

SWPPP INDEX OF SHEETS

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

1. **SWPPP REQUIREMENTS (3.0)**
- 1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT
1.1.1. 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 (EPSC)
☒ CERTIFIED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
☒ 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 GEOTECHNICAL 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 (6.4.1)? ☐ 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 (5.4.1.9)?
☐ YES (CHECK ALL THAT APPLY BELOW) ☐ NO
☐ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (EPSC)
☐ 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.b); REFER TO TITLE SHEET
- 2.2. PROJECT DESCRIPTION (3.5.1.a):
TITLE: S.R. 141, FROM SOUTH OF SPRING CREEK TO NORTH OF LOVERS LANE
COUNTY: WILSON
PIN: 103203.02
- 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) 20E-29H, 29J-29L, DRAINAGE MAP SHEET(S) 22-Z2, 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): 32.03 ACRES
- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 14.41 ACRES
- 2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.
- 2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☒ YES ☐ NO
IF YES, LIST THE CORRESPONDING PLAN SHEET: 1B, 2H
- 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 (3.5.1.1) (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)	
A ₉ - AGEES SILTY CLAY LOAM	D	3.7	0.37	
BB2 - BRADYVILLE SILT LOAM	C	9.2	0.43	
B ₉ B - BYLER SILT LOAM	C	1.4	0.43	
Ea - EAGLEVILLE SILTY CLAY LOAM	D	2.1	0.28	
GaC - GLADEVILLE ROCK OUTCROP COMPLEX	D	7.2	0.10	
LaB - LOMOND SILT LOAM	B	17.7	0.37	
NeB - NESBITT SILT LOAM	C	0.1	0.43	
TaB2 - TALBOTT SILT LOAM	C	40.9	0.43	
TaC2 - TALBOTT SILT LOAM	C	10.2	0.43	
TiC2 - TALBOTT SILT LOAM	C	7.5	0.43	

- 2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES ☒ NO
- 2.12.1. IF YES TO SECTION 2.12, HAVE APR LOCATIONS BEEN IDENTIFIED AND REPORTED? ☐ 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 (100T SPI/0.7L 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 (ROADS, SHOULDERS, ETC.)	5.17	15.7		0.9
PERVIOUS (GRASS, FORESTS, ETC.)	27.76	84.3		0.39
WEIGHTED C-FACTOR =				0.47

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(Ac)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS (ROADS, SHOULDERS, ETC.)	15.37	46.7		0.9
PERVIOUS (GRASS, FORESTS, ETC.)	17.56	53.3		0.40
WEIGHTED C-FACTOR =				0.63

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 PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE ORDER OF STAGING OF PERMANENT AND TEMPORARY EPSC PLANS, HAS BEEN REVIEWED BY THE ENGINEER AND CONTRACTOR. THE ORDER OF SHALL INCORPORATE AND SUPPLEMENT AS ACCEPTABLE. THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DETECTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.
- 3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 1B, 2G, 2H, 2J)
- 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, OR GRUBBING. INITIAL EPSC MEASURES SHALL BE INSTALLED 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.i, 3.5.1.k)
- 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 EDR	NAME OF RECEIVING STATE WATER	3000 WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 51 FLOWLINE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	UNNAMED TRIBUTARY TO SPRING CREEK	NO	NO	YES	YES
STR-2	UNNAMED TRIBUTARY TO SPRING CREEK	NO	NO	YES	YES
	SPRING CREEK	NO	NO	NO	YES
	WALKER BRANCH	NO	NO	NO	YES

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

☐ YES ☒ NO
BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.1).
IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.
IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

☐ 60-FOOT 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. THE BUFFER ZONE SHALL BE ESTABLISHED 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-FOOT 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 SHALL 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? (8.0)

☒ YES ☐ NO
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. SEDIMENT CONTROL MEASURES SHOULD 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 EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE BEST MANAGEMENT PRACTICES SHOULD BE SHOWN, TYPED, MEASURED AND DOCUMENTED WITHIN THE SWPPP. REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHEN 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)
WWC-1/EPH-1	YES	YES
WWC-2/EPH-2	NO	YES
WWC-3/EPH-3	YES	YES

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) 205, 201, 206, 202.

4.2.2. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR WOTUS (EPHEMERAL) DUE TO A USAGE PERMIT? ☐ YES ☒ NO

4.3. OUTFALL INFORMATION

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

4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)? ☒ 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 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 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 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)
N/A	N/A	N/A	N/A	N/A

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

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

☐ 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.g)

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) 18.

5. **EROSION PREVENTION AND SEDIMENT CONTROL EPSC MEASURES** (3.5.3)

5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).

5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)

5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (3.5.3.3)? ☒ YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24 HOUR STORM EVENT (3.5.3.3, 5.4.1.e).

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 16 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 AREAS 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). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS AND PERMITS TO DETERMINE IF THE PROJECT WILL BE MAINTAINED ON SITE WITHIN THE DOCUMENTATION AND PERMITS' BINDER.
- 5.12. EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 2 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.5).
- 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 MINOR TO MAJOR SEDIMENT INTO THE ADJOINING PROPERTY OR INTO THE TERMS OF THE STREETS OR TO FOUNDATIONS 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., FLUTIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED TO A LEVEL SUFFICIENT TO PREVENT THE SEDIMENT FROM 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 STATEUS 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 ENHANCEMENT TO THE CONSTRUCTION PROJECT) SHALL BE ESTABLISHED TO PREVENT 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.28 (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 THROUGH A PIPE, WELL, VEGETATED AND/OR LINED CHANNEL, 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 EROSION OR SEDIMENT TRANSPORT. THE RECEIVING WATER 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 OTHER DEWATERING STRUCTURES SHALL BE DESIGNED WITH 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 REEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1h).
- 5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY STABILIZATION MEASURES 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. UNPAKED 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 FERTILIZER TO PORTIONS OF SLOPES THAT SHOULD BE MAINTAINED FOR pH BUFFER VALUE, PHOSPHORUS, 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 (3.4.1.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 MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1b).
- 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 AND STATE OF TENNESSEE TOXICITY TESTS AND THAT THE FLOCCULANT MEETS ALL 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 DETERMINE THE 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 NO FLOCCULANT IS APPLIED 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 FLOCCULANT SPREADER. FLOCCULANT SHOULD BE 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. FLOCCULANT APPLICATION RATE WILL BE DEPENDENT ON SOIL TYPE. SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☒ YES ☐ NO
IF YES, THE FOLLOWING APPLY:

- 7.1. STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.
- 7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNSLOPE 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 CONTAMINANT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO PREVENT EROSION AND SEDIMENTATION. THE STATE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXPOSED EARTH AREAS 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/US.

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. TRENCH EPSC MEASURES SHALL BE BACKFILLED DAILY AND BE BACKFILLED TO THE TOP OF THE TRENCH. EPSC MEASURES SHALL BE 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 ON-SITE 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 UNADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDEC AND THE TDOT ENVIRONMENTAL DIVISION FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (3.5.8)

8.1.1. TDOT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE CONDUCT OF INSPECTIONS, MAINTENANCE AND REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.1):

8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTION 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. 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" INSPECTION) (3.5.1.9).

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 (3.5.8.2.1). INSPECTIONS SHALL BE CONDUCTED AT A MINIMUM OF ONE 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 SEDIMENTATION. INSPECTIONS SHALL INCLUDE 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. INSPECTIONS SHALL BE CONDUCTED AT LEAST 72 HOURS APART. 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 EROSION, OR EROSION OF THE TRENCH OR EXISTING EARTH ON 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 (IE: TDEC CONSTRUCTION-RELATED ACTIVITY AND SECTION 269 PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10" INSPECTION).

8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTIONS. INSPECTIONS WILL BE RECORDED AND DAILY INSPECTION LOGS WILL BE MAINTAINED AND IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.a AND 3.5.8.2.b).

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 (3.5.8.2.1).

8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTION REPORTS, FOR SATISFYING THE REQUIREMENTS OF THE TDEC AND TDOT STANDARDS. 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 FOUR WEEKS OF THE INSPECTION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT DOCUMENTATION TO THE TDOT PROJECT ENGINEER. THE TDOT PROJECT ENGINEER SHALL BE REQUIRED TO SIGN THE EPSC INSPECTION REPORT, AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (3.5.8.2.g)

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/US.

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING 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 SEEDER 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.

☒ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.

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

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, INCLUDING THE SWPPP, HAVE BEEN REVIEWED BY ME OR UNDER MY 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)

ANTHONY MYERS
PRINTED NAME

TRANSPORTATION MANAGER 2

TITLE

10/24/2017
DATE

15. SECONDARY PERMITTEE OPERATOR CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND MY ACQUISITION OF THE PROJECT RECORDS, I AM RESPONSIBLE FOR ASSUREING THIS DOCUMENT AND SWPPP, INCLUDING THE OPERATOR'S SIGNATURE, IS ACCURATE. I AM AWARE THAT THIS NOT, 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 OF THE NPDES PERMIT, AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4). THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (9.0)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT ACTIVITIES THAT REQUIRE PERMITTING 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.

OUTFALL TABLE (3.5.1.d.5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUTFALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	STAGE 4 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOE EBR LABEL) OR OTHER	COMMENTS
1-4	OUT-1		305+30 RT	2.26	4.28	4.28	4.28	4.28	N/A		
1	OUT-2		306+00 LT	0.31	0.24				N/A		
1-4	OUT-3		329+85 LT	3.83	1.19	1.19	1.19	1.19	N/A		
1-2	OUT-4		341+50 RT	2.61	1.86	1.86			N/A	STR-1	
1-2	OUT-5		341+65 RT	1.97	0.13	0.13			N/A	STR-1	
1-2	OUT-6		153+05 RT	2.57	4.79	4.79			N/A	STR-1	
1-2	OUT-7		153+10 LT	2.93	3.44	3.44			N/A	STR-1	
1	OUT-8		341+60 RT	2.98	0.26				N/A	STR-1	
1	OUT-9		342+30 RT	2.65	0.60				N/A	STR-1	
1	OUT-10		351+60 LT	4.51	2.77				N/A		
1	OUT-11		358+30 LT	3.33	0.25				N/A	STR-2	
1	OUT-12		358+45 RT	3.31	2.29				N/A	WWC-1/EPH-1	
2	OUT-12		358+45 RT	5.33		2.97				WWC-1/EPH-1	
1	OUT-13		358+65 LT	2.54	1.66				N/A	STR-2	
1	OUT-14		380+65 LT	2.46	0.99				N/A	WWC-3/EPH-3	
2	OUT-14		380+65 LT	1.74		1.14			N/A	WWC-3/EPH-3	
2-4	OUT-14A		379+55 LT	4.14	0.012	0.012	0.012	0.012	N/A	WWC-3/EPH-3	
2-4	OUT-14B		378+50 LT	2.50	0.29	0.29	0.29	0.29	N/A	WWC-3/EPH-3	
2-4	OUT-14C		376+50 LT	1.15	0.20	0.20	0.20	0.20	N/A	WWC-3/EPH-3	
2-4	OUT-14D		380+65 LT	1.72	0.13	0.13	0.13	0.13	N/A	WWC-3/EPH-3	
2-4	OUT-14E		380+65 LT	1.15	0.09	0.09	0.09	0.09	N/A	WWC-3/EPH-3	
3-4	OUT-14F		379+55 RT	2.07		0.10	0.10	0.10	N/A	WWC-3/EPH-3	
3-4	OUT-14G		380+90 RT	0.89		0.14	0.14	0.14	N/A	WWC-3/EPH-3	
1-4	OUT-15		103+55 RT	2.79	0.83	0.83	0.83	0.83	N/A		
3-4	OUT-15A		102+55 RT	3.67		0.03	0.03	0.03	N/A		
3-4	OUT-15B		102+30 RT	4.79		0.12	0.12	0.12	N/A		
3-4	OUT-15C		102+30 LT	5.54	0.09	0.09	0.09	0.09	N/A		
3-4	OUT-15D		100+90 LT	6.09		0.06	0.06	0.06	N/A		
3-4	OUT-15E		386+50 RT	6.58	0.04	0.04	0.04	0.04	N/A		
3-4	OUT-15F		389+00 RT	1.06		0.28	0.28	0.28	N/A		
3-4	OUT-15G		391+20 RT	0.56		0.22	0.22	0.22	N/A		
2-4	OUT-15H		381+15 LT	2.53		0.12	0.12	0.12	N/A		
2-4	OUT-15I		390+15 LT	2.85		0.14	0.14	0.14	N/A		
2-4	OUT-15J		388+80 LT	1.54		0.11	0.11	0.11	N/A		

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

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUTFALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	STAGE 4 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOOT EBR LABEL) OR OTHER	COMMENTS
2-4		OUT-15K	387+90 LT	2.27		0.09	0.09	0.09	N/A		
2-4		OUT-15L	387+15 LT	2.06		0.06	0.06	0.06	N/A		
2-4		OUT-15M	386+60 LT	2.63		0.05	0.05	0.05	N/A		
2-4		OUT-15N	386+40 LT	1.08		0.17	0.17	0.17	N/A		
3-4		OUT-15O	100+75 RT RUTLEDGE LN	3.52		0.10	0.10	0.10	N/A		
3-4		OUT-15P	385+30 RT	0.92		0.13	0.13	0.13	N/A		
3-4		OUT-15Q	389+00 RT	0.72		0.13	0.13	0.13	N/A		
3-4		OUT-15R	382+75 RT	1.71		0.19	0.19	0.19	N/A		
2-4		OUT-15S	385+30 LT	1.47		0.09	0.09	0.09	N/A		
2-4		OUT-15T	379+80 LT	1.81		0.17	0.17	0.17	N/A		
2-4		OUT-15U	383+70 LT	1.09		0.25	0.25	0.25	N/A		
2-4		OUT-15V	382+30 LT	1.62		0.13	0.13	0.13	N/A		
1-4	OUT-16		103+40 LT RUTLEDGE LN	3.08	2.73	2.73	2.73	2.73	N/A		
1	OUT-17		391+85 LT	3.47	3.32				N/A		
2-4	OUT-17		391+90 LT	1.48		1.59	1.59	1.59	N/A		
1-4	OUT-18		121+80 RT VANCE LN	4.22	0.91	0.91	0.91	0.91	N/A		
1-4	OUT-19		121+80 LT VANCE LN	3.23	0.18	0.18	0.18	0.18	N/A		
2-4	OUT-20		306+50 LT	1.51		0.70	0.70	0.70	N/A		
2-4	OUT-21		341+20 LT	5.56		0.03	0.03	0.03	N/A	STR-1	
2-4	OUT-22		341+65 LT	1.37		0.17	0.24	0.24	N/A	STR-1	
2-4		OUT-22A	341+30 LT	1.12		0.10	0.10	0.10	N/A	STR-1	
2-4		OUT-22B	341+00 LT	3.77		0.11	0.11	0.11	N/A	STR-1	
2-4		OUT-22C	340+70 LT	1.54		0.05	0.05	0.05	N/A	STR-1	
2-4		OUT-22D	338+85 LT	2.14		0.08	0.08	0.08	N/A	STR-1	
2-4		OUT-22E	337+40 LT	1.22		0.17	0.17	0.17	N/A	STR-1	
2-4		OUT-22F	335+85 LT	1.05		0.27	0.27	0.27	N/A	STR-1	
2-4	OUT-23		351+80 LT	2.99		0.28	0.28	0.28	N/A		
2-4	OUT-24		356+45 LT	1.81		0.04	0.04	0.04	N/A	STR-2	
2-4		OUT-24A	357+80 LT	2.28		0.06	0.06	0.06	N/A	STR-2	
2-4		OUT-24B	357+30 LT	2.31		0.05	0.05	0.05	N/A	STR-2	
2-4		OUT-24C	356+85 LT	1.26		0.07	0.07	0.07	N/A	STR-2	
2-4		OUT-24D	356+40 LT	1.34		0.05	0.05	0.05	N/A	STR-2	
2-4		OUT-24E	355+60 LT	3.88		0.05	0.05	0.05	N/A	STR-2	
2-4		OUT-24F	124+20 LT VANCE LN	3.64		0.08	0.08	0.08	N/A	STR-2	

