TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-1

SWPPP INDEX OF SHEETS

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? ☐ YES ☐ NO

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

- ☒ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
- ☒ 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 ARCHITECT
- ☒ 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-115 (US-129, Alcoa Highway) From South of Topside Road to North of Maloney Road
COUNTY: Knox
PIN: 100241.02

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) 32-32M, DRAINAGE MAP SHEET(S) 24-25, 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): 120.261 ACRES

2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 87.658 ACRES

2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: ____

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

☐ YES _____ (DATE) ☒ NO

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)
CcC-Coghill-Corryton complex 5 to 12 percent slopes	B	1.0	N/A
CcD-Coghill-Corryton complex, 12 to 25 percent slopes	B	4.3	N/A
CcE-Coghill-Corryton complex, 25 to 65 percent slopes, rocky	B	3.6	N/A
CtB-Corryton-Townley complex, 2 to 5 percent slopes	C	1.1	0.37
CtC-Corryton-Townley complex, 5 to 12 percent slopes	C	6.7	0.37
EmB-Emory silt loam, 2 to 5 percent slopes	B	0.4	0.37
HeB-Heiskell silt loam, 2 to 5 percent slopes	C	3.5	0.43
LtD-Loyston-Talbott-Rock outcrop complex, 15 to 50 percent slopes	N/A	0.0	N/A
NnD3-Nonaburg channery silt loam, 12 to 25 percent slopes, severely eroded, rocky	D	11.4	0.28
Ph-Pettyjon-Hamblen complex, 0 to 3 percent slopes, occasionally flooded	B	0.1	0.37
ShB-Shady loam, 2 to 5 percent slopes	B	1.2	0.32
ShC-Shady loam, 5 to 12 percent slopes	B	1.5	0.32
So-Shady-Whitwell complex, 0 to 3 percent slopes, rarely flooded	B	2.9	0.32
St-Steadman silt loam, 0 to 3 percent slopes, occasionally flooded	C	1.4	0.43
Uu-Urban land-Udorthents complex	N/A	53.2	N/A
W-Water	N/A	5.4	N/A
WeC-Waynesboro loam, 6 to 15 percent slopes	B	1.6	0.28
WeD2-Waynesboro loam, 15 to 25 percent slopes, eroded	B	0.3	0.28
WwB-Whitwell loam, 2 to 5 percent slopes, rarely flooded	C	0.4	0.32

2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES ☒ 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.g).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	39.480	32.8	98	
PERVIOUS	80.781	67.2	77	
WEIGHTED CURVE NUMBER OR C-FACTOR =			83.9	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	51.926	43.2	98	
PERVIOUS	68.335	56.8	77	
WEIGHTED CURVE NUMBER OR C-FACTOR =			86.1	

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 N/A)

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 BELOW.).

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)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
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4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☒ YES ☐ 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)

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)
STR-1	Little River	Yes	Yes	Yes	Yes
STR-2	N/A	No	No	Yes	Yes
STR-3	N/A	No	No	Yes	Yes
STR-4	Knob Creek	Yes	No	Yes	Yes
STR-5	N/A	No	No	No	No

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) N/A.

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)

☒ YES ☐ NO

4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) ☐ YES ☒ 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)? ☐ YES ☒ 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)

4.2.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? ☐ YES ☒ 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?

☐ YES ☒ NO

4.3. OUTFALL INFORMATION

4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-8 to S-12 FOR OUTFALL INFORMATION.

4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)? ☒ YES ☐ NO

4.3.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (2.6.2)? ☒YES ☐ NO

4.3.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☒ YES ☐ NO ☐ N/A

4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(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.g).

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	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)

4.5. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)

4.5.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☐YES ☒ NO

4.5.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☐ NO

4.5.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?

☐ YES ☐ NO

4.5.4. IF YES, HAS A SUMMARY OF THE CONSULTATION LETTER BEEN SUBMITTED/RECEIVED?

☐ YES ☐ NO

4.6. ECOLOGY INFORMATION (3.5.5.e)

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

☐ YES ☒ NO

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

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).

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

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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)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

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), 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 31 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)? ☐ YES ☒ 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.

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 HYDRO-SEEDING. 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

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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 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.o).

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).

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

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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): N/A

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
- ☒ EXPLOSIVES
- ☐ OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (3.5.5.b)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE 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):

- ☒ 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 FLOCCULANTS.

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 REGULATIONS.

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

12.3. PRODUCT SPECIFIC PRACTICES

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

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY 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.

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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.

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 HOUR 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 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

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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 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 PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED 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.

John Barrett

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (3.3.1)

JOHN K. BARRETT

PRINTED NAME

CIVIL ENGINEERING MANAGER 2

TITLE

MARCH 4, 2019

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			
OTHER:			

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

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-8

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
1,2,3	OUT-1		100+10.00 RT	2.1	0.380	0.380	0.380	N/A		
1,2,3	OUT-2		100+37.12 LT	3.2	0.190	0.190	0.190	N/A	STR-1	
1,2,3	OUT-3		100+36.78 LT	2.6	0.140	0.140	0.140	N/A		
1,2,3	OUT-4		101+86.96 RT	11.8	2.560	2.560	2.560	N/A		
1,2,3	OUT-5		101+95.95 RT	4.1	0.520	0.520	0.520	N/A		
1,2,3	OUT-6		102+43.41 LT	3.3	0.110	0.110	0.110	N/A		
1	OUT-7		105+62.09 RT	12.4	1.140			N/A		
1	OUT-8		105+82.30 RT	3.2	1.020			N/A		
1	OUT-9		110+15.91 LT	6.5	0.130			N/A		
1	OUT-10		111+75.14 RT	2.6	1.400			N/A		
1	OUT-11		111+74.77 RT	13.2	2.060			N/A		
1	OUT-12		117+28.23 LT	3.1	0.690			N/A		
1	OUT-13		119+19.97 RT	8.7	17.130			N/A	WWC-1	INCLUDES 14.728 ACRES OF OFFSITE RUNOFF
1	OUT-14		121+88.72 RT	12.7	12.270			N/A		INCLUDES 10.690 ACRES OF OFFSITE RUNOFF
1	OUT-15		125+90.98 LT	11.9	4.720			N/A		
1,2,3	OUT-16		132+71.48 RT	6.5	27.180	27.180	27.180	N/A		INCLUDES 25.782 ACRES OF OFFSITE RUNOFF
1	OUT-17		132.42.34 RT	8.9	4.480			N/A		
1,2,3	OUT-18		140+49.14 LT	16.6	5.790	5.790	5.790	N/A	STR-2	INCLUDES 1.679 ACRES OF OFFSITE RUNOFF
1,2,3	OUT-19		142+60.69 RT	22.5	1.620	1.620	1.620	N/A		
1,2,3	OUT-20		144+25.59 RT	15.9	2.130	2.130	2.130	N/A		
1,2,3	OUT-21		145+99.52 RT	12.0	8.160	8.160	8.160	N/A		INCLUDES 7.088 ACRES OF OFFSITE RUNOFF
1,2,3	OUT-22		143+95.83 RT	14.8	4.620	4.620	4.620	N/A		
1,2,3	OUT-23		143+40.98 RT	3.6	0.030	0.030	0.030	N/A		
1,2,3	OUT-24		143+38.74 RT	3.9	0.210	0.210	0.210	N/A		
1,2,3	OUT-25		142+10.48 RT	14.6	2.670	2.670	2.670	N/A	STR-2	
1,2,3	OUT-26		142+19.83 RT	11.2	0.810	0.810	0.810	N/A	STR-2	
1,2,3	OUT-27		143+41.89 RT	17.3	0.450	0.450	0.450	N/A		
1,2,3	OUT-28		144+11.09 RT	20.5	0.590	0.590	0.590	N/A		
1,2,3	OUT-29		156+09.22 RT	6.6	10.880	10.880	10.880	N/A		INCLUDES 3.355 ACRES OF OFFSITE RUNOFF AND 0.498 ACRES OF UNDISTURBED AREA
1,2,3	OUT-30		157+84.37 LT	13.3	0.650	0.650	0.650	N/A		
1	OUT-31		160+00.31 LT	27.6	0.100			N/A		
1	OUT-32		161+83.10 LT	23.8	0.380			N/A		
1,2,3	OUT-33		162+36.77 RT	13.1	2.510	2.510	2.510	N/A	STR-3	
1,2,3	OUT-34		163+11.36 RT	4.0	2.220	2.220	2.220	N/A	STR-3	
1,2,3	OUT-35		166+25.50 LT	24.9	3.650	3.650	3.650	N/A		
1	OUT-36		171+12.42 RT	39.7	0.320			N/A		

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

STATE OF TENNESSEE
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-9

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-37	185+15.93 RT	185+15.93 RT	10.0	3.030			N/A		
1	OUT-38	198+74.13 LT	198+74.13 LT	3.6	21.240			N/A		INCLUDES 12.810 ACRES OF OFFSITE RUNOFF AND 3.614 ACRES OF UNDISTURBED AREA
2,3	OUT-39		102+45.23 LT	3.9		0.170	0.170	N/A		
2,3	OUT-40		104+00.00 LT	4.0		0.230	0.230	N/A		
2,3	OUT-41		105+50.00 LT	2.2		0.340	0.340	N/A		
2,3	OUT-42		103+00.00 RT	4.1		0.490	0.490	N/A		
2,3	OUT-43		105+72.49 RT	3.4		0.240	0.240	N/A		
2,3	OUT-44		105+58.62 RT	20.4		0.540	0.540	N/A		
2,3	OUT-45		102+88.99 RT	0.0		2.810	2.810	N/A		
2,3		OUT-45A	103+18.69 RT	11.5		0.040	0.040	N/A		
2,3		OUT-45B	104+16.81 RT	2.9		1.390	1.390	N/A		
2,3		OUT-45C	107+59.51 RT	6.0		0.520	0.520	N/A		
2,3		OUT-45D	109+38.19 RT	6.4		0.420	0.420	N/A		
2,3		OUT-45E	110+99.55 RT	28.8		0.440	0.440	N/A		
2,3	OUT-46		107+32.93 RT	2.3		0.160	0.160	N/A		
2,3	OUT-47		107+32.93 RT	14.2		0.210	0.210	N/A		
2,3	OUT-48		110+81.56 RT	2.5		0.250	0.250	N/A		
2,3	OUT-49		110+81.43 RT	11.0		0.330	0.330	N/A		
2,3	OUT-50		111+50.00 LT	2.5		0.290	0.290	N/A		
2,3	OUT-51		113+50.00 RT	2.4		0.340	0.340	N/A		
2,3	OUT-52		113+50.00 RT	10.3		3.930	3.930	N/A		
2,3	OUT-53		114+00.00 LT	2.7		0.270	0.270	N/A		
2,3	OUT-54		116+00.00 RT	2.5		0.330	0.330	N/A		
2,3	OUT-55		116+00.00 RT	2.4		0.420	0.420	N/A		
2,3	OUT-56		119+20.00 RT	2.2		0.430	0.430	N/A		
2,3	OUT-57		119+20.00 RT	10.4		0.460	0.460	N/A		
2,3	OUT-58		119+20.00 RT	11.5		7.810	7.810	N/A	WWC-1	
2,3	OUT-59		118+00.00 LT	2.5		0.720	0.720	N/A		
2,3	OUT-60		121+12.25 LT	1.4		1.310	1.310	N/A		
2,3	OUT-61		121+65.16 RT	0.7		0.320	0.320	N/A		
2,3	OUT-62		121+90.48 RT	2.0		0.140	0.140	N/A		
2,3	OUT-63		121+65.08 RT	1.1		0.120	0.120	N/A		
2,3	OUT-64		121+92.29 RT	9.4		15.240	15.240	N/A		INCLUDES 14.622 ACRES OF OFFSITE RUNOFF
2,3	OUT-65		122+15.46 RT	1.7		0.660	0.660	N/A		
2,3	OUT-66		122+15.46 RT	1.4		0.250	0.250	N/A		
2,3	OUT-67		125+90.92 CL	1.0		0.080	0.080	N/A		

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P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-10

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-68		133+00.22 RT	2.5		2.990	2.990	N/A		
2,3	OUT-69		135+54.75 LT	2.2		0.960	0.960	N/A		
2,3	OUT-70		140+50.000 LT	5.2		14.720	14.720	N/A		INCLUDES 2.865 ACRES OF OFFSITE RUNOFF
2,3	OUT-71		140+50.00 RT	6.0		0.110	0.110	N/A	STR-2	
2,3	OUT-72		141+50.00 RT	5.8		0.130	0.130	N/A	STR-2	
2,3	OUT-73		142+50.00 RT	3.2		0.330	0.330	N/A		
2,3	OUT-74		144+36.32 RT	19.3		5.530	5.530	N/A		INCLUDES 4.966 ACRES OF OFFSITE RUNOFF
2,3		OUT-74A	144+93.74 RT	19.3		5.530	5.530	N/A		INCLUDES 5.014 ACRES OF OFFSITE RUNOFF
2,3	OUT-75		163+85.24 RT	0.0		1.620	1.620	N/A		
2,3		OUT-75A	164+50.00 LT	2.1		0.120	0.120	N/A		
2,3		OUT-75B	163+25.00 LT	3.2		0.140	0.140	N/A		
2,3		OUT-75C	162+00.00 LT	4.8		0.160	0.160	N/A		
2,3		OUT-75D	160+75.00 LT	4.8		0.190	0.190	N/A		
2,3		OUT-75E	159+50.00 LT	5.3		0.270	0.270	N/A		
2,3		OUT-75F	158+00.00 LT	4.7		0.340	0.340	N/A		
2,3		OUT-75G	156+50.00 LT	3.6		0.400	0.400	N/A		
2,3	OUT-76		168+50.00 LT	0.0		1.500	1.500	N/A		
2,3		OUT-76A	168+50.00 LT	0.9		0.810	0.810	N/A		
2,3		OUT-76B	171+00.00 LT	1.6		0.250	0.250	N/A		
2,3		OUT-76C	165+50.00 LT	2.2		0.190	0.190	N/A		
2,3		OUT-76D	162+50.00 LT	3.5		0.050	0.050	N/A		
2,3		OUT-76E	161+00.00 LT	3.0		0.050	0.050	N/A		
2,3		OUT-76F	159+50.00 LT	3.2		0.060	0.060	N/A		
2,3		OUT-76G	157+75.00 LT	2.8		0.050	0.050	N/A		
2,3		OUT-76H	155+98.87 LT	0.6		0.040	0.040	N/A		
2,3	OUT-77		170+87.36 RT	1.9		3.700	3.700	N/A		
2,3	OUT-78		172+81.62 LT	0.0		1.480	1.480	N/A		
2,3		OUT-78A	172+80.00 LT	2.5		0.160	0.160	N/A		
2,3		OUT-78B	174+05.00 LT	3.1		0.170	0.170	N/A		
2,3		OUT-78C	175+30.00 LT	4.2		0.190	0.190	N/A		
2,3		OUT-78D	176+67.50 LT	6.1		0.190	0.190	N/A		
2,3		OUT-78E	178+04.91 LT	5.4		0.190	0.190	N/A		
2,3		OUT-78F	179+42.46 LT	4.8		0.190	0.190	N/A		
2,3		OUT-78G	180+80.00 LT	2.6		0.390	0.390	N/A		
2,3	OUT-79		173+48.37 RT	4.1		1.400	1.400	N/A	STR-4	
2,3		OUT-79A	173+41.92 RT	3.4		0.060	0.060	N/A		

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P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-11

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-79B	173+15.00 RT	3.4		0.140	0.140	N/A		
2,3		OUT-79C	174+57.97 RT	2.8		0.170	0.170	N/A		
2,3		OUT-79D	176+00.00 RT	4.5		0.140	0.140	N/A		
2,3		OUT-79E	177+00.00 RT	5.6		0.140	0.140	N/A		
2,3		OUT-79F	178+00.00 RT	5.7		0.140	0.140	N/A		
2,3		OUT-79G	179+00.00 RT	5.3		0.130	0.130	N/A		
2,3		OUT-79H	180+00.00 RT	4.3		0.220	0.220	N/A		
2,3		OUT-79I	181+60.00 RT	4.2		0.260	0.260	N/A		
2,3	OUT-80		183+75.00 LT	1.3		0.140	0.140	N/A		
2,3	OUT-81		184+45.89 RT	4.8		0.450	0.450	N/A		
2,3	OUT-82		199+50.34 LT	0.0		9.920	9.920	N/A		INCLUDES 3.932 ACRES OF OFFSITE RUNOFF
2,3		OUT-82A	199+80.00 LT	1.4		0.040	0.040	N/A		
2,3		OUT-82B	199+55.00 LT	1.7		0.130	0.130	N/A		
2,3		OUT-82C	200+25.00 LT	1.1		0.130	0.130	N/A		
2,3		OUT-82D	203+00.00 LT	2.1		0.090	0.090	N/A		
2,3		OUT-82E	203+00.00 LT	2.3		0.260	0.260	N/A		
2,3		OUT-82F	205+00.00 LT	2.2		0.090	0.090	N/A		
2,3		OUT-82G	205+00.00 LT	2.4		0.260	0.260	N/A		
2,3		OUT-82H	199+92.81 LT	1.5		0.130	0.130	N/A		
2,3		OUT-82I	199+60.00 LT	1.3		0.370	0.370	N/A		
2,3		OUT-82J	200+20.00 LT	1.3		0.380	0.380	N/A		
2,3		OUT-82K	200+55.00 RT	1.6		0.320	0.320	N/A		
2,3		OUT-82L	200+70.00 RT	1.0		0.050	0.050	N/A		
2,3		OUT-82M	200+83.79 RT	5.2		1.850	1.850	N/A		
2,3		OUT-82N	203+00.00 RT	2.1		0.090	0.090	N/A		
2,3		OUT-82P	203+00.00 RT	2.3		0.270	0.270	N/A		
2,3		OUT-82Q	205+00.00 RT	2.1		0.100	0.100	N/A		
2,3		OUT-82R	205+00.00 RT	2.2		0.250	0.250	N/A		
2,3		OUT-82S	207+00.00 RT	1.6		0.120	0.120	N/A		
2,3		OUT-82T	207+00.00 RT	1.6		0.340	0.340	N/A		
2,3		OUT-82U	199+95.00 RT	1.3		0.180	0.180	N/A		
2,3		OUT-82V	199+65.00 RT	1.3		0.380	0.380	N/A		
2,3		OUT-82W	199+95.00 RT	1.2		0.050	0.050	N/A		
2,3		OUT-82X	199+65.00 RT	1.2		0.040	0.040	N/A		
2,3		OUT-82Y	199+00.00 RT	1.3		0.090	0.090	N/A		
2,3		OUT-82Z	197+00.00 RT	1.7		0.220	0.220	N/A		

EPSC STAGE	OUTFALL LABEL	SUB	STATION	SLOPE WITHIN	STAGE 1	STAGE 2	STAGE 3 DRAINAGE	SEDIMENT BASIN OR	RECEIVING RESOURCE	COMMENTS

STATE OF TENNESSEE
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TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-12

		OUT-FALL	CL, LT OR RT	ROW (%)	DRAINAGE AREA (AC)	DRAINAGE AREA (AC)	AREA (AC)	EQUIVALENT MEASURE(S) (YES, NO OR N/A)	(TDOT EBR LABEL) OR OTHER	
2,3		OUT-82AA	195+50.00 RT	1.9		0.260	0.260	N/A		
2,3		OUT-82AB	194+00.00 RT	2.9		0.230	0.230	N/A		
2,3		OUT-82AC	192+50.00 RT	2.9		0.210	0.210	N/A		
2,3		OUT-82AD	191+00.00 RT	2.5		0.400	0.400	N/A		
2,3		OUT-82AE	188+00.00 RT	1.7		0.550	0.550	N/A		
2,3		OUT-82AF	197+00.00 LT	2.2		0.230	0.230	N/A		
2,3		OUT-82AG	195+50.00 LT	2.6		0.210	0.210	N/A		
2,3		OUT-82AH	194+00.00 LT	2.3		0.210	0.210	N/A		
2,3		OUT-82AI	192+50.00 LT	2.3		0.190	0.190	N/A		
2,3		OUT-82AJ	191+00.00 LT	2.3		0.170	0.170	N/A		
2,3		OUT-82AK	189+50.00 LT	1.7		0.170	0.170	N/A		
2,3		OUT-82AL	188+00.00 LT	1.0		0.400	0.400	N/A		
2,3		OUT-82AM	207+00.00 LT	2.0		0.120	0.120	N/A		
2,3		OUT-82AN	207+00.00 LT	1.5		0.340	0.340	N/A		
2,3	OUT-83		199+95.34 LT	12.1		2.720	2.720	N/A		
1,2,3	OUT-84		6+94.77 RT	2.1	0.361	0.211	0.211	N/A	STR-5	
2,3	OUT-85		7+21.75 RT	3.9		0.495	0.495	N/A	STR-5	

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P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-1

SWPPP INDEX OF SHEETS

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? ☐ YES ☐ NO

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

- ☒ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
- ☒ 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 ARCHITECT
- ☒ 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-115 (US-129, Alcoa Highway) From South of Topside Road to North of Maloney Road
COUNTY: Knox
PIN: 100241.02

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) 32-32M, DRAINAGE MAP SHEET(S) 24-25, 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): 120.261 ACRES

2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 87.658 ACRES

2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

☐ YES _____ (DATE) ☒ NO

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)
CcC-Coghill-Corryton complex 5 to 12 percent slopes	B	1.0	N/A
CcD-Coghill-Corryton complex, 12 to 25 percent slopes	B	4.3	N/A
CcE-Coghill-Corryton complex, 25 to 65 percent slopes, rocky	B	3.6	N/A
CtB-Corryton-Townley complex, 2 to 5 percent slopes	C	1.1	0.37
CtC-Corryton-Townley complex, 5 to 12 percent slopes	C	6.7	0.37
EmB-Emory silt loam, 2 to 5 percent slopes	B	0.4	0.37
HeB-Heiskell silt loam, 2 to 5 percent slopes	C	3.5	0.43
LtD-Loyston-Talbott-Rock outcrop complex, 15 to 50 percent slopes	N/A	0.0	N/A
NnD3-Nonaburg channery silt loam, 12 to 25 percent slopes, severely eroded, rocky	D	11.4	0.28
Ph-Pettyjon-Hamblen complex, 0 to 3 percent slopes, occasionally flooded	B	0.1	0.37
ShB-Shady loam, 2 to 5 percent slopes	B	1.2	0.32
ShC-Shady loam, 5 to 12 percent slopes	B	1.5	0.32
So-Shady-Whitwell complex, 0 to 3 percent slopes, rarely flooded	B	2.9	0.32
St-Steadman silt loam, 0 to 3 percent slopes, occasionally flooded	C	1.4	0.43
Uu-Urban land-Udorthents complex	N/A	53.2	N/A
W-Water	N/A	5.4	N/A
WeC-Waynesboro loam, 6 to 15 percent slopes	B	1.6	0.28
WeD2-Waynesboro loam, 15 to 25 percent slopes, eroded	B	0.3	0.28
WwB-Whitwell loam, 2 to 5 percent slopes, rarely flooded	C	0.4	0.32

2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES ☒ 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.g).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	39.480	32.8	98	
PERVIOUS	80.781	67.2	77	
WEIGHTED CURVE NUMBER OR C-FACTOR =			83.9	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	51.926	43.2	98	
PERVIOUS	68.335	56.8	77	
WEIGHTED CURVE NUMBER OR C-FACTOR =			86.1	

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 N/A)

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 BELOW.).

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)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-2

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☒ YES ☐ 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)

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)
STR-1	Little River	Yes	Yes	Yes	Yes
STR-2	N/A	No	No	Yes	Yes
STR-3	N/A	No	No	Yes	Yes
STR-4	Knob Creek	Yes	No	Yes	Yes
STR-5	N/A	No	No	No	No

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) N/A.

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)

☒ YES ☐ NO

4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) ☐ YES ☒ 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)? ☐ YES ☒ 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)

4.2.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? ☐ YES ☒ 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?

☐ YES ☒ NO

4.3. OUTFALL INFORMATION

4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-8 to S-12 FOR OUTFALL INFORMATION.

4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)? ☒ YES ☐ NO

4.3.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (2.6.2)? ☒YES ☐ NO

4.3.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☒ YES ☐ NO ☐ N/A

4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(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.g).

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	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)

4.5. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)

4.5.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☐YES ☒ NO

4.5.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☐ NO

4.5.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?

☐ YES ☐ NO

4.5.4. IF YES, HAS A SUMMARY OF THE CONSULTATION LETTER BEEN SUBMITTED/RECEIVED?

☐ YES ☐ NO

4.6. ECOLOGY INFORMATION (3.5.5.e)

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

☐ YES ☒ NO

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

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).

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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)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

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), 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 31 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)? ☐ YES ☒ 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.

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 HYDRO-SEEDING. 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

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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 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.o).

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).

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

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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): N/A

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
☒ EXPLOSIVES
☐ OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (3.5.5.b)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE 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):

☒ 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 FLOCCULANTS.

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 REGULATIONS.

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

12.3. PRODUCT SPECIFIC PRACTICES

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

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY 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.

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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.

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 HOUR 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 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

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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 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 PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED 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.

John Barrett

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (3.3.1)

JOHN K. BARRETT

PRINTED NAME

CIVIL ENGINEERING MANAGER 2

TITLE

MARCH 4, 2019

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			
OTHER:			

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

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DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-8

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
1,2,3	OUT-1		100+10.00 RT	2.1	0.380	0.380	0.380	N/A		
1,2,3	OUT-2		100+37.12 LT	3.2	0.190	0.190	0.190	N/A	STR-1	
1,2,3	OUT-3		100+36.78 LT	2.6	0.140	0.140	0.140	N/A		
1,2,3	OUT-4		101+86.96 RT	11.8	2.560	2.560	2.560	N/A		
1,2,3	OUT-5		101+95.95 RT	4.1	0.520	0.520	0.520	N/A		
1,2,3	OUT-6		102+43.41 LT	3.3	0.110	0.110	0.110	N/A		
1	OUT-7		105+62.09 RT	12.4	1.140			N/A		
1	OUT-8		105+82.30 RT	3.2	1.020			N/A		
1	OUT-9		110+15.91 LT	6.5	0.130			N/A		
1	OUT-10		111+75.14 RT	2.6	1.400			N/A		
1	OUT-11		111+74.77 RT	13.2	2.060			N/A		
1	OUT-12		117+28.23 LT	3.1	0.690			N/A		
1	OUT-13		119+19.97 RT	8.7	17.130			N/A	WWC-1	INCLUDES 14.728 ACRES OF OFFSITE RUNOFF
1	OUT-14		121+88.72 RT	12.7	12.270			N/A		INCLUDES 10.690 ACRES OF OFFSITE RUNOFF
1	OUT-15		125+90.98 LT	11.9	4.720			N/A		
1,2,3	OUT-16		132+71.48 RT	6.5	27.180	27.180	27.180	N/A		INCLUDES 25.782 ACRES OF OFFSITE RUNOFF
1	OUT-17		132.42.34 RT	8.9	4.480			N/A		
1,2,3	OUT-18		140+49.14 LT	16.6	5.790	5.790	5.790	N/A	STR-2	INCLUDES 1.679 ACRES OF OFFSITE RUNOFF
1,2,3	OUT-19		142+60.69 RT	22.5	1.620	1.620	1.620	N/A		
1,2,3	OUT-20		144+25.59 RT	15.9	2.130	2.130	2.130	N/A		
1,2,3	OUT-21		145+99.52 RT	12.0	8.160	8.160	8.160	N/A		INCLUDES 7.088 ACRES OF OFFSITE RUNOFF
1,2,3	OUT-22		143+95.83 RT	14.8	4.620	4.620	4.620	N/A		
1,2,3	OUT-23		143+40.98 RT	3.6	0.030	0.030	0.030	N/A		
1,2,3	OUT-24		143+38.74 RT	3.9	0.210	0.210	0.210	N/A		
1,2,3	OUT-25		142+10.48 RT	14.6	2.670	2.670	2.670	N/A	STR-2	
1,2,3	OUT-26		142+19.83 RT	11.2	0.810	0.810	0.810	N/A	STR-2	
1,2,3	OUT-27		143+41.89 RT	17.3	0.450	0.450	0.450	N/A		
1,2,3	OUT-28		144+11.09 RT	20.5	0.590	0.590	0.590	N/A		
1,2,3	OUT-29		156+09.22 RT	6.6	10.880	10.880	10.880	N/A		INCLUDES 3.355 ACRES OF OFFSITE RUNOFF AND 0.498 ACRES OF UNDISTURBED AREA
1,2,3	OUT-30		157+84.37 LT	13.3	0.650	0.650	0.650	N/A		
1	OUT-31		160+00.31 LT	27.6	0.100			N/A		
1	OUT-32		161+83.10 LT	23.8	0.380			N/A		
1,2,3	OUT-33		162+36.77 RT	13.1	2.510	2.510	2.510	N/A	STR-3	
1,2,3	OUT-34		163+11.36 RT	4.0	2.220	2.220	2.220	N/A	STR-3	
1,2,3	OUT-35		166+25.50 LT	24.9	3.650	3.650	3.650	N/A		
1	OUT-36		171+12.42 RT	39.7	0.320			N/A		

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

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-9

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-37	185+15.93 RT	185+15.93 RT	10.0	3.030			N/A		
1	OUT-38	198+74.13 LT	198+74.13 LT	3.6	21.240			N/A		INCLUDES 12.810 ACRES OF OFFSITE RUNOFF AND 3.614 ACRES OF UNDISTURBED AREA
2,3	OUT-39		102+45.23 LT	3.9		0.170	0.170	N/A		
2,3	OUT-40		104+00.00 LT	4.0		0.230	0.230	N/A		
2,3	OUT-41		105+50.00 LT	2.2		0.340	0.340	N/A		
2,3	OUT-42		103+00.00 RT	4.1		0.490	0.490	N/A		
2,3	OUT-43		105+72.49 RT	3.4		0.240	0.240	N/A		
2,3	OUT-44		105+58.62 RT	20.4		0.540	0.540	N/A		
2,3	OUT-45		102+88.99 RT	0.0		2.810	2.810	N/A		
2,3		OUT-45A	103+18.69 RT	11.5		0.040	0.040	N/A		
2,3		OUT-45B	104+16.81 RT	2.9		1.390	1.390	N/A		
2,3		OUT-45C	107+59.51 RT	6.0		0.520	0.520	N/A		
2,3		OUT-45D	109+38.19 RT	6.4		0.420	0.420	N/A		
2,3		OUT-45E	110+99.55 RT	28.8		0.440	0.440	N/A		
2,3	OUT-46		107+32.93 RT	2.3		0.160	0.160	N/A		
2,3	OUT-47		107+32.93 RT	14.2		0.210	0.210	N/A		
2,3	OUT-48		110+81.56 RT	2.5		0.250	0.250	N/A		
2,3	OUT-49		110+81.43 RT	11.0		0.330	0.330	N/A		
2,3	OUT-50		111+50.00 LT	2.5		0.290	0.290	N/A		
2,3	OUT-51		113+50.00 RT	2.4		0.340	0.340	N/A		
2,3	OUT-52		113+50.00 RT	10.3		3.930	3.930	N/A		
2,3	OUT-53		114+00.00 LT	2.7		0.270	0.270	N/A		
2,3	OUT-54		116+00.00 RT	2.5		0.330	0.330	N/A		
2,3	OUT-55		116+00.00 RT	2.4		0.420	0.420	N/A		
2,3	OUT-56		119+20.00 RT	2.2		0.430	0.430	N/A		
2,3	OUT-57		119+20.00 RT	10.4		0.460	0.460	N/A		
2,3	OUT-58		119+20.00 RT	11.5		7.810	7.810	N/A	WWC-1	
2,3	OUT-59		118+00.00 LT	2.5		0.720	0.720	N/A		
2,3	OUT-60		121+12.25 LT	1.4		1.310	1.310	N/A		
2,3	OUT-61		121+65.16 RT	0.7		0.320	0.320	N/A		
2,3	OUT-62		121+90.48 RT	2.0		0.140	0.140	N/A		
2,3	OUT-63		121+65.08 RT	1.1		0.120	0.120	N/A		
2,3	OUT-64		121+92.29 RT	9.4		15.240	15.240	N/A		INCLUDES 14.622 ACRES OF OFFSITE RUNOFF
2,3	OUT-65		122+15.46 RT	1.7		0.660	0.660	N/A		
2,3	OUT-66		122+15.46 RT	1.4		0.250	0.250	N/A		
2,3	OUT-67		125+90.92 CL	1.0		0.080	0.080	N/A		

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-10

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-68		133+00.22 RT	2.5		2.990	2.990	N/A		
2,3	OUT-69		135+54.75 LT	2.2		0.960	0.960	N/A		
2,3	OUT-70		140+50.000 LT	5.2		14.720	14.720	N/A		INCLUDES 2.865 ACRES OF OFFSITE RUNOFF
2,3	OUT-71		140+50.00 RT	6.0		0.110	0.110	N/A	STR-2	
2,3	OUT-72		141+50.00 RT	5.8		0.130	0.130	N/A	STR-2	
2,3	OUT-73		142+50.00 RT	3.2		0.330	0.330	N/A		
2,3	OUT-74		144+36.32 RT	19.3		5.530	5.530	N/A		INCLUDES 4.966 ACRES OF OFFSITE RUNOFF
2,3		OUT-74A	144+93.74 RT	19.3		5.530	5.530	N/A		INCLUDES 5.014 ACRES OF OFFSITE RUNOFF
2,3	OUT-75		163+85.24 RT	0.0		1.620	1.620	N/A		
2,3		OUT-75A	164+50.00 LT	2.1		0.120	0.120	N/A		
2,3		OUT-75B	163+25.00 LT	3.2		0.140	0.140	N/A		
2,3		OUT-75C	162+00.00 LT	4.8		0.160	0.160	N/A		
2,3		OUT-75D	160+75.00 LT	4.8		0.190	0.190	N/A		
2,3		OUT-75E	159+50.00 LT	5.3		0.270	0.270	N/A		
2,3		OUT-75F	158+00.00 LT	4.7		0.340	0.340	N/A		
2,3		OUT-75G	156+50.00 LT	3.6		0.400	0.400	N/A		
2,3	OUT-76		168+50.00 LT	0.0		1.500	1.500	N/A		
2,3		OUT-76A	168+50.00 LT	0.9		0.810	0.810	N/A		
2,3		OUT-76B	171+00.00 LT	1.6		0.250	0.250	N/A		
2,3		OUT-76C	165+50.00 LT	2.2		0.190	0.190	N/A		
2,3		OUT-76D	162+50.00 LT	3.5		0.050	0.050	N/A		
2,3		OUT-76E	161+00.00 LT	3.0		0.050	0.050	N/A		
2,3		OUT-76F	159+50.00 LT	3.2		0.060	0.060	N/A		
2,3		OUT-76G	157+75.00 LT	2.8		0.050	0.050	N/A		
2,3		OUT-76H	155+98.87 LT	0.6		0.040	0.040	N/A		
2,3	OUT-77		170+87.36 RT	1.9		3.700	3.700	N/A		
2,3	OUT-78		172+81.62 LT	0.0		1.480	1.480	N/A		
2,3		OUT-78A	172+80.00 LT	2.5		0.160	0.160	N/A		
2,3		OUT-78B	174+05.00 LT	3.1		0.170	0.170	N/A		
2,3		OUT-78C	175+30.00 LT	4.2		0.190	0.190	N/A		
2,3		OUT-78D	176+67.50 LT	6.1		0.190	0.190	N/A		
2,3		OUT-78E	178+04.91 LT	5.4		0.190	0.190	N/A		
2,3		OUT-78F	179+42.46 LT	4.8		0.190	0.190	N/A		
2,3		OUT-78G	180+80.00 LT	2.6		0.390	0.390	N/A		
2,3	OUT-79		173+48.37 RT	4.1		1.400	1.400	N/A	STR-4	
2,3		OUT-79A	173+41.92 RT	3.4		0.060	0.060	N/A		

