1 AC.	11.2%
19D	O.1 AC.	6.8%
19E	O.1 AC.	8.7%
19F	0.2 AC.	10.6%
19G	6.2 AC.	12.0%
19H	0.3 AC.	12.0%
19K	O.1 AC.	4.9%
19L	0.2 AC.	9.4%
19M	O.4 AC.	7.4%
19N	0.7 AC.	7.7%
19P	O.1 AC.	4.8%
190	1.0 AC.	8.3%
19R	0.8 AC.	8.0%
195	0.2 AC.	7.3%
19T	0.2 AC.	6.1%



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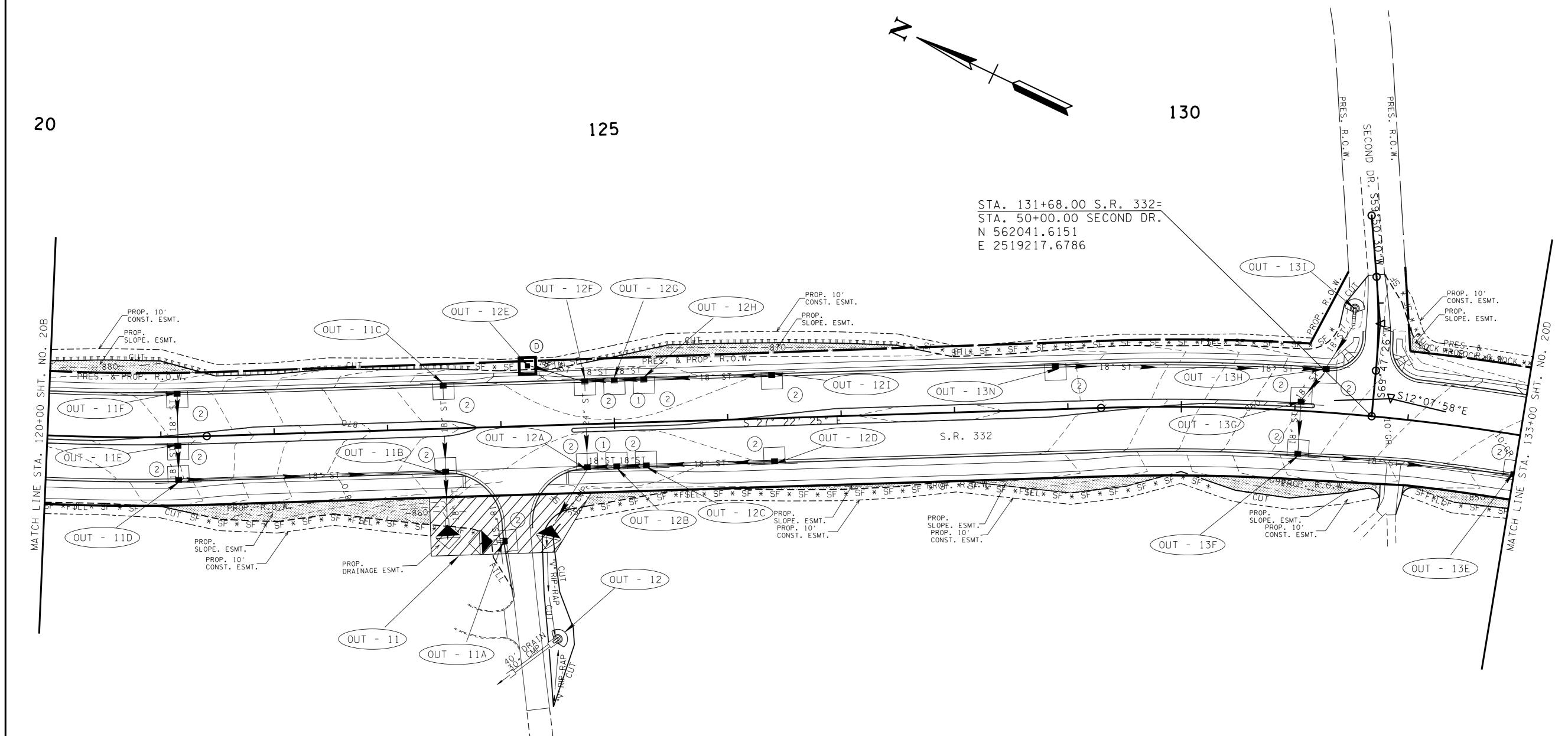
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 3)

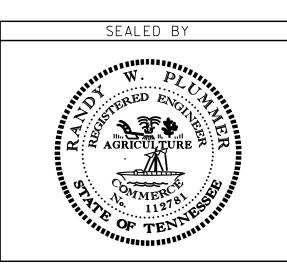
(STAGE 3)
STA.107+00 TO STA.120+00
SCALE: 1"= 50'

TYPE PROJECT NO. STP-M-332(9) STP-M-332(9)

REVISION 01-23-17: ADDED 30' BUSINESS ENTRANCE TO TRACT 36.