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

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUTFALL	STATION CL LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	STAGE 4 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
2-4		OUT-24G	124+20 RT VANCE LN	1.68		0.12	0.12	0.12	N/A	STR-2	
2-4		OUT-24H	354+40 LT	1.24		0.06	0.06	0.06	N/A	STR-2	
2-4	OUT-25		358+50 LT	2.05		0.05	0.05	0.05	N/A	STR-2	
2-4		OUT-25A	359+00 LT	2.64		0.20	0.20	0.20	N/A	STR-2	
2-4		OUT-25B	361+00 LT	3.38		0.26	0.26	0.26	N/A	STR-2	
2-4		OUT-25C	363+50 LT	2.92		0.30	0.30	0.30	N/A	STR-2	
2-4		OUT-25D	366+50 LT	3.06		0.22	0.22	0.22	N/A	STR-2	
2-4		OUT-25E	369+35 LT	4.55		0.51	0.51	0.51	N/A	STR-2	
2-4		OUT-25F	372+00 LT	2.33		0.41	0.41	0.41	N/A	STR-2	
2-4		OUT-25G	373+90 LT	0.85		0.35	0.35	0.35	N/A	STR-2	
2-4	OUT-26		368+40 LT	8.71		0.20	0.20	0.20	N/A		
3-4	OUT-27		341+90 RT	1.40		0.09	0.09	0.09	N/A	STR-1	
3-4		OUT-27A	341+30 RT	2.27		0.03	0.03	0.03	N/A	STR-1	
3-4		OUT-27B	341+00 RT	3.21		0.03	0.03	0.03	N/A	STR-1	
3-4		OUT-27C	340+70 RT	2.89		0.05	0.05	0.05	N/A	STR-1	
3-4		OUT-27D	340+25 RT	2.55		0.08	0.08	0.08	N/A	STR-1	
3-4		OUT-27E	150+60 LT AFRICA DR	1.62		0.03	0.03	0.03	N/A	STR-1	
3-4		OUT-27F	151+25 LT	1.58		0.05	0.05	0.05	N/A	STR-1	
3-4		OUT-27G	151+40 LT	1.33		0.07	0.07	0.07	N/A	STR-1	
3-4		OUT-27H	152+40 RT	2.96		0.02	0.02	0.02	N/A	STR-1	
3-4		OUT-27I	153+00 RT AFRICA DR	1.55		0.03	0.03	0.03	N/A	STR-1	
3-4		OUT-27J	150+50 RT AFRICA DR	1.14		0.04	0.04	0.04	N/A	STR-1	
3-4		OUT-27K	338+85 RT	1.92		0.30	0.30	0.30	N/A	STR-1	
3-4		OUT-27L	336+90 RT	0.71		0.18	0.18	0.18	N/A	STR-1	
3-4		OUT-27M	335+45 RT	1.67		0.32	0.32	0.32	N/A	STR-1	
3-4	OUT-28		342+20 RT	1.61		0.21	0.21	0.21	N/A	STR-1	
3-4	OUT-29		342+20 RT	1.82		0.09	0.09	0.09	N/A	STR-1	
3-4		OUT-29A	343+10 RT	2.05		0.17	0.17	0.17	N/A	STR-1	
3-4		OUT-29B	343+10 RT	2.02		0.20	0.20	0.20	N/A	STR-1	
3-4		OUT-29C	344+70 RT	3.22		0.23	0.23	0.23	N/A	STR-1	
3-4		OUT-29D	344+70 RT	2.31		0.57	0.57	0.57	N/A	STR-1	
3-4		OUT-29E	347+10 RT	2.64		0.20	0.20	0.20	N/A	STR-1	
3-4		OUT-29F	347+10 RT	3.17		0.33	0.33	0.33	N/A	STR-1	
3-4		OUT-29G	349+10 RT	1.29		0.15	0.15	0.15	N/A	STR-1	
3-4		OUT-29H	350+80 RT	0.51		0.16	0.16	0.16	N/A	STR-1	

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

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUTFALL	STATION CL LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	STAGE 4 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOE EBR LABEL) OR OTHER	COMMENTS
3-4	OUT-30		358+40 RT	1.22			0.06	0.06	N/A		
3-4		OUT-30A	357+80 RT	3.56			0.06	0.06	N/A		
3-4		OUT-30B	357+25 RT	4.98			0.06	0.06	N/A		
3-4		OUT-30C	356+85 RT	1.63			0.06	0.06	N/A		
3-4		OUT-30D	356+40 RT	1.78			0.11	0.11	N/A		
3-4		OUT-30E	355+60 RT	3.23			0.09	0.09	N/A		
3-4		OUT-30F	354+80 RT	1.96			0.09	0.09	N/A		
3-4		OUT-30G	354+05 RT	3.47			0.09	0.09	N/A		
3-4		OUT-30H	353+35 RT	1.87			0.10	0.10	N/A		
3-4	OUT-31		358+55 RT	1.51			0.05	0.05	N/A		
3-4		OUT-31A	359+00 RT	2.35			0.21	0.21	N/A		
3-4		OUT-31B	361+00 RT	3.48			0.32	0.32	N/A		
3-4		OUT-31C	361+00 RT	4.78			4.14	4.14	N/A		
3-4		OUT-31D	364+25 RT	3.87			0.15	0.15	N/A		
3-4		OUT-31E	364+25 RT	3.79			0.19	0.19	N/A		
3-4		OUT-31F	366+00 RT	3.58			0.15	0.15	N/A		
3-4		OUT-31G	367+70 RT	3.08			0.16	0.16	N/A		
3-4		OUT-31H	367+70 RT	3.49			0.07	0.07	N/A		
3-4		OUT-31I	369+35 RT	3.08			0.25	0.25	N/A		
3-4		OUT-31J	369+35 RT	3.92			0.09	0.09	N/A		
3-4		OUT-31K	371+60 RT	1.58			0.49	0.49	N/A		
3-4		OUT-31L	371+60 RT	1.41			0.49	0.49	N/A		
3-4	OUT-32		358+30 RT	4.28			0.08	0.08	N/A		
3-4	OUT-33		358+65 RT	3.54			0.17	0.17	N/A		
2-4	OUT-34		341+75 LT	1.03		0.16	0.16	0.16	N/A	STR-1	
2-4		OUT-34A	343+10 LT	3.73		0.39	0.39	0.39	N/A	STR-1	
2-4		OUT-34B	346+60 LT	3.66		0.24	0.24	0.24	N/A	STR-1	
2-4		OUT-34C	349+15 LT	1.29		0.34	0.34	0.34	N/A	STR-1	
1-2	OUT-35		358+55 RT	2.96	4.42	4.42			N/A	WWC-1/EPH-1	
1	OUT-36		368+30 LT	7.84	1.76				N/A	WWC-2/EPH-2	
1	OUT-37		380+80 RT	1.96	0.34				N/A	WWC-3/EPH-3	
1	OUT-38		391+85 RT	2.04	0.38				N/A		
2	OUT-38		380+65 RT	1.66		0.41			N/A	WWC-3/EPH-3	
2-4	OUT-39		391+85 RT	1.83		0.52	0.52	0.52	N/A		
3-4	OUT-40		342+40 RT	1.93			0.20	0.20	N/A	STR-1	

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

Index of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2C	TYPICAL SECTIONS
3-3C	PROPERTY MAPS AND R.O.W. NOTES
3P-3E	EXISTING UTILITIES
3P-3E	CONTROL POINTS
4-10	PRESENT LAYOUTS
4A-10A	R.O.W. DETAIL SHEETS
4B-10B	PROPOSED LAYOUTS
4B-10B	PROPOSED SHEETS
11-13	SIDE ROAD PROFILES
14-26	PRIVATE DRIVE PROFILES
27	CULVERT CROSS-SECTIONS
28	WATERWAY CROSS-SECTIONS
29-29C	DRAINAGE MAPS
30-30F	EROSION PREVENTION AND SEDIMENT CONTROL PLAN
31-16	CROSS SECTIONS

95014-2221-14
END PROJECT STP-141(18) (R.O.W.)
STA. 391+85.00

FOR
R.O.W.
ONLY



SPECIAL NOTES

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT ROAD SP. SV. 2 SHANE HESTER, P.E.
DESIGNER ASD HANRAMI, P.E.
P.E. NO. 95014-1218-14
PIN NO. 103203.02

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

WILSON COUNTY

STATE ROUTE 141
FROM: SOUTH OF SPRING CREEK
TO: NORTH OF LOVERS LANE
R.O.W.

STATE HIGHWAY NO. 141 F.A.H.S. No. 141



SCALE: 1"=1 MILE

RIGHT OF WAY LENGTH 1.534 MILES

TENN.	YEAR	SHEET NO.
	2009	1
FED. AID PROJ. NO.	STP-141(18)	
STATE PROJ. NO.	95014-2221-14	



PROJECT LOCATION

95014-2221-14
BEGIN PROJECT STP-141(18) (R.O.W.)
STA. 310+84.51

NO EXCLUSIONS
NO EQUATIONS



APPROVED: Paul D. [Signature] CHIEF ENGINEER
DATE: _____
APPROVED: Shane Hester COMMISSIONER
DATE: _____

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE: _____

TRAFFIC DATA	
ADT (2010)	5710
ADT (2030)	8420
DHV (2030)	925
D	65 - 35
T (ADT)	7 %
T (DHV)	5 %
V	50 MPH

Index Of Sheets
SEE SHEET NO. 1A

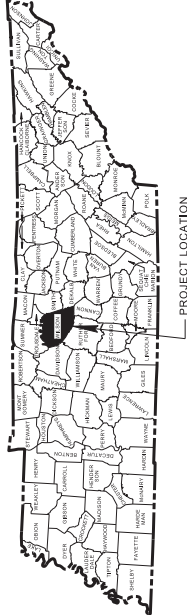
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

WILSON COUNTY

STATE ROUTE 141
FROM: SOUTH OF SPRING CREEK
TO: NORTH OF LOVERS LANE

CONSTRUCTION
GRADING, DRAINAGE, PAVING, WIDENING, GUARDRAIL, AND STRIPING
STATE HIGHWAY NO. 141 F.A.H.S. NO. N/A

TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	STP-141(18)	
STATE PROJ. NO.	95014-3224-14	



PROJECT LOCATION

95014-3224-14
BEGIN PROJECT NO. STP-141(18) CONSTRUCTION

STA. 306+00.00
N 698025.8064 E 1895227.4945

NO EXCLUSIONS



95014-3224-14
END PROJECT NO. STP-141(18) CONSTRUCTION

STA. 393+50.00
N 691174.9875 E 1889949.2851

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, LATEST EDITION, AND ANY ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT ROAD SP. SV. 2 : BRADLEY MARTIN, P.E.
DESIGNER : JESSE HOOVER
CHECKED BY : FRANK RABENAR

P.E. NO. 95014-1218-14 (DESIGN)
PIN NO. 103203.02

ROADWAY LENGTH 1.657 MILES
BRIDGE LENGTH 0.000 MILES
BOX BRIDGE LENGTH 0.000 MILES
PROJECT LENGTH 1.657 MILES

SCALE: 1"= 1 MILE

SURVEY	12-04-2006	TRAFFIC DATA
ADT (2019)	6760	
ADT (2039)	11480	
DHV (2039)	926	
D	80 - 40	
T (ADT)	6 %	
T (DHV)	4 %	
V	45 MPH	

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS OBTAINED 2004 USING GEODIS MODEL AND DATUM ADJUSTMENT FACTOR OF 1.00006



APPROVED: PAUL D. DEGGES, CHIEF ENGINEER
DATE: _____
APPROVED: JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	DATE
APPROVED:	DIVISION ADMINISTRATOR

INDEX

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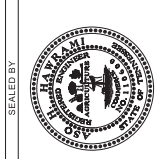
NOTE: THE ALPHABETICAL LETTERS "I, O, AND Q" ARE NOT USED IN NUMBERING OF SHEETS. 29A NOT USED

ROADWAY DESIGN STANDARDS

DWG. NO	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION	DWG. NO	REV.	DESCRIPTION
RD-L-1	10-26-94	STANDARD LEGEND	D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS	D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
RD-L-3	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING	D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
RD-L-4	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING	D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-CB-12SR	03-11-14	STANDARD 4'X4' SQUARE CONCRETE NO. 12 CATCH BASIN
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-CB-12SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 12 CATCH BASIN
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
RD-L-8		STANDARD LEGEND FOR NATURAL STREAM DESIGN	D-CB-12SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT	D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION	D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES	D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION	D-CB-14SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 14 CATCH BASIN
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS	D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS	D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS	D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS	D-CB-42SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS	D-CB-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS	D-CB-43R	03-11-14	STANDARD PRECAST CIRCULAR NO. 43R CATCH BASIN
RD01-TS-3A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS	D-CB-43SB	03-11-14	STANDARD 8' X 4' RECTANGULAR CONCRETE NO. 43SB CATCH BASIN
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS	D-CB-43SC	03-11-14	STANDARD 8' X 5'2" RECTANGULAR CONCRETE NO. 43SC CATCH BASIN
RD01-TS-6	10-10-16	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER	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
RD01-TS-6B		TYPICAL CURB AND GUTTER FOR HIGH SPEED SUBURBAN ROADWAYS	D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
DRAINAGE - CULVERTS AND ENDWALL			D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
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 4	10-10-16	STRAIGHT CONCRETE ENDWALL			
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 CB 12LP	06-01-12	LOW PROFILE 96" X 96" SQUARE CONCRETE NO. 12LP CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)			
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN			



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

STANDARD ROADWAY DRAWINGS

ROADWAY AND PAVEMENT APPURTENANCES

RP-D-15	34-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	34-08-16	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-H-9	10-10-16	PARALLEL CURB RAMP IN CURVE
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-NMC-10	37-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-PMR-1	35-27-01	STANDARD DETAILS FOR PROPOSED PERMANENT MAINTENANCE RAMP
RP-R-1	35-27-01	STANDARD RAMPS TO SIDE ROADS
RP-S-7	32-05-16	DETAILS FOR CONCRETE SIDEWALKS

SAFETY APPURTENANCES AND FENCE

S-F-1	35-24-12	HIGH VISIBILITY FENCE
S-RP-2	32-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS

TRAFFIC CONTROL APPURTENANCES

T-FAB-1	35-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	37-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	10-10-16	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	37-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-11	12-01-14	SIGNING AND PAVEMENT MARKINGS3 FOR BICYCLE LANE OR ROUTES
T-M-12	31-30-15	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES ON URBAN ROADS
T-M-13		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
T-M-16	12-1-14	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-PBR-1	33-16-17	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	33-16-17	DETAILS FOR FLEXIBLE DELINEATORS
T-WZ-10	34-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	33-05-17	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-18	33-06-17	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

DWG. NO	REV.	DESCRIPTION
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
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-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	1A1



PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISION	DESCRIPTION	STA. / LOCATION
EDEC001	ENVIRONMENTAL DIVISION; ECOLOGY	In order to protect the Indiana bat (<i>Myotis grisescens</i>) and Northern long-eared bat (<i>M. septentrionalis</i>) the Fish & Wildlife Service requires that TDOT restrict tree cutting for this project from October 15-March 31st. No tree cutting is allowed from April 1st-October 14th.	ALL AREAS WITHIN ROW
ROWE001	RIGHT OF WAY, ENGINEERING	CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE TO PROPERTY OWNER OF TRACT NO. 61 PRIOR TO ANY BLASTING ACTIVITIES NEAR THE VICINITY OF THIS TRACT.	TRACT NO. 61