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-11

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-79B	173+15.00 RT	3.4		0.140	0.140	N/A		
2,3		OUT-79C	174+57.97 RT	2.8		0.170	0.170	N/A		
2,3		OUT-79D	176+00.00 RT	4.5		0.140	0.140	N/A		
2,3		OUT-79E	177+00.00 RT	5.6		0.140	0.140	N/A		
2,3		OUT-79F	178+00.00 RT	5.7		0.140	0.140	N/A		
2,3		OUT-79G	179+00.00 RT	5.3		0.130	0.130	N/A		
2,3		OUT-79H	180+00.00 RT	4.3		0.220	0.220	N/A		
2,3		OUT-79I	181+60.00 RT	4.2		0.260	0.260	N/A		
2,3	OUT-80		183+75.00 LT	1.3		0.140	0.140	N/A		
2,3	OUT-81		184+45.89 RT	4.8		0.450	0.450	N/A		
2,3	OUT-82		199+50.34 LT	0.0		9.920	9.920	N/A		INCLUDES 3.932 ACRES OF OFFSITE RUNOFF
2,3		OUT-82A	199+80.00 LT	1.4		0.040	0.040	N/A		
2,3		OUT-82B	199+55.00 LT	1.7		0.130	0.130	N/A		
2,3		OUT-82C	200+25.00 LT	1.1		0.130	0.130	N/A		
2,3		OUT-82D	203+00.00 LT	2.1		0.090	0.090	N/A		
2,3		OUT-82E	203+00.00 LT	2.3		0.260	0.260	N/A		
2,3		OUT-82F	205+00.00 LT	2.2		0.090	0.090	N/A		
2,3		OUT-82G	205+00.00 LT	2.4		0.260	0.260	N/A		
2,3		OUT-82H	199+92.81 LT	1.5		0.130	0.130	N/A		
2,3		OUT-82I	199+60.00 LT	1.3		0.370	0.370	N/A		
2,3		OUT-82J	200+20.00 LT	1.3		0.380	0.380	N/A		
2,3		OUT-82K	200+55.00 RT	1.6		0.320	0.320	N/A		
2,3		OUT-82L	200+70.00 RT	1.0		0.050	0.050	N/A		
2,3		OUT-82M	200+83.79 RT	5.2		1.850	1.850	N/A		
2,3		OUT-82N	203+00.00 RT	2.1		0.090	0.090	N/A		
2,3		OUT-82P	203+00.00 RT	2.3		0.270	0.270	N/A		
2,3		OUT-82Q	205+00.00 RT	2.1		0.100	0.100	N/A		
2,3		OUT-82R	205+00.00 RT	2.2		0.250	0.250	N/A		
2,3		OUT-82S	207+00.00 RT	1.6		0.120	0.120	N/A		
2,3		OUT-82T	207+00.00 RT	1.6		0.340	0.340	N/A		
2,3		OUT-82U	199+95.00 RT	1.3		0.180	0.180	N/A		
2,3		OUT-82V	199+65.00 RT	1.3		0.380	0.380	N/A		
2,3		OUT-82W	199+95.00 RT	1.2		0.050	0.050	N/A		
2,3		OUT-82X	199+65.00 RT	1.2		0.040	0.040	N/A		
2,3		OUT-82Y	199+00.00 RT	1.3		0.090	0.090	N/A		
2,3		OUT-82Z	197+00.00 RT	1.7		0.220	0.220	N/A		

EPSC STAGE	OUTFALL LABEL	SUB	STATION	SLOPE WITHIN	STAGE 1	STAGE 2	STAGE 3 DRAINAGE	SEDIMENT BASIN OR	RECEIVING RESOURCE	COMMENTS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2019	47026-3281-14	
CONST.	2019	STP/NH-115(27)	S-12

		OUT-FALL	CL, LT OR RT	ROW (%)	DRAINAGE AREA (AC)	DRAINAGE AREA (AC)	AREA (AC)	EQUIVALENT MEASURE(S) (YES, NO OR N/A)	(TDOT EBR LABEL) OR OTHER	
2,3		OUT-82AA	195+50.00 RT	1.9		0.260	0.260	N/A		
2,3		OUT-82AB	194+00.00 RT	2.9		0.230	0.230	N/A		
2,3		OUT-82AC	192+50.00 RT	2.9		0.210	0.210	N/A		
2,3		OUT-82AD	191+00.00 RT	2.5		0.400	0.400	N/A		
2,3		OUT-82AE	188+00.00 RT	1.7		0.550	0.550	N/A		
2,3		OUT-82AF	197+00.00 LT	2.2		0.230	0.230	N/A		
2,3		OUT-82AG	195+50.00 LT	2.6		0.210	0.210	N/A		
2,3		OUT-82AH	194+00.00 LT	2.3		0.210	0.210	N/A		
2,3		OUT-82AI	192+50.00 LT	2.3		0.190	0.190	N/A		
2,3		OUT-82AJ	191+00.00 LT	2.3		0.170	0.170	N/A		
2,3		OUT-82AK	189+50.00 LT	1.7		0.170	0.170	N/A		
2,3		OUT-82AL	188+00.00 LT	1.0		0.400	0.400	N/A		
2,3		OUT-82AM	207+00.00 LT	2.0		0.120	0.120	N/A		
2,3		OUT-82AN	207+00.00 LT	1.5		0.340	0.340	N/A		
2,3	OUT-83		199+95.34 LT	12.1		2.720	2.720	N/A		
1,2,3	OUT-84		6+94.77 RT	2.1	0.361	0.211	0.211	N/A	STR-5	
2,3	OUT-85		7+21.75 RT	3.9		0.495	0.495	N/A	STR-5	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

INDEX OF SHEETS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

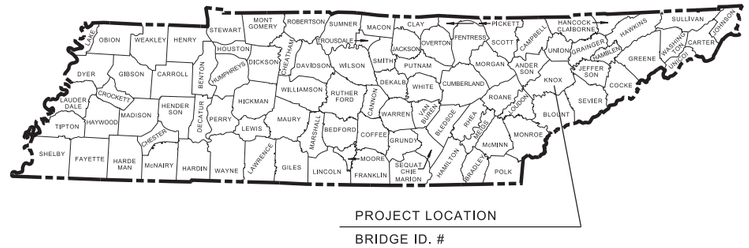
TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	STP-NH-115(27)	
STATE PROJ. NO.	47026-2281-14	

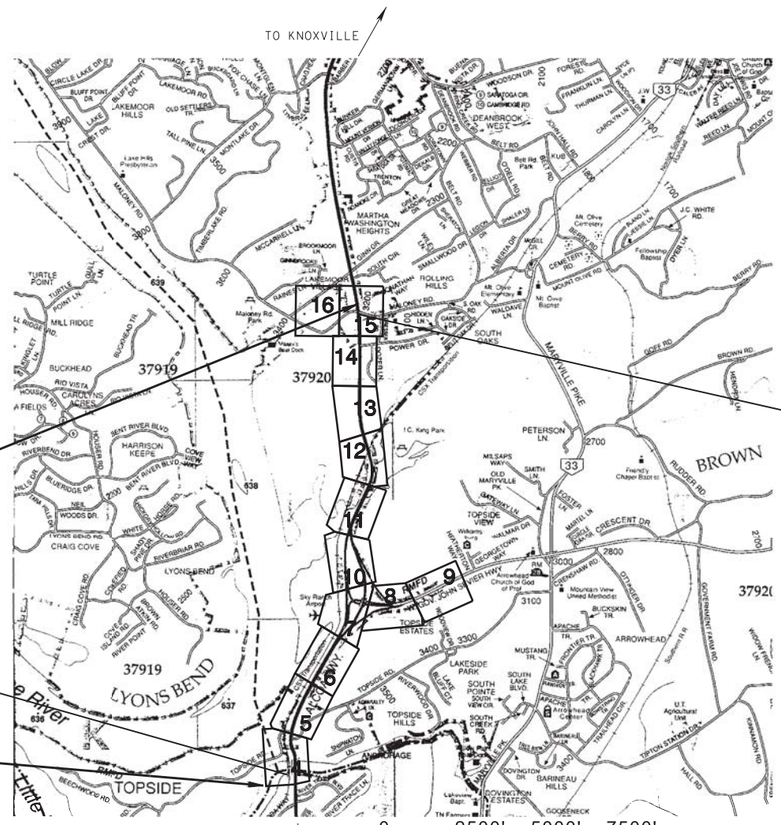
KNOX COUNTY

S.R. 115 (US-129, ALCOA HIGHWAY)
FROM: SOUTH OF TOPSIDE ROAD
TO: NORTH OF MALONEY ROAD

RIGHT-OF-WAY

STATE HIGHWAY NO. 115 F.A.H.S. NO. 129





N

NO EXCLUSIONS

R.O.W. PLANS

47026-2281-14
END PROJECT NO. STP-NH-115(27) R.O.W.
STA. 209+78.09
N 577712.212 E 2574737.509

SEALED BY
JASON P. SIVERLING
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109021
STATE OF TENNESSEE

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

R.O.W. LENGTH 2.095 MILES

SPECIAL NOTES

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

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

TDOT C.E. MANAGER 1 OR
TDOT TRANSPORTATION MANAGER 1 : ERIC WILSON, P.E.

DESIGNED BY : ROBERT G. CAMPBELL AND ASSOCIATES

DESIGNER : JASON SIVERLING, P.E. CHECKED BY GREG GREEN, P.E.

P.E. NO. 47026-1269-14 (DESIGN)

PIN NO. 100241.02

SURVEY - -	TRAFFIC DATA	
	ADT (2018)	57,120
	ADT (2038)	89,180
	DHV (2038)	9,382
	D	52 - 48
	T (ADT)	6 %
	T (DHV)	9 %
	V	60 MPH

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS
OBTAINED - - USING GEOID MODEL AND DATUM
ADJUSTMENT FACTOR OF 1.00

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

1/23/2018 1:42:09 PM
L:\TDOT\99901\ROW - ROW TITLE UPDATE.SHT

Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2019	1
FED. AID PROJ. NO.	STP/NH-115(27)	
STATE PROJ. NO.	47026-3281-14	

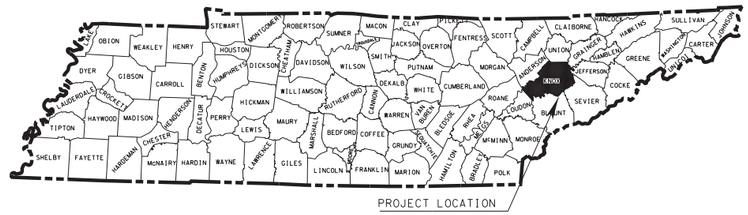
KNOX CO. S.R. 115 (ALCOA HWY)

KNOX COUNTY

S.R. 115 (US-129, ALCOA HIGHWAY)
FROM: SOUTH OF TOPSIDE ROAD
TO: NORTH OF MALONEY ROAD

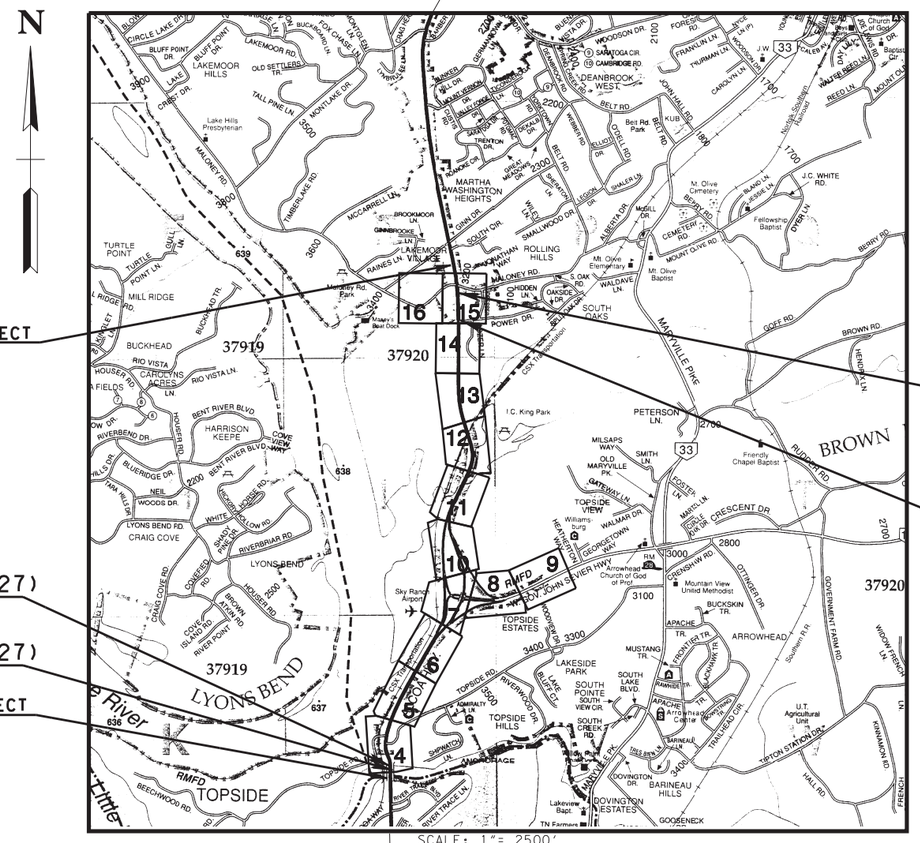
CONSTRUCTION

GRADE, BASE, PAVE, DRAIN, AND BRIDGES



STATE HIGHWAY NO. 115 F.A.H.S. NO. 129

TO KNOXVILLE



TO MARYVILLE

NORTHERN ADJOINING PROJECT
47026-2268-04
(UNDER CONSTRUCTION)

BEGIN PROJECT STP-NH-115(27)
STA.100+03.25 (CONST.)

BEGIN PROJECT STP-NH-115(27)
STA.99+12.10 (R.O.W.)

SOUTHERN ADJOINING PROJECT
47026-2261-94

END PROJECT STP-NH-115(27)
STA. 216+50.00 (CONST.)

END PROJECT STP-NH-115(27)
STA. 209+78.09 (R.O.W.)

NO EXCLUSIONS
NO EQUATIONS

SEALED BY
JASON P. SIVERLING
REGISTERED ENGINEER
COMMISSION NO. 109034
STATE OF TENNESSEE
11/28/2018

SPECIAL NOTES

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

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

TDOT C.E. MANAGER 1 ERIC WILSON, P.E.
DESIGNED BY ROBERT G. CAMPBELL AND ASSOCIATES
DESIGNER JASON SIVERLING, P.E.

P.E. NO. 47026-1269-14

PIN NO. 100241.02

ROADWAY LENGTH	2.206 MILES
BRIDGE LENGTH	0.191 MILES ▲■
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	2.206 MILES

▲ Not included in the project length.
■ Includes 0.071 miles of bridge along Topside Road Bridge

TRAFFIC DATA	
ADT (2018)	57,120
ADT (2038)	89,180
DHV (2038)	9,382
D	52 - 48
T (ADT)	9 %
T (DHV)	6 %
V	60 MPH

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	1A

ROADWAY INDEX

NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN NUMBERING OF SHEETS.

STANDARD ROADWAY DRAWINGS

ROADWAY DESIGN STANDARDS

DWG.	REV.	DESCRIPTION
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A	02-05-16	DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-2	03-16-17	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RD01-TS-5B	10-15-02	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-S-11B	10-15-02	DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT
RD01-SA-1	10-15-02	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	01-25-16	UNDERDRAIN LATERAL DETAILS
RD-UD-6	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES

PIPE CULVERTS AND ENDWALLS

DWG.	REV.	DESCRIPTION
D-FLU-1		FLUME DETAILS
D-PB-1	03-16-17	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24A	07-05-17	24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-42A	06-14-13	42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-42B		42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS (FOR 3:1, 4:1 & 6:1 SLOPES)
D-SEW-1A	03-16-17	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE FOR 15" THRU 48" PIPES - 6:1 SLOPE
D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES 12:1 SLOPE
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE. 36" TO 78"
D-PE-4	10-10-16	STRAIGHT CONCRETE ENDWALL

CATCH BASINS AND MANHOLES

DWG.	REV.	DESCRIPTION
D-CB-12LP	05-15-18	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)
D-CB-12P	05-15-18	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12RA	05-15-18	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	05-15-18	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	05-15-18	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	05-15-18	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	05-15-18	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN

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01/16/2019

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	1A1

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
D-CB-12SC	05-15-18	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	05-15-18	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	05-15-18	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-41LP	05-15-18	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 41LP CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41P	05-15-18	STANDARD 4' X 3' PRECAST RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41RB	05-15-18	STANDARD PRECAST CIRCULAR NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41S	05-15-18	STANDARD 4' X 3' RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SB	05-15-18	STANDARD 4' X 4' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SC	05-15-18	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SD	05-15-18	STANDARD 7' X 7' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SE	05-15-18	STANDARD 9' X 9' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-42RB	05-15-18	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	05-15-18	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	05-15-18	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	05-15-18	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	05-15-18	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	03-19-14	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-CB-99RB		ROUND JUNCTION BOX SPRING DRAIN BOX
D-CBB-12A	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
D-CBB-31	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & INLET DETAILS FOR NOS. 31, 41, 45, 46, & 51 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 JUNCTION BOX
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
D-JBS-3	08-01-12	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 JUNCTION BOX
D-JBS-4	08-01-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 4 JUNCTION BOX
D-JBS-5	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 5 JUNCTION BOX

ROADWAY AND PAVEMENT APPURTENANCES

RP-CS-1	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 4-LANE DIVIDED HIGHWAY)
RP-CS-2	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 6-LANE OR WIDER DIVIDED HIGHWAY)
RP-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-5	07-01-01	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	07-14-14	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-J-11	07-29-96	3/4" AND 1 3/4" EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	03-20-91	3/4" AND 1 3/4" ELASTOMERIC COMPRESSION JOINT SEALS
RP-J-15	01-19-02	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RP-J-17	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-18	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-19	02-02-12	DOWEL ASSEMBLY DEVICES
RP-D-15	04-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	04-08-16	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-I-5	12-18-96	EXAMPLES OF STREET & ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-PMR-1	05-27-01	STANDARD DETAILS FOR PROPOSED PERMANENT MAINTENANCE RAMP
RP-SC-2	02-28-02	6" SLOPING CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-VC-10	07-29-03	VERTICAL CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-VC-11	02-28-02	VERTICAL CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
W-CIP-1		ROADWAY FEATURES AT CAST IN PLACE RETAINING WALL
W-MSE-1		ROADWAY FEATURES FOR MSE SEGMENTAL PRECAST FACING RETAINING WALL
W-MSE-2		ROADWAY FEATURES FOR MSE MODULAR BLOCK FACING RETAINING WALL
W-SG-1		STANDARD GRAVITY-TYPE RETAINING WALLS
W-SP-1		ROADWAY FEATURES AT SOLDIER PILE AND SOIL ANCHORED RETAINING WALLS

SAFETY DESIGN AND FENCES

S-CZ-1	CLEAR ZONE CRITERIA
S-PL-1	SAFETY PLAN AT ROADSIDE HAZARDS

DWG.	REV.	DESCRIPTION
S-PL-2	10-10-16	SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES
S-PL-3	10-10-16	SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-4	10-10-16	SAFETY PLAN FOR BRIDGE PIERS IN CLEAR ZONE
S-PL-5	10-10-16	SAFETY PLAN FOR BRIDGE ENDS IN MEDIANS
S-PL-6	10-10-16	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-6A	07-05-17	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN
S-GR31-1	03-28-17	W-BEAM GUARDRAIL
S-GR31-1A		W-BEAM BARRIER FASTENING HARDWARE
S-GRS-1	03-28-17	SPECIAL CASE LONG SPAN GUARDRAIL ONE POST OMITTED
S-GRS-2	07-05-17	SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRS-3	03-28-17	SPECIAL CASE: GUARDRAIL FOOTING
S-GRS-4	03-16-17	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL
S-GRC-1	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRC-2	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOCAL ROADS (ADT< 2000)
S-GRC-3	10-10-16	MEDIAN DIVIDER GUARDRAIL TRANSITION TO CONCRETE MEDIAN BARRIER
S-GRT-2	03-28-17	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P	07-05-17	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
SS-GRT-3	03-28-17	TYPE 21 GUARDRAIL END TERMINAL
S-GRA-4	07-05-17	IN-LINE GUARDRAIL ANCHOR
S-GRA-5	03-28-17	FLARED GUARDRAIL ANCHOR
S-SSMB-1	08-19-13	32" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-2	08-19-13	51" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-3	07-16-13	51" HALF SIZE SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-4	04-12-16	FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL (VERTICAL BACK)
S-SSMB-5		SINGLE SLOPE MEDIAN BARRIER WALL CATCH BASIN DETAIL
S-SSMB-6	10-10-16	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-7	05-10-14	FOOTING DETAILS FOR OVERHEAD SIGN STRUCTURE 32" MEDIAN BARRIER WALL
S-SSMB-8	05-20-14	FOOTING DETAILS FOR OVERHEAD SIGN STRUCTURE 51" MEDIAN BARRIER WALL
S-SSMB-9	07-16-13	SINGLE SLOPE BARRIER WALL FOR GRADE SEPARATED MEDIAN
S-BPR-1	07-05-17	BIKE/PEDESTRIAN SAFETY RAIL
S-BPR-2		BARRIER BIKE/PEDESTRIAN MEDIAN RAIL
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10	11-15-17	STANDARD RIGHT-OF-WAY STOCK FENCE
S-F-10B	11-15-17	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-F-10C	11-15-17	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	1A2

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
S-F-10D	11-15-17	RIGHT-OF-WAY FENCE LOCATIONS AT INTERCHANGES
S-FG-11	11-15-17	STANDARD STOCK FENCE GATE
S-FG-20	11-15-17	EXAMPLES OF WATER GATES AND WATER CROSSINGS
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS

DESIGN - TRAFFIC CONTROL

T-M-1	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	08-02-18	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	08-02-18	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-9	11-01-11	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-15	08-02-18	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-M-15A	08-02-18	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	08-02-18	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	03-16-17	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	03-16-17	DETAIL FOR FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-12	03-05-17	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
T-WZ-15	03-05-17	INTERIOR LANE CLOSURE ON FREEWAYS OR EXPRESSWAYS
T-WZ-16	03-05-17	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-05-17	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-21	03-05-17	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)
T-WZ-31	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)
T-WZ-32	03-05-17	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-36	03-05-17	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	03-16-17	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-18		SEDIMENT BASIN FLOATING OUTLET STRUCTURE
EC-STR-21	08-01-12	PERMANENT RIPRAP BASIN ENERGY DISSIPATORS
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-38	08-01-12	FLOATING TURBIDITY CURTAIN
EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)

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DEPARTMENT OF TRANSPORTATION

STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	1A3

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG.	REV.	DESCRIPTION
SIGNS		
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-12	07-10-17	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-11-17	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-11-17	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-11-17	SIGN DETAILS
T-S-21	07-02-15	DETAILS FOR SIGNS MOUNTS ON CONCRETE MEDIAN BARRIERS
T-S-23A	07-11-17	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT
T-S-23B	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT
T-S-23C	07-02-15	BREAKAWAY POST SIGN SUPPORTS
LIGHTING AND UTILITY POLES		
T-L-1	12-04-13	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	09-11-13	STANDARD LIGHTING DETAILS FOR SINGLE ARM
T-L-2	12-04-13	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON CONCRETE MEDIAN BARRIER
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
NEW STRUCTURES		
STD-8-2SS		SINGLE SLOPE PARAPET STANDARD LIGHT SUPPORT DETAILS
STD-8-3	09-01-91	MEDIAN BARRIER LIGHT STANDARD SUPPORT DETAILS
STD-8-3SS		SINGLE SLOPE MEDIAN BARRIER STANDARD LIGHT SUPPORT DETAILS
BRIDGE APPURTENANCES ENGLISH (LRFD BOX CULVERTS)		
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS THAN 45 DEG
STD-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' – 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-14		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTION
STD-17-17		BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-51	05-01-14	BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL
STD-17-56		BOX BRIDGE, 1 BARREL AT 12', CLEAR HTS. 4' - 6', 0 - 60' FILL

SEALED BY

JASON P. SIVERLING
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STATE OF TENNESSEE

01/16/2019

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS

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ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	202-01.56	REMOVAL OF STRUCTURES & OBSTRUCTIONS (DESCRIPTION)	LS	1
(2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	275202
(10)(7)	203-01.11	PRESPLITTING OF ROCK EXCAVATION	S.Y.	3595
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	141366
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	30426
	203-05	UNDERCUTTING	C.Y.	450
	203-06	WATER	M.G.	2157
(5)	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	500
	203-08	CHANNEL EXCAVATION (UNCLASSIFIED)	C.Y.	128
(11)	203-10.16	GRADED SOLID ROCK (IN-PLACE)	C.Y.	2350
	203-40.02	ROCK ANCHORS (DESCRIPTION)	EACH	1150
	204-08	FOUNDATION FILL MATERIAL	C.Y.	101
(5)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	150
(25)	204-09.01	COFFERDAM (WALLS 7 AND 7A - STA.167+25.00 TO 180+25.00)	LS	1
	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	1896
	209-05	SEDIMENT REMOVAL	C.Y.	2000
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	62591
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	30438
	209-08.07	ROCK CHECK DAM PER	EACH	193
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	60
(5)(1)	209-09.01	SANDBAGS	BAG	8000
	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	10
	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	199
	209-13.04	TURBIDITY CURTAIN(DESCRIPTION)	L.F.	2500
	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	24
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	11
	209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	172
	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	200
(3)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	161405
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	887
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	475
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1368
	307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	23800
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	40086
(13)	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	29921
	313-03	TREATED PERMEABLE BASE	S.Y.	20327
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	332
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1312
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	241
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	1132
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	698
	411-01.11	ACS MIX(PG64-22) GRADING E RDWY	TON	1833
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	11680
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	8
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	1
	415-01.03	COLD PLANING BITUMINOUS PAVEMENT	C.Y.	500
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	S.Y.	13334
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	283
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	60664
(21)	604-01.04	1-1/2" STEEL PIPE HANDRAIL	L.F.	750
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	6226
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	6044
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	637
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	340
	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	126
	610-07.03	18" PIPE DRAIN (BRIDGE DRAIN)	L.F.	300
	611-01.20	ADJUSTMENT OF EXISTING MANHOLE	EACH	1
	611-02.11	JUNCTION BOX, TYPE 2	EACH	3
	611-02.13	JUNCTION BOX, TYPE 4	EACH	1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	6
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	105
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	8
	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	10
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	5
	611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	2
	611-07.64	36IN ENDWALL (CROSS DRAIN) 4:1	EACH	5
	611-07.67	42IN ENDWALL (CROSS DRAIN) 4:1	EACH	2
	611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	6
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	1
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	29
	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	4
	611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	1
	611-12.05	CATCH BASINS, TYPE 12, > 16' - 20' DEPTH	EACH	1
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	1
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH	4
	611-38.03	CATCH BASINS, TYPE 38, > 8' - 12' DEPTH	EACH	1
	611-38.05	CATCH BASINS, TYPE 38, >(16 ' - 20 ' DEPTH)	EACH	2
	611-41.01	CATCH BASINS, TYPE 41, 0' - 4' DEPTH	EACH	24
	611-41.02	CATCH BASINS, TYPE 41, > 4' - 8' DEPTH	EACH	50
	611-41.03	CATCH BASINS, TYPE 41, > 8' - 12' DEPTH	EACH	3
	611-41.05	CATCH BASINS, TYPE 41, > 16' - 20' DEPTH	EACH	2
	611-41.08	CATCH BASINS, TYPE 41, > 28' DEPTH	EACH	1
	621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F.	350
	702-01	CONCRETE CURB	C.Y.	15
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	675
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	296
	705-06.01	SINGLE GUARDRAIL (TYPE 2)	L.F.	6460
	705-06.11	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	4
	705-06.20	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	6
	705-06.30	GUARDRAIL TERMINAL (TYPE 21)	EACH	3
(20)	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	10
(12)	705-20.25	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH	10
	706-01	GUARDRAIL REMOVED	L.F.	8710
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	8000
	707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	50
(22)	707-02.12	END & CORNER POST ASSEMBLIES (6' VINYL COATED)	EACH	83
	707-02.11	CHAIN-LINK FENCE (6 FOOT) (VINYL COATED)	L.F.	660

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	707-03.01	STOCK FENCE	L.F.	9000
	707-03.02	END, BRACED LINE, CORNER POST ASSEMBLY(STOCK FENCE)	EACH	60
	707-08.02	GATE (30' SINGLE SWING GATE)	EACH	2
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	120
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	61
(8)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	1750
(14)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	4822
(15)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	32
(15)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	80
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	23000
(9)	710-05	LATERAL UNDERDRAIN	L.F.	1000
	710-06.11	LATERAL UNDERDRAIN ENDWALL (2:1)	EACH	10
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	10
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	10
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	40
	711-05.71	51IN SINGLE SLOPE CONCRETE BARRIER WALL	L.F.	20000
	711-05.72	SINGLE SLOPE HALF CONCRETE BARRIER WALL	L.F.	10450
(16)	711-05.78	GRADE SEPARATED SINGE SLOPE MEDIAN WALL	L.F.	1387
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	13300
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	1500
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	66
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	135
	712-06	SIGNS (CONSTRUCTION)	S.F.	1152
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	300
	712-08.03	ARROW BOARD (TYPE C)	EACH	6
	712-08.10	MOBILE MESSAGE SIGN UNIT W/ATTENUATOR	HOUR	10000
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	10000
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	10000
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	20
	712-09.05	REMOVABLE PAVEMENT MARKING (ARROW)	EACH	2
	712-09.30	REMOVABLE BLACK-OUT TAPE (6")	L.F.	10000
	712-09.31	REMOVABLE BLACK-OUT TAPE (8IN)	L.F.	10000
	712-12.10	TEMPORARY CURB W/FLEXIBLE DELINEATOR	L.F.	5000
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	8
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB.	2140
	713-02.14	FLEXIBLE DELINEATOR (WHITE)	EACH	225
	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	450
	713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	LB.	7480
	713-09.01	STEEL OVERHEAD SIGN STRUCTURE (SPAN 68'-0") (SIGN 35)	EACH	1
	713-09.02	STEEL OVERHEAD SIGN STRUCTURE (SPAN 133'-0") (SIGNS 69 & 70)	EACH	1
	713-09.03	STEEL OVERHEAD SIGN STRUCTURE (SPAN 84'-5") (SIGN 79)	EACH	1
	713-09.04	STEEL OVERHEAD SIGN STRUCTURE (SPAN 66'-0") (SIGN 82)	EACH	1
	713-09.05	STEEL OVERHEAD SIGN STRUCTURE (SPAN 60'-4") (SIGN 87)	EACH	1
	713-09.06	STEEL OVERHEAD SIGN STRUCTURE (SPAN 65'-4") (SIGN 89)	EACH	1
	713-09.07	STEEL OVERHEAD SIGN STRUCTURE (SPAN 58'-0") (SIGN 105)	EACH	1
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	2155
	713-11.03	2 1/2" DIA ROUND STEEL TUBE SIGN POST	LB.	100
	713-11.21	P POST SLIP BASE	EACH	14
	713-11.23	ROUND POST SLIP BASE	EACH	2
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	400
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	580
	713-14	EXTRUDED ALUMINUM PANEL SIGNS	S.F.	2715
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	8
	713-17.02	INSTALL AUXILIARY SUPPORT FOR EXIT NUMBER PANEL	EACH	9
(23)	713-30.09	BARRIER MOUNTED SIGN SUPPORT (MOUNTED ON BARRIER WALL)	EACH	32
(23)	713-30.10	BARRIER MOUNTED SIGN SUPPORT (EXIT GORE SIGNS)	EACH	3
	716-01.06	TEMPORARY RAISED PAVEMENT MARKER,WHITE	EACH	200
	716-01.07	TEMPORARY RAISED PAVEMENT MARKER,YELLOW	EACH	800
(17)	716-01.21	SNOWPLOWABLE RAISED PAVMENT MARKERS (BI-DIR) (1 COLOR)	EACH	200
	716-01.22	SNOWPLOWABLE RAISED PAVMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	500
	716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	300
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	150
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	110
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	6
(6)	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	3000
	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	4
	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	2
	716-04.06	PLASTIC PAVEMENT MARKING (WRONG WAY ARROW)	EACH	6
	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	26
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	9
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	110
(19)	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	6
	716-05.09	PAINTED PAVEMENT MARKING(STRAIGHT-TURN ARROW)	EACH	2
	716-05.49	PAINTED PAVEMENT MARKINGS(8" LINE)	L.M.	15
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	20000
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	15
	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	4200
(18)	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	4600
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	5
	716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.	4
	716-13.03	SPRAY THERMO PVMT MRKNG (60 mil) (8IN BARRIER LINE)	L.F.	1500
	716-13.11	SPRAY THERMO PVMT KRKNG (60 MIL 12IN BARRIER LINE)	L.F.	850
	717-01	MOBILIZATION	LS	1
	722-01.02	FIELD OFFICE (TYPE 2)	LS	1
	725-10.85	CONDUIT & PULL BOX NETWORK	LS	1
	725-24.55	AS-BUILT PLANS	LS	1
	730-40.02	TEMPORARY TRAFFIC SIGNAL SYSTEM	LS	1
(1)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	8354
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	4000
(5)(1)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN (DESCRIPTION)	L.F.	45350
(5)(1)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	2500
	801-01	SEEDING (WITH MULCH)	UNIT	600
(4)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	600
	801-02	SEEDING (WITHOUT MULCH)	UNIT	1210
	801-02.15	FERTILIZER	TON	20
	801-03	WATER (SEEDING & SODDING)	M.G.	122
	803-01	SODDING (NEW SOD)	S.Y.	2500
(5)(4)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	107400
	806-02.03	PROJECT MOWING	CYCL	20

(1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT.

(2) INCLUDES 625 C.Y. FOR EROSION CONTROL DEVICES

(3) INCLUDES 20,000 TON FOR MAINTENANCE OF TRAFFIC AND 500 TONS FOR GEOTECH.

(4) TO BE USED ON ALL SLOPES OR AS DIRECTED BY THE TDOT SUPERVISOR.

(5) MAY BE INCREASED OR DECREASED AS DIRECTED BY THE TDOT SUPERVISOR.

(6) 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.

(7) SEE SPECIAL PROVISION 107H REGARDING CONTROLLED ROCK BLASTING

(8) TO BE USED FOR TEMPORARY CONSTRUCTION ENTRANCES.

(9) UNDERDRAINS ALONG THE CURB AND GUTTER SECTIONS ARE TO BE TIED INTO CATCH BASINS

(10) AS SHOWN ON CROSS SECTIONS FROM STA. 136+50 TO STA. 143+75, STA. 158+00 TO STA. 162+50, AND FROM STA. 165+00 TO STA. 170+30

(11) SEE GEOTECH NICAL PLAN SHEET G1, NOTE 1.

(12) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.

(13) INCLUDES 10,000 TONS FOR MAINTENANCE OF TRAFFIC.

(14) INCLUDES 4422 TON FOR EROSION CONTROL AND 400 TON FOR RIP-RAP DITCHES.

(15) TO BE USED FOR RIP-RAP APRONS.

(16) AS SHOWN ON PLANS AND CROSS SECTIONS FROM STA. 52+92.69 (WESTERN CONNECTOR) TO STA. 110+74.75, TO STA. 158+50 TO STA. 159+25, FROM STA. 162+25 TO STA. 163+25, FROM STA. 187+00 TO STA. 191+50, FROM STA. 191+50 TO STA. 195+00 AND FROM STA. 194+00 TO STA. 196+28.51.

(17) BID PRICE TO INCLUDE THE REMOVAL OF EXISTING MARKERS.

(18) TO BE USED FOR FINAL PAVEMENT MARKINGS.

(19) TO BE USED FOR TEMPORARY PAVEMENT MARKINGS.

(20) THIS ITEM SHALL BE A PORTABLE, ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF MASH OR 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.