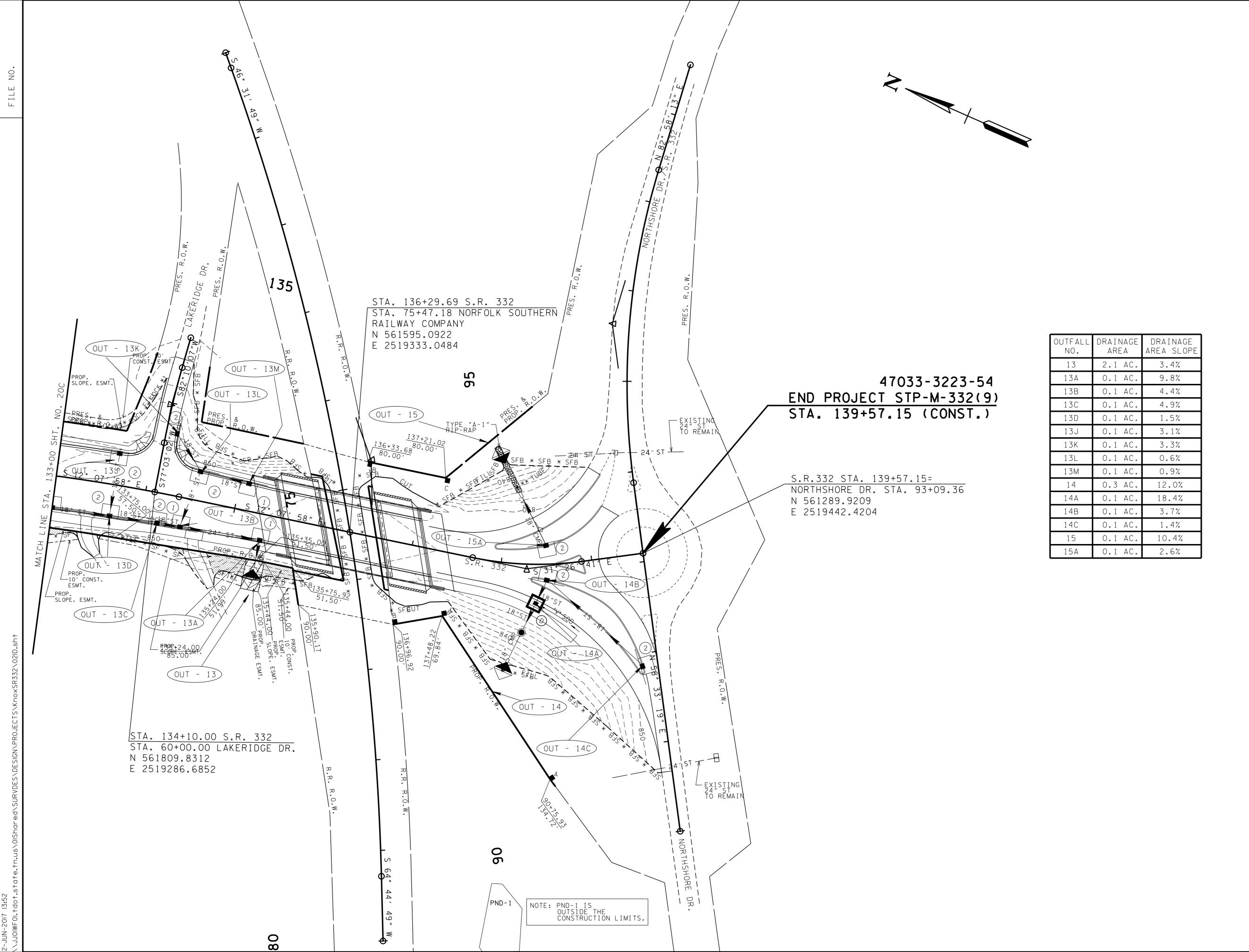
$\bigcap \bigcup T F A I J$		
OUTFALL NO.	DRAINAGE AREA	DRAINAGE AREA SLOPE
1 1	1.6 AC.	6.1%
1 1 A	O.1 AC.	6.0%
11B	O.4 AC.	5.5%
1 1 C	O.4 AC.	4.5%
1 1 D	0.3 AC.	1.5%
11E	O.1 AC.	3.3%
11F	0.3 AC.	7.6%
12	5.1 AC.	6.2%
12A	0.02 AC.	3.0%
12B	O.1 AC.	10.5%
12C	0.2 AC.	11.0%
12D	0.2 AC.	2.0%
12E	3.7 AC.	5.9%
12F	0.2 AC.	4.4%
12G	O.1 AC.	4.5%
12H	O.2 AC.	4.3%
12 I	O.4 AC.	5.4%
13E	0.3 AC.	6.1%
13F	0.3 AC.	1.3%
13G	0.2 AC.	3.5%
13H	O.1 AC.	3.1%
13 I	0.3 AC.	2.7%
13N	O.1 AC.	6.1%

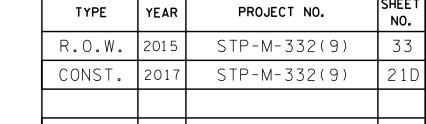


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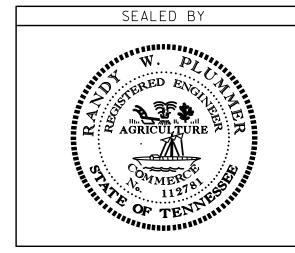
STATE OF TENNESSEE department of transportation

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 3)
STA. 120+00 TO STA. 133+00
SCALE: 1"= 50'





O6-09-17 CORRECTED RAILROAD NAME
TO NORFOLK SOUTHERN RAILWAY
COMPANY AS REQUIRED; REVISED
CONSTRUCTION EASEMENT AND EASEMENT
LABELS ON TRACT NO. 60; ADDED
PERMANENT EASEMENT AREAS AND
EASEMENT LABELS ON TRACT NO. 60.;
ADDED NOTE FOR PND-1 OUTSIDE OF
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DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN
(STAGE 3)
STA.133+00 TO
STA.139+57.15
SCALE: 1"= 50'