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	1B



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PROJECT
COMMITMENTS

ESTIMATED ROADWAY QUANTITIES				52946-3411-04
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1	
201-01	CLEARING AND GRUBBING	LS	1	
202-02 01	REMOVAL OF PIPE (12" RCP, 320x40)	I.F.	25	
202-02 02	REMOVAL OF PIPE (24" RCP, 341x50)	L.F.	31	
202-02 03	REMOVAL OF PIPE (18" RCP, 351x60)	L.F.	26	
202-02 04	REMOVAL OF PIPE (24" RCP, 358x40)	L.F.	28	
202-02 05	REMOVAL OF PIPE (15" CMP, 380x70)	L.F.	27	
202-02 06	REMOVAL OF PIPE (15" CMP, 385x30)	L.F.	29	
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	46611	
203-02 01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	4200	
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	12326	
203-06	WATER	M.G.	145	
203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	4986	
204-06	FOUNDATION FILL MATERIAL	C.Y.	113	
209-02 07	18" TEMPORARY SLOPE DRAIN	L.F.	378	
209-03 22	FILTER SOCK (18 INCH)	L.F.	1250	
209-05	SEDIMENT REMOVAL	C.Y.	708	
209-08 02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	2403	
209-08 07	ROCK CHECK DAM PER	EACH	101	
209-08 08	ENHANCED ROCK CHECK DAM	EACH	34	
209-08 09	FILTER SOCK CHECK DAM	EACH	101	
209-09 01	SANDBAGS	BAG	1500	
209-09 03	SEDIMENT FILTER BAG (15 X 15)	EACH	12	
209-10 20	TEMPORARY SEDIMENT TRAP	C.Y.	667	
209-20 03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	160	
209-40 30	CATCH BASIN PROTECTION (TYPE A)	EACH	14	
209-40 33	CATCH BASIN PROTECTION (TYPE D)	EACH	80	
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	51287	
303-01 01	GRAVULAR BACKFILL (ROADWAY)	TON	1160	
303-10 01	MINERAL AGGREGATE (SIZE 57)	TON	1614	
307-01 01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	11645	
307-01 08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	8146	
307-01 20	ASP. CONC. MIX(PG64-22) (BPMB-HM) GR. A-S	TON	7224	
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	92	
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	364	
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	54	
411-01 07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	535	
411-01 10	ACS MIX(PG64-22) GRADING D	TON	4445	
411-12 03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	1	
607-03 02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	7110	
607-05 02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1767	
607-06 02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	693	
607-39 01	15" PIPE CULVERT (SIDE DRAIN)	L.F.	94	
607-39 02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	898	

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	52946-3411-01 QUANTITY
195-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
201-01	CLEARING AND GRUBBING	LS	1
202-02 01	REMOVAL OF PIPE (12" RCP, 320+40)	I F	25
202-02 02	REMOVAL OF PIPE (24" RCP, 341+50)	L.F.	31
202-02 03	REMOVAL OF PIPE (18" RCP, 351+60)	L.F.	26
202-02 04	REMOVAL OF PIPE (24" RCP, 358+40)	L.F.	28
202-02 05	REMOVAL OF PIPE (15" CMP, 380+70)	L.F.	27
202-02 06	REMOVAL OF PIPE (15" CMP, 385+30)	L.F.	29
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	48611
203-02 01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	4200
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	12326
203-06	WATER	M.G.	145
203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	4886
204-06	FOUNDATION FILL MATERIAL	C.Y.	119
209-02 07	18" TEMPORARY SLOPE DRAIN	L.F.	378
209-02 22	FILTER SOCK (18 INCH)	L.F.	1250
209-05	SEDIMENT REMOVAL	C.Y.	708
209-08 02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	2403
209-08 07	ROCK CHECK DAM PER	EACH	101
209-08 08	ENHANCED ROCK CHECK DAM	EACH	34
209-08 09	FILTER SOCK CHECK DAM	EACH	101
209-09 01	SANDBAGS	BAG	1500
209-09 03	SEDIMENT FILTER BAG (15' X 15')	EACH	12
209-10 20	TEMPORARY SEDIMENT TRAP	C.Y.	667
209-20 03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	160
209-40 30	CATCH BASIN PROTECTION (TYPE A)	EACH	14
209-40 33	CATCH BASIN PROTECTION (TYPE D)	EACH	80
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	51287
303-01 01	GRANULAR BACKFILL (ROADWAY)	TON	1160
303-10 01	MINERAL AGGREGATE (SIZE 57)	TON	1614
307-01 01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	11645
307-01 08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	8146
307-01 20	ASP. CONC. MIX(PG64-22) (BPMB-HM) GR. A-S	TON	7224
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	92
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	364
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	54
411-01 07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	535
411-01 10	ACS MIX(PG64-22) GRADING D	TON	4445
411-12 03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	1
607-03 02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	7110
607-05 02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1707
607-06 02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	693
607-39 01	15" PIPE CULVERT (SIDE DRAIN)	L.F.	94
607-39 02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	898

FOOTNOTES

1. INCLUDES REMOVAL OF EXISTING SIDE DRAINS.
2. INCLUDES 15 CY TO BE USED FOR TEMPORARY CONSTRUCTION EXITS. SEE SPECIAL GRADING NOTES 1-5 ON SHEET 21.
3. INCLUDES 1050 TONS TO BE USED FOR STABILIZATION OF SINKHOLE AT ROUGHLY STATION 359+00 OFFSET 70 FEET LEFT AND 3150 TONS TO BE USED FOR TEMPORARY SINKHOLES AT THE DISCRETION OF THE PROJECT ENGINEER.
4. SEE SPECIAL GRADING NOTES 1-5 ON SHEET 21.
5. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
6. TO BE USED AS DIRECTED BY THE ENGINEER. INCLUDES 2000 TONS TO BE USED FOR TEMPORARY TRAFFIC CONTROL PHASE 1. SEE SHEET 2F FOR DETAILS.
7. TO BE USED FOR BOX CULVERTS.
8. INCLUDES 74 TONS TO BE USED FOR SEDIMENT FILTER BAGS. 385 TONS TO BE USED FOR STABILIZATION OF SINKHOLE AT ROUGHLY STATION 359+00 OFFSET 70 FEET LEFT AND 1150 TONS TO BE USED FOR STABILIZATION OF TEMPORARY SINKHOLES AT THE DISCRETION OF THE PROJECT ENGINEER.
9. INCLUDES 883 TONS TO BE USED FOR TEMPORARY TRAFFIC CONTROL PHASE 1. SEE SHEET 2F FOR DETAILS.
10. INCLUDES 8 TONS TO BE USED FOR TEMPORARY TRAFFIC CONTROL PHASE 1. SEE SHEET 2F FOR DETAILS.
11. INCLUDES 8 TONS TO BE USED FOR TEMPORARY TRAFFIC CONTROL PHASE 1. SEE SHEET 2F FOR DETAILS.
12. INCLUDES 30 TONS TO BE USED FOR TEMPORARY TRAFFIC CONTROL PHASE 1. SEE SHEET 2F FOR DETAILS.
13. INCLUDES 22 TONS TO BE USED FOR TEMPORARY TRAFFIC CONTROL PHASE 1. SEE SHEET 2F FOR DETAILS.
14. COST OF BEDDING MATERIAL AND COST OF STUBBING IN TO PROPOSED BOX CULVERTS TO BE INCLUDED IN THE COST OF THE PROPOSED PIPE.
15. INCLUDES 596 L.F. FOR CROSS DRAINAGE PIPES AND 97 L.F. FOR CROSS DRAINS. COST OF BEDDING MATERIAL AND COST OF STUBBING IN TO PROPOSED BOX CULVERTS TO BE INCLUDED IN THE COST OF THE PROPOSED PIPE.

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(7)	604-02 01 CLASS A CONCRETE (BOX BRIDGES)	C.Y	250
(7)	604-02 02 STEEL BAR REINFORCEMENT (BOX BRIDGES)	L.R	527724

SEAI ED BY



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
61-02-11	JUNCTION BOX TYPE 2	EACH	1
61-07-01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	4
61-07-02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB	186
61-07-60	30IN ENDWALL (CONCRETE DRAIN) 31	LB	3
61-11-02	CATCH BASINS TYPE 12 x 8 x 8 DEPTH	EACH	61
61-11-03	CATCH BASINS TYPE 12 x 8 x 12 DEPTH	EACH	8
61-11-04	CATCH BASINS TYPE 12 x 8 x 15 DEPTH	EACH	11
61-11-05	CATCH BASINS TYPE 42 x 4 x 8 DEPTH	EACH	5
61-11-06	CATCH BASINS TYPE 42 x 4 x 12 DEPTH	EACH	3
61-11-07	CATCH BASINS TYPE 42 x 4 x 15 DEPTH	EACH	3
61-13-01	CATCH BASINS TYPE 43 x 4 x 8 DEPTH	EACH	3
61-13-02	CATCH BASINS TYPE 43 x 4 x 12 DEPTH	EACH	3
61-13-03	CATCH BASINS TYPE 43 x 4 x 15 DEPTH	EACH	3
62-03-02	18" TEMPORARY DRAINAGE PIPE	L.F.	301
62-03-03	24" TEMPORARY DRAINAGE PIPE	L.F.	378
70-01-01	CONCRETE SIDEWALK (4")	S.F.	58500
70-02	CONCRETE DRIVEWAY	S.F.	11766
70-02-03	CONCRETE CURB RAMP	S.F.	8700
70-02-05	CONCRETE COMBINED CURB & GUTTER	C.Y.	965
70-08-01	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	6
70-08-02	GUARDRAIL REMOVED	L.F.	1304
70-08-11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1797
70-09-01	MARKERS (CONCRETE R.O.W. POSTS)	L.F.	1397
70-09-05	MACHINED RIP-RAP (CLASS A-1)	TON	100
70-09-06	MACHINED RIP-RAP (CLASS B-1)	TON	566
70-09-08	MACHINED RIP-RAP (CLASS A)	TON	258
71-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	14486
71-05	LATERAL UNDERDRAIN	L.F.	586
71-06-01	LATERAL UNDERDRAIN ENDWALL (4")	EACH	1
71-06-03	LATERAL UNDERDRAIN ENDWALL (6")	EACH	20
71-07	TRAFFIC CONTROL	LS	1
71-02-02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	14665
71-04-01	FLEXIBLE DRUMS (CHANNELIZNG)	EACH	53
71-04-02	PORTABLE BARRIER RAIL OF INEATOR	EACH	442
71-05-01	WARNING LIGHTS (TYPE A)	EACH	16
71-05-02	SIGNS (CONSTRUCTION)	S.F.	289
71-05-03	TEMPORARY BARRICADES (TYPE III)	L.F.	96
71-05-04	ARROW BOARD (TYPE C)	EACH	2
71-05-01	CLASS A CONCRETE FOUNDATION FOR SIGN SUPPORTS)	C.Y.	3.2
71-05-02	STEEL BAR REINFORCEMENT FOUNDATION FOR SIGN SUPPORTS)	LB	692
71-11-01	"L" SECTION STEEL POSTS	LB	298
71-11-02	PERFORATED KNOCKOUT SQUARE TUBE POST	LB	223
71-13-02	FLAT SHEET ALUMINUM SIGNS (0.060" THICK)	S.F.	36
71-13-03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	53
71-15-01	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
71-15-02	REMOVAL & RELOCATION OF SIGN & SUPPORT	EACH	37
71-16-01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
71-01-21	Smopwhite Pvmt Mkrs (Bl-Whit Color)	EACH	145
71-01-22	Smopwhite Pvmt Mkrs (Mono-Dt Color)	EACH	145
71-01-30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	113
71-02-03	PLASTIC PAVEMENT MARKING (CONCRETE-WALK)	L.F.	160
71-02-04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	750
71-02-05	PLASTIC PAVEMENT MARKING (S TOP LINE)	L.F.	51
71-02-06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	19
71-02-08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	150
71-02-09	PLASTIC PAVEMENT MARKING (BICYCLE SYMBOL W/IDER)	EACH	10
71-05-01	PAINTED PAVEMENT MARKING (4" LINE)	L.M	1
71-16-02	ENHANCED FLATLINE THERMO PVMT MARKING (6IN LINE)	L.M	8
71-17-01	MOBILIZATION	LS	1
74-01-03	GEOTEXTILE (TYPE INTEROSION CONTROL)	S.Y.	1231
74-01-04	GEOTEXTILE (TYPE MYSTABILIZATION)	S.Y.	3600
74-01-05	TEMPORARY SEDIMENT TUBE 20IN (TOE OF SLOPE)	L.F.	12070
80-01-01	SEEDING (WITH MULCH)	UNIT	1360
80-01-07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1360
80-02	SEEDING (WITHOUT MULCH)	UNIT	1360
80-03	MULCH (WOOD CHIPS)	CU YD	50
80-04	SODDING (NEW SOD)	S.Y.	5063
80-05-12	EROSION CONTROL BLANKET (TYPE II)	S.Y.	6167
86-02-03	PROJECT FLOWING	CYCL	3

FOOTNOTES CONT.

16. INCLUDES 50 L.F. TO BE USED FOR TEMPORARY CONSTRUCTION EXITS, TO BE FIELD LOCATED, INCLUDES 10 L.F. TO BE USED FOR TEMPORARY SIDE DRAINS, INCLUDES 150 L.F. TO BE USED FOR SUSPENDED PIPE DIVERSIONS.
17. TO BE USED FOR TEMPORARY CULVERTS UNDER SR 141.
18. TO BE PERPENDICULAR CURB RAMPS.
19. GUARDRAIL NOT SHOWN IN SURVEY. SEE TABULATION BLOCK SHEET 2N FOR DETAILS AND APPROXIMATE STATIONS.
20. TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.
21. INCLUDES 475 TONS TO BE USED FOR CULVERT PROTECTION TYPE I AND 91 TONS TO BE USED WITH TEMPORARY SLOPE DRAINS.
22. TO BE USED FOR OUTLET PROTECTION AS SHOWN IN PLANS.
23. COST OF STUBBING IN TO PROPOSED CATCH BASINS TO BE INCLUDED IN COST OF AGGREGATE UNDERDRAINS.
24. THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REGARDING TEMPORARY SPECIFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
25. IN THE EVENT THAT A CONSTRUCTION AND/OR REGULATORY SIGN IS TEMPORARILY DESIGNATED NOT IN USE DURING THE CONSTRUCTION PHASE OF A PROJECT, THE CONTRACTOR SHALL CHOOSE A SIGN COVERING METHOD FROM A DESIGNATED LIST OF METHODS ACCEPTED BY THE DEPARTMENT. SAID SIGN COVERING METHOD SHALL BE SELECTED FROM QUALIFIED PRODUCTS LIST 10, SECTION D OR APPROVED BY THE DIVISION OF MATERIALS AND TEST AND SHALL BE USED TO COVER THESE SIGNS. NO OTHER METHOD FOR SIGN COVERING WILL BE ALLOWED. TEMPORARY SIGN COVERINGS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 712-06 SIGNS (CONSTRUCTION).
26. SEE SIGNING AND PAVEMENT MARKING PLANS SHEETS 36-56J, AND SIGN SCHEDULE SHEETS 59-59A FOR DETAILS.
27. INCLUDES 18 OBJECT MARKERS, 2 TRUCK CROSSING, AND 2 REDUCED SPEED AHEAD SIGNS.
28. 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.
29. INCLUDES 984 SY TO BE USED WITH CULVERT PROTECTION TYPE I AND 75 SY TO BE USED WITH SEDIMENT FILTER BAGS AND 172 SY TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.
30. INCLUDES 900 SY TO BE USED FOR STABILIZATION OF SINKHOLE AT ROUGHLY STATION 359+00 OFFSET 70 FEET LEFT AND 2700 SY TO BE USED FOR POTENTIAL SINKHOLES AT THE DISCRETION OF THE PROJECT ENGINEER.
31. TO BE USED ON ALL GRADED CUT AND FILL SLOPES.
32. TO BE USED ON ALL SLOPES STEEPER THAN 3:1 AS SHOWN IN EPSC PLANS.
33. INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.03. PROJECT MOVING CYCLE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	2A

CREATED BY



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

GENERAL NOTES

GRADING

- (2) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (3) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (4) THE CONTRACTOR SHALL NOT DEPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON- WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERBODIES. HIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER NECESSARY PERMITS OR DESIGNS 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) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.
- (3) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

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.