(21) AS SHOWN ON PLANS AND CROSS SECTIONS FROM STA. 170+75 TO STA. 171+75 AND FROM STA. 173+75 TO STA. 180+25.

(22) AS SHOWN ON PLANS AND CROSS SECTIONS FROM STA. 184+79 TO STA. 191+50.

(23) INCLUDES BASE PLATE, SIGN POST, ANCHOR BOLTS, AND WELDING. REFER TO SIGN SCHEDULE FOR SUPPORT TYPE AND LENGTH.

(24) TO BE USED AT THE PRIVATE DRIVE SERVING TRACT 18 LOCATED TO THE LEFT OF S.R. 115 STA. 201+19 AND THE PRIVATE DRIVE OFF OF MALONEY ROAD.

(25) INCLUDES APPROXIMATELY 1000 L.F. OF COFFER DAM TO BE USED DURING THE CONSTRUCTION OF WALLS 7 AND 7A

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	2A

SEALED BY

JASON P. SIVERLING
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AGRICULTURE
COMMERCE
NO. 109025
STATE OF TENNESSEE

01/16/2019

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	2C

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT 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 (FEMA) WITHOUT APPROVAL BY FEMA. 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

(1) 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 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

(2) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

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

GUARDRAIL

(1) 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.

(2) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(1) 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.

(2) EXCAVATION FOR CULVETS, CATCHBASINS, MANHOLES, JUNCTION BOXES AND ENDWALLS 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).

(3) 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.

(4) 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).

(5) 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.

(6) 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.

(7) 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), C.Y.

FENCING

(1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.

(2) FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES, STOCK PASSES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.

(3) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

(4) THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ACCESS CONTROL FENCES PRIOR TO CUTTING EXISTING STOCK FENCES IN AREAS UTILIZED BY DOMESTIC LIVESTOCK OR OTHER AREAS AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

(1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.

(3) 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.

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

(1) 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. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

(2) 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.

(3) 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), L.F.

FINAL PAVEMENT MARKING

(4) 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.

(5) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4IN LINE), L.M.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(6) THE PAVEMENT MARKING ON THE LANE SHIFT FOR ALOCA HIGHWAY NORTHBOUND AND SOUTHBOUND WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M..

PAVEMENT

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(3) 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

(1) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUTOUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.

(2) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.

(1) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(2) 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.

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER AGENCY NO. 109934 COMMERCE STATE OF TENNESSEE

11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GENERAL
NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	2C1

GENERAL NOTES (CONTINUED)

(1) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION (TDOT.TrafficOps@TN.GOV) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE REGIONAL SIGN DESIGNER FOR REVIEW.

(2) 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.

(3) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

(4) 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.

TRAFFIC CONTROL DIRECTIONAL SIGNING

(1) ON ALL ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS. THE CONTRACTOR SHALL UTILIZE ALL EXISTING DIRECTIONAL SIGNING FOR AS LONG AS POSSIBLE. THESE EXISTING SIGNS CAN BE MOVED USING TEMPORARY SUPPORTS AS NEEDED. AS SOON AS THESE EXISTING DIRECTIONAL SIGNS COME DOWN PERMANENTLY, THE CONTRACTOR SHALL HAVE UP AT LEAST ONE NEW TEMPORARY "ADVANCE GUIDE SIGN" AND ONE NEW TEMPORARY "EXIT DIRECTIONAL SIGN" AT ALL EXIT RAMPS. THESE SIGNS ARE TO BE MAINTAINED WITHIN CLEAR VIEW OF THE PUBLIC ON THE RIGHT SIDE OF THE HIGHWAY AND SHALL BE REPLACED IF DAMAGED, DURING ALL PHASES OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER.

(2) THE SIZE OF THESE NEW TEMPORARY SIGNS WILL BE DETERMINED BY THE MESSAGE. THE MESSAGE SHALL BE THE SAME AS THE EXISTING SIGN THAT THESE NEW TEMPORARY SIGNS WILL BE REPLACING. THE LETTER SIZE SHALL BE A MINIMUM OF 8 INCH, "D" UPPER CASE LETTER. THE DIRECTIONAL ARROW WILL BE A "B" ARROW AT A 45 DEGREE ANGLE (SAME ANGLE AS THE EXISTING ARROW). THE MATERIAL SHALL BE 0.100 INCH SHEET ALUMINUM; THE COLOR SHALL BE A REFLECTIVE GREEN BACKGROUND WITH REFLECTIVE WHITE COPY.

(3) ALL WORK AND MATERIAL TO MAKE THESE NEW TEMPORARY DIRECTIONAL SIGNS ALONG WITH ADEQUATE SUPPORTS AND TO MOVE THEM AS NEEDED DURING EACH PHASE OF CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 712-06 , AS DIRECTED BY THE ENGINEER.

(4) SOME OF THESE DIRECTIONAL SIGNS WILL NEED AN INTERSTATE, U.S., OR A STATE HIGHWAY SHIELD, A CARDINAL DIRECTION, AND A DIRECTION ARROW TO ACCOMPANY THE DIRECTIONAL SIGN. THESE SIGNS SHALL BE MOUNTED BELOW THE DIRECTIONAL SIGN.

(5) ALL EXISTING "EMERGENCY REFERENCE MARKERS" AND "HOSPITAL SIGNS" SHALL BE MAINTAINED WITHIN FULL VIEW OF THE MOTORING PUBLIC THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING AND TEMPORARY SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 712-06 .

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.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, 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.

(6) 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.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

LIGHTING

(1) 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) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.

(4) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.

(5) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(6) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(7) 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.

(8) STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.

(9) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.

(10) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.

(11) BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

(1) 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.

(6) 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.

(9) 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.

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 109034 STATE OF TENNESSEE

11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GENERAL
NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	2C2

GENERAL NOTES (CONTINUED)

SPECIES

(1) 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.

(2) 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).

(3) 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

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

PERMITS, PLANS & RECORDS

(5) 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).

(6) 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.

(7) 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.

(8) 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

(9) 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.

(10) 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.

(11) 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.

(12) 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.

(13) 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.

(14) 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.

(15) 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.

(16) 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.

(17) 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.

(18) 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.

(19) 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.

(20) 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

(21) 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.

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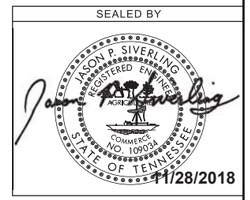

11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GENERAL
NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	2D

SPECIAL NOTES

GRADING

(1) 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.

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) 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.

(5) 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.

DEMOLITION OF BUILDINGS

(1) IF THE ASBESTOS SURVEY AND ABATEMENT IS NOT PART OF THE ON TRACT, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TDOT HAZARDOUS MATERIALS OFFICE TO VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED FOR ANY BUILDING TO BE REMOVED. IN THE CASE THAT NO SURVEY HAS BEEN COMPLETED THE CONTRACTOR SHALL COORDINATE WITH THE HAZARDOUSE MATERIAL OFFICE IN SCHEDULING A SURVEY.

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT SHALL BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES FOR BUILDINGS INCLUDED IN THE PROJECT. 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.

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

(1) IF 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.

RETAINING WALLS

(1) THE (RIGHT-OF-WAY/EASEMENT) SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED THERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.

(2) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON THE RETAINING WALL SHEET(S).

(3) ALL COST OF BUILDING, INSTALLING AND BACKFILLING THE RETAINING WALL, INCLUDING GRANULAR BACKFILL, GEOTEXTILE FABRIC (TYPE IV), LEVELING PAD, AMD MOMENT SLAB, SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL. COSTS FOR EXCAVATION OF THE WALL SHALL BE INCLUDED IN ITEM 203-01, ROAD AND DRAINAGE EXCAVATION PER CUBIC YARD. END AREAS FOR EXCAVATION FOR THE WALL SHALL BE INCLUDED IN END AREA TOTALS ON CROSS-SECTIONS.

SIGNALIZATION

(1) 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.

MULTIMODAL

(1) THE CONTRACTOR SHALL IDENTIFY LOCATIONS WITHIN THE PROJECT LIMITS WHERE THE TDOT ROADWAY STANDARDS CANNOT BE USED DUE TO SITE LIMITATIONS. A SITE LAYOUT DETAIL SHOWING THE PROPOSED ALTERATIONS AND DEVIATIONS SHALL BE SUBMITTED TO THE PROJECT SUPERVISOR THREE WEEKS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE DEPARTMENT WILL REVIEW AND EVALUATE THE DETAILS FOR PROPER INSTALLATIONS THAT WILL MEET REGULATIONS.

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

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

ECOLOGY

(2) 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.

(3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.

(4) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

PROJECT COMMITMENTS

(5) SEE PROJECT COMMITMENTS, SHEET __1B___, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

SCOPE OF WORK

(1) THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE, PAVEMENT, AND GUARDRAIL FOR S.R. 115 AND ALL SIDEROADS, RAMPS AND GREENWAYS TO LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS AND PLAN AND PROFILE SHEETS OR AS DIRECTED BY THE TDOT DISTRICT MANAGER.

(2) THE CONSTRUCTION OF THE PROPOSED BRIDGES, RETAINING WALLS AND THE EXTENSION OF CONCRETE BOX CULVERTS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT DISTRICT MANAGER.

(3) CONSTRUCTION OF PRIVATE DRIVES TO LINES AND GRADES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT DISTRICT MANAGER.

(4) CONSTRUCTION OF ALL DITCHES, LIGHTING, SIGNING, APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL DEVICES, SEEDING, PAVEMENT MARKINGS, INSTALLATION OF THE TRAFFIC CONTROL DEVICES, AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT DISTRICT MANAGER

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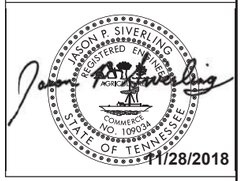

11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

SPECIAL
NOTES

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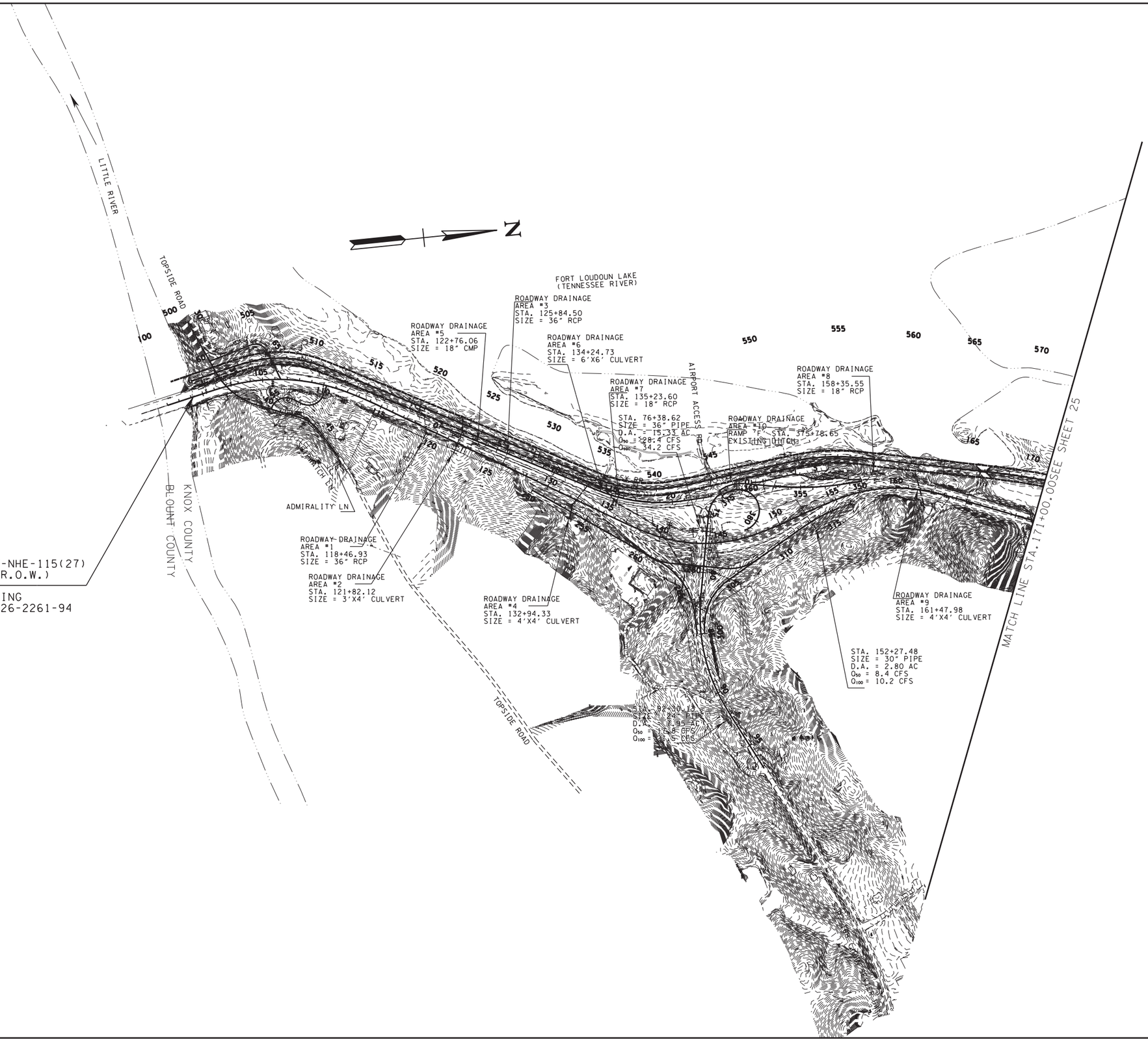
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	20
CONST	2019	STP/NH-115(27)	24

S.R. 115 (ALCOA HWY) KNOX COUNTY

REVISED 01-24-18

ADDED CSXT DRAINAGE AREA BLOCKS



BEGIN PROJ. STP-NHE-115(27)
STA. 99+12.10 (R.O.W.)

SOUTHERN ADJOINING
PROJECT NO. 47026-2261-94

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
COMMERCE NO. 1090261
STATE OF TENNESSEE

11/28/2018

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.99+12.10 TO STA.171+00.00

SCALE: 1"=400'

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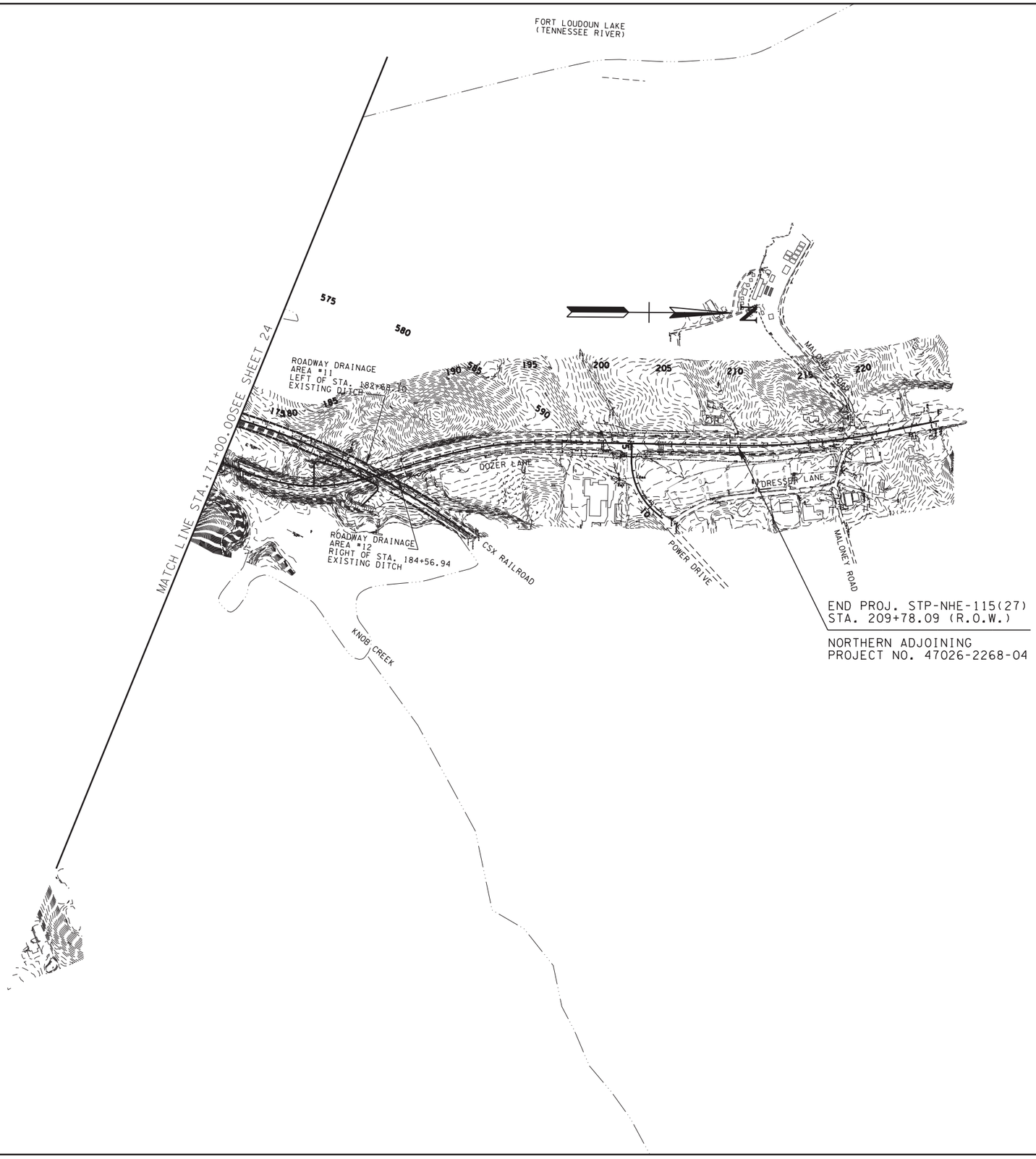
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	21
CONST	2019	STP/NH-115(27)	25

S.R. 115 (ALCOA HWY) KNOX COUNTY



SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
COMMERCE NO. 109034
STATE OF TENNESSEE

11/28/2018

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.171+00.00 TO STA.217+20.00

SCALE: 1"=400'

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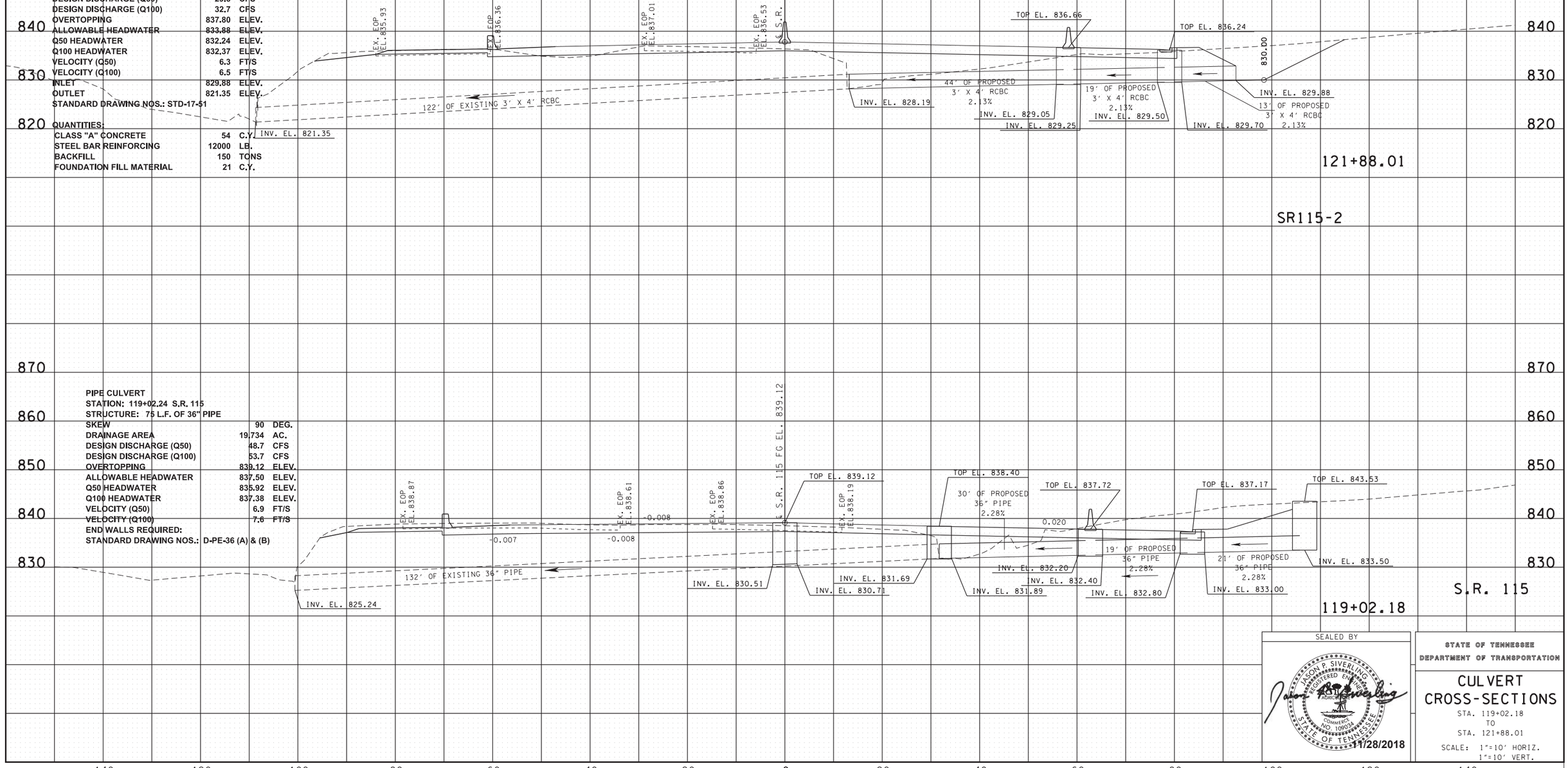
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	22
CONST.	2019	STP/NH-115(27)	26

BOX \ SLAB BRIDGE or CULVERT
STATION: 121+88.01 S.R. 115
STRUCTURE: 80 L.F. OF 3' X 4' R.C.B.C.

SKEW	90	DEG.
DRAINAGE AREA	17.405	AC.
DESIGN DISCHARGE (Q50)	29.8	CFS
DESIGN DISCHARGE (Q100)	32.7	CFS
OVERTOPPING	837.80	ELEV.
ALLOWABLE HEADWATER	833.88	ELEV.
Q50 HEADWATER	832.24	ELEV.
Q100 HEADWATER	832.37	ELEV.
VELOCITY (Q50)	6.3	FT/S
VELOCITY (Q100)	6.5	FT/S
INLET	829.88	ELEV.
OUTLET	821.35	ELEV.
STANDARD DRAWING NOS.: STD-17-S1		

QUANTITIES:

CLASS "A" CONCRETE	54	C.Y.
STEEL BAR REINFORCING	12000	LB.
BACKFILL	150	TONS
FOUNDATION FILL MATERIAL	21	C.Y.



PIPE CULVERT
STATION: 119+02.24 S.R. 115
STRUCTURE: 75 L.F. OF 36" PIPE

SKEW	90	DEG.
DRAINAGE AREA	19.734	AC.
DESIGN DISCHARGE (Q50)	48.7	CFS
DESIGN DISCHARGE (Q100)	53.7	CFS
OVERTOPPING	839.12	ELEV.
ALLOWABLE HEADWATER	837.50	ELEV.
Q50 HEADWATER	835.92	ELEV.
Q100 HEADWATER	837.38	ELEV.
VELOCITY (Q50)	6.9	FT/S
VELOCITY (Q100)	7.6	FT/S
END WALLS REQUIRED:		
STANDARD DRAWING NOS.:	D-PE-36 (A) & (B)	

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11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 119+02.18
TO
STA. 121+88.01

SCALE: 1"=10' HORIZ.
1"=10' VERT.

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	23
CONST.	2019	STP/NH-115(27)	27

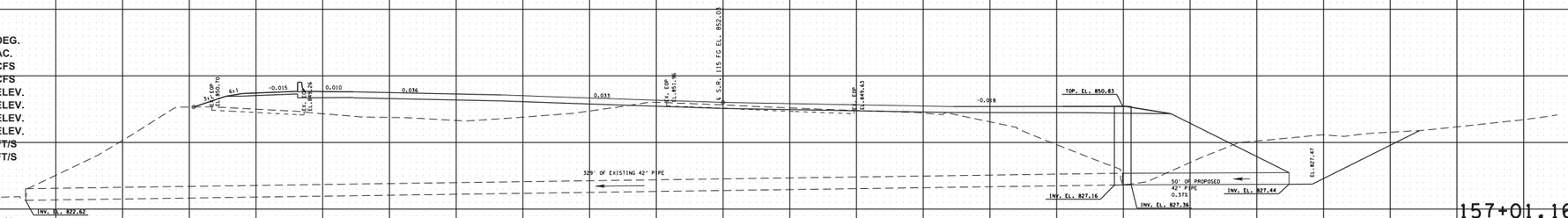
PIPE CULVERT
STATION: 157+01.16 S.R. 115
STRUCTURE: 50 L.F. OF 42" PIPE

SKEW	90	DEG.
DRAINAGE AREA	11.258	AC.
DESIGN DISCHARGE (Q50)	29.7	CFS
DESIGN DISCHARGE (Q100)	32.8	CFS
OVERTOPPING	855.35	ELEV.
ALLOWABLE HEADWATER	831.94	ELEV.
Q50 HEADWATER	829.90	ELEV.
Q100 HEADWATER	830.05	ELEV.
VELOCITY (Q50)	6.5	FT/S
VELOCITY (Q100)	6.7	FT/S

END WALLS REQUIRED: D-PE-1
STANDARD DRAWING NOS.:

QUANTITIES:

CLASS "A" CONCRETE	6.25	C.Y.
STEEL BAR REINFORCING	105	LB.
BEDDING MATERIAL		C.Y.
ENDWALL ITEM NOS.:		



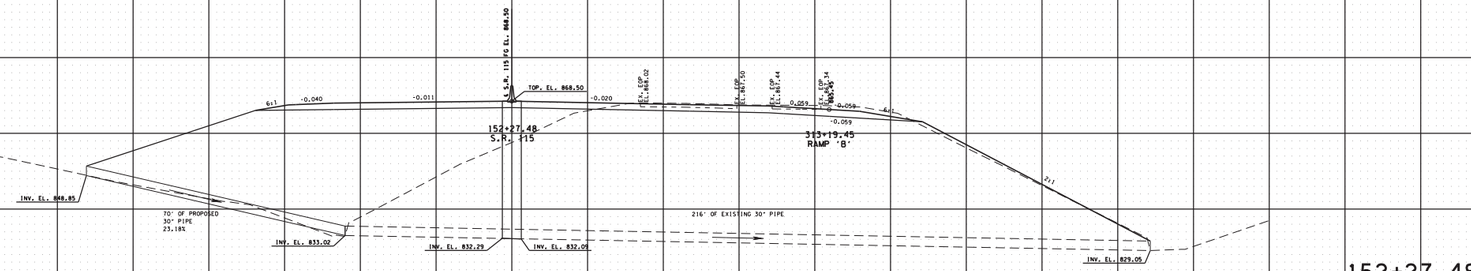
SR115-2
157+01.16

157+01.16

PIPE CULVERT
STATION: 152+27.48 S.R. 115
STRUCTURE: 68 L.F. OF 30" PIPE

SKEW	90	DEG.
DRAINAGE AREA	2.799	AC.
DESIGN DISCHARGE (Q50)	8.4	CFS
DESIGN DISCHARGE (Q100)	10.2	CFS
OVERTOPPING	868.50	ELEV.
ALLOWABLE HEADWATER	852.35	ELEV.
Q50 HEADWATER	8.4	ELEV.
Q100 HEADWATER	10.2	ELEV.
VELOCITY (Q50)	4.8	FT/S
VELOCITY (Q100)	5.1	FT/S

END WALLS REQUIRED:
STANDARD DRAWING NOS.: D-PE-30 (A) & (B)



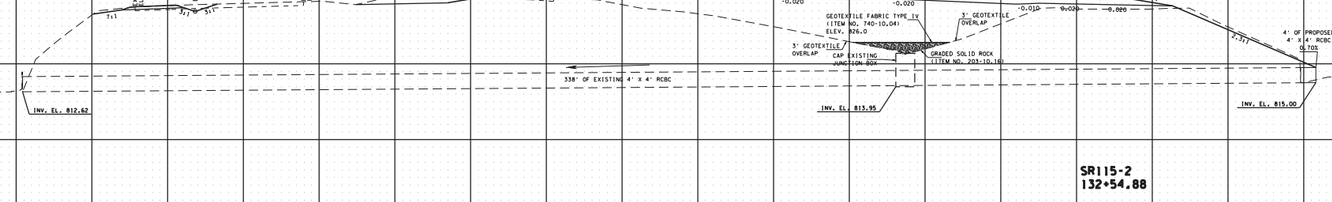
152+27.48

BOX \ SLAB BRIDGE or CULVERT
STATION: 132+54.88 S.R. 115
STRUCTURE: 4 L.F. OF 4' X 4' R.C.B.C.

SKEW	90	DEG.
DRAINAGE AREA	39.930	AC.
DESIGN DISCHARGE (Q50)	45.7	CFS
DESIGN DISCHARGE (Q100)	50.3	CFS
OVERTOPPING	840.01	ELEV.
ALLOWABLE HEADWATER	820.00	ELEV.
Q50 HEADWATER	817.84	ELEV.
Q100 HEADWATER	818.00	ELEV.
VELOCITY (Q50)	6.9	FT/S
VELOCITY (Q100)	7.1	FT/S
INLET	815.00	ELEV.
OUTLET	812.62	ELEV.
STANDARD DRAWING NOS.: STD-17-51		

QUANTITIES:

CLASS "A" CONCRETE	6	C.Y.
STEEL BAR REINFORCING	1400	LB.
BACKFILL	8	TONS
FOUNDATION FILL MATERIAL	1	C.Y.



SR115-2
132+54.88

132+54.88

S.R. 115

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
No. 109034
STATE OF TENNESSEE

11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.132+54.88
TO
STA.157+01.16

SCALE: 1"=20' HORIZ.
1"=20' VERT.

11/30/2018 10:13:07 AM
L:\TDOT\9990\ROW - CULV XSECT.SHT

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	24
CONST.	2019	STP/NH-115(27)	28

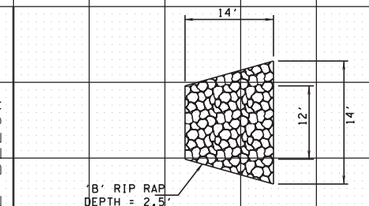
SIDE DRAIN
STATION: 7+42.62
STRUCTURE: 6.0' X 6.0' R.C.B.C.

SKEW	40	DEG.
DRAINAGE AREA	235	AC.
DESIGN DISCHARGE (Q50)	200	CFS
DESIGN DISCHARGE (Q100)	240	CFS
OVERTOPPING	825.34	ELEV.
ALLOWABLE HEADWATER	823.90	ELEV.
Q50 HEADWATER	823.73	ELEV.
Q100 HEADWATER	824.44	ELEV.
VELOCITY (Q50)	10.3	FT/S
VELOCITY (Q100)	11.2	FT/S

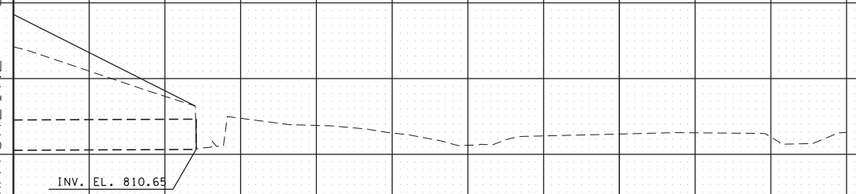
STANDARD DRAWING NOS.: STD-17-14, STD-7-20, & STD-7-51

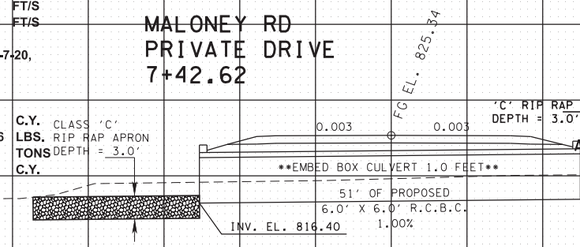
QUANTITIES:

CLASS "A" CONCRETE	59	C.Y.
STEEL BAR REINFORCING	9936	LBS.
BACKFILL	295	TONS
FOUNDATION FILL MATERIAL	35	C.Y.



DETAIL OF RIP RAP APRON AT PIPE OUTLET





DETAIL OF RIP RAP APRON AT PIPE OUTLET

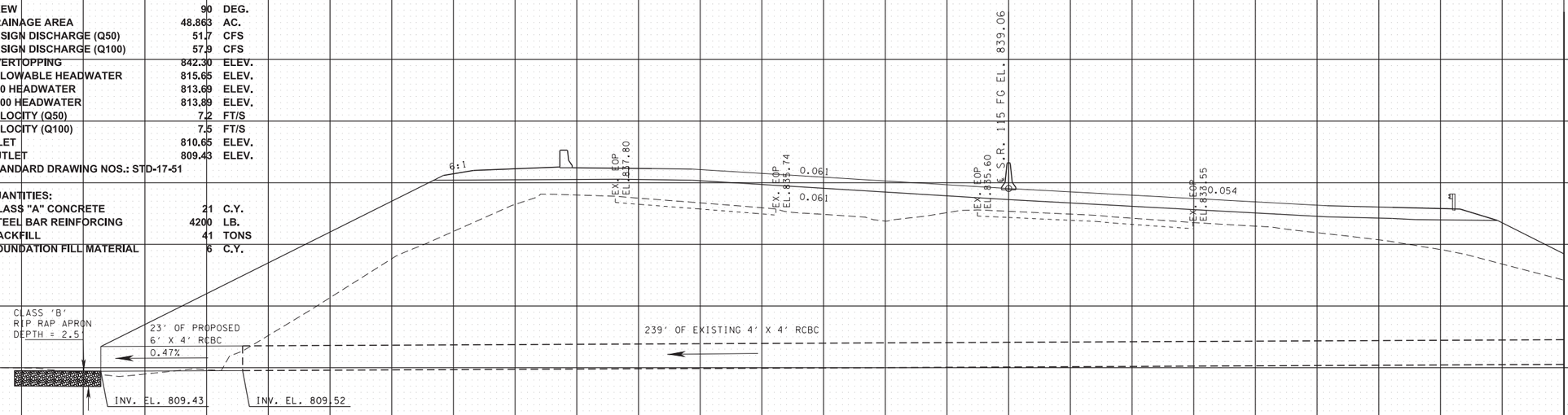
BOX \ SLAB BRIDGE or CULVERT
STATION: 161+94.93 S.R. 115
STRUCTURE: 23 L.F. OF 4' X 4' R.C.B.C.

SKEW	90	DEG.
DRAINAGE AREA	48.863	AC.
DESIGN DISCHARGE (Q50)	51.7	CFS
DESIGN DISCHARGE (Q100)	57.9	CFS
OVERTOPPING	842.30	ELEV.
ALLOWABLE HEADWATER	815.65	ELEV.
Q50 HEADWATER	813.69	ELEV.
Q100 HEADWATER	813.89	ELEV.
VELOCITY (Q50)	7.2	FT/S
VELOCITY (Q100)	7.5	FT/S
INLET	810.65	ELEV.
OUTLET	809.43	ELEV.

STANDARD DRAWING NOS.: STD-17-51

QUANTITIES:

CLASS "A" CONCRETE	21	C.Y.
STEEL BAR REINFORCING	4200	LB.
BACKFILL	41	TONS
FOUNDATION FILL MATERIAL	6	C.Y.



161+94.93

S.R. 115

SEALED BY

JASON D. SIVERLING
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109024
STATE OF TENNESSEE

11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 161+94.93

SCALE: 1"=10' HORIZ.
1"=10' VERT.

11/30/2018 10:13:09 AM
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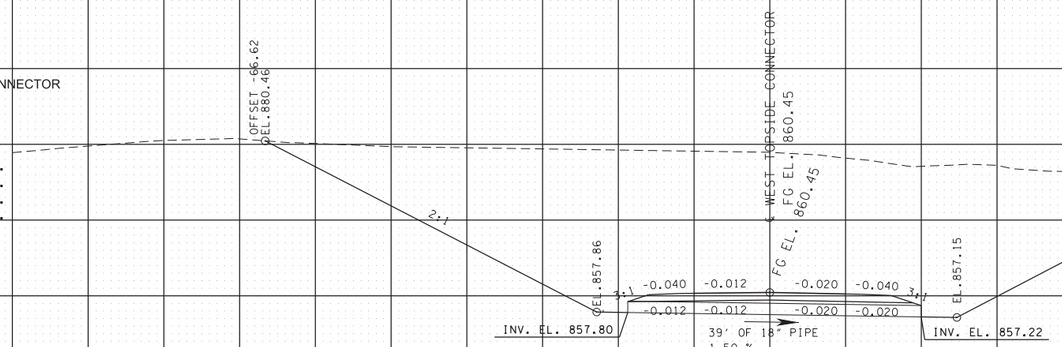
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	25
CONST.	2019	STP/NH-115(27)	29

PIPE CULVERT
STATION: 53+17.69
STRUCTURE: 39L.F. OF 18" PIPE EAST TOPSIDE CONNECTOR

SKEW	90	**DEG.**
DRAINAGE AREA	0.279	**AC.**
DESIGN DISCHARGE (Q50)	1.6	**CFS**
DESIGN DISCHARGE (Q100)	2.0	**CFS**
OVERTOPPING	860.45	**ELEV.**
ALLOWABLE HEADWATER	860.30	**ELEV.**
Q50 HEADWATER	858.64	**ELEV.**
Q100 HEADWATER	858.73	**ELEV.**
VELOCITY (Q50)	3.3	**FT/S**
VELOCITY (Q100)	3.6	**FT/S**

END WALLS REQUIRED:
STANDARD DRAWING NOS.: D-PE-18 (A) & (B)



EAST TOPSIDE CONNECTOR
53+17.69

SEALED BY

JASON D. SIVERLING
REGISTERED ENGINEER
No. 109024
STATE OF TENNESSEE
11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 53+17.69

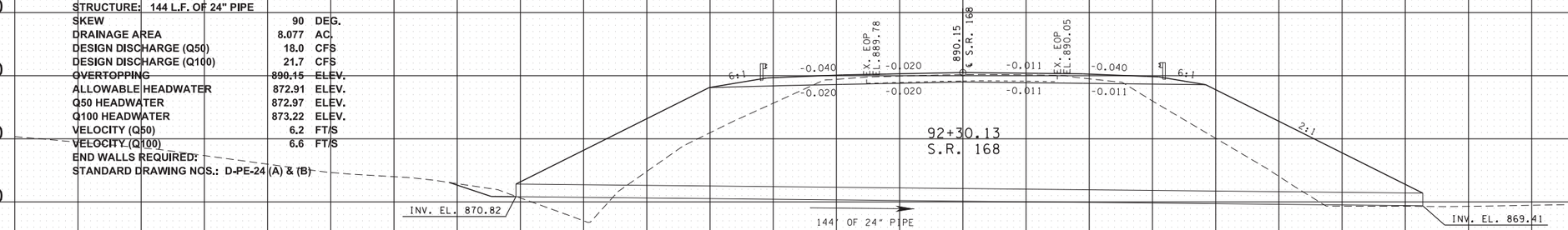
SCALE: 1"=10' HORIZ.
1"=10' VERT.

11/30/2018 10:13:10 AM
L:\TDOT\9990\ROW - CULV XSECT.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	26
CONST.	2019	STP/NH-115(27)	30

PIPE CULVERT
STATION: 92+30.13 S.R. 168
STRUCTURE: 144 L.F. OF 24" PIPE

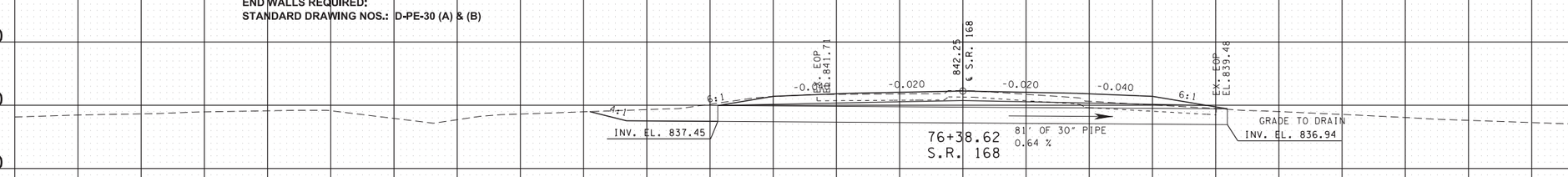
SKEW	90	DEG.
DRAINAGE AREA	8.077	AC.
DESIGN DISCHARGE (Q50)	18.0	CFS
DESIGN DISCHARGE (Q100)	21.7	CFS
OVERTOPPING	890.15	ELEV.
ALLOWABLE HEADWATER	872.91	ELEV.
Q50 HEADWATER	872.97	ELEV.
Q100 HEADWATER	873.22	ELEV.
VELOCITY (Q50)	6.2	FT/S
VELOCITY (Q100)	6.6	FT/S
END WALLS REQUIRED:		
STANDARD DRAWING NOS.:	D-PE-24 (A) & (B)	



92+30.13

PIPE CULVERT
STATION: 76+38.62 S.R. 168
STRUCTURE: 81 L.F. OF 30" PIPE

SKEW	90	DEG.
DRAINAGE AREA	7.207	AC.
DESIGN DISCHARGE (Q50)	16.5	CFS
DESIGN DISCHARGE (Q100)	20.0	CFS
OVERTOPPING	842.25	ELEV.
ALLOWABLE HEADWATER	840.44	ELEV.
Q50 HEADWATER	839.49	ELEV.
Q100 HEADWATER	839.73	ELEV.
VELOCITY (Q50)	5.97	FT/S
VELOCITY (Q100)	6.41	FT/S
END WALLS REQUIRED:		
STANDARD DRAWING NOS.:	D-PE-30 (A) & (B)	



76+38.62
S.R. 168

140 120 100 80 60 40 20 0 20 40 60 80 100 120

SEALED BY

JASON D. SIVERLING
REGISTERED ENGINEER
ABRICOM
COMMERCE
NO. 109024
STATE OF TENNESSEE

11/28/2018

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 76+38.62
TO
STA. 92+30.13

SCALE: 1"=10' HORIZ.
1"=10' VERT.

11/30/2018 10:13:11 AM
L:\TDOT\9990\ROW - CULV XSECT.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	31

KNOX CO. S.R. 115 (ALCOA HWY)

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.

(2) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL, THE ECOLOGY SECTION SHALL BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE NEWLY CONSTRUCTED STREAM / CHANNEL SHALL BE SUPPLIED WITH THE NOTIFICATION.

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 CSX CORPORATION AND AT THE CONTRACTOR'S EXPENSE.

TABULATED EPSC QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	625
209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	1896
209-05	SEDIMENT REMOVAL	C.Y.	2000
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	62591
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	30438
209-08.07	ROCK CHECK DAM PER	EACH	193
209-08.08	ENHANCED ROCK CHECK DAM	EACH	60
209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	10
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	199
209-13.04	TURBIDITY CURTAIN(DESCRIPTION)	L.F.	2500
209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	24
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	11
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	172
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	200
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	475
621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F.	350
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	1750
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	4422
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	8354
740-11.02	TEMPORARY SEDIMENT TJBE 12IN (DESCRIPTION)	L.F.	45350
740-11.03	TEMPORARY SEDIMENT TJBE 18IN (DESCRIPTION)	L.F.	2500
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	38000
209-09.01	SANDBAGS	BAG	8000

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
NO. 109034
STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

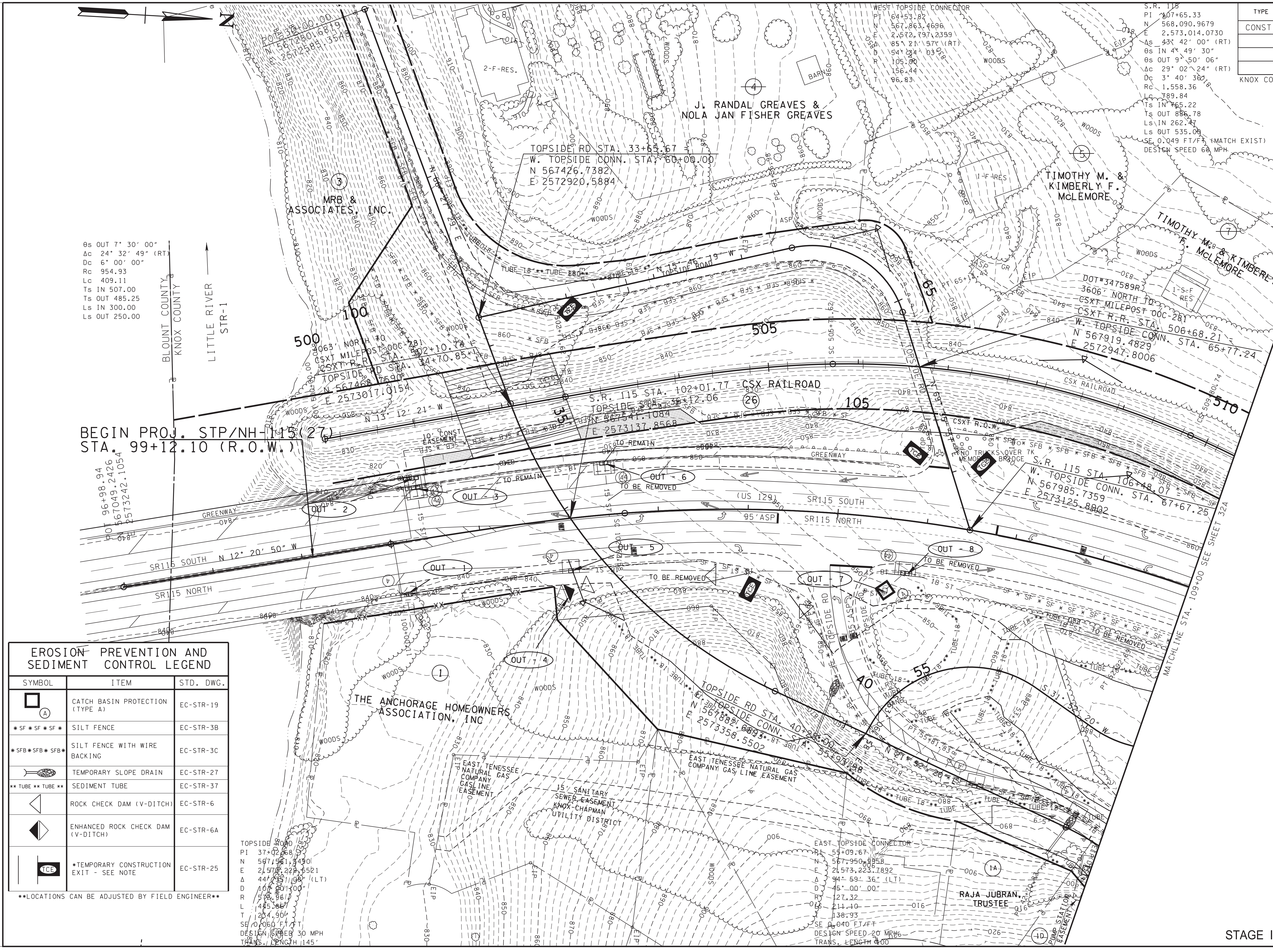
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES

1/15/2019 4:21:15 PM
L:\TDOT\9990\ROW - EPSC - PHASE 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32

KNOX CO. S.R. 115 (ALCOA HWY)



BEGIN PROJ. STP/NH-115(27)
STA. 99+12.10 (R.O.W.)
J. RANDAL GREAVES &
NOLA JAN FISHER GREAVES
MRB &
ASSOCIATES, INC.
TIMOTHY M. &
KIMBERLY F.
McLEMORE
THE ANCHORAGE HOMEOWNERS
ASSOCIATION, INC
RAJA JUBRAN,
TRUSTEE
CSX RAILROAD
SR115 SOUTH
SR115 NORTH
GREENWAY
BLOUNT COUNTY
KNOX COUNTY
LITTLE RIVER
STR-1
MATCHLINE STA. 109+00 SEE SHEET 32A
S.R. 115 STA. 106+48.07
W. TOPSIDE CONN. STA. 67+67.25
N 567985.7359
E 2573125.8802
TOPSIDE RD STA. 33+65.67
W. TOPSIDE CONN. STA. 60+00.00
N 567426.7382
E 2572920.5884
S.R. 115 STA. 102+01.77
TOPSIDE STA. 36+12.06
TOPSIDE RD STA. 40+28.00
E. TOPSIDE CONN. STA. 55+97.98
WEST TOPSIDE CONNECTOR
TOPSIDE ROAD
EAST TOPSIDE CONNECTOR
EAST TENNESSEE NATURAL GAS COMPANY GAS LINE EASEMENT
15' SANITARY SEWER EASEMENT
KNOX-CHAPMAN UTILITY DISTRICT
NO TRUCKS OVER 7K
MEMORIAL BRIDGE
OUT - 1
OUT - 2
OUT - 3
OUT - 4
OUT - 5
OUT - 6
OUT - 7
OUT - 8
TO BE REMOVED
TO REMAIN
STAGE I

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

SEALED BY

JASON P. SIVERLING
01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

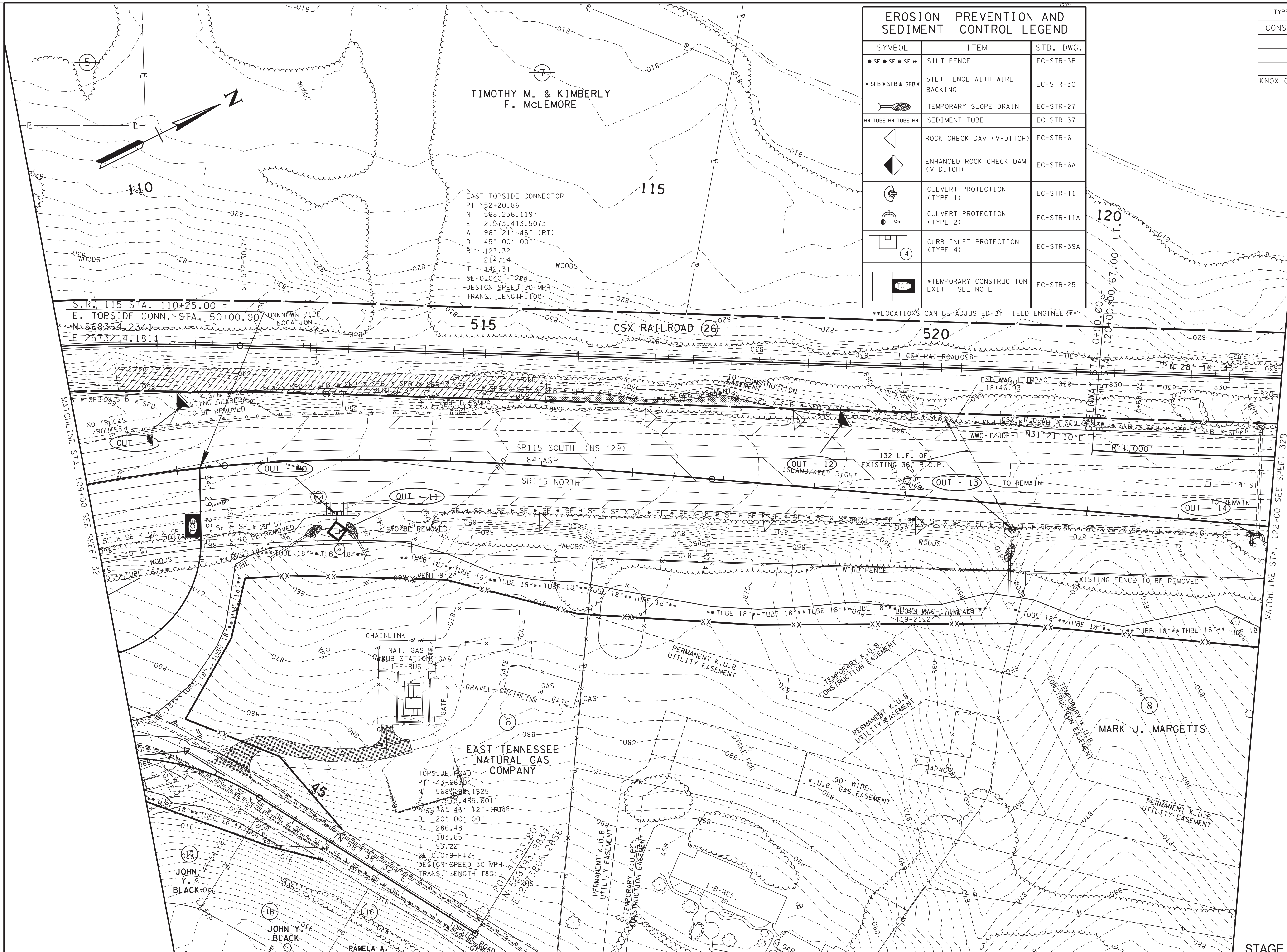
STA.96+98.94 TO STA.109+00

SCALE: 1:50'

1/15/2019 4:21:21 PM
L:\TDOT\9990\ROW - EPSC - PHASE 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32A

KNOX CO. S.R. 115 (ALCOA HWY)



TIMOTHY M. & KIMBERLY F. McLEMORE
EAST TOPSIDE CONNECTOR
PI 52+20.86
N 568,256.1197
E 2,573,413.5073
Δ 96° 21' 46" (RT)
D 45° 00' 00"
R 127.32
L 214.14
T 142.31
SE 0.040 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 100
S.R. 115 STA. 110+25.00 =
E. TOPSIDE CONN. STA. 50+00.00
N 568354.2341
E 2573214.1811
UNKNOWN PIPE LOCATION
CSX RAILROAD
EXISTING GUARDRAIL TO BE REMOVED
NO TRUCKS /ROUTES
OUT - 9
OUT - 10
OUT - 11
OUT - 12
OUT - 13
OUT - 14
SR115 SOUTH (US 129)
84' ASP
SR115 NORTH
10' CONSTRUCTION SLOPE EASEMENT
END WWC-1 IMPACT 118+46.93
BEGIN WWC-1 IMPACT 119+21.24
132 L.F. OF EXISTING 36" R.C.P. TO REMAIN
ISLAND/KEEP RIGHT
TO REMAIN
WIRE FENCE
EXISTING FENCE TO BE REMOVED
MATCHLINE STA. 109+00 SEE SHEET 32
MATCHLINE STA. 122+00 SEE SHEET 32B
NAT. GAS SUB STATION
CHAINLINK
GATE
GRAVEL
EAST TENNESSEE NATURAL GAS COMPANY
TOPSIDE ROAD
PI 43+66.04
R 286.48
L 183.85
T 95.22
SE 0.079 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 180
PERMANENT K.U.B UTILITY EASEMENT
TEMPORARY K.U.B CONSTRUCTION EASEMENT
50' WIDE K.U.B. GAS EASEMENT
STAKE FOR
GARAGE
MARK J. MARGETTS
JOHN Y. BLACK
PAMELA A. ACCUFF
1-B-RES.
WOODS

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER COMMERCE NO. 109034 STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 109+00 TO STA. 122+00

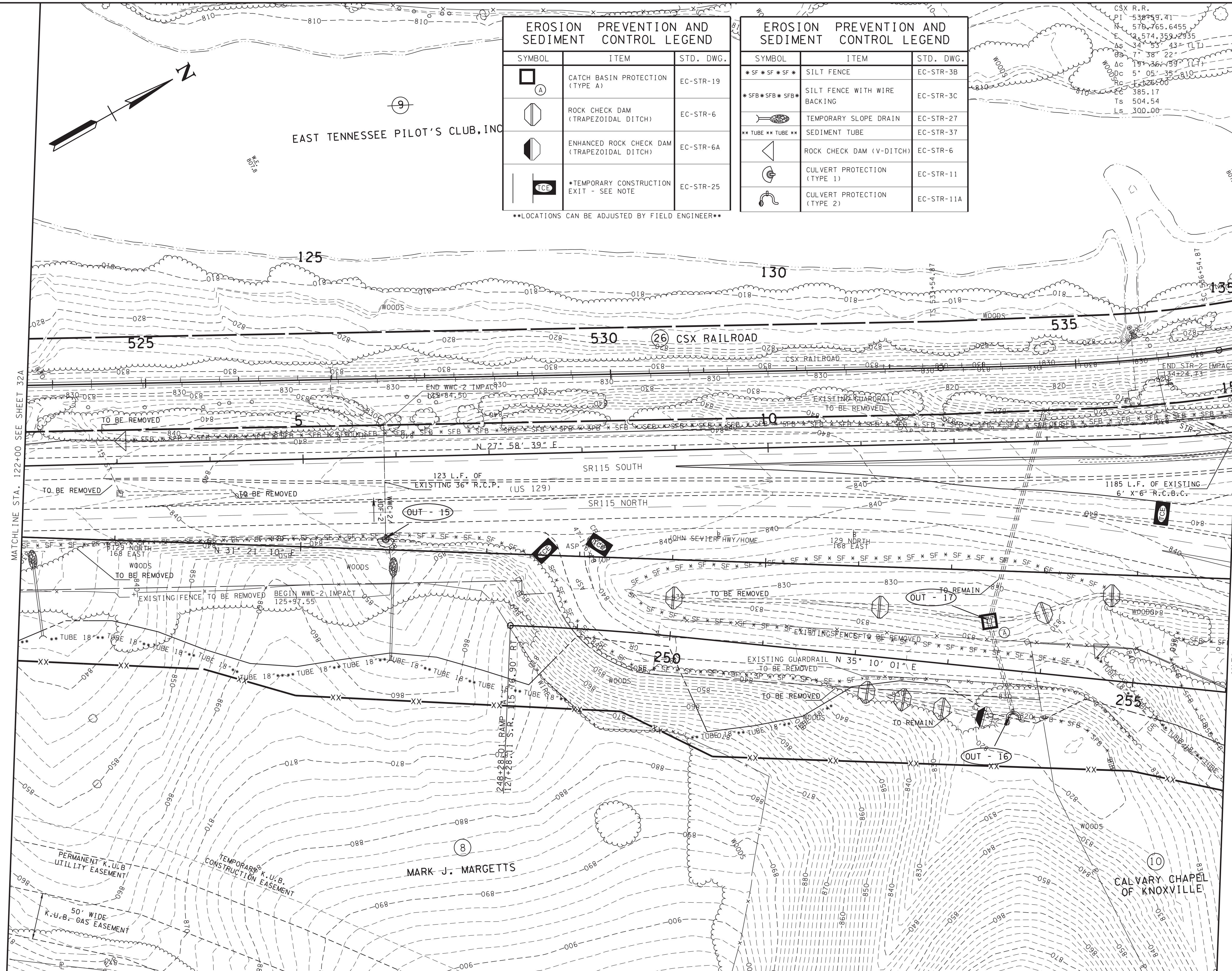
SCALE: 1:50'

STAGE I

1/15/2019 4:21:23 PM
L:\TDOT\9990\ROW - EPSC - PHASE 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32B

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
(A)	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A

SEALED BY

JASON P. SIVERLING, REGISTERED ENGINEER, STATE OF TENNESSEE, NO. 109034

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 122+00 TO STA. 135+00

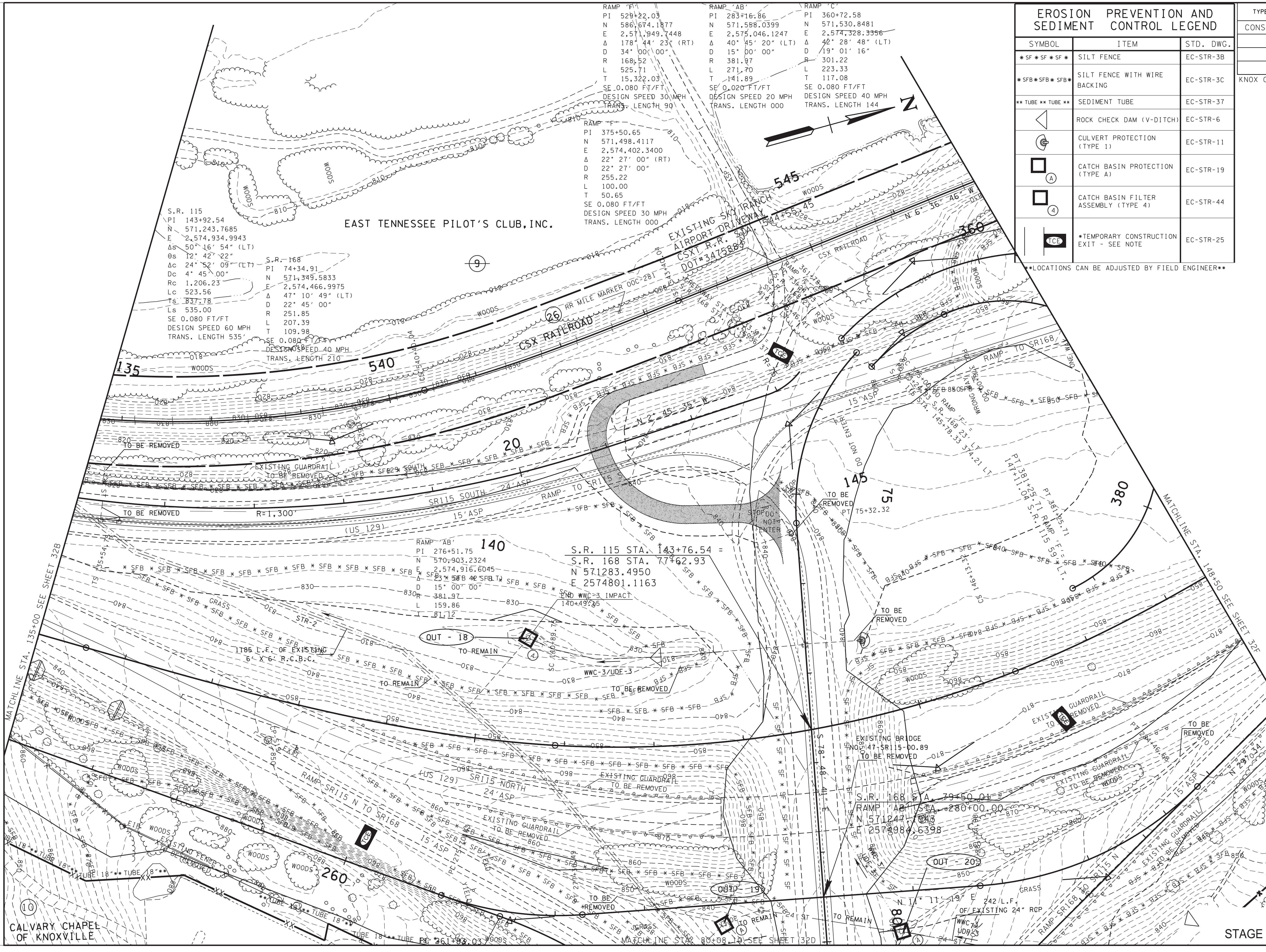
SCALE: 1:50'

STAGE I

1/15/2019 4:21:24 PM
...\TDOT\9990\ROW - EPSC - PHASE 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32C

KNOX CO. S.R. 115 (ALCOA HWY)



S.R. 115
PI 143+92.54
N 571,243.7685
E 2,574,934.9943
Δs 50° 16' 54" (LT)
θs 12° 42' 22"
Δc 24° 52' 09" (LT)
Dc 4° 45' 00"
Rc 1,206.23
Lc 523.56
Ts 837.78
Ls 535.00
SE 0.080 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 535'
S.R. 168
PI 74+34.91
N 571,349.5833
E 2,574,466.9975
Δ 47° 10' 49" (LT)
D 22° 45' 00"
R 251.85
L 207.39
T 109.98
SE 0.080 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 210'
RAMP 'F'
PI 529+22.03
N 586,674.1877
E 2,571,949.7448
Δ 178° 44' 23" (RT)
D 34° 00' 00"
R 168.52
L 525.71
T 15,322.03
SE 0.080 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 90
RAMP 'AB'
PI 283+16.86
N 571,558.0399
E 2,575,046.1247
Δ 40° 45' 20" (LT)
D 15° 00' 00"
R 381.97
L 271.70
T 141.89
SE 0.020 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 000
RAMP 'C'
PI 360+72.58
N 571,530.8481
E 2,574,328.3356
Δ 42° 28' 48" (LT)
D 19° 01' 16"
R 301.22
L 223.33
T 117.08
SE 0.080 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 144
RAMP 'F'
PI 375+50.65
N 571,498.4117
E 2,574,402.3400
Δ 22° 27' 00" (RT)
D 22° 27' 00"
R 255.22
L 100.00
T 50.65
SE 0.080 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 000
RAMP 'AB'
PI 276+51.75
N 570,903.2324
E 2,574,916.6045
D 15° 00' 00"
R 381.97
L 159.86
EAST TENNESSEE PILOT'S CLUB, INC.
EXISTING SKY RANCH AIRPORT DRIVEWAY
CSX RAILROAD
RR MILE MARKER 00C-281
S.R. 115 STA. 143+76.54 =
S.R. 168 STA. 77+62.93
N 571283.4950
E 2574801.1163
S.R. 168 STA. 79+50.01 =
RAMP 'AB' STA. 280+00.00
N 571247.1843
E 2574984.6398
EXISTING BRIDGE
NO. 47-SR115-00.89
TO BE REMOVED
1185 L.F. OF EXISTING 6' X 6' R.C.B.C.
242 L.F. OF EXISTING 24" RCP
OUT - 18
OUT - 19
OUT - 20
TO REMAIN
EXISTING GUARDRAIL TO BE REMOVED
SR115 SOUTH 24' ASP
SR115 NORTH 24' ASP
RAMP SR115 N TO SR168
RAMP TO SR168
RAMP TO SR115 S
(US 129)
R=1,300'
WWC-3/UDF-3
END WWC-3 IMPACT 140+49.55
CALVARY CHAPEL OF KNOXVILLE
MATCHLINE STA. 135+00 SEE SHEET 32B
MATCHLINE STA. 148+50 SEE SHEET 32F
MATCHLINE STA. 80+08.10 SEE SHEET 32D
WOODS
GRASS

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

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
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
(A)	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
(4)	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER NO. 109034 STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 135+00 TO STA. 148+50

SCALE: 1:50'

STAGE I

/15/2019 4:21:26 PM
...\TDOT\9990\ROW - EPSC - PHASE I.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32D

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
⬡	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
⬢	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
□ ①	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6
◆	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

RAMP 'B'
P/I 302+81.03
N 571,204.9344
E 2,575,246.4481
Δ 59° 27' 47" (RT)
D 12° 30' 00"
R 458.37
L 475.70
T 261.78
SE 0.080 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 240

S.R. 168
PI 87+05.48
N 571,100.6038
E 2,575,725.7487
Δs 37° 41' 53" (LT)
θs 5° 00' 00"
Δc 27° 41' 53" (LT)
Dc 4° 00' 00"
Rc 1,432.39
Lc 692.45
Ts 614.58
Ls 250.00
SE 0.047 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 250'

RAMP 'A'
PI 264+71.90
N 571,129.7496
E 2,575,076.1998
Δ 53° 30' 40" (RT)
D 10° 00' 00"
R 572.96
L 535.11
T 288.86
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

/15/2019 4:21:27 PM
L:\TDOT\9990\ROW - EPSC - PHASE I.SHT

SEALED BY

Jason P. Siverling

JASON P. SIVERLING
NO. 109034

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000966 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

S.R. 168
STA. 80+08.10 TO STA. 92+00
SCALE: 1"=50'

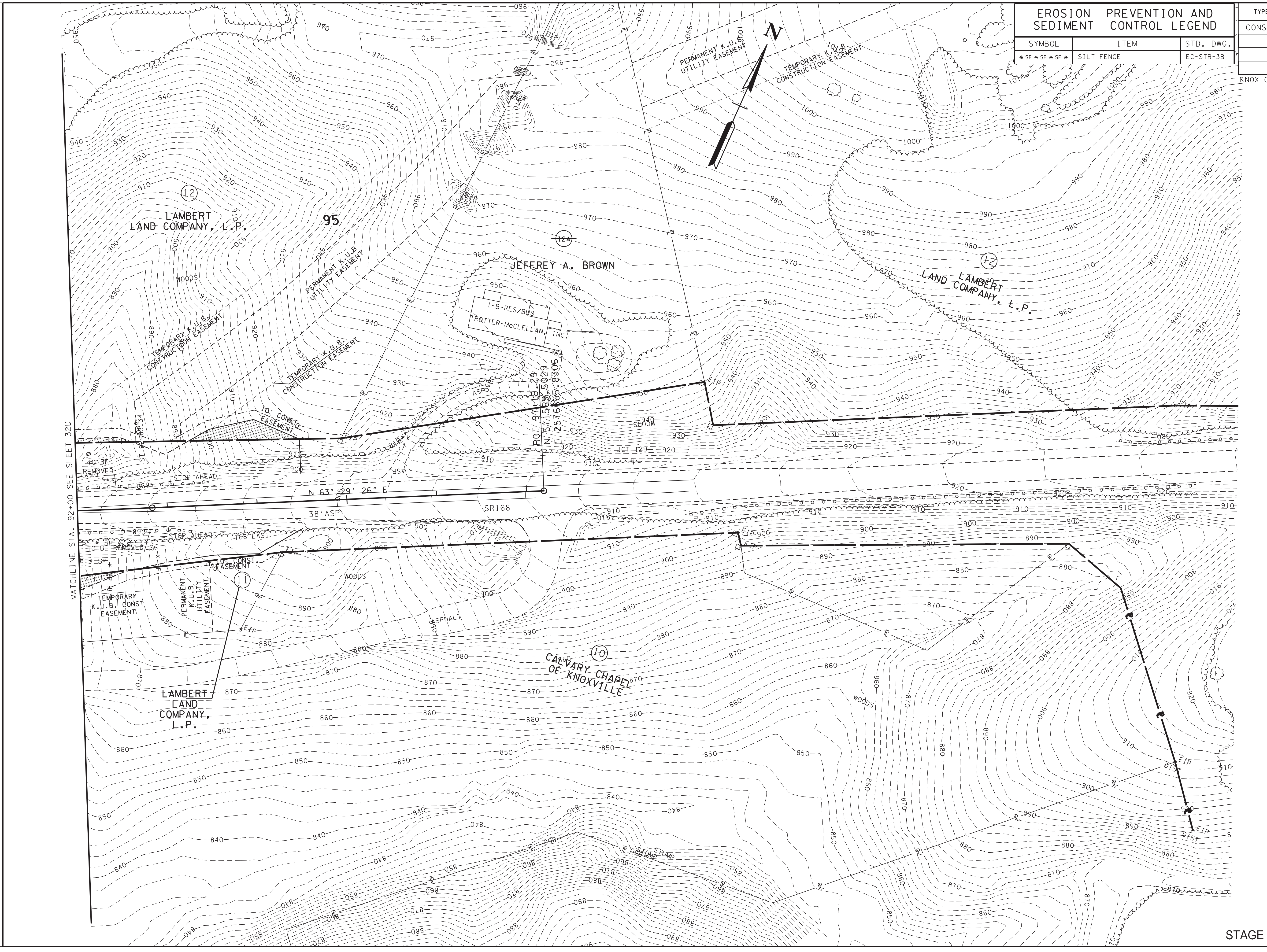
STAGE I

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32E

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
*SF*SF*SF*	SILT FENCE	EC-STR-3B



SEALED BY

JASON P. SIVERLING
01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

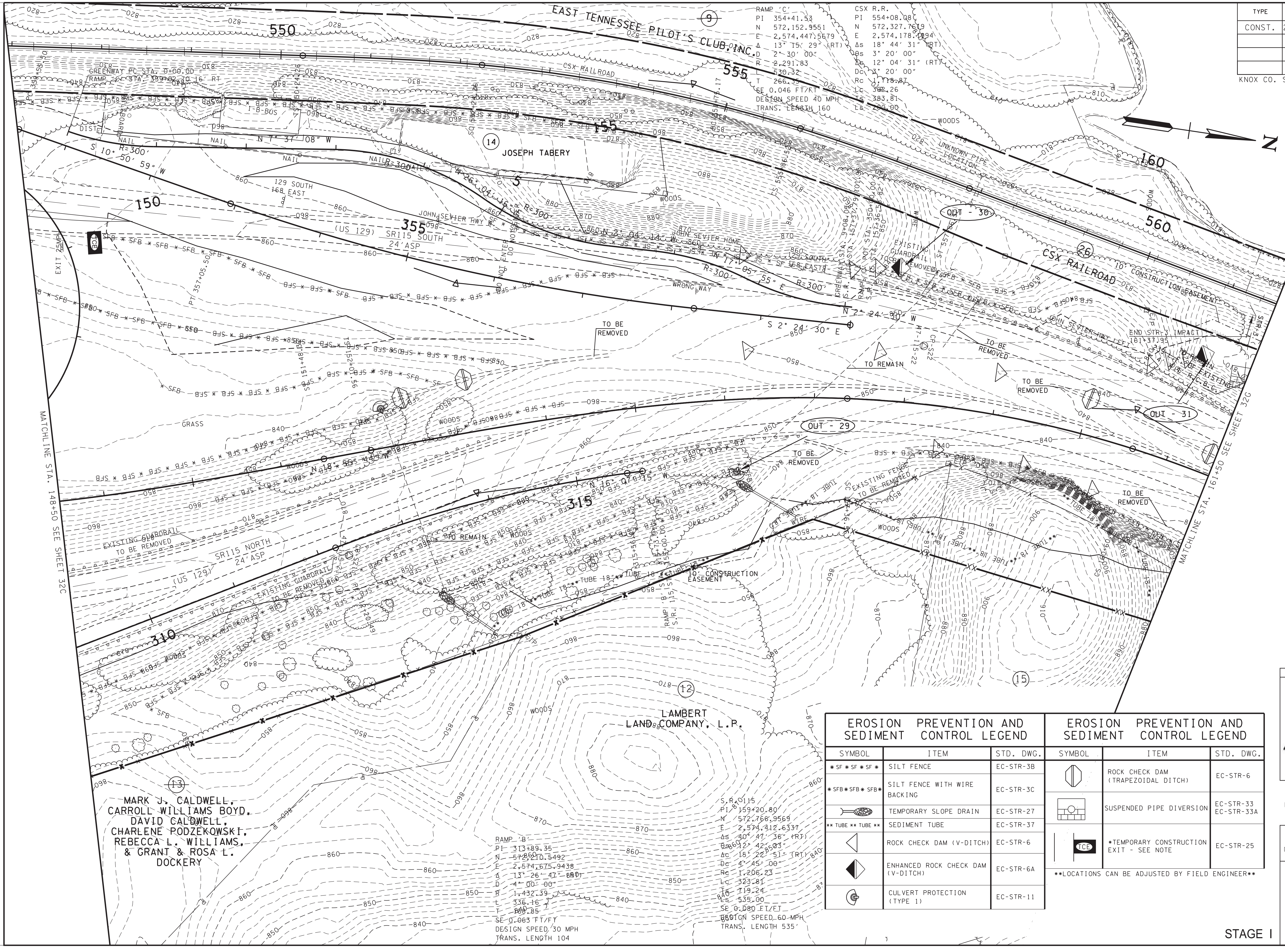
S.R. 168
STA.92+00 TO STA.97+19.29
SCALE: 1:50'

STAGE I

/15/2019 4:21:29 PM
...\TDOT\9990\ROW - EPSC - PHASE 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32F

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

STAGE I

SEALED BY

JASON P. SIVERLING, REGISTERED ENGINEER, STATE OF TENNESSEE, NO. 109034

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 148+50 TO STA. 161+50

SCALE: 1:50'

1/15/2019 4:21:30 PM
...TDOT\9990\ROW - EPSC - PHASE 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32G

KNOX CO. S.R. 115 (ALCOA HWY)

S.R. 115
PI 178+25.66
N 574,576.2598
E 2,575,138.6639
Δs 39° 37' 35" (LT)
Ds 12° 42' 23"
Δc 14° 12' 50" (LT)
Dc 4° 45' 00"
Rc 1,206.23
Lc 299.24
Ts 705.20
Ls 535.00
SE 0.080 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 535

NOTE:
PLACE TURBIDITY CURTAINS PRIOR TO INSTALLING COFFER DAMS OR OTHER DEWATERING DEVICES. THE CURTAINS SHALL EXTEND TO THE BOTTOM OF THE LAKE.
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT AND DEBRIS WILL NOT ENTER ANY PORTION OF FORT LOUDON LAKE (STR-4) DURING THE CONSTRUCTION OF WALLS 7 AND 7A.