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.
- (5) EXCAVATION FOR PIPE CULVERTS, STORM SEWERS, AND ALL OTHER CULVERTS AND MINOR STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
- (6) 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.
- (7) 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).
- (8) 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.
- (9) 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.

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 WHERE AND AS DIRECTED BY THE ENGINEER.
- (3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

- (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 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 (4" LINE), L.M.

FINAL PAVEMENT MARKING

- (1) 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 PAVT MARKING (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

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

PAVEMENT

PAVING

- (1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.
- (2) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAYER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXCLUDES 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 PAYER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE). THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 4075E.

SIGNING

- (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.
- (3) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION, SUITE 1200, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.

- (4) 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.
- (5) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- (6) 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.
- (7) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

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, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY OTHER DEVICES FOR ROADWAYS WITH CURRENT ADT'S OF LESS THAN 1500 AND PURPOSES OF ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER 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 EQUIPMENT 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 THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GENERAL
NOTES

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

- (1)

SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/US. 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 WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE OUTSLOPE, 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/US, INCLUDING WETLANDS AND EPIHEMAL, 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 TYPIC 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. 600. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. RAILY 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 INSPECTORS ARE UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE CONTRACTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.
- SPECIES

(10)

NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.
- (11)

SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES

- (12)
- IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

- (13)
- IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

INSPECTION, MAINTENANCE & REPAIR

- (13)
- REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEETS (S1-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

PERMITS, PLANS & RECORDS

- (14)
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO, THE STATE/US PERMITS DIVISION, DESIGN DIVISION, MATERIALS, AIR AND NOISE, UTILS, ARMY/NAVY, USACE, SECTION 404, TVA, SECTION 28A, 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).

- (15)
- 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, MATERIALS, AIR AND NOISE, UTILS, ARMY/NAVY, USACE, SECTION 404, AND TDEC NPDES PERMITS, SHALL BE CONSIDERED. THESE INSPECTIONS AND DECISIONS WHICH HAVE PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED IN GENERAL. PERMIT CONDITIONS WILL PREVAIL.

- (16)
- IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

- (17)
- 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.

- (18)
- 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 NEAR THE MAIN ENTRANCE OF THE PROJECT SITE. IF ENTRY IS FEASIBLE, 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

- (19)
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM BEING DEPOSITED ON OR NEAR THE PROJECT SITE. ALL WASTES SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANY CIPATED 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.

- (20)
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/US. 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.

- (21)
- 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.

- (22)
- WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE UNTIL SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.

- (23)
- 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.

- (24)
- 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 A MANNER THAT PREVENTS LEAKAGE AND CONTAMINATION. 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.

- (25)
- WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF-SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.

- (26)
- 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.

- (27)
- 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.

- (28)
- 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.

- (29)
- 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.

- (30)
- 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/US. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMIT'S 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

- (31)
- MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/US UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS. OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	21

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 PROVIDES 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 205.01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK EXCEEDING THE DESIGN QUANTITIES. 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.

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

- (1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND CONSTRUCTION AND PRE-CONSTRUCTION MEETING AND PRE-CONSTRUCTION MEETING. THE PRE-CONSTRUCTION MEETING WILL BE HELD AT THE TDOT ENVIRONMENTAL DIVISION PERSONNEL OFFICE. THE CONSULTANT WILL NEED TO BE ON SITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE U.S. OR SPECIES.
- (2) 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.
- (3) 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

- (1) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

SCOPE OF WORK

- (2) THIS PROJECT INCLUDES GRADING, DRAINAGE, PAVING, WIDENING, GUARDRAIL AND STRIPING OF SR 141 AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.
- (3) THIS PROJECT INCLUDES THE APPLICATION OF EPSC DEVICES, SEEDING, TRAFFIC CONTROL DEVICES AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.



STATE OF TENNESSEE
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SPECIAL
NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP-141(18)	3E
CONST.	2017	STP-141(18)	3E

REV. 05/12/2009
REVISED AREA TO BE ACQUIRED, SLOPE
EASEMENT AND CONSTRUCTION EASEMENT
FOR TRACT 61 AND 61A
REV. 07/21/2010:
REVISED CONSTRUCTION EASEMENT FOR
TRACT 51.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS			TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES			EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	*CONST.
				BK.	PAGE											
45	J.R. NIXON, JR. & WF. LINDA T. NIXON	44	75.01	184	161		1.000	1.000			1824 S.F.		0.958	445	169	1625
46	JAMES W. CANTRELL & WF. BETTY R. CANTRELL	59	7	409	489		1.430	1.430			1077 S.F.		1.405	321	1890	1890
47	DEBBIE A. CRAWFORD	59	7.01	427	239		1.000	1.000			3579 S.F.		0.918		249	1771
48	TERRY W. SMITH JR. & WF. ANGELA M. SMITH	59	9.09	943	789	0.920		0.920	2089 S.F.			0.872			533	1982
49	LESLEY ALEXANDER	59	9.02	1246	2069	0.937		0.937	852 S.F.			0.917			220	1122
50	REBA K. CHAFFIN	59	9.03	382	676	0.915		0.915	839 S.F.			0.896			863	1146
51	LAWRENCE EDDIE ATKINS & WIFE, EMERLYN G. ATKINS	60	6.01	1303	1672	1.180		1.180	3636 S.F.			1.000			1638	0.304 A.C.
52	DARREN SMOTHERMAN & WF. REGINA SMOTHERMAN	59	6.02	457	420	0.955		0.955	2948 S.F.			0.887			2230	1232
53	ROBERT C. CARTER	59	6.03	1086	17	0.955		0.955	2858 S.F.			0.889			2922	1158
54	EDWARD A. SPEARS & WF. HOLLY SPEARS	59	6.04	380	61	0.955		0.955	2954 S.F.			0.887			2457	982
55	MARY P. HERRON	59	9.04	376	395	0.915		0.915	1320 S.F.			0.865			1137	1165
56	RAYMOND E. WEBBER & WF. JOYCE A. WEBBER	59	9.05	375	58	0.924		0.924	2353 S.F.			0.870			887	1409
57	BETTY S. MORGAN	59	6.05	377	41	0.955		0.955	1046 S.F.			0.931			1471	1188
58	RAYMOND E. WEBBER & WF. JOYCE A. WEBBER	59	6.06	448	180	0.955		0.955	488 S.F.			0.944			887	1226
59	TERRY W. REYNOLDS & WF. JOYCE L. REYNOLDS	59	9.06	428	320	0.858		0.858	2623 S.F.			0.798			216	1285
60	TERESA MECHER	59	9.07	1207	345	0.755		0.755	3101 S.F.			0.684			274	1409
61	KARL NELSON & WF. LINNAE M. NELSON	59	16	1260	1082	26.300		26.300	10.222		0.222	26.078		504	17	3908
61A	KENNETH WAYNE STEWART & WF. BARBARA ANN STEWART	59	9.08	459	252	10.050		10.050	677 S.F.			10.034			518	468
62	JASON M. DIXON & WF. CARRIE L. DIXON	59	6.07	962	1602		0.955	0.955	134 S.F.			0.952			1405	1216
63	MATTHEW DAVID MCKINNEY	59	18.01	1211	1828		0.969	0.969	206 S.F.			0.869			182	182
64	CLAUDE HARRISON & WF. JANCE L. HARRISON	59	18.02	388	784		0.950	0.950	3640 S.F.			0.866			2144	3255
66	JUDITH KEYES	59	18	459	132		0.946	0.946	2908 S.F.			0.879			1584	2017
67	MICHAEL EDDIE MASON	59	42.06	1088	1465	1.030		1.030	2985 S.F.			0.961			1290	1290
68	LONDON D. ROEDER & WF. AUTUMN D. ROEDER	59	19.01	931	243	0.860		0.860	1215 S.F.			0.832			735	735
69	PATRICIA A. WOOD	59	19	999	1355	0.875		0.875	433 S.F.			0.865			113	113
71	ROY T. BATEY & WF. TONI R. BATEY	59	42.18	385	200	0.980		0.980	1405 S.F.			0.948			368	368

* FOOTNOTE: CONSTRUCTION EASEMENT FOR WORKING AREA AND EROSION PREVENTION AND SEDIMENT CONTROL

⑤ 11896.00 S.F. INCLUDED FOR REMOVING HOUSE.

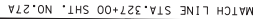
NOTE: RESIDENCES ON TRACTS 8, 21, 35, 41, 42, 44, AND 51 ALREADY DEMOLISHED. SEE PRESENT LAYOUT SHEETS FOR DETAILS.



STATE OF TENNESSEE
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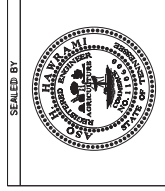
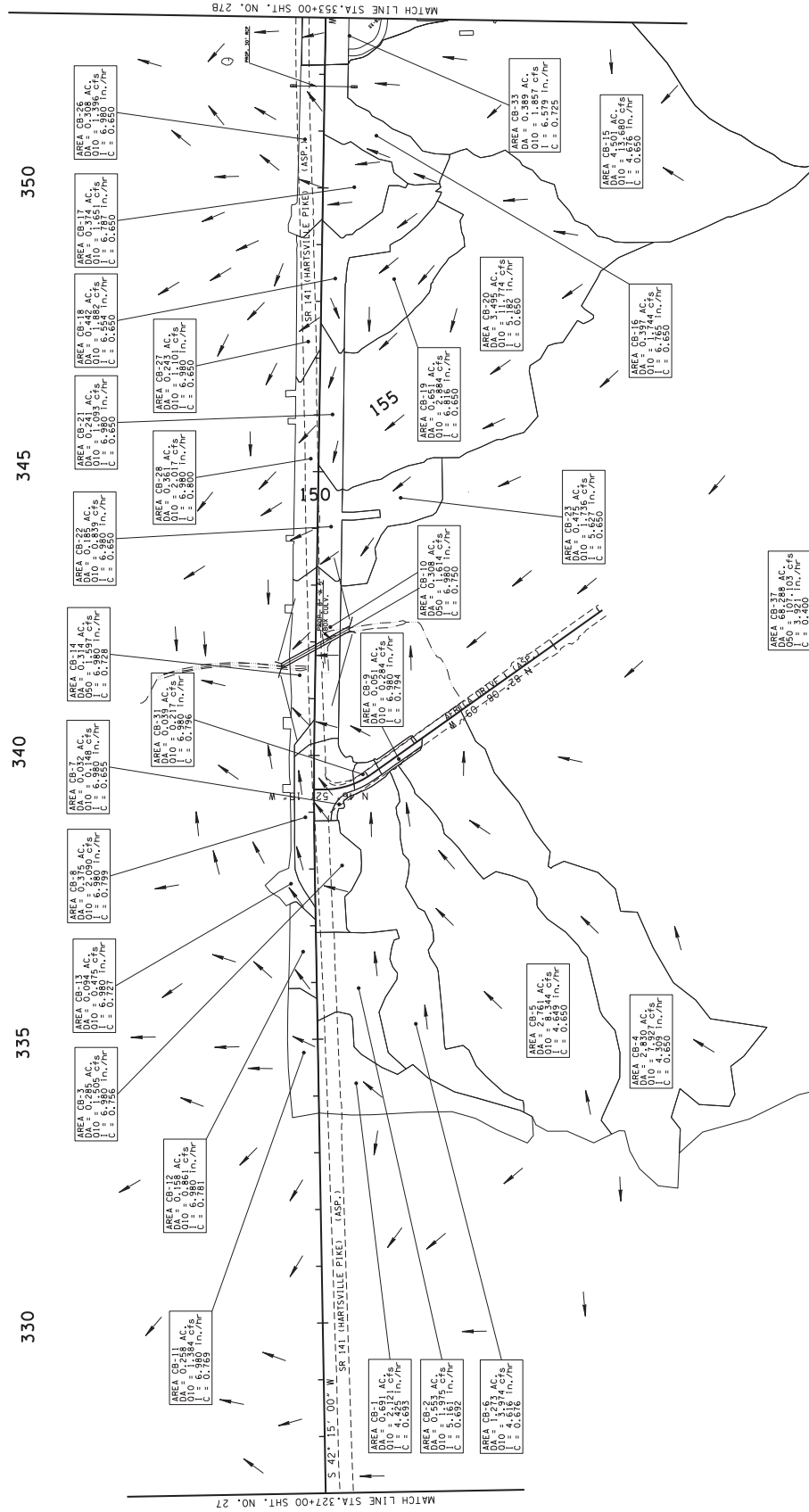
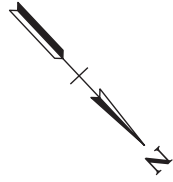
RIGHT - OF - WAY
ACQUISITION
TABLE

REV. 07/23/2012:
ADJUSTED HORIZONTAL ALIGNMENT, REVISED RT.
SIDE SPECIAL DITCH, DELETED LT. SIDE
SPECIAL DITCH FROM STA. 313+92.41 TO
STA. 317+00.00. ADDED LT. SIDE SPECIAL
DITCH FROM STA. 306+50 TO STA. 307+00.
EXTENDED LIMIT OF CONSTRUCTION.