S.R. 115
PI 159+20.80
N 572,466.9569
E 2,574,412.6037
Δs 40° 07' 36" (RT)
Ds 12° 42' 23"
Δc 15° 22' 51" (RT)
Dc 4° 45' 00"
Rc 1,206.23
Lc 323.81
Ts 719.24
Ls 535.00
SE 0.080 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 535

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
(A)	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	FLOATING TURBIDITY CURTAIN	EC-STR-38
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
SF SF SF	SILT FENCE	EC-STR-3B
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
TUBE TUBE	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

SEALED BY
JASON P. SIVERLING
REGISTERED ENGINEER
COMMERCE NO. 109034
STATE OF TENNESSEE
01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 161+50 TO STA. 174+50

SCALE: 1:50'

STAGE I

MATCHLINE STA. 161+50 SEE SHEET 32F

MATCHLINE STA. 174+50 SEE SHEET 32H

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32H

KNOX CO. S.R. 115 (ALCOA HWY)

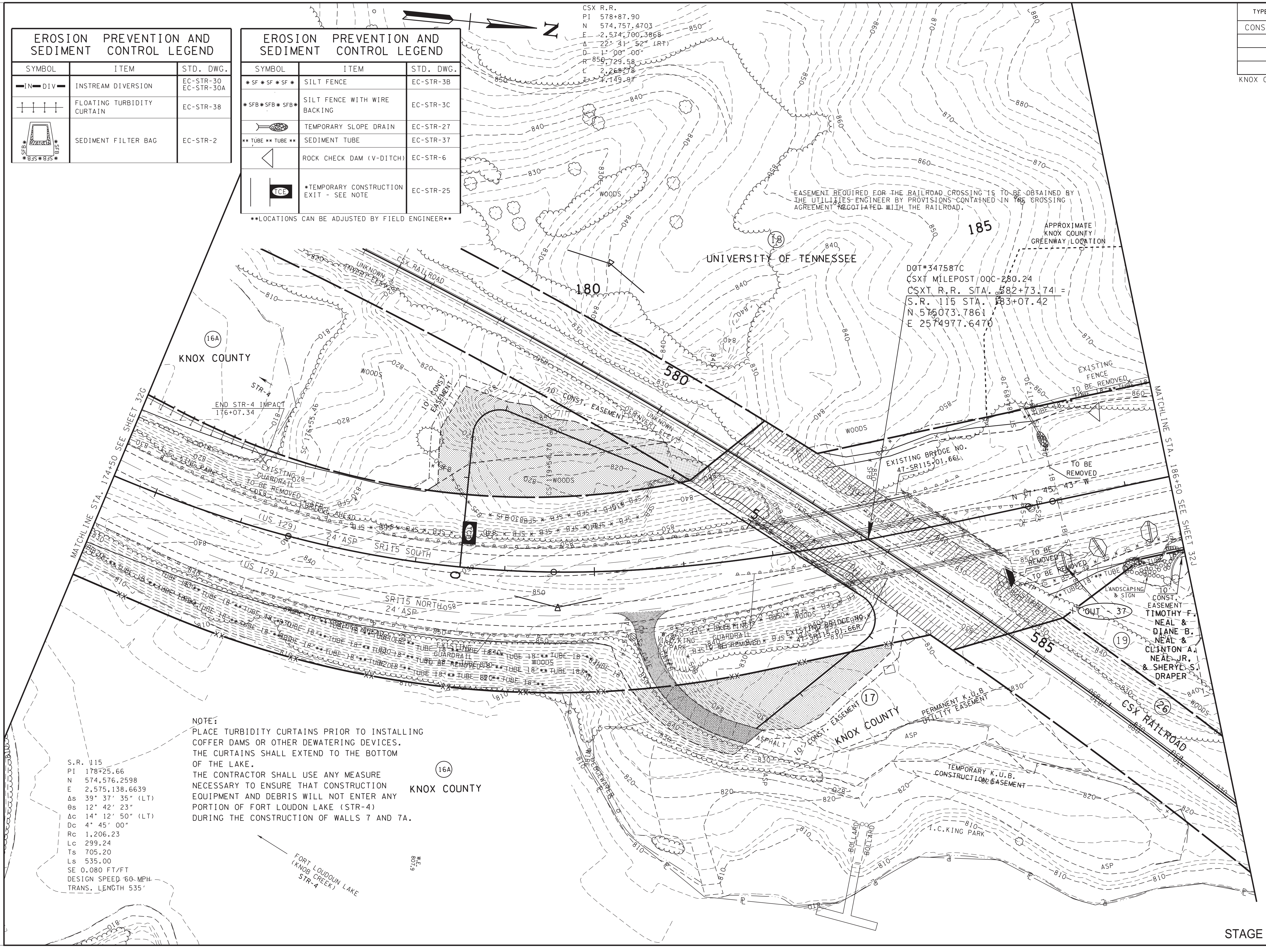
EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
—IN— DIV—	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
┼┼┼┼	FLOATING TURBIDITY CURTAIN	EC-STR-38
SFB	SEDIMENT FILTER BAG	EC-STR-2

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER



NOTE:
PLACE TURBIDITY CURTAINS PRIOR TO INSTALLING COFFER DAMS OR OTHER DEWATERING DEVICES. THE CURTAINS SHALL EXTEND TO THE BOTTOM OF THE LAKE.
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT AND DEBRIS WILL NOT ENTER ANY PORTION OF FORT LOUDON LAKE (STR-4) DURING THE CONSTRUCTION OF WALLS 7 AND 7A.

S.R. 115
PI 178+25.66
N 574,576.2598
E 2,575,138.6639
Δs 39° 37' 35" (LT)
θs 12° 42' 23"
Δc 14° 12' 50" (LT)
Dc 4° 45' 00"
Rc 1,206.23
Lc 299.24
Ts 705.20
Ls 535.00
SE 0.080 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 535'

SEALED BY
JASON P. SIVERLING
01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.174+50 TO STA.186+50
SCALE: 1:50'

STAGE I

1/8/2019 9:42:37 AM
..\TDOT\9990\ROW - EPSC - PHASE 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32J

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
⊳	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6
⬡	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
□ Ⓐ	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19

S.R. 115
PI 191+73.56
N 575,899.1075
E 2,574,714.9095
Δs 18° 28′ 35″ (RT)
θs 3° 48′ 00″
Δc 10° 52′ 35″ (RT)
Dc 2° 00′ 00″
Rc 2,864.79
Lc 543.81
Ts 656.27
Ls 380.00
SE 0.051 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′

STAGE I

/15/2019 4:21:36 PM
L:\TDOT\99901\ROW - EPSC - PHASE I.SHT

SEALED BY

JASON P. SIVERLING
NO. 109034

Jason P. Siverling

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 186+50 TO STA. 198+50

SCALE: 1:50′

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32K

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A

N

UNIVERSITY OF TENNESSEE (18)

200

205

210

S.R. 115 STA. 202+09.43 = POWER DR. STA. 5+00.00
N 576943.6162
E 2574727.9298

APPROXIMATE KNOX COUNTY GREENWAY LOCATION

OUT - 38

TO BE REMOVED

TO REMAIN

N 0° 42' 51" E

S 88° 51' 03" E

PC 6+15.25

BRAMCO PROPERTIES LP (24)

DOZER LANE

POWER DRIVE

PI 8+46.28
N 576,936.6717
E 2,575,074.1450
Δ 50° 42' 13" (LT)
D 11° 45' 00"
R 487.62
L 431.52
T 231.04
SE MATCH EXIST
DESIGN SPEED 30 MPH
TRANS. LENGTH N/A

SEVIER HEIGHTS BAPTIST CHURCH
PROPOSED R.O.W. BY OTHERS

NEW BRAMCO PROPERTIES, INC (23)

1-F-BUS.

2-F-BUS

2-S-F

GRAVEL

ASP

SR115 SOUTH
24' ASP

SR115 NORTH
24' ASP

(US 129)

50 MPH

POT 11+23.30
N 577170.1380
E 2575273.1620

PI 10+46.71
N 40° 26' 44" E

MATCHLINE STA. 198+50 SEE SHEET 32J

MATCHLINE STA. 210+50 SEE SHEET 32L

SEALED BY

Jason P. Siverling
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109091
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 198+50 TO STA. 210+50

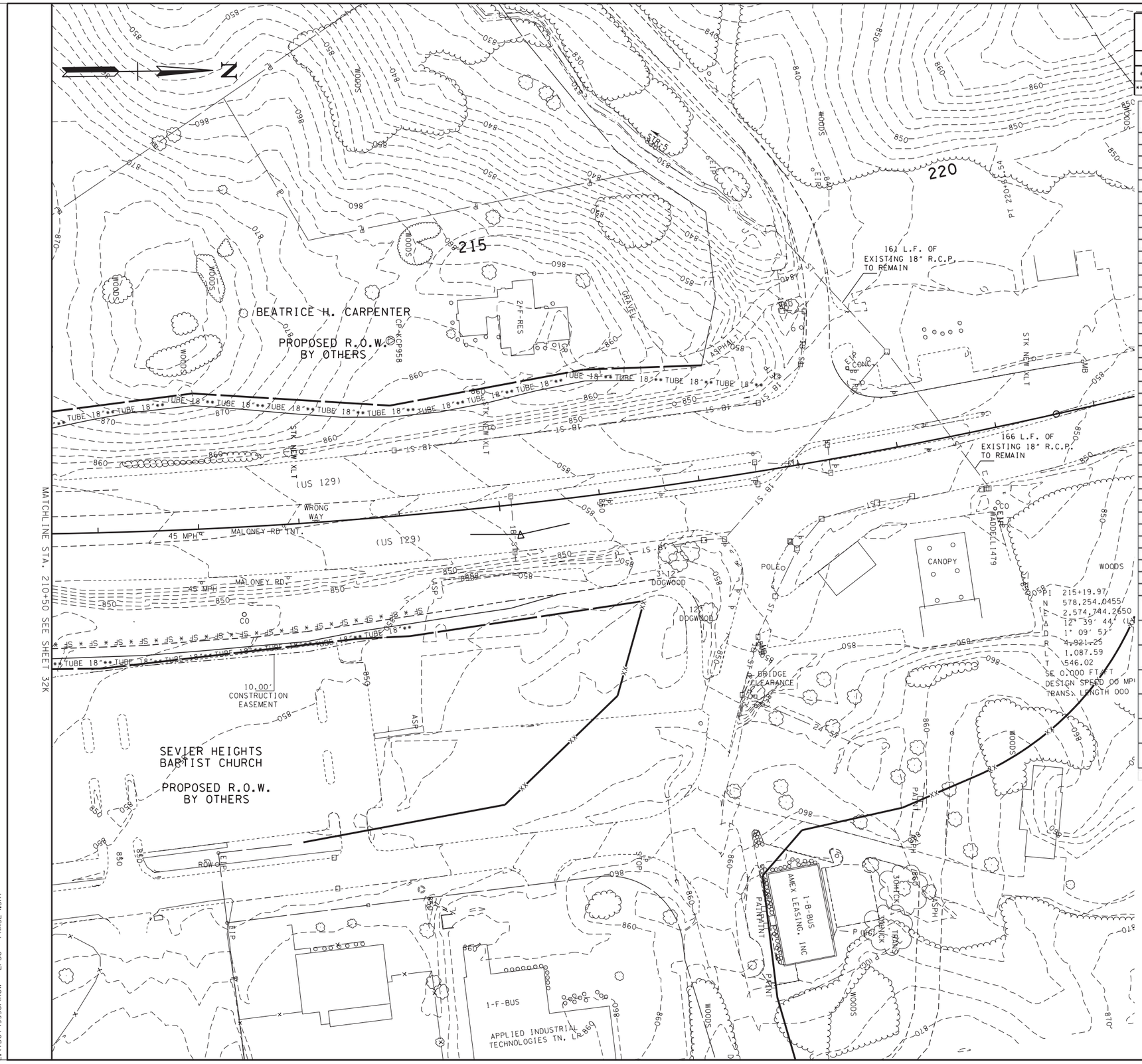
SCALE: 1:50'

STAGE I

1/15/2019 4:21:37 PM
L:\TDOT\9990\ROW - EPSC - PHASE I.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	32L

KNOX CO. S.R. 115 (ALCOA HWY)



PI 215+19.97
N 578,254.0455
E 2,574,744.2650
Δ 12° 39′ 44″ (LT)
D 1° 09′ 51″
R 4,921.25
L 1,087.59
T 546.02
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

EPSC PHASE	OUTFALL LABEL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	PHASE 1 DRAINAGE AREA (AC)	
1,2,3	OUT-1	100+10.00 RT	2.1%	.380 AC	
1,2,3	OUT-2	100+37.12 LT	3.2%	.190 AC	
1,2,3	OUT-3	100+36.78 LT	2.6%	.140 AC	
1,2,3	OUT-4	101+86.96 RT	11.8%	2.560 AC	
1,2,3	OUT-5	101+95.95 RT	4.1%	.520 AC	
1,2,3	OUT-6	102+43.41 LT	3.3%	.110 AC	
1	OUT-7	105+62.09 RT	12.4%	1.140 AC	
1	OUT-8	105+82.30 RT	3.2%	1.020 AC	
1	OUT-9	110+15.91 LT	6.5%	.130 AC	
1	OUT-10	111+75.14 RT	2.6%	1.400 AC	
1	OUT-11	111+74.77 RT	13.2%	2.060 AC	
1	OUT-12	117+28.23 LT	3.1%	.690 AC	
1	OUT-13	119+19.97 RT	8.7%	17.130 AC	①
1	OUT-14	121+88.72 RT	12.7%	12.270 AC	②
1	OUT-15	125+90.98 LT	11.9%	4.720 AC	
1,2,3	OUT-16	132+71.48 RT	6.5%	27.180 AC	③
1	OUT-17	132+42.34 RT	8.9%	4.480 AC	
1,2,3	OUT-18	140+49.14 LT	16.6%	5.790 AC	④
1,2,3	OUT-19	142+60.69 RT	22.5%	1.620 AC	
1,2,3	OUT-20	144+25.59 RT	15.9%	2.130 AC	
1,2,3	OUT-21	145+99.52 RT	12.0%	8.160 AC	⑤
1,2,3	OUT-22	143+95.83 RT	14.8%	4.620 AC	
1,2,3	OUT-23	143+40.98 RT	3.6%	.030 AC	
1,2,3	OUT-24	143+38.74 RT	3.9%	.210 AC	
1,2,3	OUT-25	142+10.48 RT	14.6%	2.670 AC	
1,2,3	OUT-26	142+19.83 RT	11.2%	.810 AC	
1,2,3	OUT-27	143+41.89 RT	17.3%	.450 AC	
1,2,3	OUT-28	144+11.09 RT	20.5%	.590 AC	
1,2,3	OUT-29	156+09.22 RT	6.6%	10.880 AC	⑥
1,2,3	OUT-30	157+84.37 LT	13.3%	.650 AC	
1	OUT-31	160+00.31 LT	27.6%	.100 AC	
1	OUT-32	161+83.10 LT	23.8%	.380 AC	
1,2,3	OUT-33	162+36.77 RT	13.1%	2.510 AC	
1,2,3	OUT-34	163+11.36 RT	4.0%	2.220 AC	
1,2,3	OUT-35	166+25.50 LT	24.9%	3.650 AC	
1	OUT-36	171+12.42 RT	39.7%	.320 AC	
1	OUT-37	185+15.93 RT	10.1%	3.030 AC	
1	OUT-38	198+74.13 LT	3.6%	21.240 AC	⑦
1,2,3	OUT-84	6+90.50 RT	3.0%	.361 AC	

①	INCLUDES 14.728 ACRES OF OFFSITE RUNOFF
②	INCLUDES 10.690 ACRES OF OFFSITE RUNOFF
③	INCLUDES 25.782 ACRES OF OFFSITE RUNOFF
④	INCLUDES 1.679 ACRES OF UNDISTURBED AREA
⑤	INCLUDES 7.088 ACRES OF OFFSITE RUNOFF
⑥	INCLUDES 3.355 ACRES OF OFFSITE RUNOFF AND 0.498 ACRES OF UNDISTURBED AREA
⑦	INCLUDES 12.810 ACRES OF OFFSITE RUNOFF AND 3.614 ACRES OF UNDISTURBED AREA

SEALED BY

JASON P. SIVERLING
NO. 109034
01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.210+50 TO STA.217+20

SCALE: 1:50′

STAGE I

/15/2019 4:21:38 PM
L:\TDOT\99901\ROW - EPSC - PHASE 1.SHT

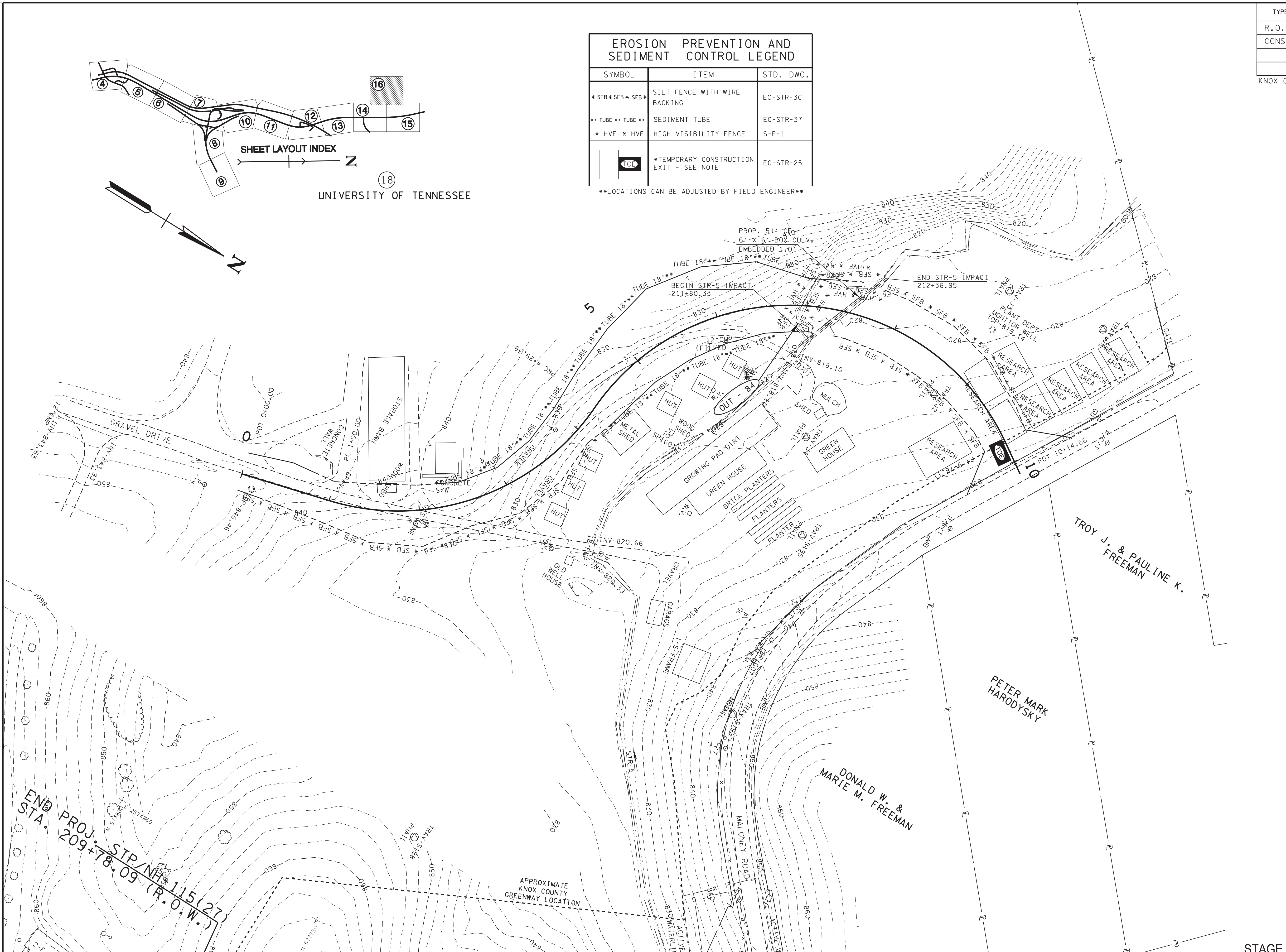
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	16
CONST.	2019	STP/NH-115(27)	32M

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER



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JASON P. SIVERLING REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 109034 STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 0+00 TO STA. 10+14.86

SCALE: 1:50'

STAGE I

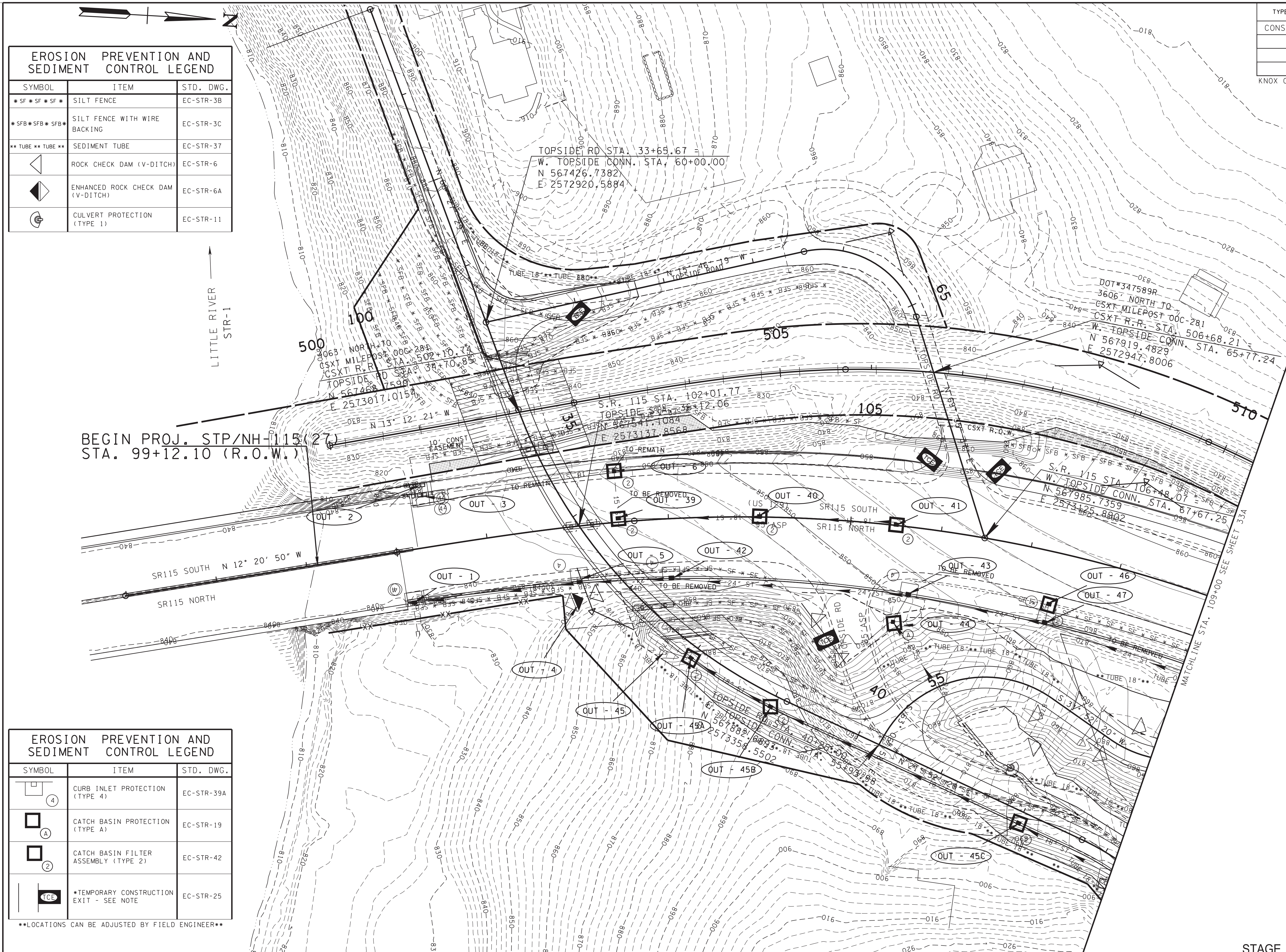
1/15/2019 4:23:55 PM
L:\TDOT\9990\CONST - EPSC AD-SHEET.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

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
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
(A)	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
(2)	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

1/15/2019 4:21:43 PM
...\TDOT\9990\ROW - EPSC - PHASE 2.SHT

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JASON P. SIVERLING
REGISTERED ENGINEER
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 96+98.94 TO STA. 109+00

SCALE: 1:50'

STAGE 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33A

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
✱ SF ✱ SF ✱ SF ✱	SILT FENCE	EC-STR-3B
✱ SFB ✱ SFB ✱ SFB ✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
✱✱ TUBE ✱✱ TUBE ✱✱	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
(2)	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
(A)	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
TCE	✱TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

S.R. 115 STA. 110+25.00 =
E. TOPSIDE CONN. STA. 50+00.00
N-568354.2341
E-2573214.1811

MATCHLINE STA. 109+00 SEE SHEET 33

MATCHLINE STA. 122+00 SEE SHEET 33B

OUT - 50 · OUT - 53 · OUT - 48 · OUT - 49 · OUT - 51 · OUT - 52 · OUT - 54 · OUT - 55 · OUT - 56 · OUT - 57 · OUT - 58 · OUT - 59 · OUT - 60 · OUT - 61 · OUT - 62 · OUT - 63 · OUT - 64 · OUT - 45D · OUT - 45E

SR115 SOUTH (US 129)
SR115 NORTH

18" CONSTRUCTION EASEMENT
SLOPE EASEMENT

END WWC-1 IMPACT 118+46.93
WWC-1/UDF-1 N31°21'10"E
132 L.F. 36" R.C.P.
EXISTING 36" R.C.P. TO REMAIN
R=1,000'
BEGIN WWC-1 IMPACT 119+21.24

TO BE REMOVED

N 58° 38' 32" E
TOPSIDE ROAD

STAGE 2

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
AGENCY
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 109+00 TO STA. 122+00

SCALE: 1:50'

1/15/2019 4:21:44 PM
C:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33B

KNOX CO. S.R. 115 (ALCOA HWY)

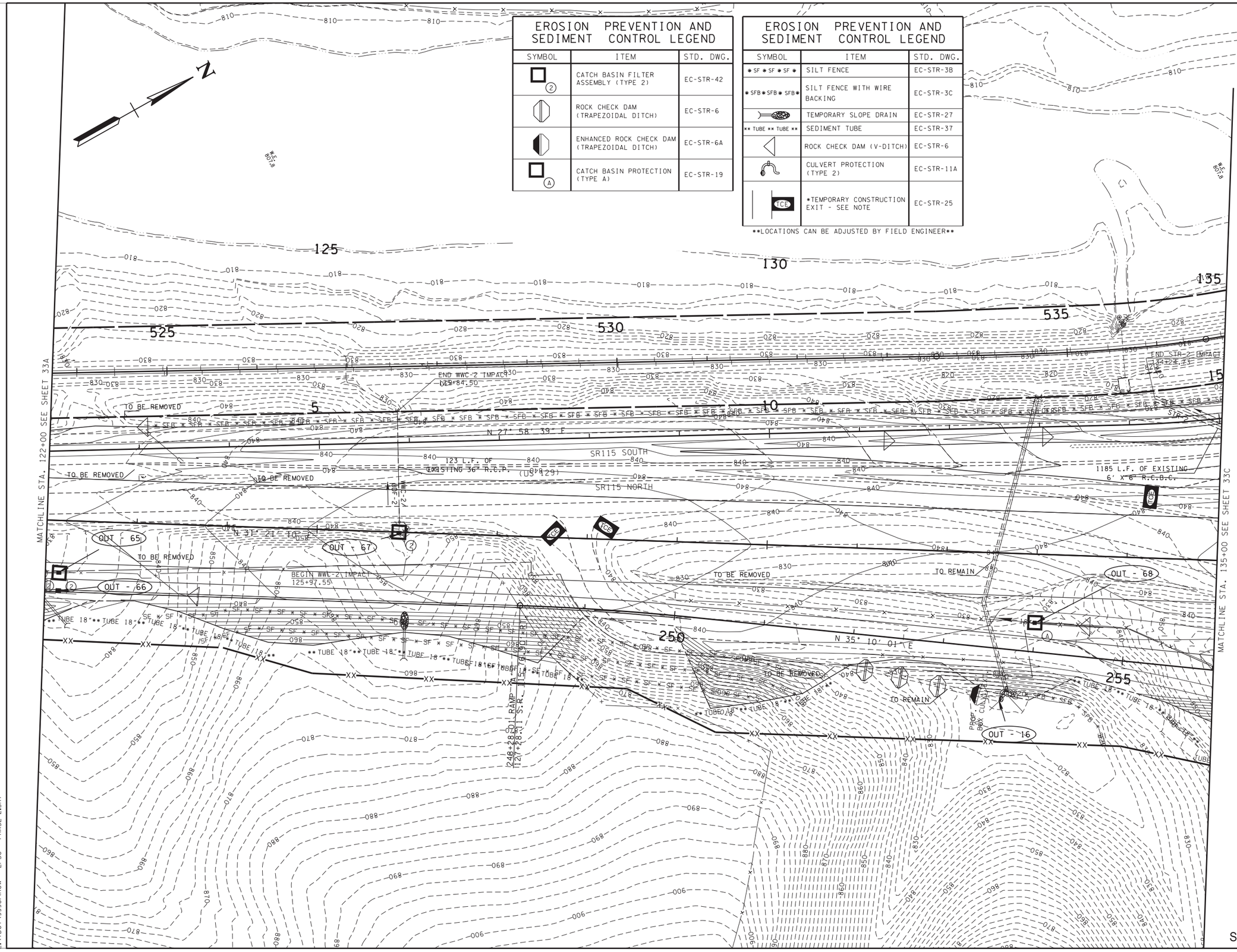
EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
(2)	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
(A)	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER



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JASON P. SIVERLING
REGISTERED ENGINEER
AGENCY NO. 109034
COMMERCE
STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 122+00 TO STA. 135+00

SCALE: 1:50'

STAGE 2

1/5/2019 4:21:45 PM
L:\TDOT\99901\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33C

KNOX CO. S.R. 115 (ALCOA HWY)