STA. 306+00 TO STA. 327+00
SCALE: 1"=100'

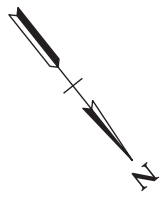
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	27A
	2009	STP-141(18)	29A
		STP-141(18)	27A



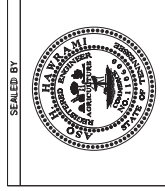
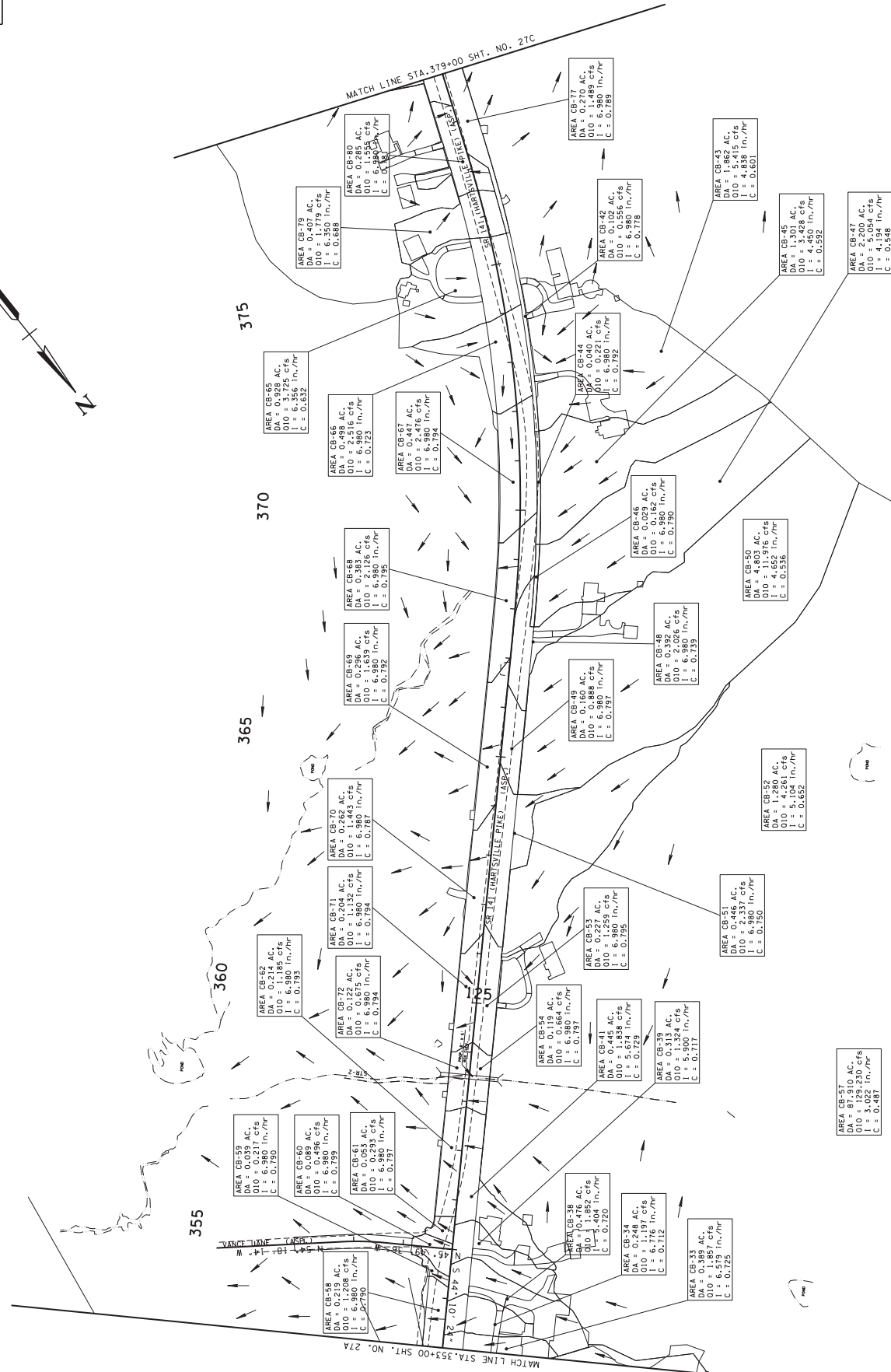
STATE OF TENNESSEE
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DRAINAGE
MAP

STA. 327+00 TO STA. 353+00
SCALE: 1"=100'



SHEET NO.	PROJECT NO.	YEAR	TYPE
288	STP-141(18)	2009	R.O.W.
278	STP-141(18)	2017	CONST.

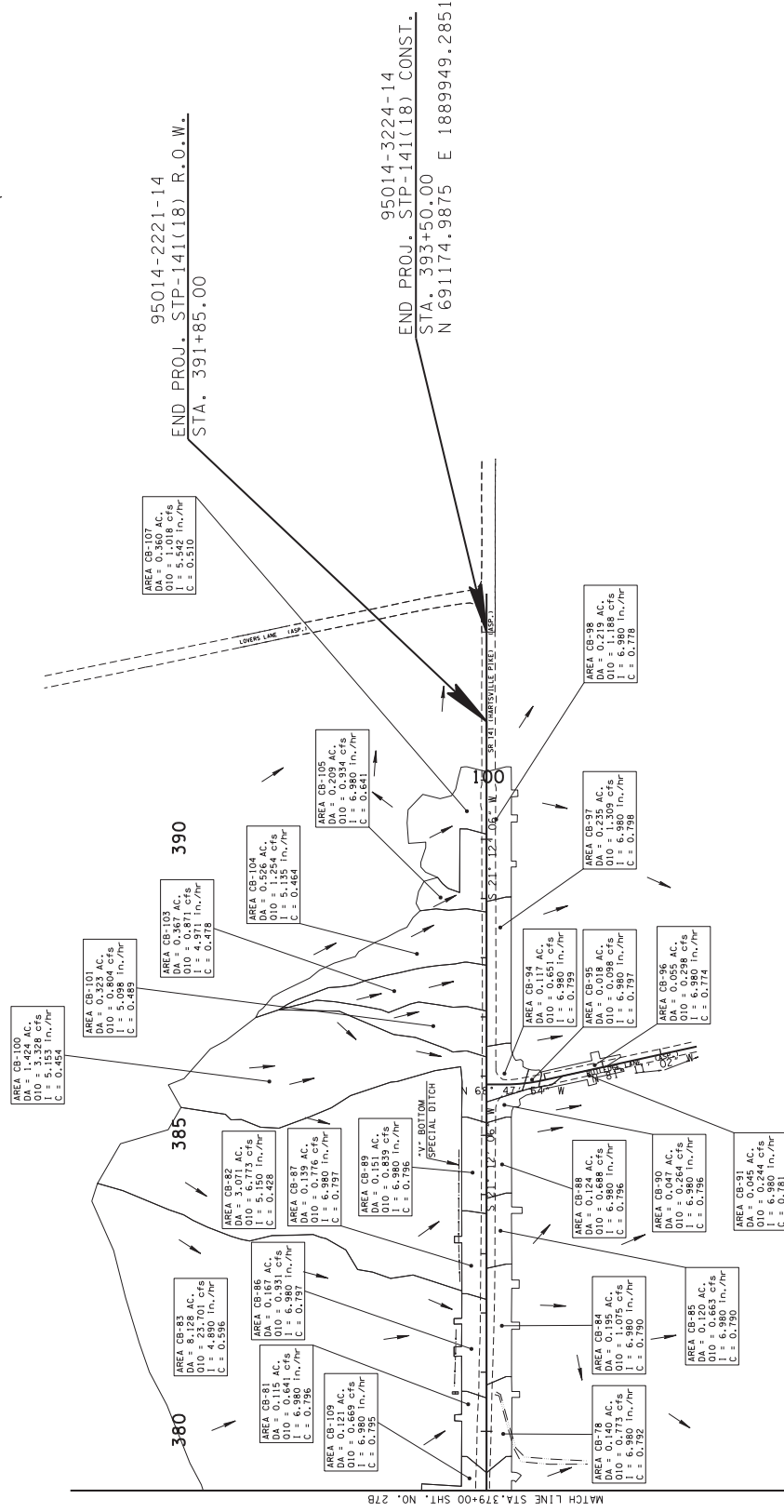


STATE OF TENNESSEE
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**DRAINAGE
MAP**

STA. 353+00 TO STA. 379+00
SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP-141(18)	29C
CONST.	2017	STP-141(18)	27C



CREATED BY

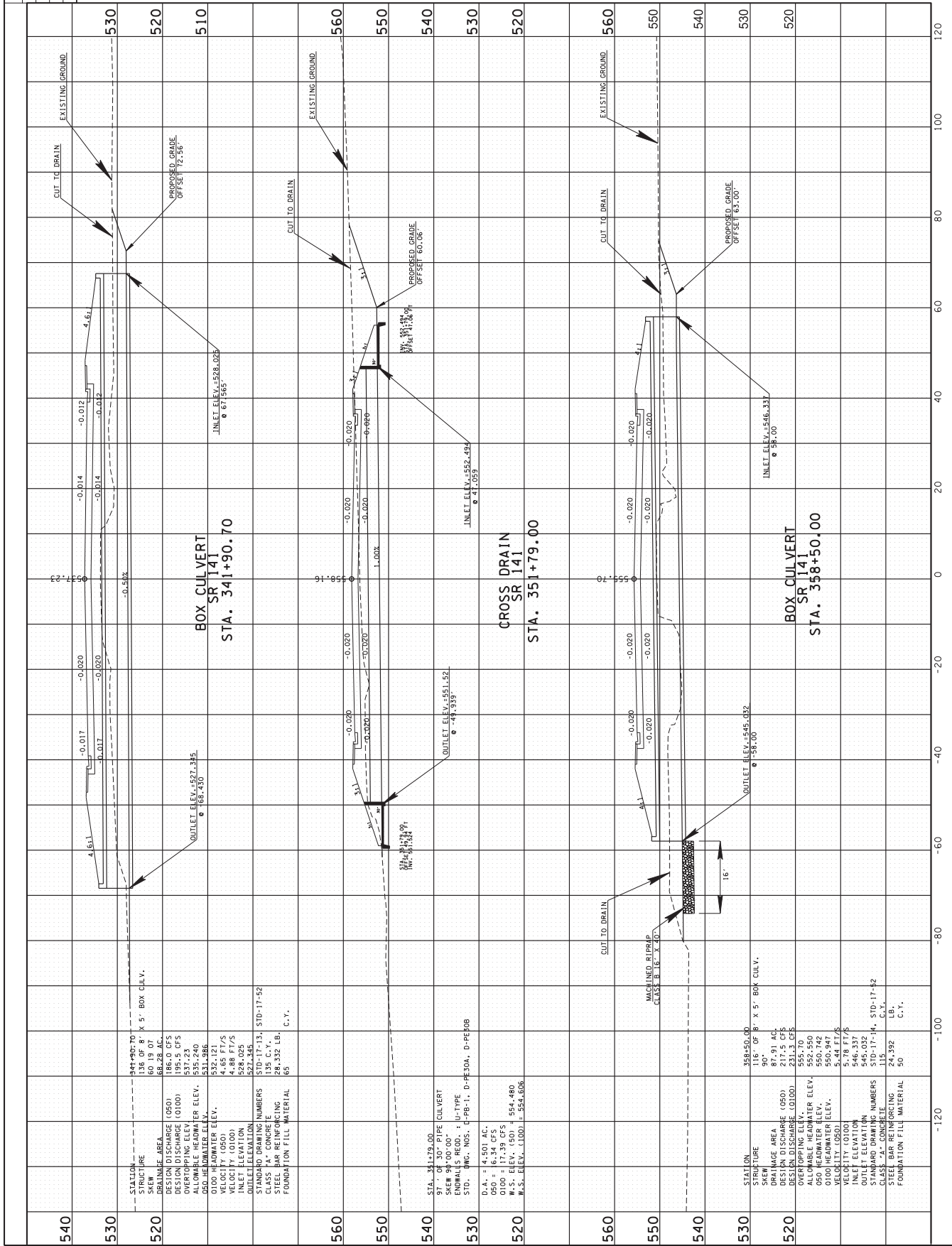


STATE OF TENNESSEE
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DRAINAGE
MAP

STA. 379+00 TO STA. 394+00
SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-44(18)	27
		STP-44(18)	28



Station	Profile	Offset	Grade	Notes
379+55.00	620	0.00	592.16	STA. 379+55.00
379+55.00	610	0.00	592.16	STA. 379+55.00
379+55.00	600	0.00	592.16	STA. 379+55.00
379+55.00	590	0.00	592.16	STA. 379+55.00
379+55.00	580	0.00	592.16	STA. 379+55.00
379+55.00	570	0.00	592.16	STA. 379+55.00
379+55.00	560	0.00	592.16	STA. 379+55.00
379+55.00	550	0.00	592.16	STA. 379+55.00
379+55.00	540	0.00	592.16	STA. 379+55.00
379+55.00	530	0.00	592.16	STA. 379+55.00
379+55.00	520	0.00	592.16	STA. 379+55.00
379+55.00	510	0.00	592.16	STA. 379+55.00
379+55.00	500	0.00	592.16	STA. 379+55.00
379+55.00	490	0.00	592.16	STA. 379+55.00
379+55.00	480	0.00	592.16	STA. 379+55.00
379+55.00	470	0.00	592.16	STA. 379+55.00
379+55.00	460	0.00	592.16	STA. 379+55.00
379+55.00	450	0.00	592.16	STA. 379+55.00
379+55.00	440	0.00	592.16	STA. 379+55.00
379+55.00	430	0.00	592.16	STA. 379+55.00
379+55.00	420	0.00	592.16	STA. 379+55.00
379+55.00	410	0.00	592.16	STA. 379+55.00
379+55.00	400	0.00	592.16	STA. 379+55.00
379+55.00	390	0.00	592.16	STA. 379+55.00
379+55.00	380	0.00	592.16	STA. 379+55.00
379+55.00	370	0.00	592.16	STA. 379+55.00
379+55.00	360	0.00	592.16	STA. 379+55.00
379+55.00	350	0.00	592.16	STA. 379+55.00
379+55.00	340	0.00	592.16	STA. 379+55.00
379+55.00	330	0.00	592.16	STA. 379+55.00
379+55.00	320	0.00	592.16	STA. 379+55.00
379+55.00	310	0.00	592.16	STA. 379+55.00
379+55.00	300	0.00	592.16	STA. 379+55.00
379+55.00	290	0.00	592.16	STA. 379+55.00
379+55.00	280	0.00	592.16	STA. 379+55.00
379+55.00	270	0.00	592.16	STA. 379+55.00
379+55.00	260	0.00	592.16	STA. 379+55.00
379+55.00	250	0.00	592.16	STA. 379+55.00
379+55.00	240	0.00	592.16	STA. 379+55.00
379+55.00	230	0.00	592.16	STA. 379+55.00
379+55.00	220	0.00	592.16	STA. 379+55.00
379+55.00	210	0.00	592.16	STA. 379+55.00
379+55.00	200	0.00	592.16	STA. 379+55.00
379+55.00	190	0.00	592.16	STA. 379+55.00
379+55.00	180	0.00	592.16	STA. 379+55.00
379+55.00	170	0.00	592.16	STA. 379+55.00
379+55.00	160	0.00	592.16	STA. 379+55.00
379+55.00	150	0.00	592.16	STA. 379+55.00
379+55.00	140	0.00	592.16	STA. 379+55.00
379+55.00	130	0.00	592.16	STA. 379+55.00
379+55.00	120	0.00	592.16	STA. 379+55.00
379+55.00	110	0.00	592.16	STA. 379+55.00
379+55.00	100	0.00	592.16	STA. 379+55.00
379+55.00	90	0.00	592.16	STA. 379+55.00
379+55.00	80	0.00	592.16	STA. 379+55.00
379+55.00	70	0.00	592.16	STA. 379+55.00
379+55.00	60	0.00	592.16	STA. 379+55.00

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

SEAL ED BY



COORDINATES ARE NAD/83(1995),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.000 AND TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

CULVERT SECTIONS

EROSION PREVENTION AND SEDIMENT CONTROL 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) SHALL BE INSTALLED AND MAINTAINED IN PLACE PER 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.