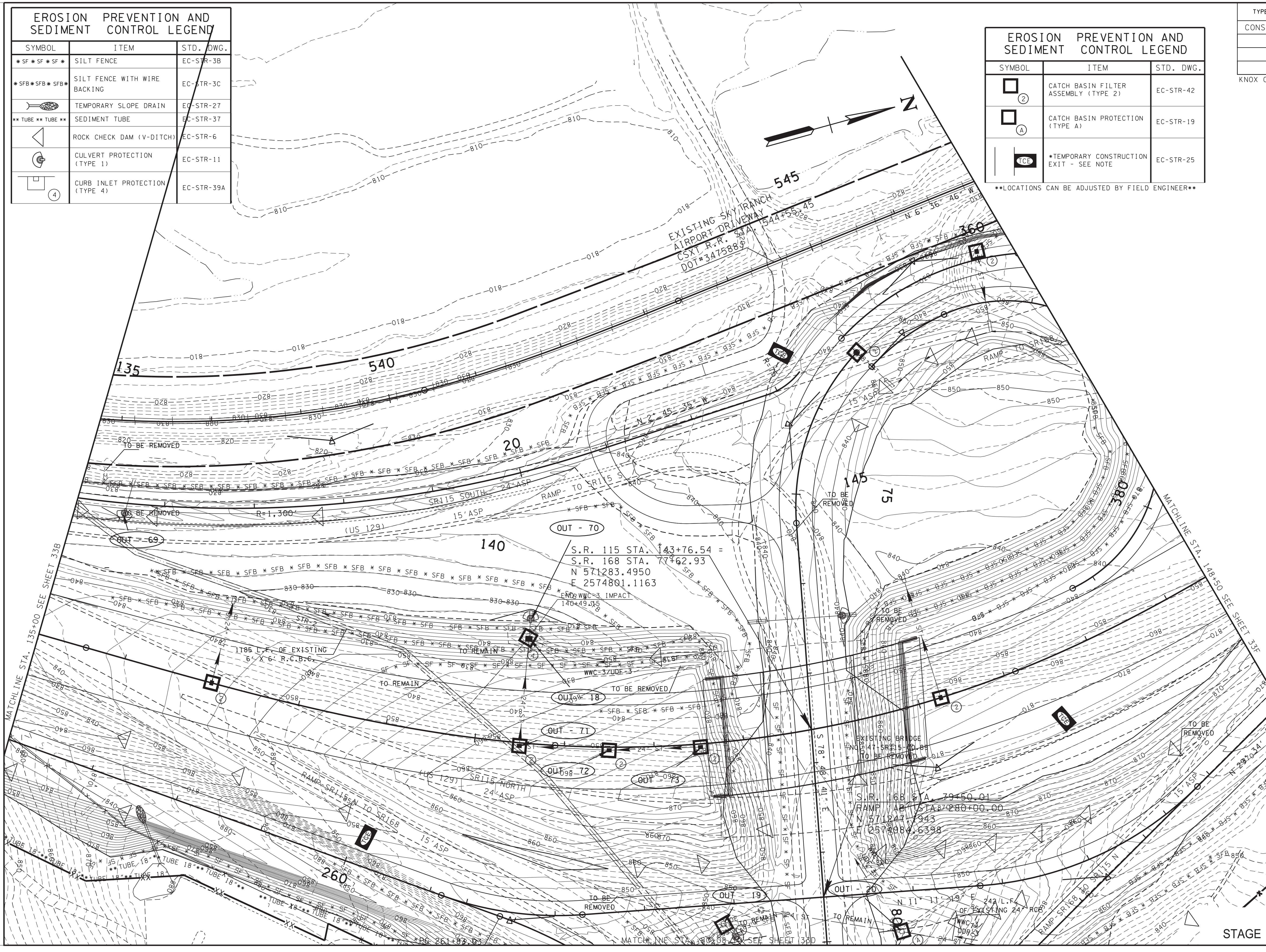
EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
(2)	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
(A)	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER



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JASON P. SIVERLING REGISTERED ENGINEER NO. 109036 STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.135+00 TO STA.148+50

SCALE: 1:50'

STAGE 2

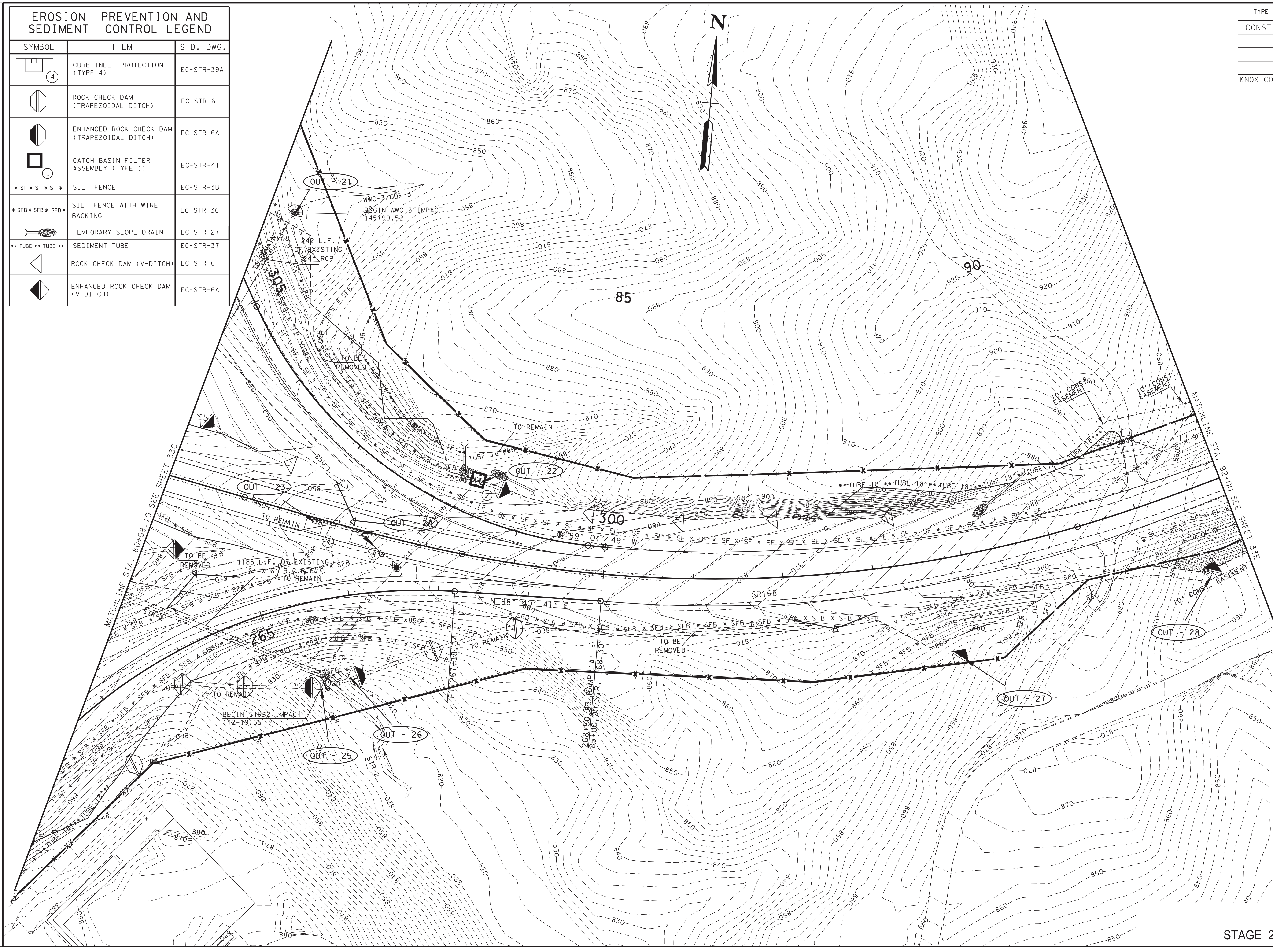
1/15/2019 4:21:47 PM
L:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33D

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A



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JASON P. SIVERLING REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 109034 STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

S.R. 168

STA. 80+08.10 TO STA. 92+00

SCALE: 1:50'

STAGE 2

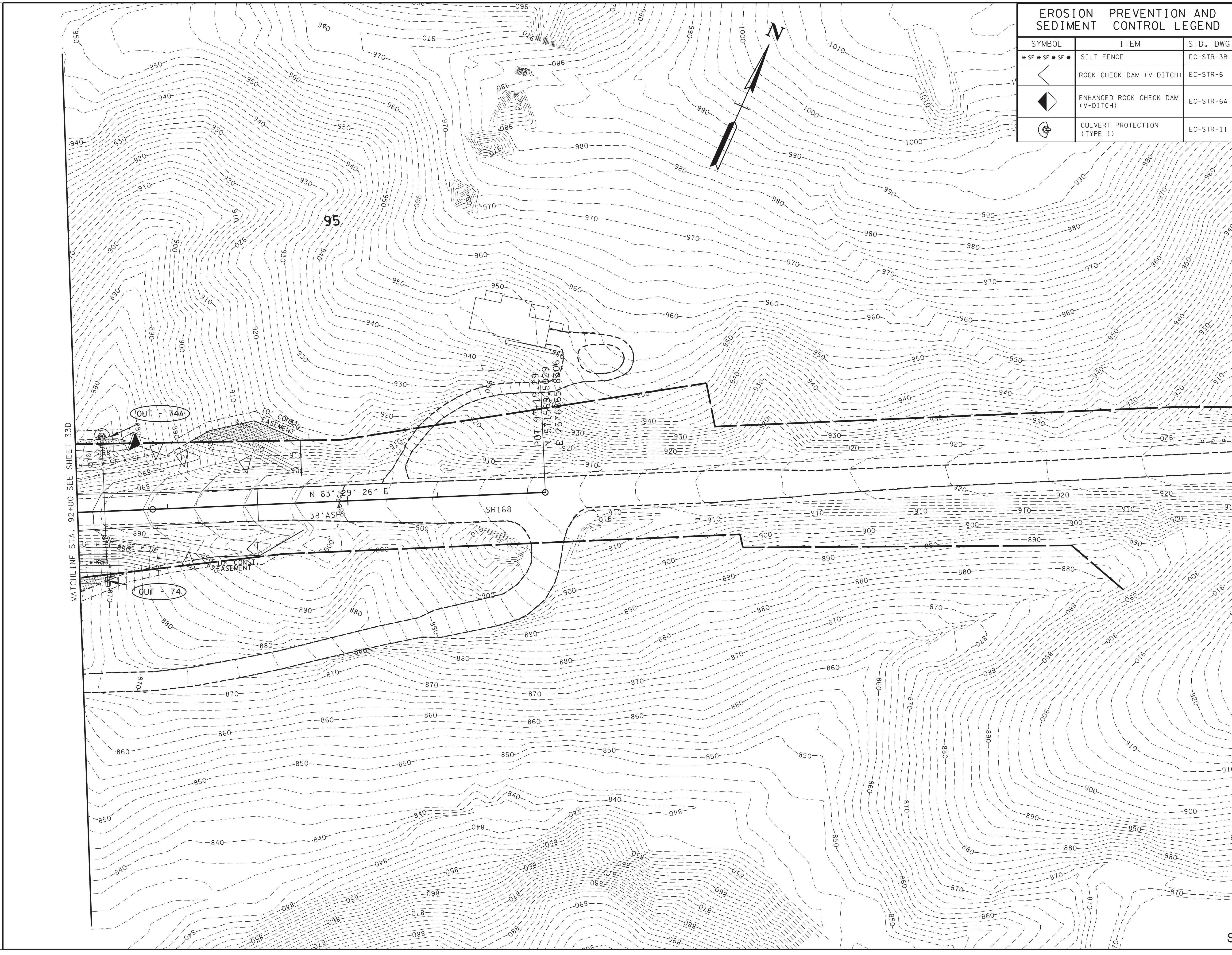
1/15/2019 4:21:48 PM
L:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33E

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6
◆	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
⊙	CULVERT PROTECTION (TYPE 1)	EC-STR-11



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JASON P. SIVERLING
REGISTERED ENGINEER
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

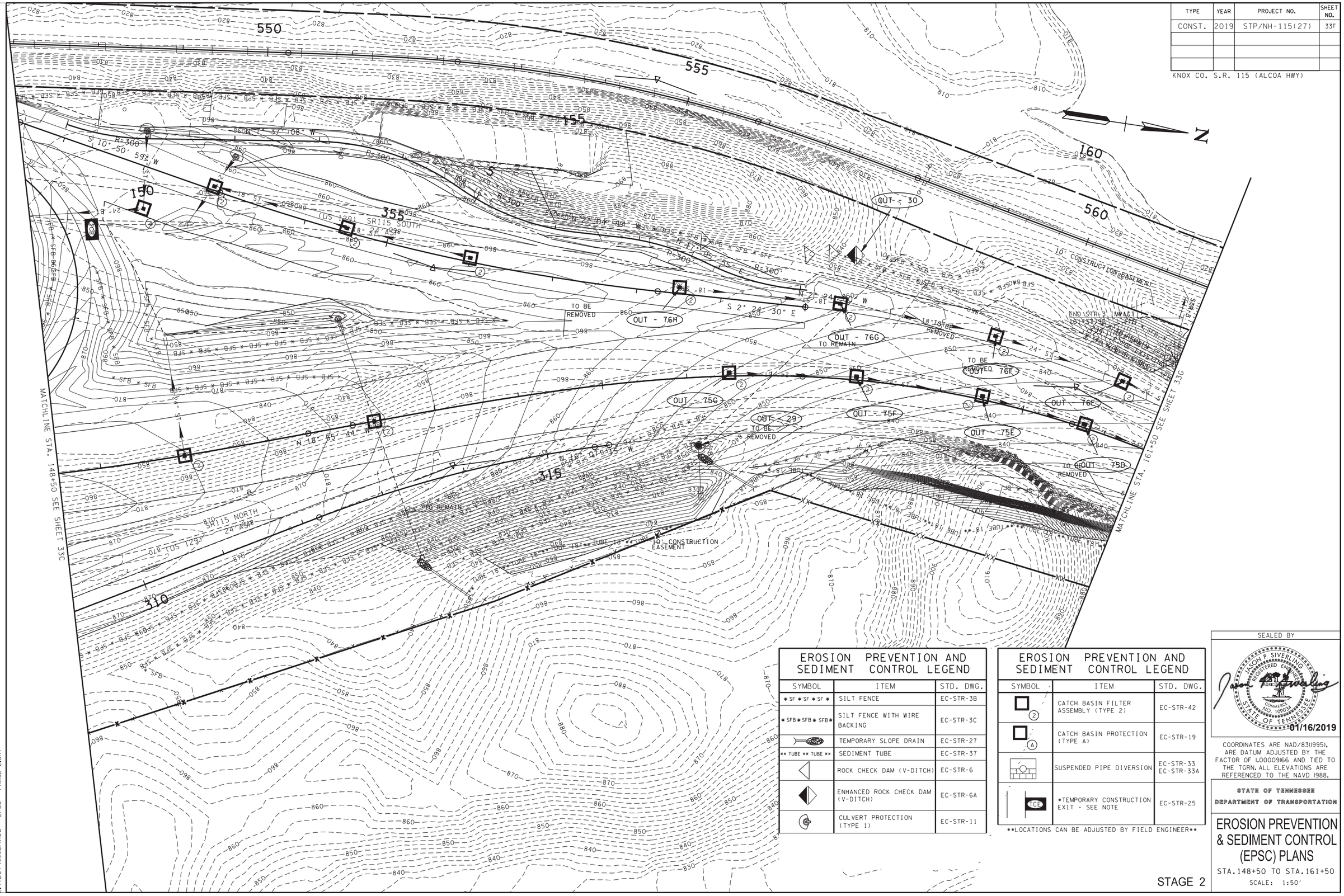
S.R. 168
STA.92+00 TO STA.97+19.29
SCALE: 1:50'

STAGE 2

/15/2019 4:21:49 PM
:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33F

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF	SILT FENCE	EC-STR-3B
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
TUBE TUBE	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

STAGE 2

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

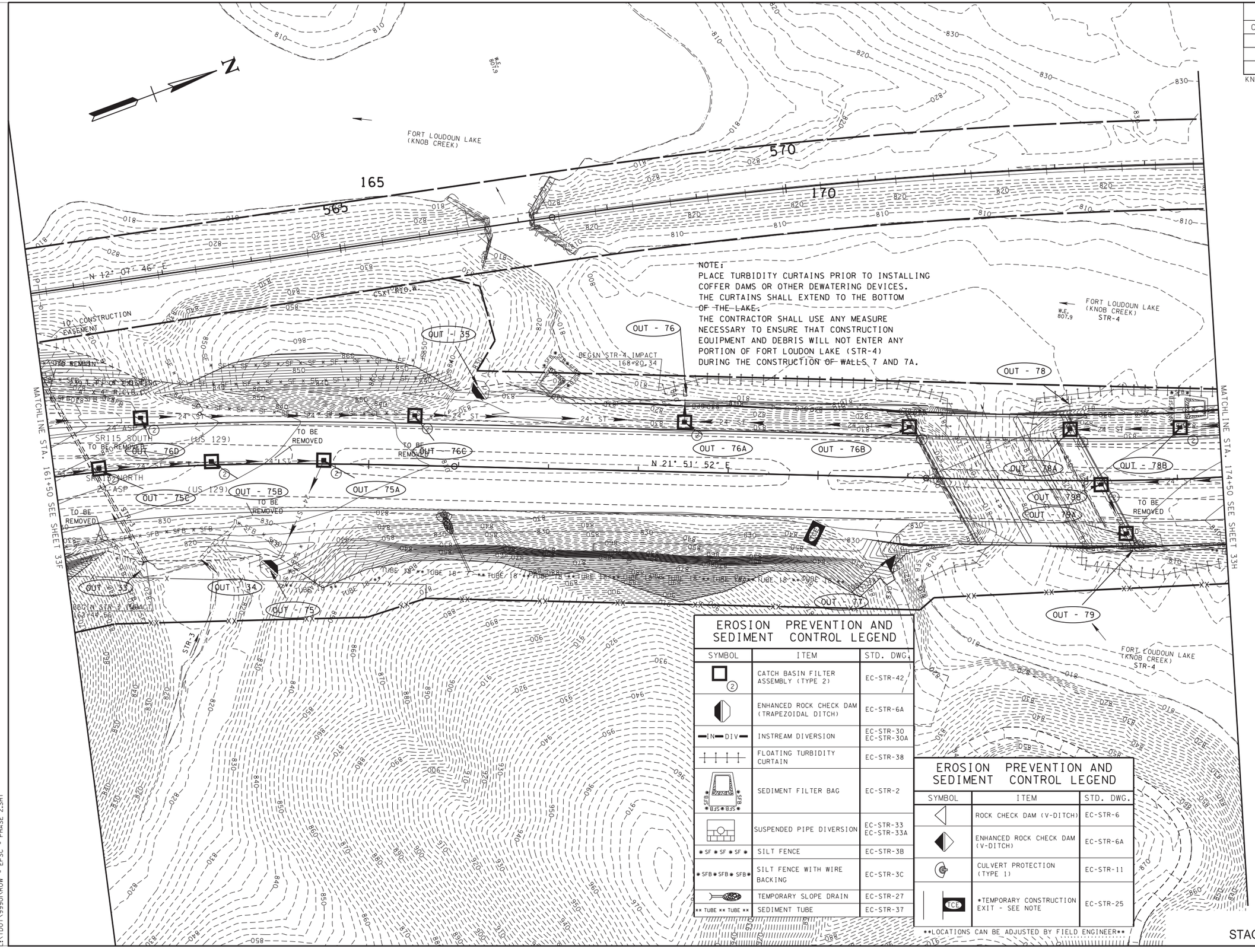
STA.148+50 TO STA.161+50

SCALE: 1:50'

1/15/2019 4:21:51 PM
E:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33G

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
②	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	FLOATING TURBIDITY CURTAIN	EC-STR-38
SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
SF SF SF SF	SILT FENCE	EC-STR-3B
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
TUBE TUBE	SEDIMENT TUBE	EC-STR-37

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

STAGE 2

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER COMMISSION NO. 109008 STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.161+50 TO STA.174+50

SCALE: 1:50'

1/18/2019 9:42:40 AM
L:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33H

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
②	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN	EC-STR-27
TUBE TUBE TUBE	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6

N

MATCHLINE STA. 174+50 SEE SHEET 33G

MATCHLINE STA. 186+50 SEE SHEET 33J

575 175 180 580 585 185

STR-4

END STR-4 IMPACT 176+07.34

10' CONST. EASEMENT

NO CONST. EASEMENT

EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

APPROXIMATE KNOX COUNTY GREENWAY LOCATION

D0T#347587C
CSXT MILEPOST/00C-280.24
CSXT R.R. STA. 582+73.74 =
S.R. 115 STA. 183+07.42
N 575073.7861
E 2574977.6470

EXISTING BRIDGE NO. 098 SR115-01.66L

EXISTING BRIDGE NO. SR115-01.66R

TO BE REMOVED

N 11° 45' 43" W

OUT - 78C
OUT - 79C
OUT - 78D
OUT - 79D
OUT - 78E
OUT - 79E
OUT - 78F
OUT - 79F
OUT - 78G
OUT - 79G
OUT - 79H
OUT - 79I
OUT - 80
OUT - 81

SR115 (OUT) SOUTH 24' ASP

SR115 (OUT) NORTH 24' ASP

NOTE:
PLACE TURBIDITY CURTAINS PRIOR TO INSTALLING COFFER DAMS OR OTHER DEWATERING DEVICES. THE CURTAINS SHALL EXTEND TO THE BOTTOM OF THE LAKE.
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT AND DEBRIS WILL NOT ENTER ANY PORTION OF FORT LOUDON LAKE (STR-4) DURING THE CONSTRUCTION OF WALLS 7 AND 7A.

FORT LOUDOUN LAKE (KNOB CREEK) STR-4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	FLOATING TURBIDITY CURTAIN	EC-STR-38
SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
COMMERCE NO. 109034
STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.174+50 TO STA.186+50

SCALE: 1:50'

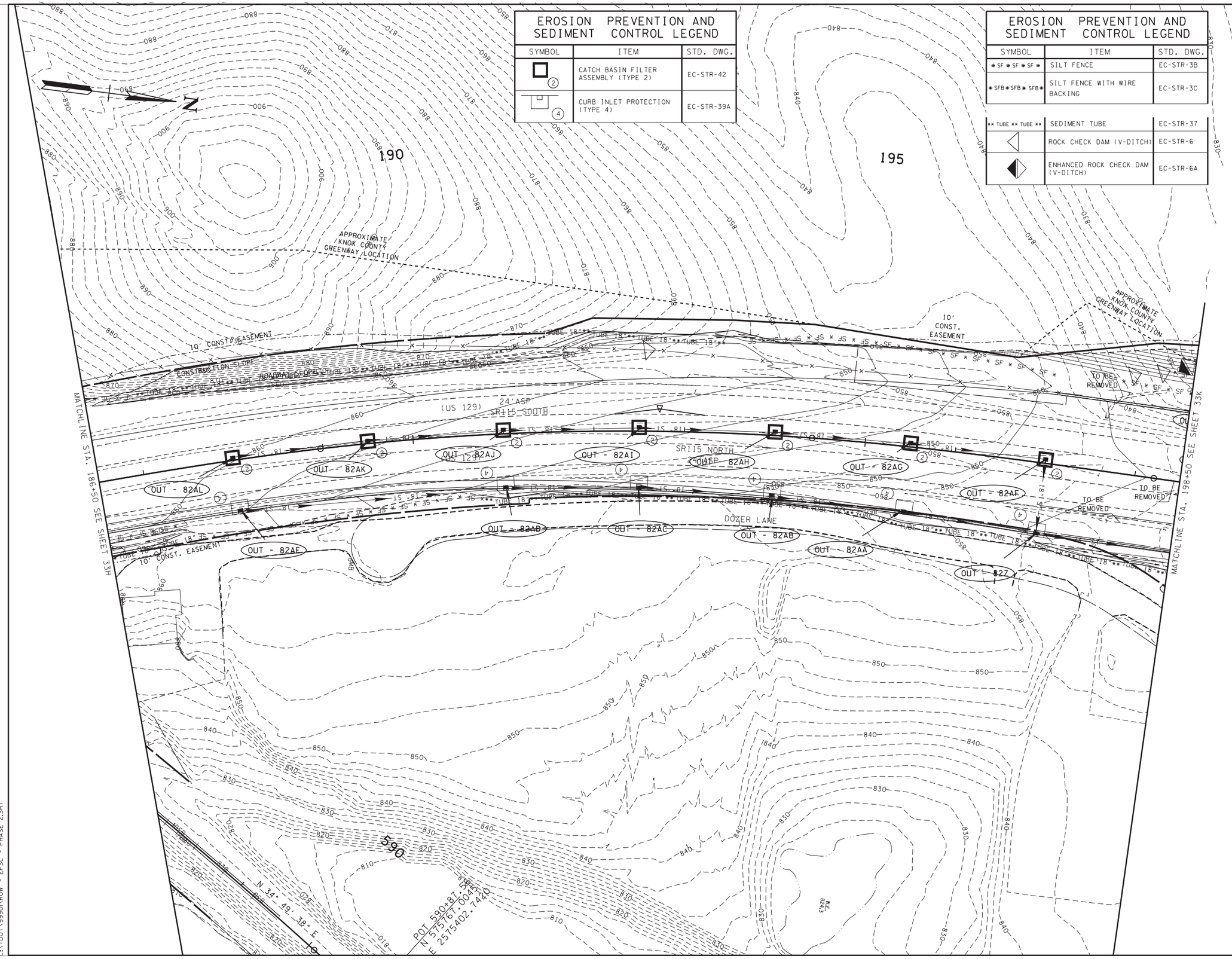
STAGE 2

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
②	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
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
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33J

KNOX CO. S.R. 115 (ALCOA HWY)



SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109038
STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF L0009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 186+50 TO STA. 198+50

SCALE: 1:50'

STAGE 2

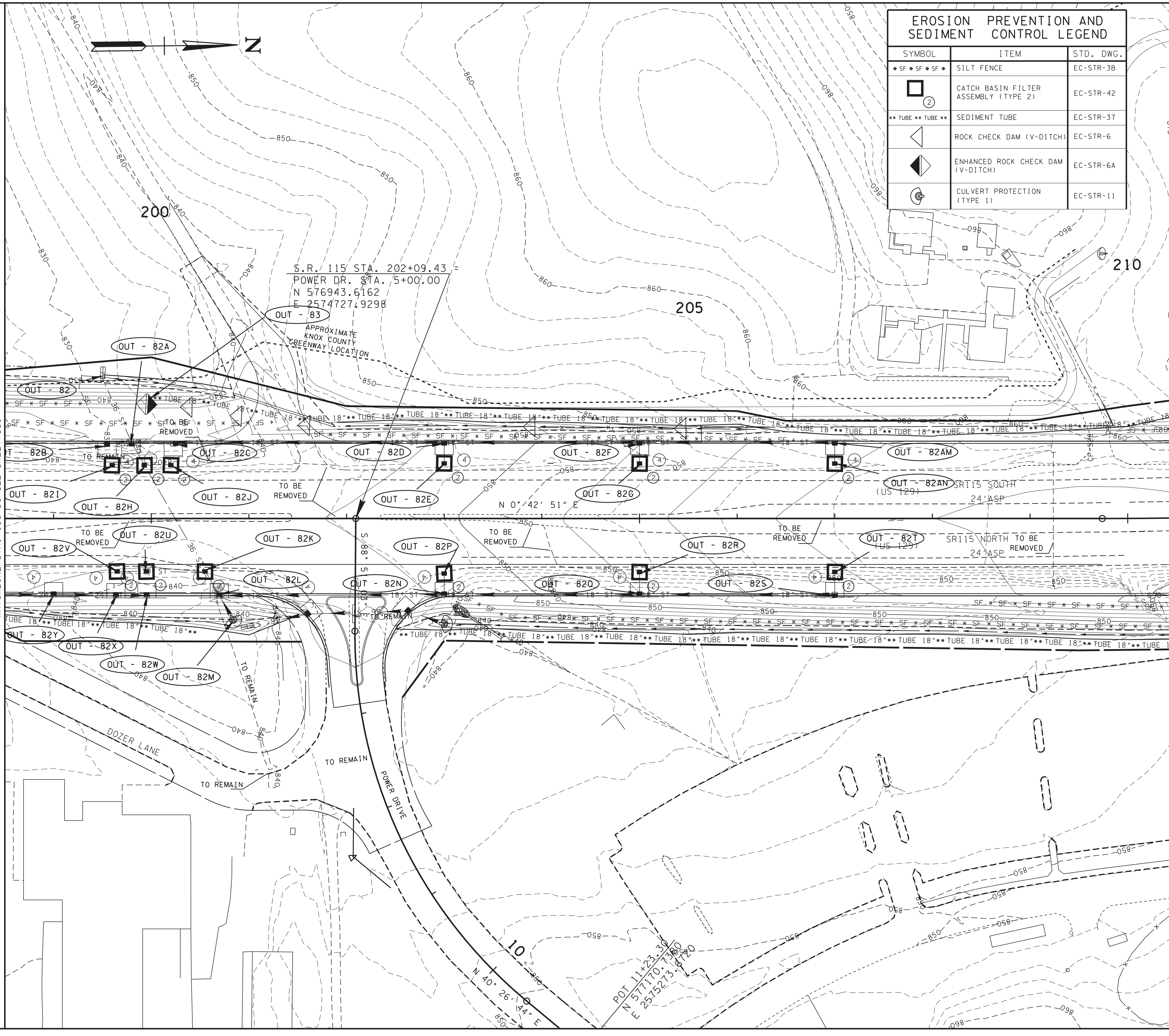
1/15/2019 4:21:55 PM
L:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33K

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11



STAGE 2

SEALED BY

JASON P. SIVERLING, REGISTERED ENGINEER, STATE OF TENNESSEE, NO. 109034

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.198+50 TO STA.210+50

SCALE: 1:50'

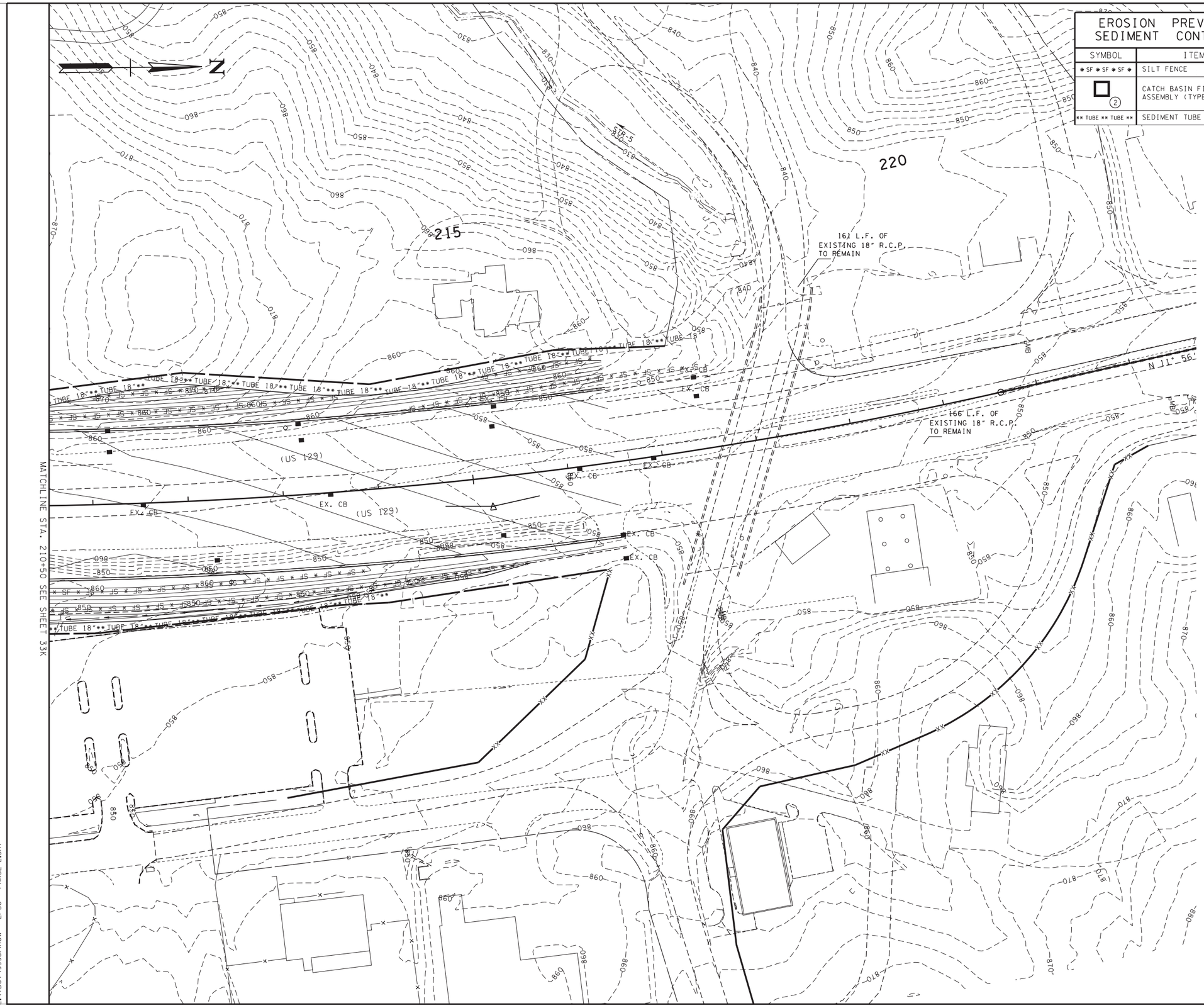
/15/2019 4:21:57 PM
:\TDOT\9990\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	33L

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
⁕ SF ⁕ SF ⁕ SF ⁕	SILT FENCE	EC-STR-3B
☐ ②	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37



STAGE 2

SEALED BY

Jason P. Siverling

JASON P. SIVERLING
REGISTERED ENGINEER
NO. 109034

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

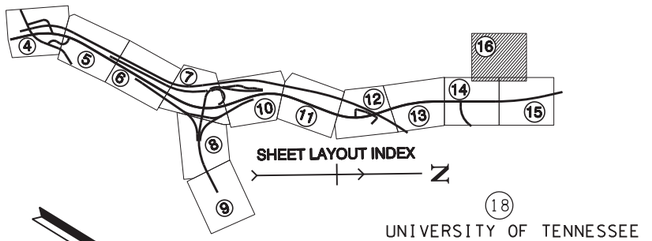
STA.210+50 TO STA.217+20

SCALE: 1:50'

/15/2019 4:21:58 PM
L:\TDOT\99901\ROW - EPSC - PHASE 2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	16
CONST.	2019	STP/NH-115(27)	33M

KNOX CO. S.R. 115 (ALCOA HWY)