ENVIRONMENTAL

(2) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL CONCERNS WITH RESPECT TO THE PROJECT. THERE IS A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

ESTIMATED EPSC QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	STAGE 1 QUANTITY	STAGE 2 QUANTITY	STAGE 3 QUANTITY	STAGE 4 QUANTITY	TOTAL QUANTITY
(1) 203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	15	0	0	0	15
209-02-07	18" TEMPORARY SLOPE DRAIN	L.F.	378	0	0	0	378
(7) 209-03-22	FILTER SOCK (18 INCH)	L.F.	1250	0	0	0	1250
209-05	SEDIMENT REMOVAL	C.Y.	177	177	177	177	708
209-08-02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	2403	0	0	0	2403
209-08-07	ROCK CHECK DAM PER	EACH	15	34	52	0	101
209-08-08	ENHANCED ROCK CHECK DAM	EACH	24	8	2	0	34
(2) 209-08-09	FILTER SOCK CHECK DAM	EACH	15	34	52	0	101
(8) 209-09-01	SANDBAGS	BAG	500	500	500	0	1500
209-09-03	SEDIMENT FILTER BAG (15' X 15')	EACH	4	4	4	0	12
209-10-20	TEMPORARY SEDIMENT TRAP	C.Y.	222	445	0	0	667
(8) 209-20-03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	75	85	0	0	160
209-40-30	CATCH BASIN PROTECTION (TYPE A)	EACH	2	1	11	0	14
209-40-33	CATCH BASIN PROTECTION (TYPE D)	EACH	8	37	35	0	80
(3) 303-10-01	MINERAL AGGREGATE (SIZE 57)	TON	63	7	4	0	74
(6) 621-03-02	18" TEMPORARY DRAINAGE PIPE	L.F.	155	146	0	0	301
(9) 621-03-03	24" TEMPORARY DRAINAGE PIPE	L.F.	20	166	192	0	378
707-08-11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	917	240	240	0	1397
(1) 709-05-05	MACHINED RIP RAP (CLASS A-3)	TON	100	0	0	0	100
(4) 709-05-06	MACHINED RIP-RAP (CLASS A-1)	TON	512	38	16	0	566
(5) 740-10-03	GEOTEXTILE (TYPE III/EROSION CONTROL)	S.Y.	1074	105	52	0	1231
740-11-04	TEMPORARY SEDIMENT TUBE 20IN	L.F.	12070	0	0	0	12070
801-02	SEEDING (WITHOUT MULCH)	UNIT	19	19	19	0	57
805-12-02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	0	0	0	6167	6167

- (1) TO BE USED FOR TEMPORARY CONSTRUCTION EXITS
- (2) TO BE SUBSTITUTED FOR ROCK CHECK DAMS AS DIRECTED BY THE ENGINEER
- (3) INCLUDES 7 TONS FOR SEDIMENT FILTER BAGS AND 67 TONS FOR CULVERT PROTECTION TYPE 1
- (4) INCLUDES 475 TONS TO BE USED WITH CULVERT PROTECTION TYPE I AND 61 TONS TO BE USED WITH TEMPORARY SLOPE DRAINS
- (5) INCLUDES 984 SY TO BE USED WITH CULVERT PROTECTION TYPE I AND 75 SY TO BE USED WITH SEDIMENT FILTER BAGS AND 172 SY TO BE USED FOR TEMPORARY CONSTRUCTION EXITS
- (6) INCLUDES 50 L.F. TO BE USED FOR TEMPORARY CONSTRUCTION EXITS. TO BE FIELD LOCATED. INCLUDES 101 L.F. TO BE USED FOR TEMPORARY SIDE DRAINS. INCLUDES 130 L.F. TO BE USED FOR SUSPENDED PIPE DIVERSIONS.
- (7) TO BE USED WITH TEMPORARY SLOPE DRAINS.
- (8) TO BE USED FOR TEMPORARY DIVERSION CULVERTS AT PROP. CULVERT LOCATIONS.
- (9) TO BE USED FOR TEMPORARY DIVERSION CULVERTS UNDER SR 141.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-14(118)	29



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION
PREVENTION &
SEDIMENT CONTROL
(EPSC) NOTES, LEGEND
AND TABULATION

TEMP. WIDENING AREA
 CLEARING AND GRUBBING
 STAGE 1 FOR DETAIL.

NOTE: EXISTING CONTOURS SHOWN

CLEARING AND GRUBBING

SHEET NO.	PROJECT NO.	YEAR	TYPE
298	STP-141(18)	2017	CONST.

95014-3224-14
 BEGIN PROJ. STP-141(18) CONST.
 STA. 306+00.00
 N 698025.8064 E 1895227.4945

PRES. R.O.W

OUT - 2

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

OUT SLOPE

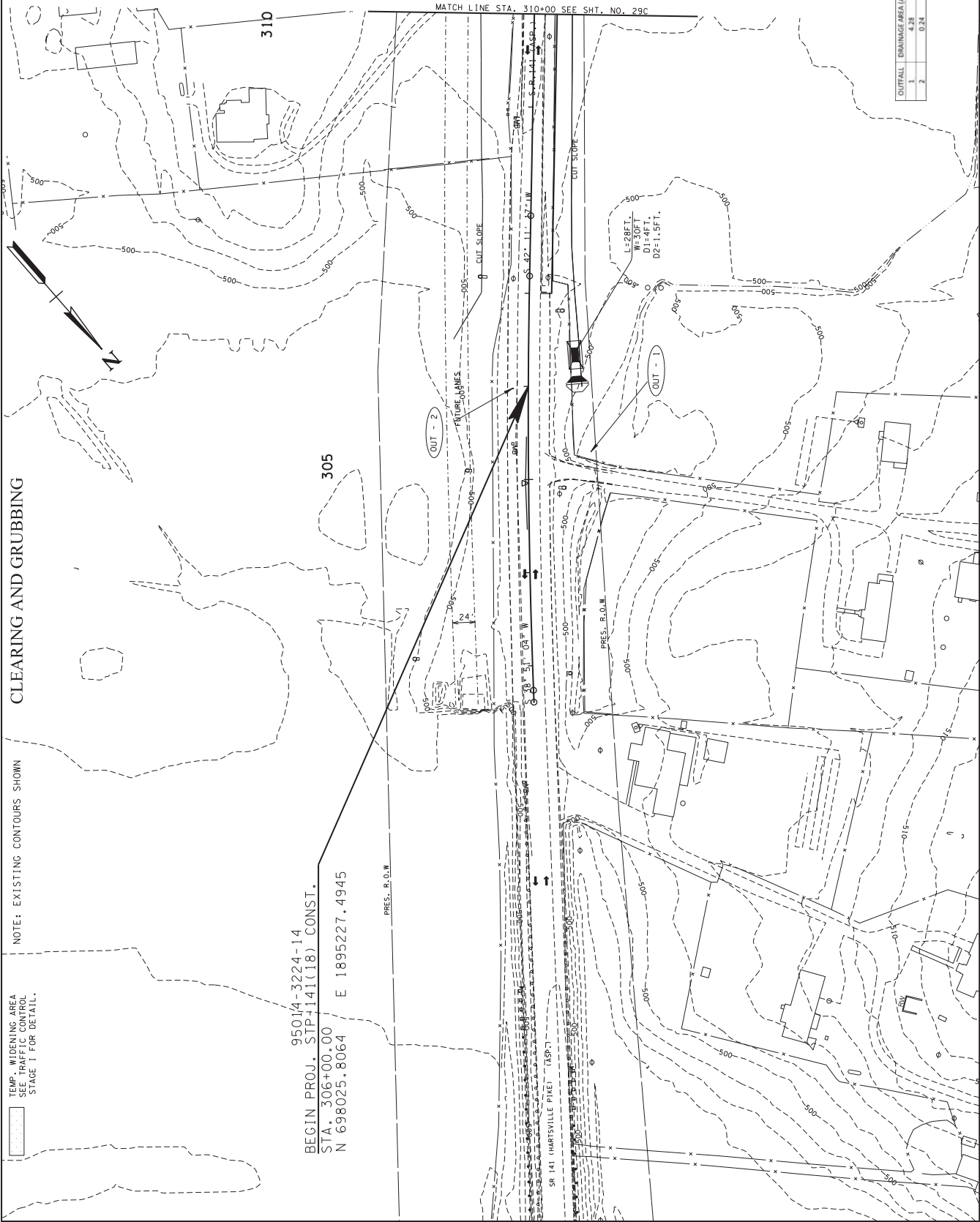
OUT SLOPE

MATCH LINE STA. 310+00 SEE SHT. NO. 29C

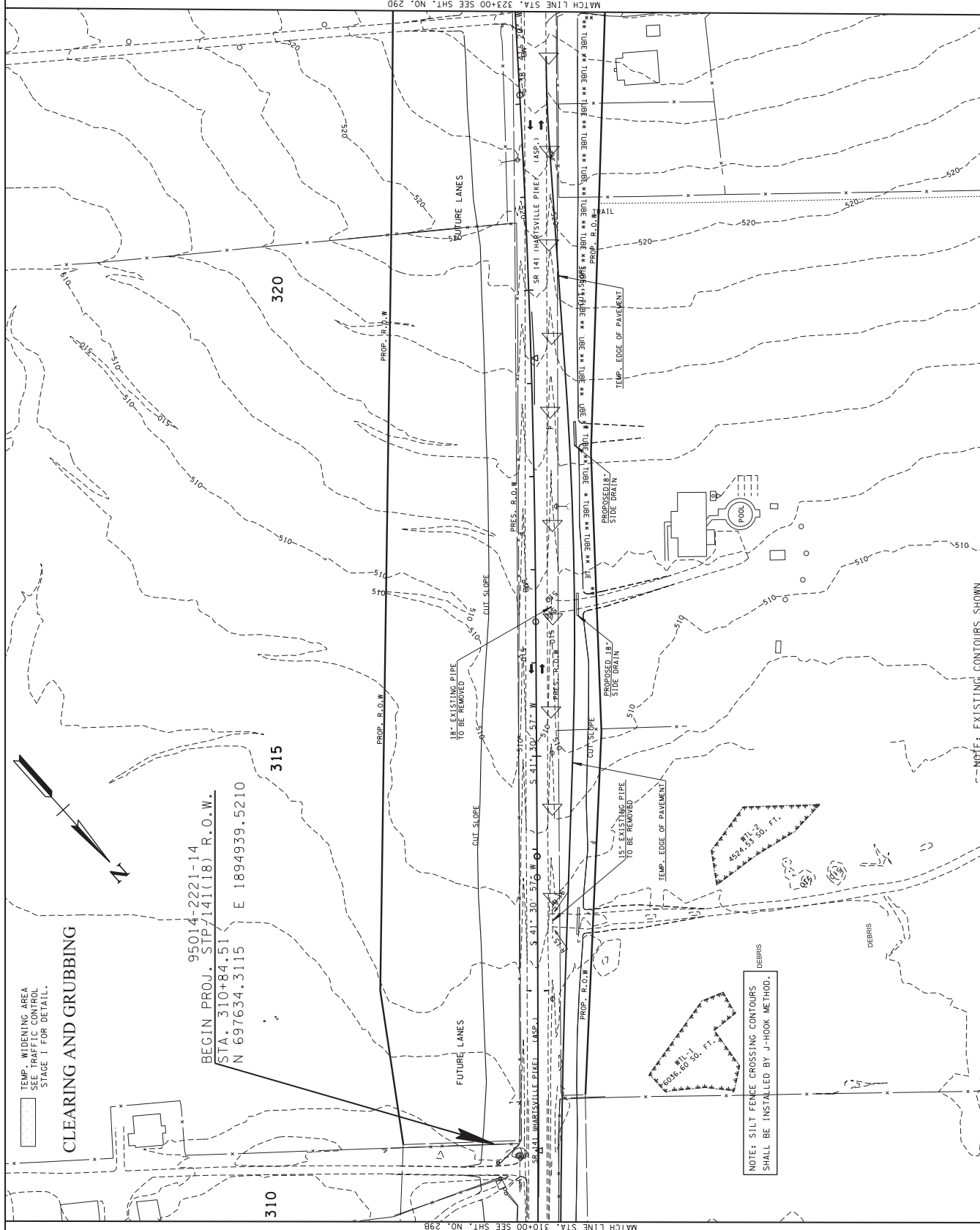


STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION
 EROSION PREVENTION
 AND SEDIMENT
 CONTROL PLAN
 STAGE I
 STA. 310+00 TO STA. 323+00
 SCALE: 1"= 50'

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
1	4.38	2.30
2	0.24	0.31



TYPE	YEAR	PROJECT NO.	SRV. NO.
R.O.W.	2009	STR-14(1/8)	30
CONST.	2017	STR-14(1/8)	28C



The logo of the American Society of Horticultural Engineers (ASHE) is a circular seal. The outer ring contains the text "AMERICAN SOCIETY OF HORTICULTURAL ENGINEERS" at the top and "1906" at the bottom. The inner circle features a central emblem of a stylized plant or tree, with the words "HORTICULTURAL ENGINEERING" and "AGRICULTURE" flanking it. The letters "ASHE" are prominently displayed in the center.

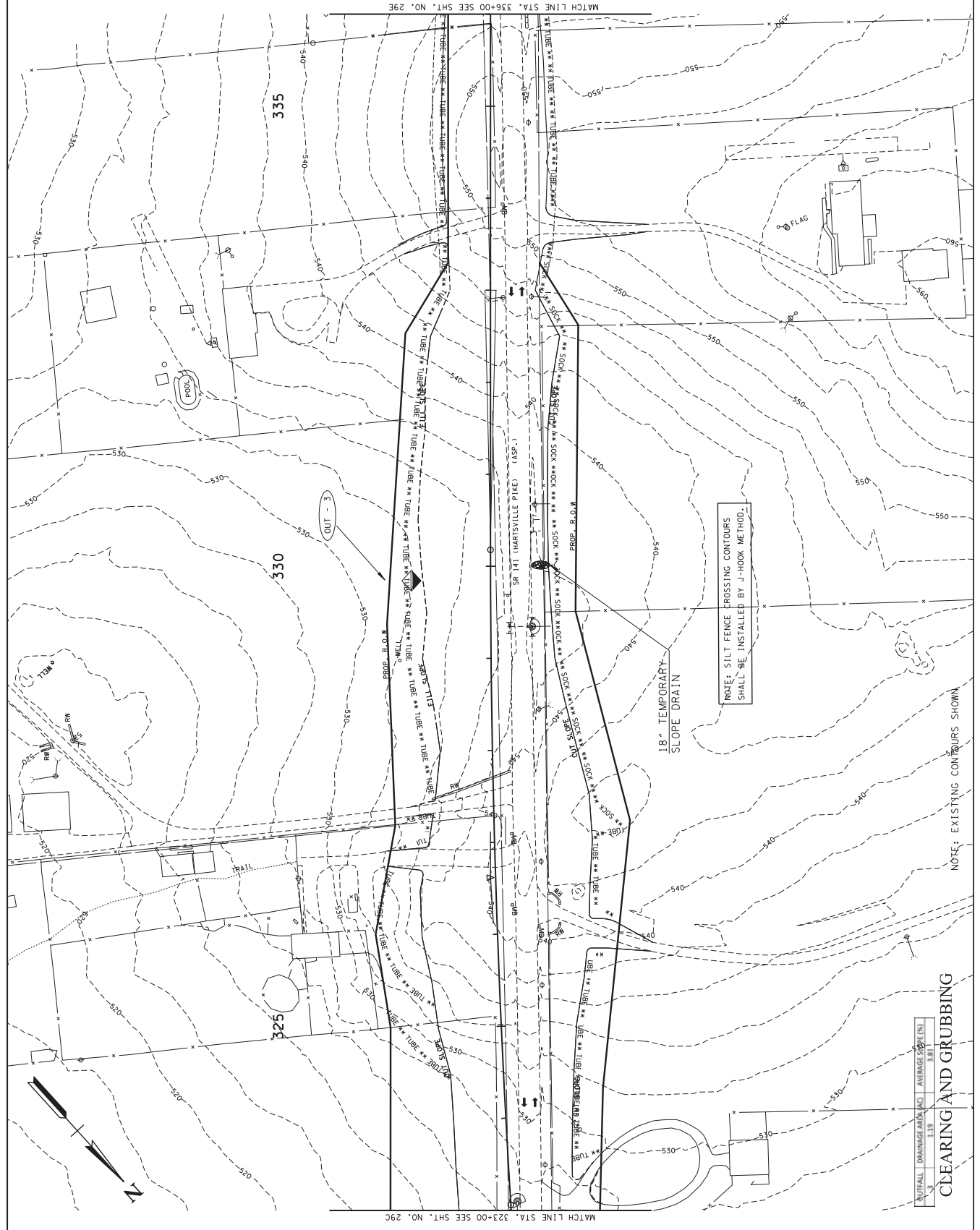
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

SCALE: 1"=50'

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
119	1.19	0.85

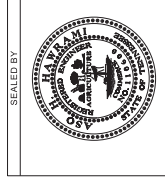
CLEARING AND GRUBBING

NOTE: EXISTING CONTOURS SHOWN



NOTE: SILT FENCE CROSSING CONTOURS SHALL BE INSTALLED BY J-HOOK METHOD.

18" TEMPORARY SLOPE DRAIN



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE I
STA. 322+00 TO STA. 336+00
SCALE: 1"= 50'

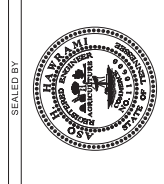
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	30A
		STP-141(18)	29D

CLEARING AND GRUBBING

STA. 339+40.00 SR 141=
STA. 150+00.00 AFRICA DRIVE

SHEET NO.	PROJECT NO.	YEAR	TYPE
308	STP-141(18)	2009	R.O.W.
28E	STP-141(18)	2017	CONST.

REV. 03/05/2010:
ADJUSTED PRIVATE DRIVE SLOPE LINES
FOR TRACT 23 TO MATCH THE PLANS.
REV. 07/21/2010:
REVISED PRIVATE DRIVE SLOPE LINES
FOR TRACT 23 TO MATCH THE PLANS.
REV. 08/16/2010:
REVISED PRIVATE DRIVE SLOPE LINES
FOR TRACTS 19 AND 24.

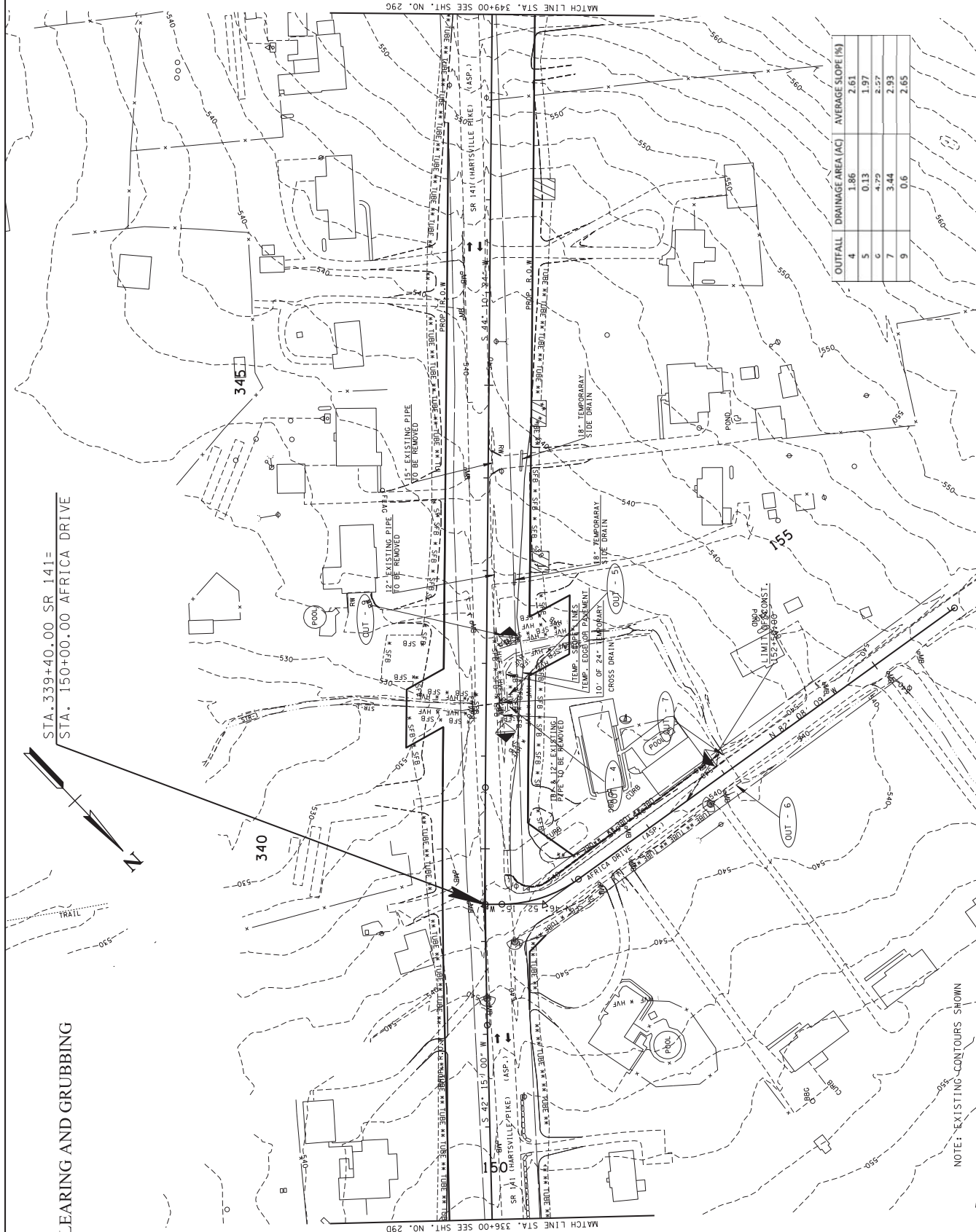


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

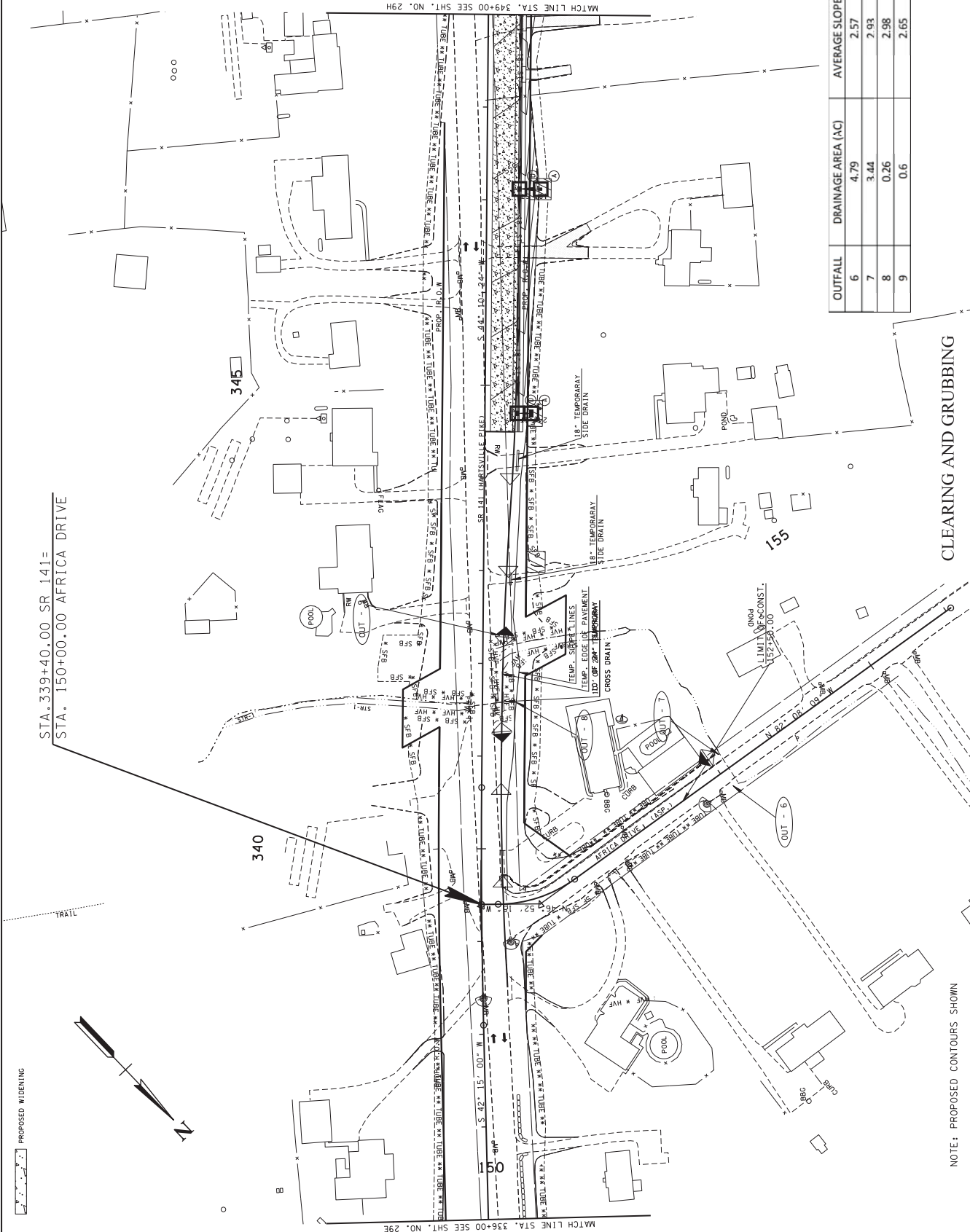
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE I

STA. 339+00 TO STA. 349+00
SCALE: 1"= 50'

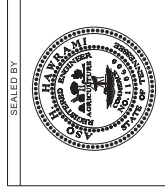
OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
4	1.86	2.61
5	0.13	1.97
6	4.79	2.57
7	3.44	2.93
9	0.6	2.65



SHEET NO.	PROJECT NO.	YEAR	TYPE
29F	STP-141(18)	2017	CONST.



STA. 339+40.00 SR 141=
STA. 150+00.00 AFRICA DRIVE



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
6	4.79	2.57
7	3.44	2.93
8	0.26	2.98
9	0.6	2.65

CLEARING AND GRUBBING

NOTE: PROPOSED CONTOURS SHOWN

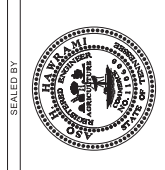
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE 1A
STA. 339+00 TO STA. 349+00
SCALE: 1"= 50'

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
10	2.77	4.51
11	0.25	3.33
12	2.29	3.31
13	1.66	2.54
18	0.91	4.22
19	0.18	4.23
25	4.42	2.96

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION PREVENTION
AND SEDIMENT CONTROL
PLAN STAGE I

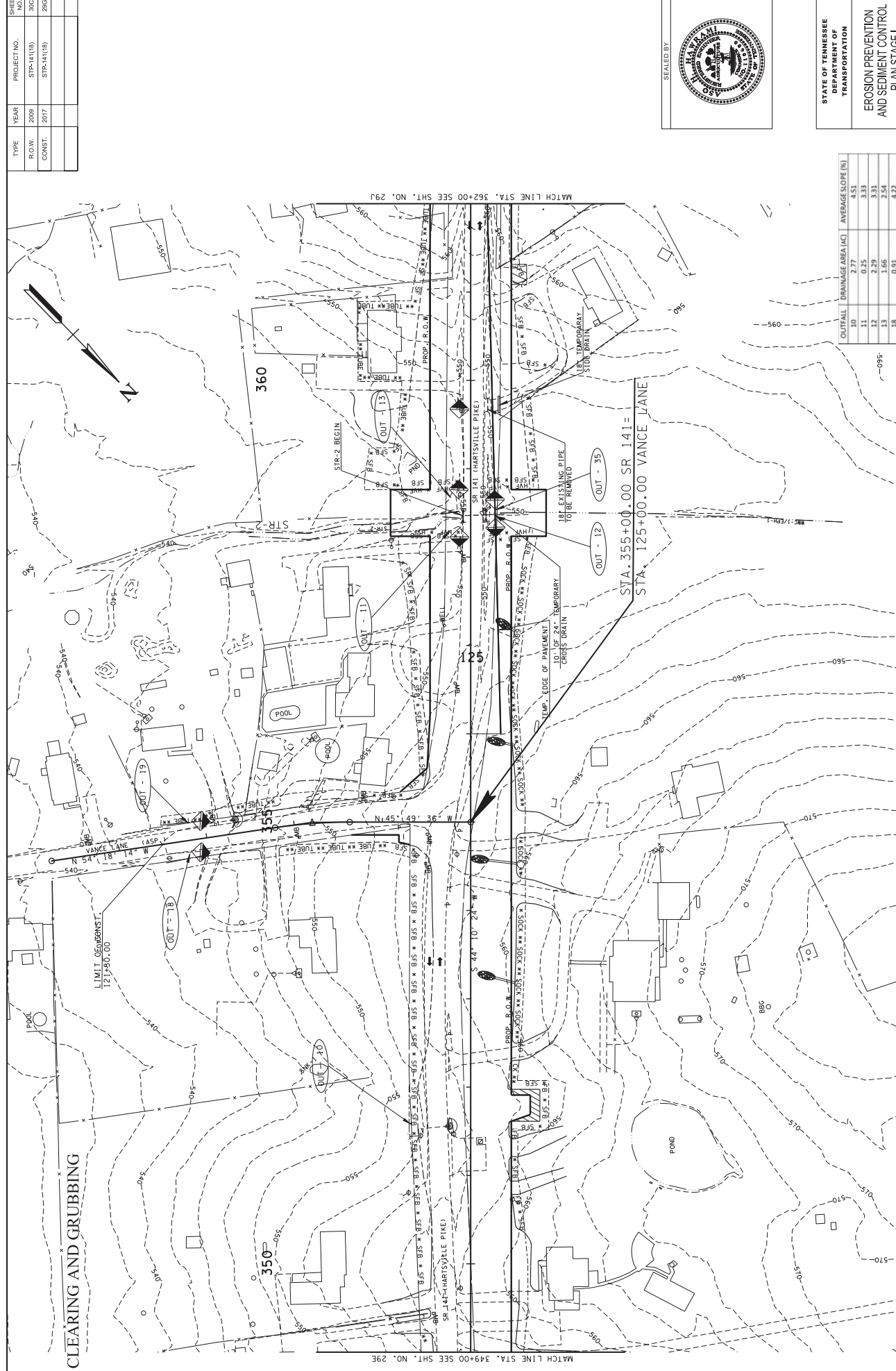
STA. 349+00 TO STA. 382+00



SEALED BY

SCALE: 1"= 50'

NOTE: EXISTING CONTOURS SHOWN



SHEET NO.	PROJECT NO.	YEAR	TYPE
30C	STP-141(18)	2009	R.O.W.
29G	STP-141(18)	2017	CONST.