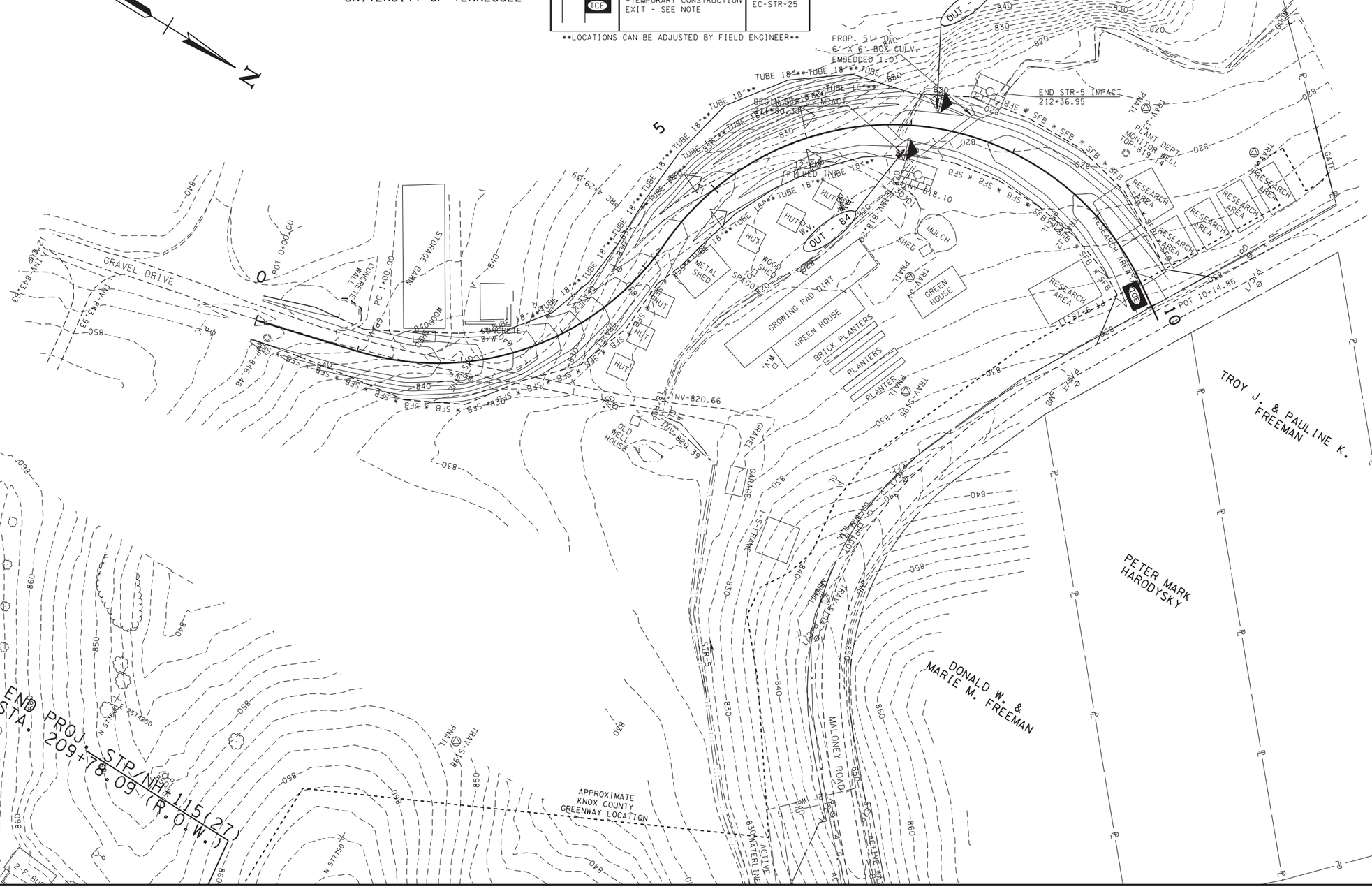


(18)
UNIVERSITY OF TENNESSEE

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER



SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 0+00 TO STA. 10+14.86

SCALE: 1:50'

STAGE 2

1/15/2019 4:23:56 PM
L:\TDOT\9990\CONST - EPSC AD-SHEET.SHT

EPSC PHASE	OUTFALL LABEL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	PHASE 2 DRAINAGE AREA (AC)	
1,2,3	OUT-1	100+10.00 RT	2.1%	.380 AC	
1,2,3	OUT-2	100+37.12 LT	3.2%	.190 AC	
1,2,3	OUT-3	100+36.78 LT	2.6%	.140 AC	
1,2,3	OUT-4	101+86.96 RT	11.8%	2.560 AC	
1,2,3	OUT-5	101+95.95 RT	4.1%	.520 AC	
1,2,3	OUT-6	102+43.41 LT	3.3%	.110 AC	
1,2,3	OUT-16	132+71.48 RT	6.5%	27.180 AC	③
1,2,3	OUT-18	140+49.14 LT	16.6%	5.790 AC	④
1,2,3	OUT-19	142+60.69 RT	22.5%	1.620 AC	
1,2,3	OUT-20	144+25.59 RT	15.9%	2.130 AC	
1,2,3	OUT-21	145+99.52 RT	12.0%	8.160 AC	⑤
1,2,3	OUT-22	143+95.83 RT	14.8%	4.620 AC	
1,2,3	OUT-23	143+40.98 RT	3.6%	.030 AC	
1,2,3	OUT-24	143+38.74 RT	3.9%	.210 AC	
1,2,3	OUT-25	142+10.48 RT	14.6%	2.670 AC	
1,2,3	OUT-26	142+19.83 RT	11.2%	.810 AC	
1,2,3	OUT-27	143+41.89 RT	17.3%	.450 AC	
1,2,3	OUT-28	144+11.09 RT	20.5%	.590 AC	
1,2,3	OUT-29	156+09.22 RT	6.6%	10.880 AC	⑥
1,2,3	OUT-30	157+84.37 LT	13.3%	.650 AC	
1,2,3	OUT-33	162+36.77 RT	13.1%	2.510 AC	
1,2,3	OUT-34	163+11.36 RT	4.0%	2.220 AC	
1,2,3	OUT-35	166+25.50 LT	24.9%	3.650 AC	
2,3	OUT-39	102+45.23 LT	3.9%	.170 AC	
2,3	OUT-40	104+00.00 LT	4.0%	.230 AC	
2,3	OUT-41	105+50.00 LT	2.2%	.340 AC	
2,3	OUT-42	103+00.00 RT	4.1%	.490 AC	
2,3	OUT-43	105+72.49 RT	3.4%	.240 AC	
2,3	OUT-44	105+58.62 RT	20.4%	.540 AC	
2,3	OUT-45	102+88.99 RT	0.0%	2.810 AC	
2,3	OUT-45A	103+18.69 RT	11.5%	.040 AC	
2,3	OUT-45B	104+16.81 RT	2.9%	1.390 AC	
2,3	OUT-45C	107+59.51 RT	6.0%	.520 AC	
2,3	OUT-45D	109+38.19 RT	6.4%	.420 AC	
2,3	OUT-45E	110+99.55 RT	28.8%	.440 AC	
2,3	OUT-46	107+32.93 RT	2.3%	.160 AC	
2,3	OUT-47	107+32.93 RT	14.2%	.210 AC	
2,3	OUT-48	110+81.56 RT	2.5%	.250 AC	
2,3	OUT-49	110+81.43 RT	11.0%	.330 AC	
2,3	OUT-50	111+50.00 LT	2.5%	.290 AC	
2,3	OUT-51	113+50.00 RT	2.4%	.340 AC	
2,3	OUT-52	113+50.00 RT	10.3%	3.930 AC	
2,3	OUT-53	114+00.00 LT	2.7%	.270 AC	
2,3	OUT-54	116+00.00 RT	2.5%	.330 AC	
2,3	OUT-55	116+00.00 RT	2.4%	.420 AC	
2,3	OUT-56	119+20.00 RT	2.2%	.430 AC	

EPSC PHASE	OUTFALL LABEL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	PHASE 2 DRAINAGE AREA (AC)	
2,3	OUT-57	119+20.00 RT	10.4%	.460 AC	
2,3	OUT-58	119+20.00 RT	11.5%	7.810 AC	⑦
2,3	OUT-59	118+00.00 LT	2.5%	.720 AC	
2,3	OUT-60	121+12.25 LT	1.4%	1.310 AC	
2,3	OUT-61	121+65.16 RT	0.7%	.320 AC	
2,3	OUT-62	121+90.48 RT	2.0%	.140 AC	
2,3	OUT-63	121+65.08 RT	1.1%	.120 AC	
2,3	OUT-64	121+92.29 RT	9.4%	15.240 AC	⑧
2,3	OUT-65	122+15.46 RT	1.7%	.660 AC	
2,3	OUT-66	122+15.46 RT	1.4%	.250 AC	
2,3	OUT-67	125+90.92 CL	1.0%	.080 AC	
2,3	OUT-68	133+00.22 RT	2.5%	2.990 AC	
2,3	OUT-69	135+54.75 LT	2.2%	.960 AC	
2,3	OUT-70	140+50.00 LT	5.2%	14.720 AC	⑨
2,3	OUT-71	140+50.00 RT	6.0%	.110 AC	
2,3	OUT-72	141+50.00 RT	5.8%	.130 AC	
2,3	OUT-73	142+50.00 RT	3.2%	.330 AC	
2,3	OUT-74	144+36.32 RT	19.3%	5.530 AC	⑩
2,3	OUT-74A	144+93.74 RT	19.3%	5.530 AC	⑪
2,3	OUT-75	163+85.24 RT	0.0%	1.620 AC	
2,3	OUT-75A	164+50.00 LT	2.1%	.120 AC	
2,3	OUT-75B	163+25.00 LT	3.2%	.140 AC	
2,3	OUT-75C	162+00.00 LT	4.8%	.160 AC	
2,3	OUT-75D	160+75.00 LT	4.8%	.190 AC	
2,3	OUT-75E	159+50.00 LT	5.3%	.270 AC	
2,3	OUT-75F	158+00.00 LT	4.7%	.340 AC	
2,3	OUT-75G	156+50.00 LT	3.6%	.400 AC	
2,3	OUT-76	168+50.00 LT	0.0%	1.500 AC	
2,3	OUT-76A	168+50.00 LT	0.9%	.810 AC	
2,3	OUT-76B	171+00.00 LT	1.6%	.250 AC	
2,3	OUT-76C	165+50.00 LT	2.2%	.190 AC	
2,3	OUT-76D	162+50.00 LT	3.5%	.050 AC	
2,3	OUT-76E	161+00.00 LT	3.0%	.050 AC	
2,3	OUT-76F	159+50.00 LT	3.2%	.060 AC	
2,3	OUT-76G	157+75.00 LT	2.8%	.050 AC	
2,3	OUT-76H	155+97.87 LT	0.6%	.040 AC	
2,3	OUT-77	170+87.36 RT	1.9%	3.700 AC	
2,3	OUT-78	172+81.62 LT	0.0%	1.480 AC	
2,3	OUT-78A	172+80.00 LT	2.5%	.160 AC	
2,3	OUT-78B	174+05.00 LT	3.1%	.170 AC	
2,3	OUT-78C	175+30.00 LT	4.2%	.190 AC	
2,3	OUT-78D	176+67.50 LT	6.1%	.190 AC	
2,3	OUT-78E	178+04.91 LT	5.4%	.190 AC	
2,3	OUT-78F	179+42.46 LT	4.8%	.190 AC	
2,3	OUT-78G	180+80.00 LT	2.6%	.390 AC	
2,3	OUT-79	173+48.37 RT	4.1%	1.400 AC	

EPSC PHASE	OUTFALL LABEL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	PHASE 2 DRAINAGE AREA (AC)	
2,3	OUT-79A	173+41.92 RT	3.4%	.060 AC	
2,3	OUT-79B	173+15.00 RT	3.4%	.140 AC	
2,3	OUT-79C	174+57.97 RT	2.8%	.170 AC	
2,3	OUT-79D	176+00.00 RT	4.5%	.140 AC	
2,3	OUT-79E	177+00.00 RT	5.6%	.140 AC	
2,3	OUT-79F	178+00.00 RT	5.7%	.140 AC	
2,3	OUT-79G	179+00.00 RT	5.3%	.130 AC	
2,3	OUT-79H	180+00.00 RT	4.3%	.220 AC	
2,3	OUT-79I	181+60.00 RT	4.2%	.260 AC	
2,3	OUT-80	183+75.00 LT	1.3%	.140 AC	
2,3	OUT-81	184+45.89 RT	4.8%	.450 AC	
2,3	OUT-82	199+50.34 LT	0.0%	9.920 AC	⑫
2,3	OUT-82A	199+80.00 LT	1.4%	.040 AC	
2,3	OUT-82B	199+55.00 LT	1.7%	.130 AC	
2,3	OUT-82C	200+25.00 LT	1.1%	.130 AC	
2,3	OUT-82D	203+00.00 LT	2.1%	.090 AC	
2,3	OUT-82E	203+00.00 LT	2.3%	.260 AC	
2,3	OUT-82F	205+00.00 LT	2.2%	.090 AC	
2,3	OUT-82G	205+00.00 LT	2.4%	.260 AC	
2,3	OUT-82H	199+92.81 LT	1.5%	.130 AC	
2,3	OUT-82I	199+60.00 LT	1.3%	.370 AC	
2,3	OUT-82J	200+20.00 LT	1.3%	.380 AC	
2,3	OUT-82K	200+55.00 RT	1.6%	.320 AC	
2,3	OUT-82L	200+70.00 RT	1.0%	.050 AC	
2,3	OUT-82M	200+83.79 RT	5.2%	1.850 AC	
2,3	OUT-82N	203+00.00 RT	2.1%	.090 AC	
2,3	OUT-82P	203+00.00 RT	2.3%	.270 AC	
2,3	OUT-82Q	205+00.00 RT	2.1%	.100 AC	
2,3	OUT-82R	205+00.00 RT	2.2%	.250 AC	
2,3	OUT-82S	207+00.00 RT	1.6%	.120 AC	
2,3	OUT-82T	207+00.00 RT	1.6%	.340 AC	
2,3	OUT-82U	199+95.00 RT	1.3%	.180 AC	
2,3	OUT-82V	199+65.00 RT	1.3%	.380 AC	
2,3	OUT-82W	199+95.00 RT	1.2%	.050 AC	
2,3	OUT-82X	199+65.00 RT	1.2%	.040 AC	
2,3	OUT-82Y	199+00.00 RT	1.3%	.090 AC	
2,3	OUT-82Z	197+00.00 RT	1.7%	.220 AC	
2,3	OUT-82AA	195+50.00 RT	1.9%	.260 AC	
2,3	OUT-82AB	194+00.00 RT	2.9%	.230 AC	
2,3	OUT-82AC	192+50.00 RT	2.9%	.210 AC	
2,3	OUT-82AD	191+00.00 RT	2.5%	.400 AC	
2,3	OUT-82AE	188+00.00 RT	1.7%	.550 AC	
2,3	OUT-82AF	197+00.00 LT	2.2%	.230 AC	
2,3	OUT-82AG	195+50.00 LT	2.6%	.210 AC	
2,3	OUT-82AH	194+00.00 LT	2.3%	.210 AC	
2,3	OUT-82AI	192+50.00 LT	2.3%	.190 AC	
2,3	OUT-82AJ	191+00.00 LT	2.3%	.170 AC	
2,3	OUT-82AK	189+50.00 LT	1.7%	.170 AC	
2,3	OUT-82AL	188+00.00 LT	1.0%	.400 AC	
2,3	OUT-82AM	207+00.00 LT	2.0%	.120 AC	
2,3	OUT-82AN	207+00.00 LT	1.5%	.340 AC	
2,3	OUT-83	199+95.34 LT	12.1%	2.720 AC	
1,2,3	OUT-84	6+94.77 RT	2.1%	.211 AC	
2,3	OUT-85	7+21.75 RT	3.9%	.495 AC	

③	INCLUDES 25.782 ACRES OF OFFSITE RUNOFF
④	INCLUDES 1.679 ACRES OF UNDISTURBED AREA
⑤	INCLUDES 7.088 ACRES OF OFFSITE RUNOFF
⑥	INCLUDES 3.355 ACRES OF OFFSITE RUNOFF AND 0.408 ACRES OF UNDISTURBED AREA
⑦	INCLUDES 12.810 ACRES OF OFFSITE RUNOFF AND 3.614 ACRES OF UNDISTURBED AREA
⑧	INCLUDES 14.622 ACRES OF OFFSITE RUNOFF
⑨	INCLUDES 2.865 ACRES OF UNDISTURBED AREA
⑩	INCLUDES 4.966 ACRES OF OFFSITE RUNOFF
⑪	INCLUDES 5.014 ACRES OF OFFSITE RUNOFF
⑫	INCLUDES 3.932 ACRES OF OFFSITE RUNOFF

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	16
CONST.	2019	STP/NH-115(27)	33N

KNOX CO. S.R. 115 (ALCOA HWY)

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 109704 STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

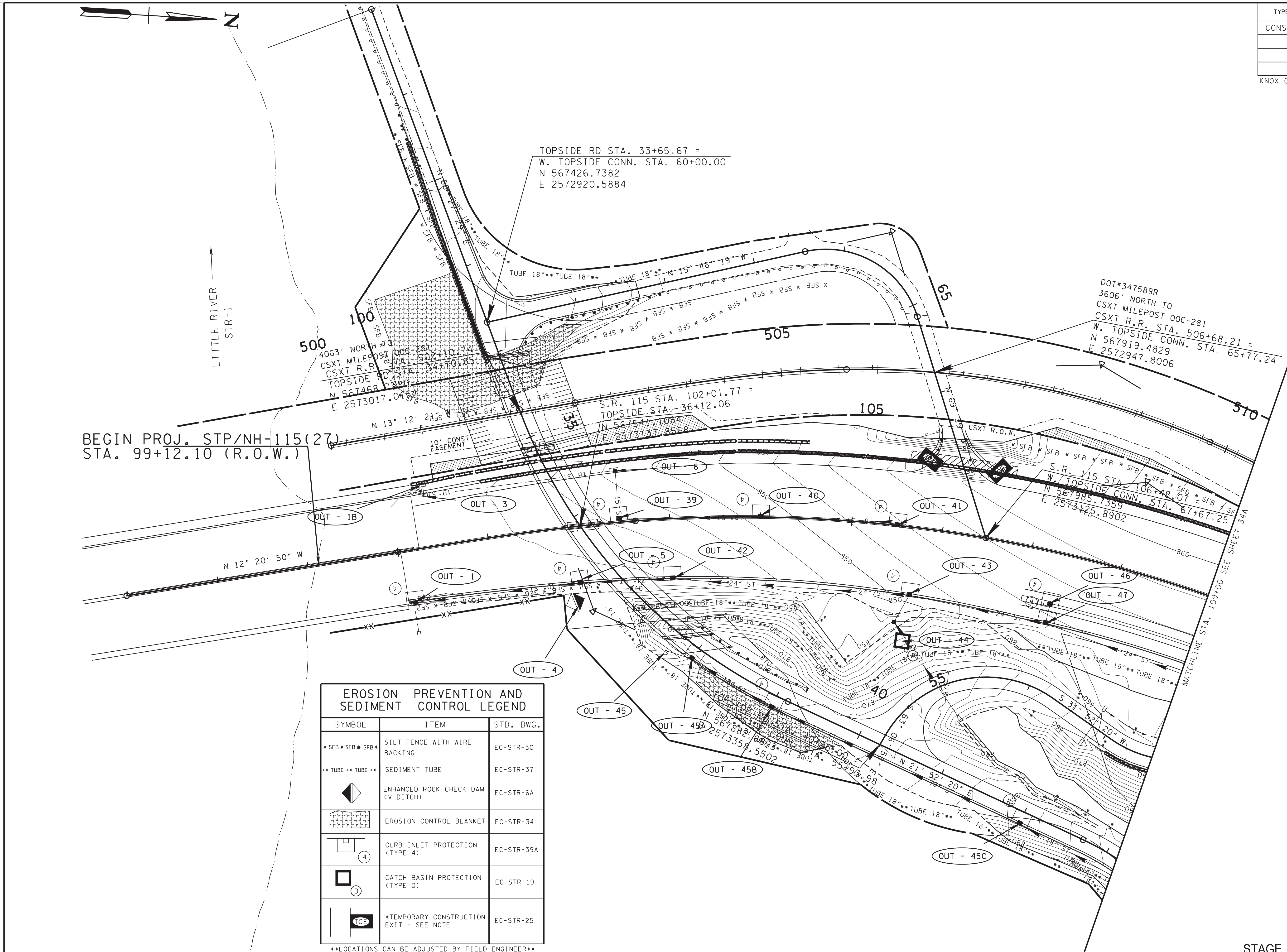
STAGE 2 OUTFALL AREAS

SCALE: N.T.S.

STAGE 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	EROSION CONTROL BLANKET	EC-STR-34
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 109034 STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 96+98.94 TO STA. 109+00

SCALE: 1:50'

STAGE 3

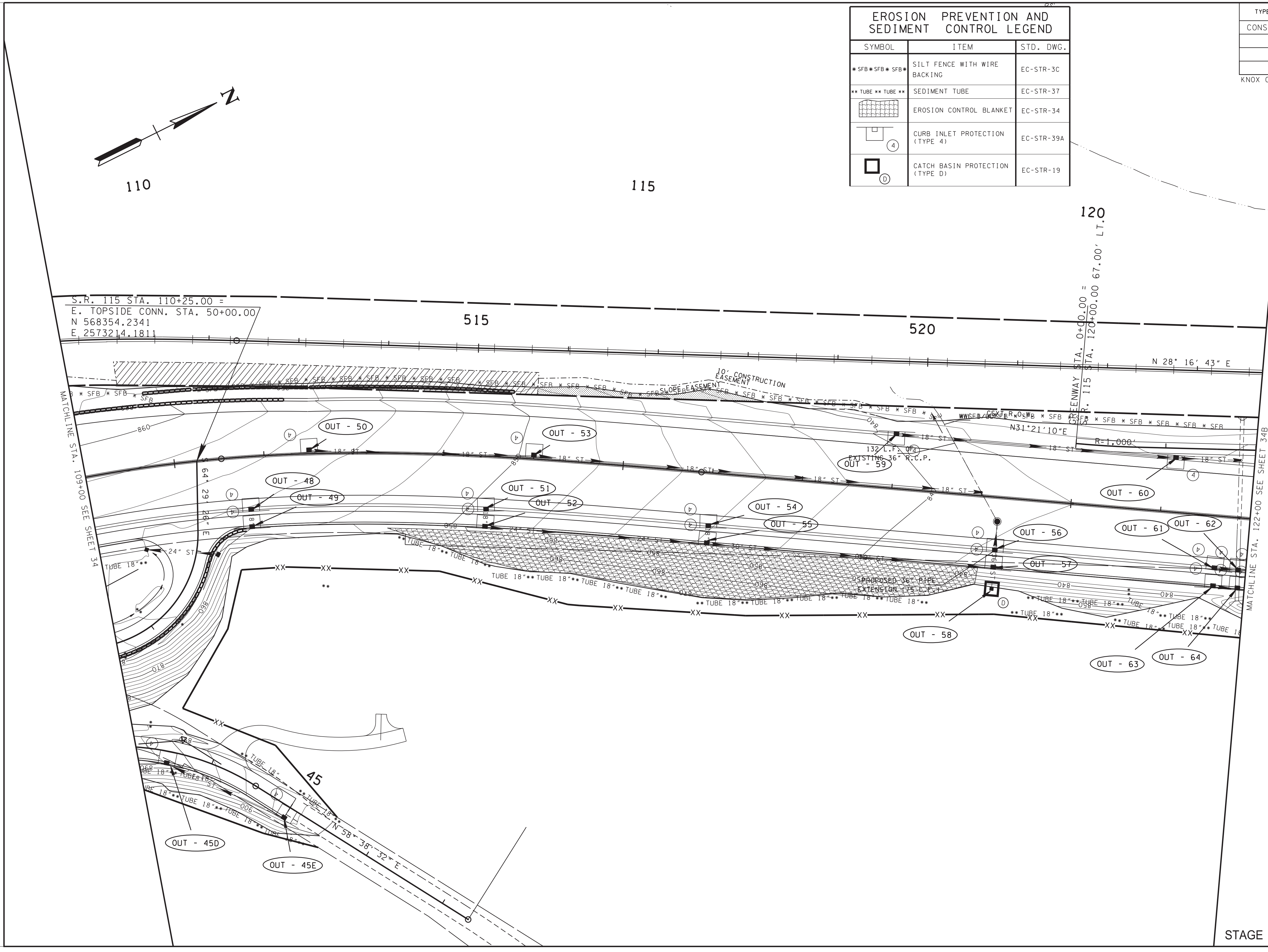
/15/2019 4:22:01 PM
:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34A

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	EROSION CONTROL BLANKET	EC-STR-34
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
(D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19



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COMMERCE
NO. 109034
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.109+00 TO STA.122+00

SCALE: 1:50'

STAGE 3

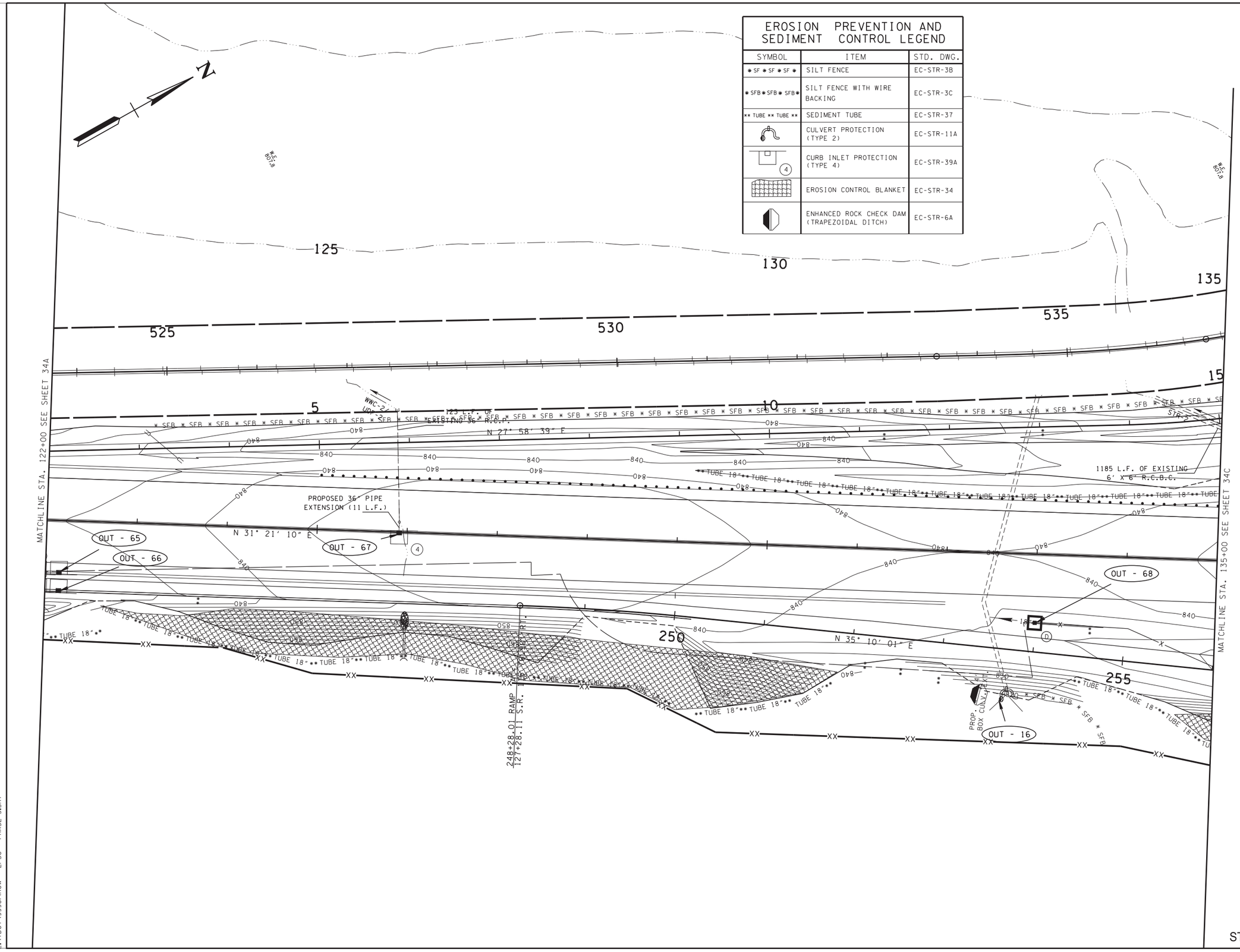
1/15/2019 4:22:02 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34B

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

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
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
▨	EROSION CONTROL BLANKET	EC-STR-34
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A



SEALED BY

Jason P. Siverling
JASON P. SIVERLING
NO. 109034
01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.122+00 TO STA.135+00
SCALE: 1:50′

STAGE 3

/15/2019 4:22:04 PM
L:\TDOT\99901\ROW - EPSC - PHASE 3.SHT

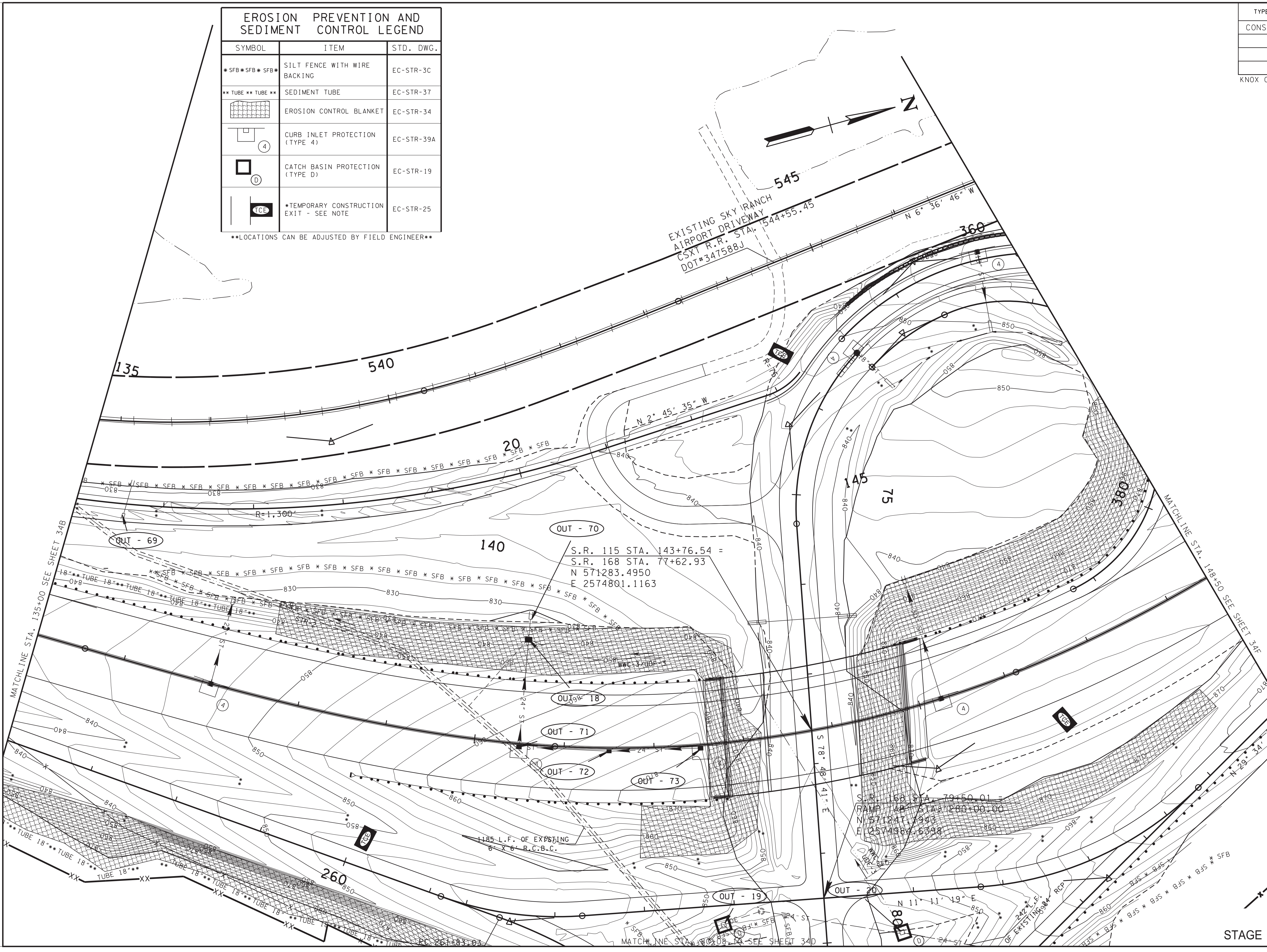
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34C

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	EROSION CONTROL BLANKET	EC-STR-34
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
(D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER



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JASON P. SIVERLING
REGISTERED ENGINEER
STATE OF TENNESSEE
NO. 109036
01/16/2019

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.135+00 TO STA.148+50

SCALE: 1:50'

STAGE 3

/15/2019 4:22:05 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34D

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	EROSION CONTROL BLANKET	EC-STR-34
(D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A

N

85

90

MATCHLINE STA. 80+08.10 SEE SHEET 34C

MATCHLINE STA. 92+00 SEE SHEET 34E

OUT - 21

WWC-3/UDF-3

242 L.F. OF EXISTING 24" RCP

OUT - 22

OUT - 23

OUT - 24

OUT - 25

OUT - 26

OUT - 27

OUT - 28

1185 L.F. OF EXISTING 6' X 6' R.C.B.C.

STR-2

P.I. 267+18.14

268+80.83 RAMP 'A' = 68 30' LT.
85+00.00 S.R.

N 89° 01' 49" W

N 88° 40' 41" E

10' CONST. EASEMENT

10' CONST. EASEMENT

10' CONST. EASEMENT

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JASON P. SIVERLING
REGISTERED ENGINEER
AGENT
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

S.R. 168
STA.80+08.10 TO STA.92+00
SCALE: 1:50'

STAGE 3

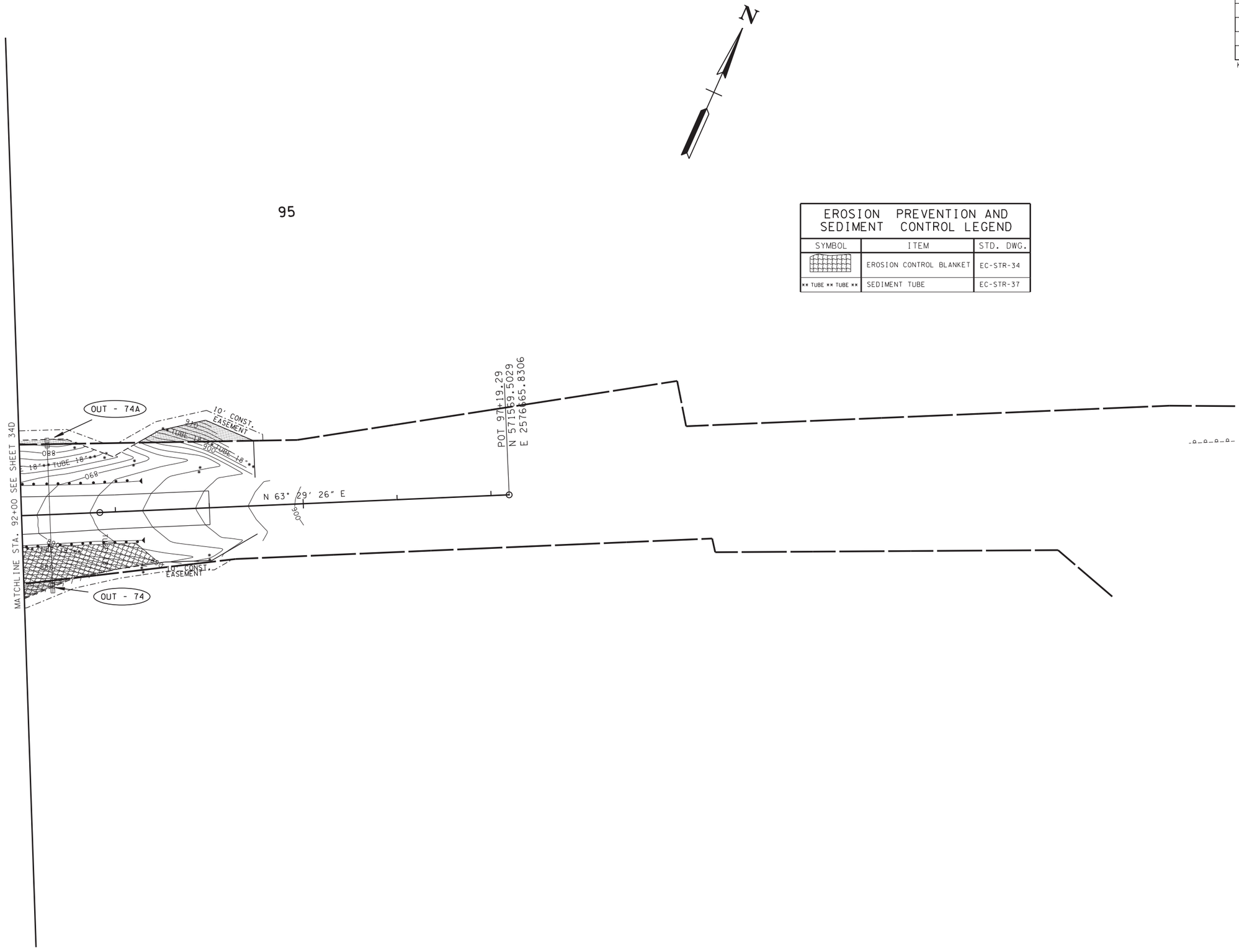
I:\TDOT\9990\ROW - EPSC - PHASE 3.SHT
1/15/2019 4:22:07 PM

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34E

KNOX CO. S.R. 115 (ALCOA HWY)

95

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	EROSION CONTROL BLANKET	EC-STR-34
×× TUBE ×× TUBE ××	SEDIMENT TUBE	EC-STR-37



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JASON P. SIVERLING
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STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

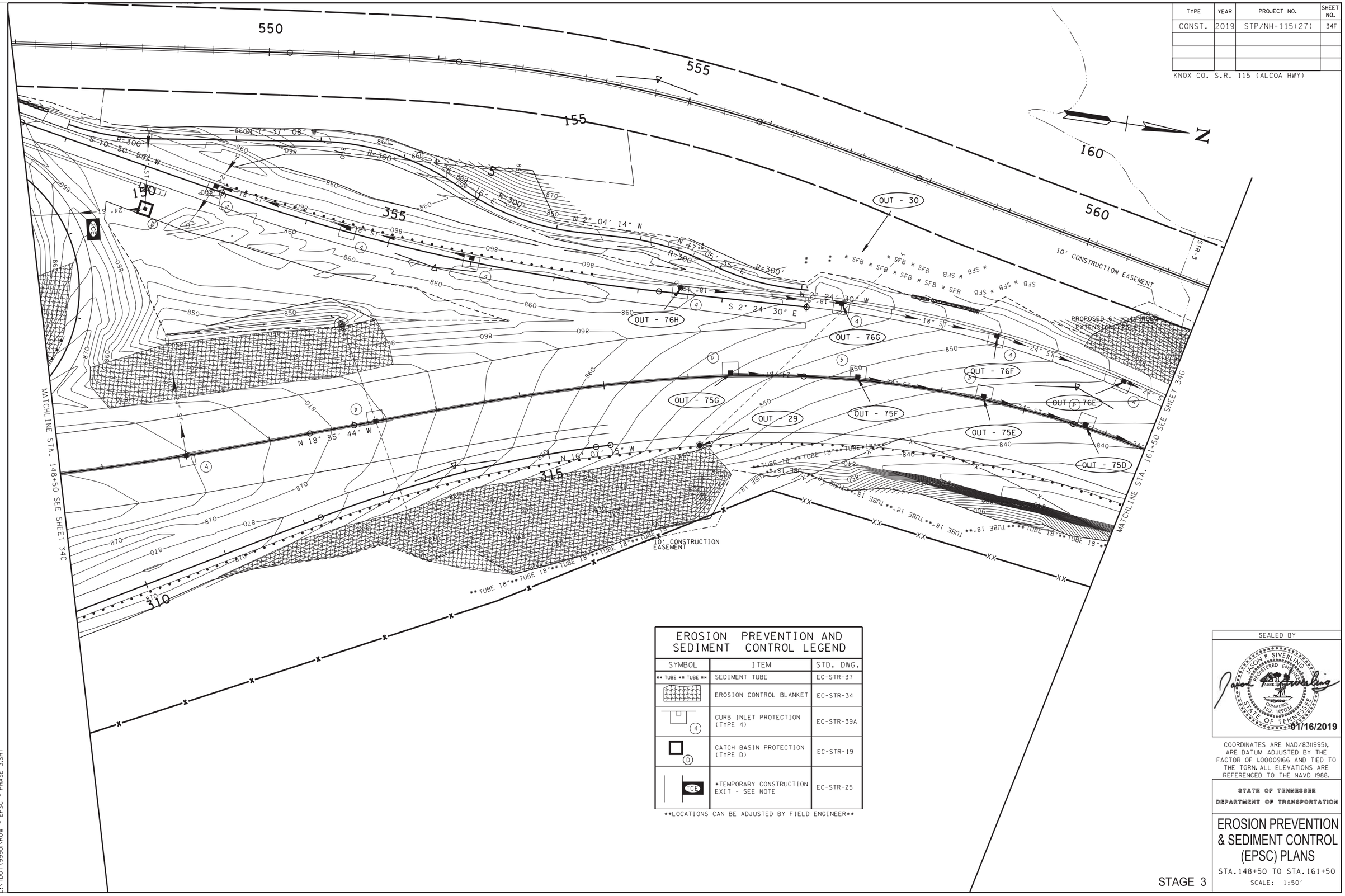
S.R. 168
STA.92+00 TO STA.97+19.29
SCALE: 1:50'

STAGE 3

1/15/2019 4:22:08 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34F

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	EROSION CONTROL BLANKET	EC-STR-34
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

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01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 148+50 TO STA. 161+50

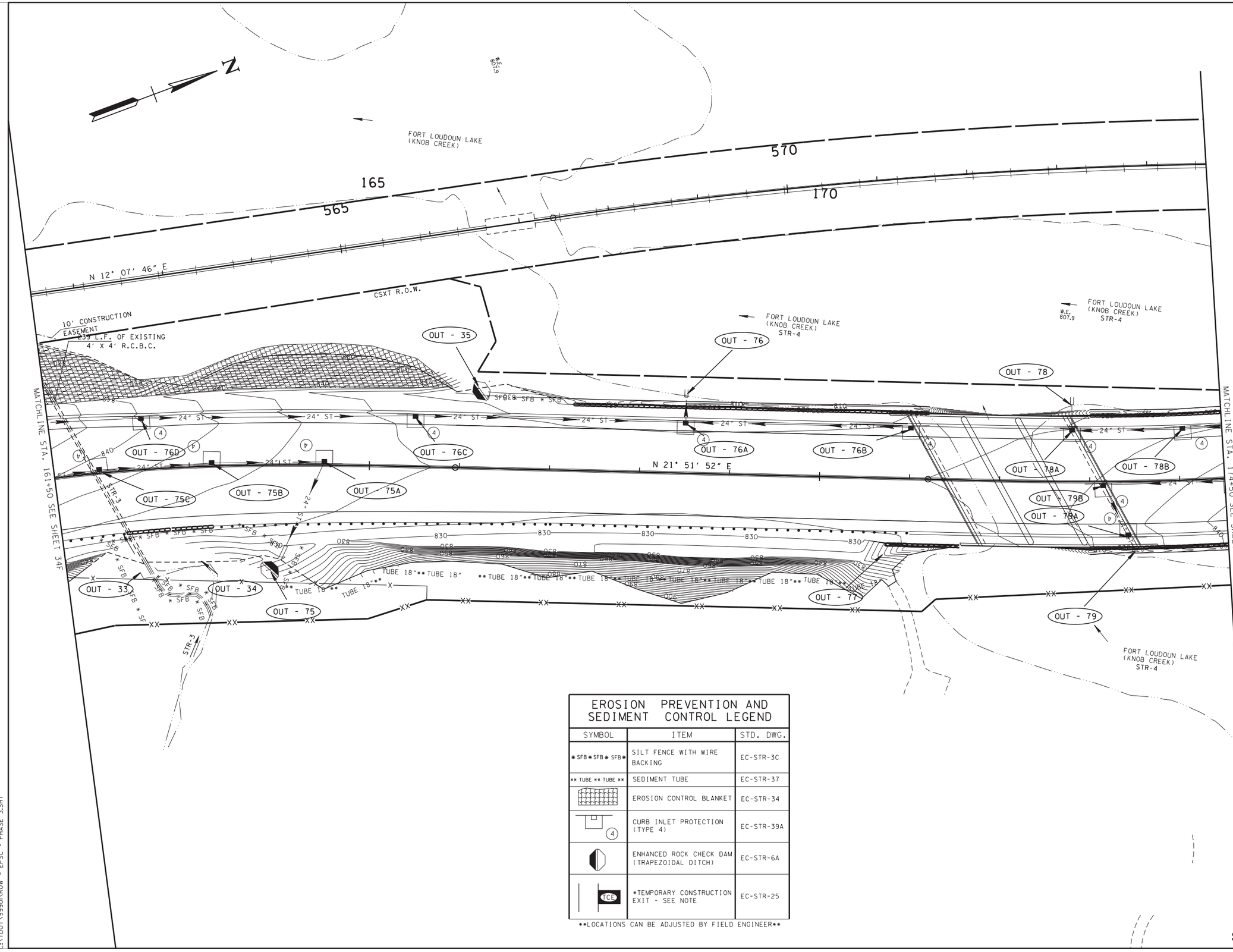
SCALE: 1:50'

STAGE 3

1/15/2019 4:22:09 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34G

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	EROSION CONTROL BLANKET	EC-STR-34
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

STAGE 3

SEALED BY

JASON P. SIVERLING REGISTERED ENGINEER AGENT COMMERCE NO. 109034 STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.161+50 TO STA.174+50

SCALE: 1:50'

1/15/2019 4:22:10 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34H

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	EROSION CONTROL BLANKET	EC-STR-34
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER

EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

N

180

185

580

585

APPROXIMATE KNOX COUNTY GREENWAY LOCATION

DOT#347587C
CSXT MILEPOST 00C-280.24
CSXT R.R. STA. 582+73.74 =
S.R. 115 STA. 183+07.42
N 575073.7861
E 2574977.6470

MATCHLINE STA. 174+50 SEE SHEET 34G

MATCHLINE STA. 186+50 SEE SHEET 34J

10' CONST. EASEMENT

OUT - 78C
OUT - 78D
OUT - 78E
OUT - 78F
OUT - 78G
OUT - 79C
OUT - 79D
OUT - 79E
OUT - 79F
OUT - 79G
OUT - 79H
OUT - 79I
OUT - 80
OUT - 81

N 17° 45' 43" W

10' CONST. EASEMENT

EDGEWATER

FORT LOUDOUN LAKE (KNOB CREEK) STR-4

807.9 M.S.L.

STAGE 3

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 174+50 TO STA. 186+50

SCALE: 1:50'

1/15/2019 4:22:11 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34J

KNOX CO. S.R. 115 (ALCOA HWY)

N

190

195

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

APPROXIMATE KNOX COUNTY GREENWAY LOCATION

10' CONST. EASEMENT

CONSTRUCTION SLOPE

ROADWAY SLOPE

MATCHLINE STA. 186+50 SEE SHEET 34H

MATCHLINE STA. 198+50 SEE SHEET 34K

OUT - 82AL

OUT - 82AK

OUT - 82AJ

OUT - 82AI

OUT - 82AH

OUT - 82AG

OUT - 82AF

OUT - 82AE

OUT - 82AD

OUT - 82AC

OUT - 82AB

OUT - 82AA

OUT - 82Z

590

N 34° 49' 38" E

POT 590+87.56
N 575767.0045
E 2575402.7420

W.E. 824.3

STAGE 3

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
STATE OF TENNESSEE
COMMERCE
NO. 109051

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.186+50 TO STA.198+50

SCALE: 1:50'

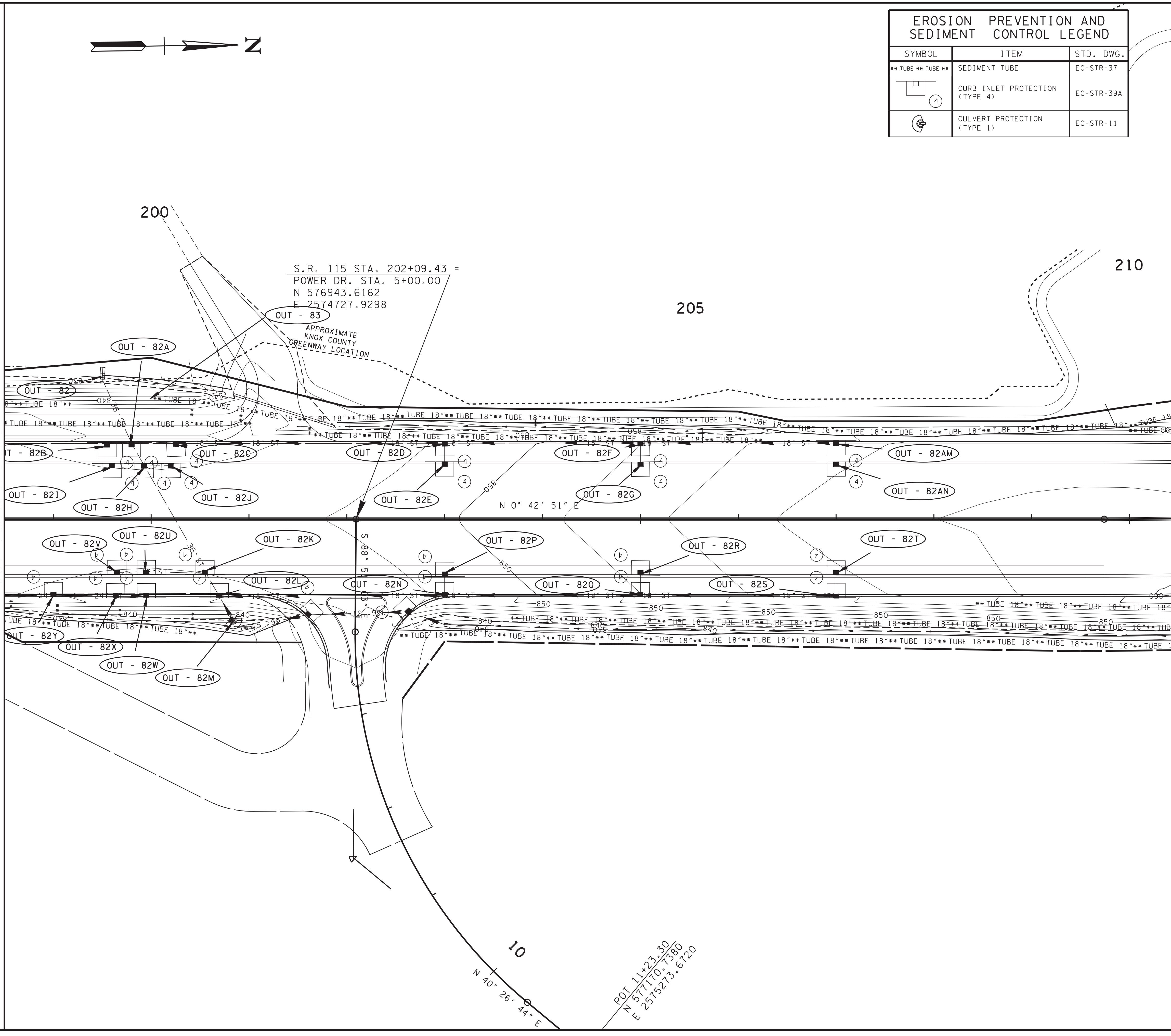
1/15/2019 4:22:13 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34K

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11



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JASON P. SIVERLING REGISTERED ENGINEER NO. 109034 STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 198+50 TO STA. 210+50

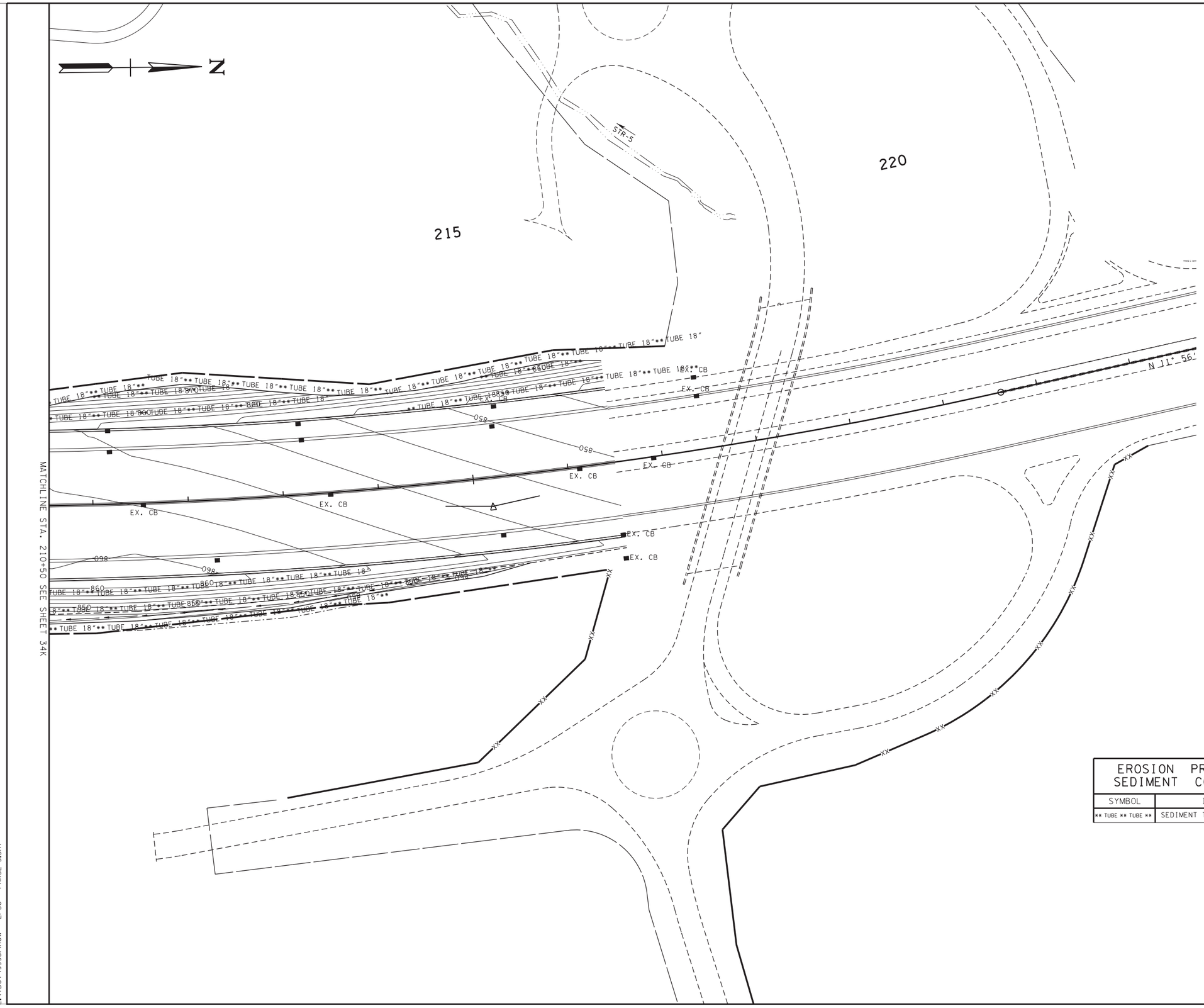
SCALE: 1:50'

STAGE 3

1/15/2019 4:22:14 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	STP/NH-115(27)	34L

KNOX CO. S.R. 115 (ALCOA HWY)



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
No. 109034
COMMERCE
STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.210+50 TO STA.217+20

SCALE: 1:50'

STAGE 3

1/15/2019 4:22:15 PM
L:\TDOT\9990\ROW - EPSC - PHASE 3.SHT

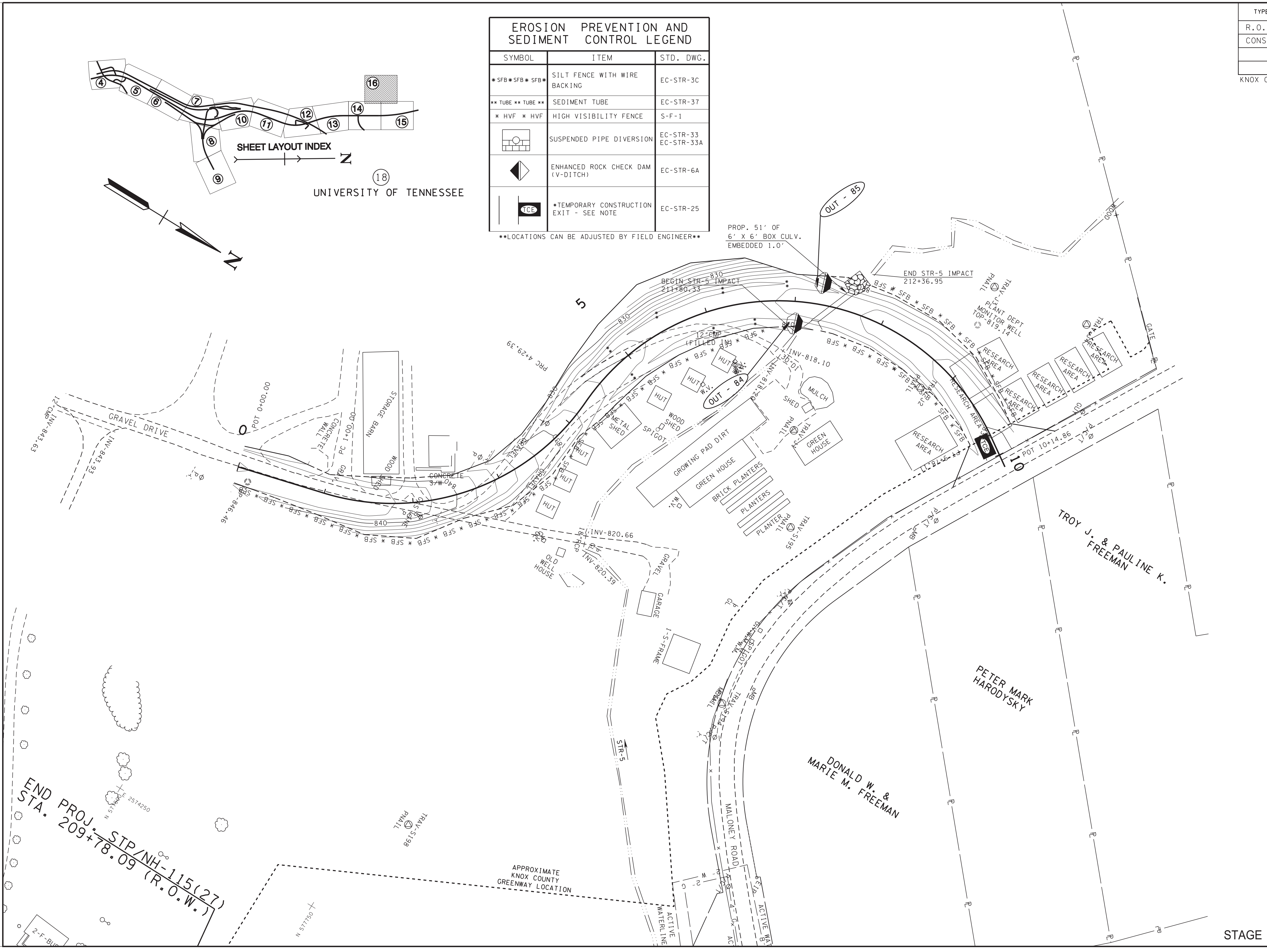
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	16
CONST.	2019	STP/NH-115(27)	34M

KNOX CO. S.R. 115 (ALCOA HWY)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
TCE	*TEMPORARY CONSTRUCTION EXIT - SEE NOTE	EC-STR-25

LOCATIONS CAN BE ADJUSTED BY FIELD ENGINEER



SEALED BY

JASON P. SIVERLING, REGISTERED ENGINEER, NO. 109034, STATE OF TENNESSEE

01/16/2019

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 0+00 TO STA. 10+14.86

SCALE: 1:50'

STAGE 3

1/15/2019 4:24:04 PM
L:\TDOT\9990\CONST - EPSC AD-SHEET.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	STP/NH-115(27)	16
CONST.	2019	STP/NH-115(27)	34N

KNOX CO. S.R. 115 (ALCOA HWY)

EPSC PHASE	OUTFALL LABEL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	PHASE 3 DRAINAGE AREA (AC)	
1,2,3	OUT-1	100+10.00 RT	21%	.380 AC	
1,2,3	OUT-2	100+37.12 LT	32%	.190 AC	
1,2,3	OUT-3	100+36.78 LT	26%	.140 AC	
1,2,3	OUT-4	101+86.96 RT	11.8%	2.560 AC	
1,2,3	OUT-5	101+95.95 RT	41%	.520 AC	
1,2,3	OUT-6	102+43.41 LT	33%	.110 AC	
1,2,3	OUT-16	132+71.48 RT	65%	27.180 AC	③
1,2,3	OUT-18	140+49.14 LT	16.6%	5.790 AC	④
1,2,3	OUT-19	142+60.69 RT	22.5%	1.620 AC	
1,2,3	OUT-20	144+25.59 RT	15.9%	2.130 AC	
1,2,3	OUT-21	145+99.52 RT	12.0%	8.160 AC	⑤
1,2,3	OUT-22	143+95.83 RT	14.8%	4.620 AC	
1,2,3	OUT-23	143+40.98 RT	36%	.030 AC	
1,2,3	OUT-24	143+38.74 RT	39%	.210 AC	
1,2,3	OUT-25	142+10.48 RT	14.6%	2.670 AC	
1,2,3	OUT-26	142+19.83 RT	11.2%	.810 AC	
1,2,3	OUT-27	143+41.89 RT	17.3%	.450 AC	
1,2,3	OUT-28	144+11.09 RT	20.5%	.590 AC	
1,2,3	OUT-29	156+09.22 RT	66%	10.880 AC	⑥
1,2,3	OUT-30	157+84.37 LT	13.3%	.650 AC	
1,2,3	OUT-33	162+36.77 RT	13.1%	2.510 AC	
1,2,3	OUT-34	163+11.36 RT	40%	2.220 AC	
1,2,3	OUT-35	166+25.50 LT	24.9%	3.650 AC	
2,3	OUT-39	102+45.23 LT	39%	.170 AC	
2,3	OUT-40	104+00.00 LT	40%	.230 AC	
2,3	OUT-41	105+50.00 LT	22%	.340 AC	
2,3	OUT-42	103+00.00 RT	41%	.490 AC	
2,3	OUT-43	105+72.49 RT	34%	.240 AC	
2,3	OUT-44	105+58.62 RT	20.4%	.540 AC	
2,3	OUT-45	102+88.99 RT	00%	2.810 AC	
2,3	OUT-45A	103+18.69 RT	11.5%	.040 AC	
2,3	OUT-45B	104+16.81 RT	29%	1.390 AC	
2,3	OUT-45C	107+59.51 RT	60%	.520 AC	
2,3	OUT-45D	109+38.19 RT	64%	.420 AC	
2,3	OUT-45E	110+99.55 RT	26.8%	.440 AC	
2,3	OUT-46	107+32.93 RT	23%	.160 AC	
2,3	OUT-47	107+32.93 RT	14.2%	.210 AC	
2,3	OUT-48	110+81.56 RT	25%	.250 AC	
2,3	OUT-49	110+81.43 RT	11.0%	.330 AC	
2,3	OUT-50	111+50.00 LT	25%	.290 AC	
2,3	OUT-51	113+50.00 RT	24%	.340 AC	
2,3	OUT-52	113+50.00 RT	10.3%	3.930 AC	
2,3	OUT-53	114+00.00 LT	27%	.270 AC	
2,3	OUT-54	116+00.00 RT	25%	.330 AC	
2,3	OUT-55	116+00.00 RT	24%	.420 AC	
2,3	OUT-56	119+20.00 RT	22%	.430 AC	

EPSC PHASE	OUTFALL LABEL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	PHASE 3 DRAINAGE AREA (AC)	
2,3	OUT-57	119+20.00 RT	10.4%	.460 AC	
2,3	OUT-58	119+20.00 RT	11.5%	7.810 AC	⑦
2,3	OUT-59	118+00.00 LT	2.5%	.720 AC	
2,3	OUT-60	121+12.25 LT	1.4%	1.310 AC	
2,3	OUT-61	121+65.16 RT	0.7%	.320 AC	
2,3	OUT-62	121+90.48 RT	2.0%	.140 AC	
2,3	OUT-63	121+65.08 RT	1.1%	.120 AC	
2,3	OUT-64	121+92.29 RT	9.4%	15.240 AC	⑧
2,3	OUT-65	122+15.46 RT	1.7%	.660 AC	
2,3	OUT-66	122+15.46 RT	1.4%	.250 AC	
2,3	OUT-67	125+90.92 CL	1.0%	.080 AC	
2,3	OUT-68	133+00.22 RT	2.5%	2.990 AC	
2,3	OUT-69	135+54.75 LT	2.2%	.960 AC	
2,3	OUT-70	140+50.00 LT	5.2%	14.720 AC	⑨
2,3	OUT-71	140+50.00 RT	6.0%	.110 AC	
2,3	OUT-72	141+50.00 RT	5.8%	.130 AC	
2,3	OUT-73	142+50.00 RT	3.2%	.330 AC	
2,3	OUT-74	144+36.32 RT	19.3%	5.530 AC	⑩
2,3	OUT-74A	144+93.74 RT	19.3%	5.530 AC	⑪
2,3	OUT-75	163+85.24 RT	0.0%	1.620 AC	
2,3	OUT-75A	164+50.00 LT	2.1%	.120 AC	
2,3	OUT-75B	163+25.00 LT	3.2%	.140 AC	
2,3	OUT-75C	162+00.00 LT	4.8%	.160 AC	
2,3	OUT-75D	160+75.00 LT	4.8%	.190 AC	
2,3	OUT-75E	159+50.00 LT	5.3%	.270 AC	
2,3	OUT-75F	158+00.00 LT	4.7%	.340 AC	
2,3	OUT-75G	156+50.00 LT	3.6%	.400 AC	
2,3	OUT-76	168+50.00 LT	0.0%	1.500 AC	
2,3	OUT-76A	168+50.00 LT	0.9%	.810 AC	
2,3	OUT-76B	171+00.00 LT	1.6%	.250 AC	
2,3	OUT-76C	165+50.00 LT	2.2%	.190 AC	
2,3	OUT-76D	162+50.00 LT	3.5%	.050 AC	
2,3	OUT-76E	161+00.00 LT	3.0%	.050 AC	
2,3	OUT-76F	159+50.00 LT	3.2%	.060 AC	
2,3	OUT-76G	157+75.00 LT	2.8%	.050 AC	
2,3	OUT-76H	155+97.87 LT	0.6%	.040 AC	
2,3	OUT-77	170+87.36 RT	1.9%	3.700 AC	
2,3	OUT-78	172+81.62 LT	0.0%	1.480 AC	
2,3	OUT-78A	172+80.00 LT	2.5%	.160 AC	
2,3	OUT-78B	174+05.00 LT	3.1%	.170 AC	
2,3	OUT-78C	175+30.00 LT	4.2%	.190 AC	
2,3	OUT-78D	176+67.50 LT	6.1%	.190 AC	
2,3	OUT-78E	178+04.91 LT	5.4%	.190 AC	
2,3	OUT-78F	179+42.46 LT	4.8%	.190 AC	
2,3	OUT-78G	180+80.00 LT	2.6%	.390 AC	
2,3	OUT-79	173+48.37 RT	4.1%	1.400 AC	

EPSC PHASE	OUTFALL LABEL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	PHASE 3 DRAINAGE AREA (AC)	
2,3	OUT-79A	173+41.92 RT	3.4%	.060 AC	
2,3	OUT-79B	173+15.00 RT	3.4%	.140 AC	
2,3	OUT-79C	174+57.97 RT	2.8%	.170 AC	
2,3	OUT-79D	176+00.00 RT	4.5%	.140 AC	
2,3	OUT-79E	177+00.00 RT	5.6%	.140 AC	
2,3	OUT-79F	178+00.00 RT	5.7%	140 AC	
2,3	OUT-79G	179+00.00 RT	5.3%	.130 AC	
2,3	OUT-79H	180+00.00 RT	4.3%	.220 AC	
2,3	OUT-79I	181+60.00 RT	4.2%	.260 AC	
2,3	OUT-80	183+75.00 LT	1.3%	.140 AC	
2,3	OUT-81	184+45.89 RT	4.8%	.450 AC	
2,3	OUT-82	199+50.34 LT	0.0%	9.920 AC	⑫
2,3	OUT-82A	199+80.00 LT	1.4%	.040 AC	
2,3	OUT-82B	199+55.00 LT	1.7%	.130 AC	
2,3	OUT-82C	200+25.00 LT	1.1%	.130 AC	
2,3	OUT-82D	203+00.00 LT	2.1%	.090 AC	
2,3	OUT-82E	203+00.00 LT	2.3%	.260 AC	
2,3	OUT-82F	205+00.00 LT	2.2%	.090 AC	
2,3	OUT-82G	205+00.00 LT	2.4%	.260 AC	
2,3	OUT-82H	199+92.01 LT	1.5%	.130 AC	
2,3	OUT-82I	199+60.00 LT	1.3%	.370 AC	
2,3	CUT-82J	200+20.00 LT	1.3%	.380 AC	
2,3	OUT-82K	200+55.00 RT	1.6%	.320 AC	
2,3	CUT-82L	200+70.00 RT	1.0%	.050 AC	
2,3	OUT-82M	200+83.79 RT	5.2%	1.850 AC	
2,3	OUT-82N	203+00.00 RT	2.1%	.090 AC	
2,3	OUT-82P	203+00.00 RT	2.3%	.270 AC	
2,3	OUT-82Q	205+00.00 RT	2.1%	.100 AC	
2,3	OUT-82R	205+00.00 RT	2.2%	.250 AC	
2,3	OUT-82S	207+00.00 RT	1.6%	.120 AC	
2,3	CUT-82T	207+00.00 RT	1.6%	.340 AC	
2,3	OUT-82U	199+95.00 RT	1.3%	.180 AC	
2,3	OUT-82V	199+65.00 RT	1.3%	.380 AC	
2,3	OUT-82W	199+95.00 RT	1.2%	.050 AC	
2,3	OUT-82X	199+65.00 RT	1.2%	.040 AC	
2,3	CUT-82Y	199+00.00 RT	1.3%	.090 AC	
2,3	OUT-82Z	197+00.00 RT	1.7%	.220 AC	
2,3	OUT-82AA	195+50.00 RT	1.9%	.260 AC	
2,3	OUT-82AB	194+00.00 RT	2.9%	.230 AC	
2,3	OUT-82AC	192+50.00 RT	2.9%	.210 AC	
2,3	OUT-82AD	191+00.00 RT	2.5%	.400 AC	
2,3	OUT-82AE	188+00.00 RT	1.7%	.550 AC	
2,3	OUT-82AF	197+00.00 LT	2.2%	.230 AC	
2,3	OUT-82AG	195+50.00 LT	2.6%	.210 AC	
2,3	OUT-82AH	194+00.00 LT	2.3%	.210 AC	
2,3	OUT-82AI	192+50.00 LT	2.3%	.190 AC	
2,3	OUT-82AJ	191+00.00 LT	2.3%	.170 AC	
2,3	OUT-82AK	189+50.00 LT	1.7%	.170 AC	
2,3	OUT-82AL	188+00.00 LT	1.0%	.400 AC	
2,3	OUT-82AM	207+00.00 LT	2.0%	.120 AC	
2,3	OUT-82AN	207+00.00 LT	1.5%	.340 AC	
2,3	OUT-83	199+95.34 LT	12.1%	2.720 AC	
1,2,3	OUT-84	6+94.77 RT	2.1%	.211 AC	
2,3	OUT-85	7+21.75 RT	3.9%	.495 AC	

③	INCLUDES 25.782 ACRES OF OFFSITE RUNOFF
④	INCLUDES 1.679 ACRES OF UNDISTURBED AREA
⑤	INCLUDES 7.088 ACRES OF OFFSITE RUNOFF
⑥	INCLUDES 3.356 ACRES OF OFFSITE RUNOFF AND 0.468 ACRES OF UNDISTURBED AREA
⑦	INCLUDES 12.810 ACRES OF OFFSITE RUNOFF AND 3.614 ACRES OF UNDISTURBED AREA
⑧	INCLUDES 14.622 ACRES OF OFFSITE RUNOFF
⑨	INCLUDES 2.865 ACRES OF UNDISTURBED AREA
⑩	INCLUDES 4.966 ACRES OF OFFSITE RUNOFF
⑪	INCLUDES 5.014 ACRES OF OFFSITE RUNOFF
⑫	INCLUDES 3.932 ACRES OF OFFSITE RUNOFF

SEALED BY

JASON P. SIVERLING
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109034
STATE OF TENNESSEE

01/16/2019

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STAGE 3 OUTFALL AREAS

SCALE: N.T.S.

STAGE 3

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