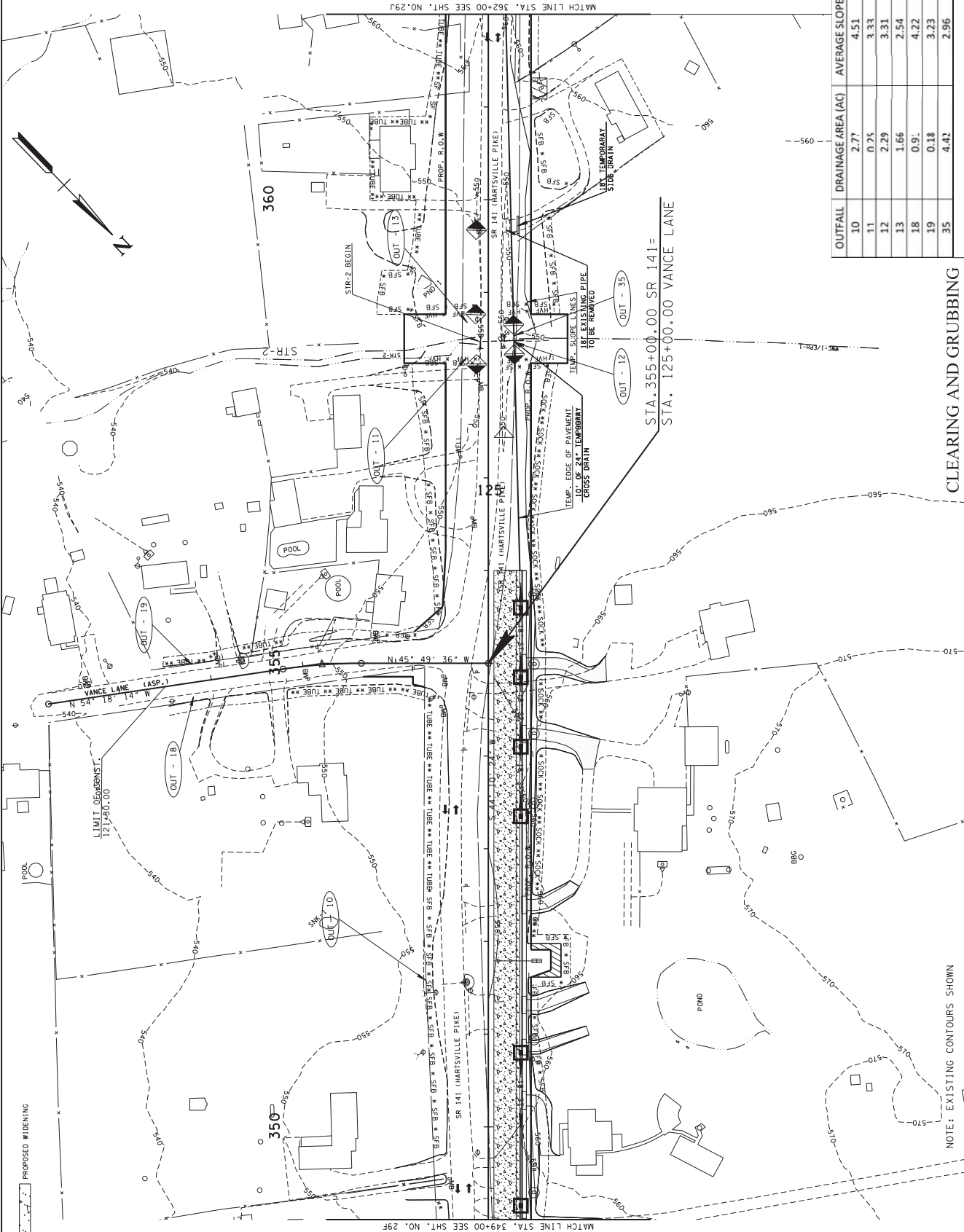
CLEARING AND GRUBBING

LIMIT OF VANCE LANE
121+80.00

MATCH LINE STA. 349+00 SEE SHT. NO. 29E

MATCH LINE STA. 382+00 SEE SHT. NO. 29J

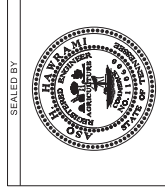
SHEET NO.	PROJECT NO.	YEAR	TYPE
29H	STP-141(18)	2017	CONST.



NOTE: EXISTING CONTOURS SHOWN

CLEARING AND GRUBBING

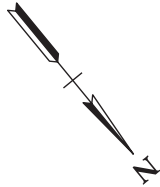
OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
10	2.77	4.51
11	0.75	3.33
12	2.29	3.31
13	1.66	2.54
18	0.91	4.22
19	0.18	3.23
35	4.42	2.96



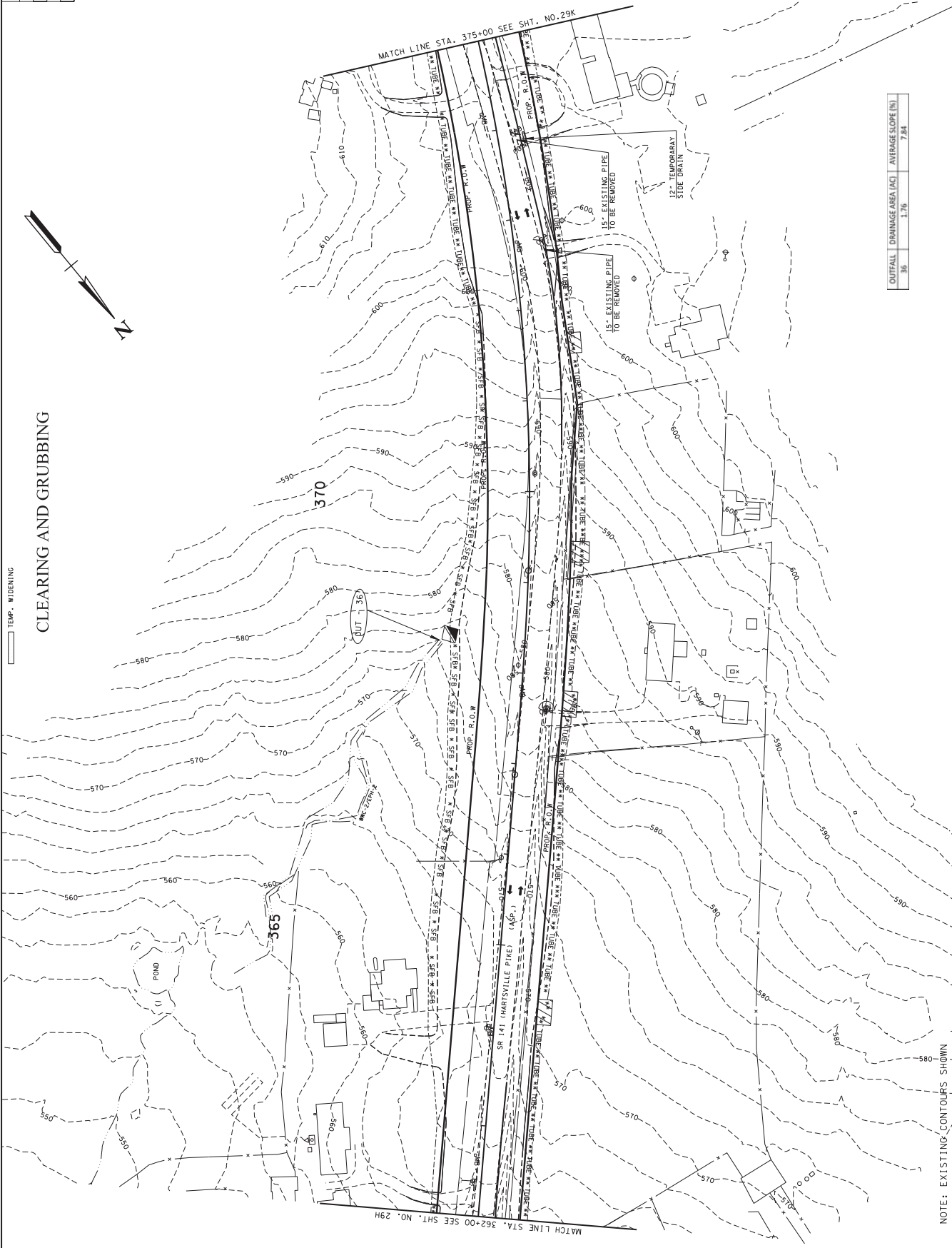
STA. 349+00 TO STA. 362+00
SCALE: 1"= 50'

TEMP. WIDENING

CLEARING AND GRUBBING



SHEET NO.	PROJECT NO.	YEAR	TYPE
300	STP-141(18)	2009	R.O.W.
299	STP-141(18)	2017	CONST.



NOTE: EXISTING CONTOURS SHOWN

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
36	1.76	7.84

SEALED BY



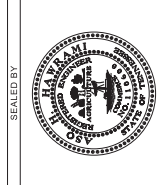
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION PREVENTION
AND SEDIMENT CONTROL
PLAN STAGE I

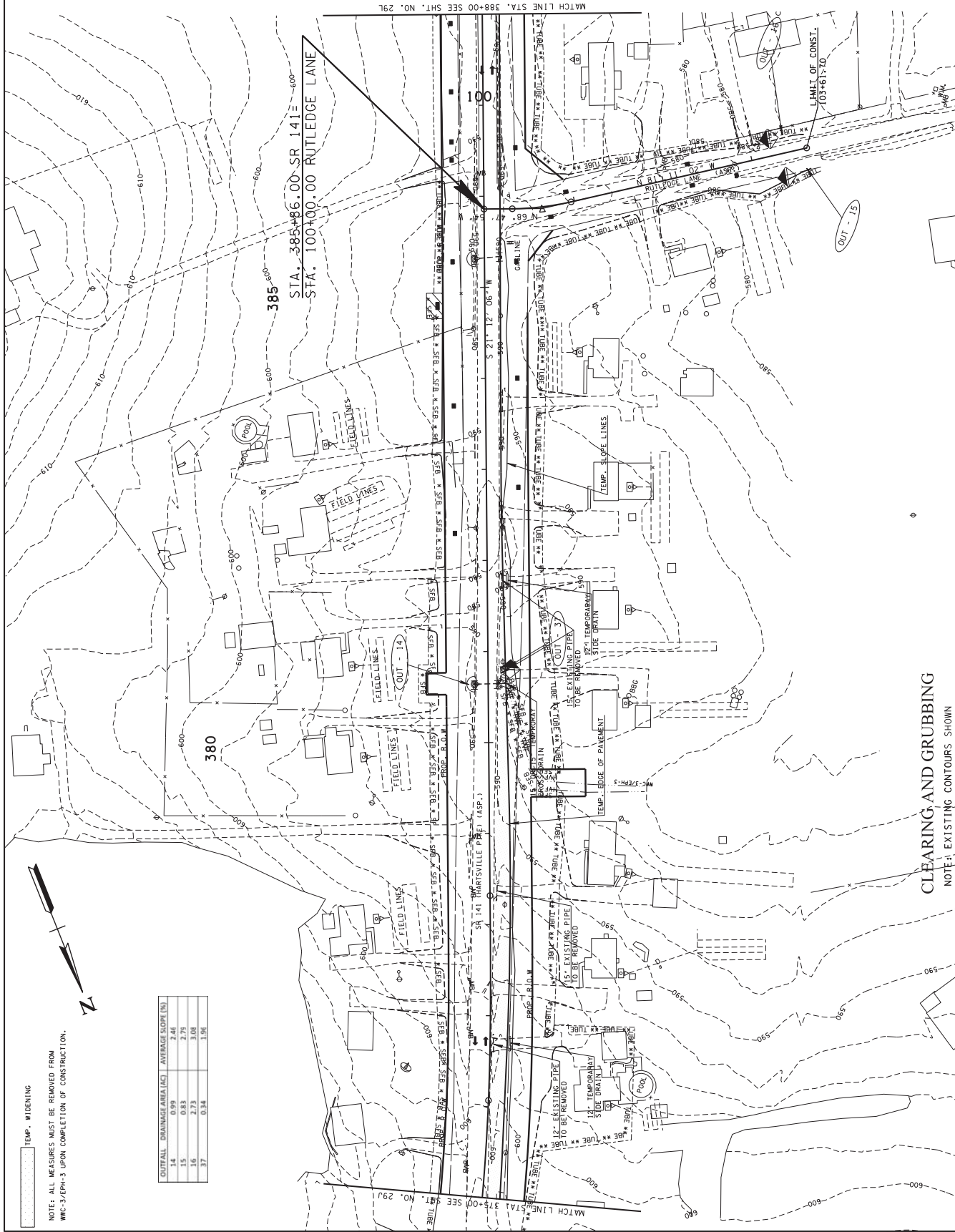
STA. 362+00 TO STA. 375+00
SCALE: 1"= 50'

SHEET NO.	PROJECT NO.	YEAR	TYPE
30E	STP-141(18)		R.O.W.
29K	STP-141(18)		CONST.

REV. 02/22/2010:
ADJUSTED PRIVATE DRIVE SLOPE LINES
FOR TRACT 61A TO MATCH THE PLANS
REV. 08/16/2010:
REVISED PRIVATE DRIVE SLOPE LINES
FOR TRACT 5A.



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
**EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE I**
STA. 375+00 TO STA. 388+00
SCALE: 1"=50'



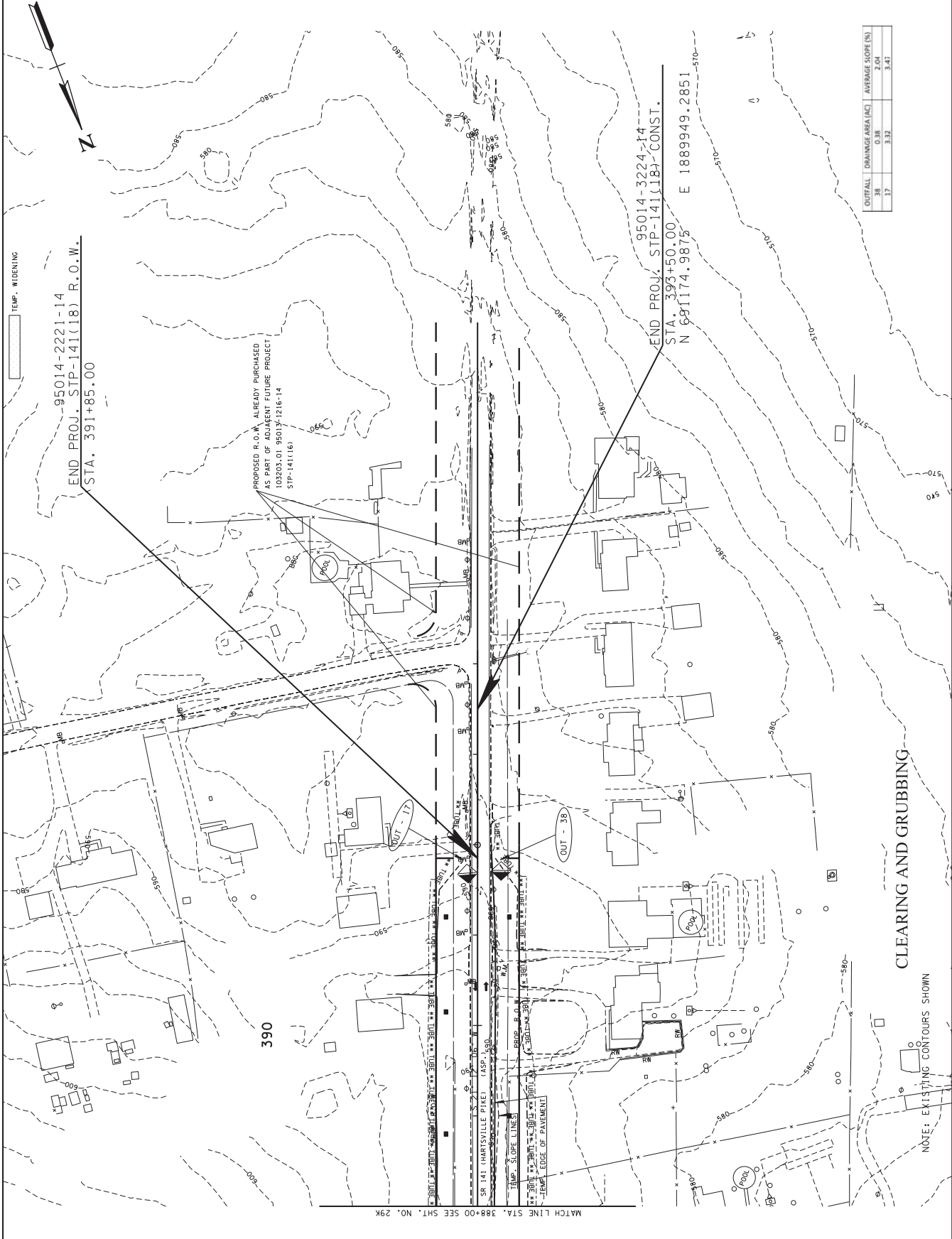
TEMP. WIDENING

NOTE: ALL MEASURES MUST BE REMOVED FROM
WMC-3/EPH-3 UPON COMPLETION OF CONSTRUCTION.

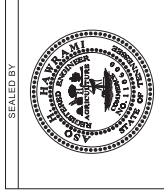
OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
14	0.83	2.75
15	0.83	2.75
16	2.73	3.08
37	0.34	1.96

CLEARING AND GRUBBING
NOTE: EXISTING CONTOURS SHOWN

SHEET NO.	PROJECT NO.	YEAR	TYPE
30F	STP-141(18)	2017	R.O.W.
29L	STP-141(18)	2017	CONST.

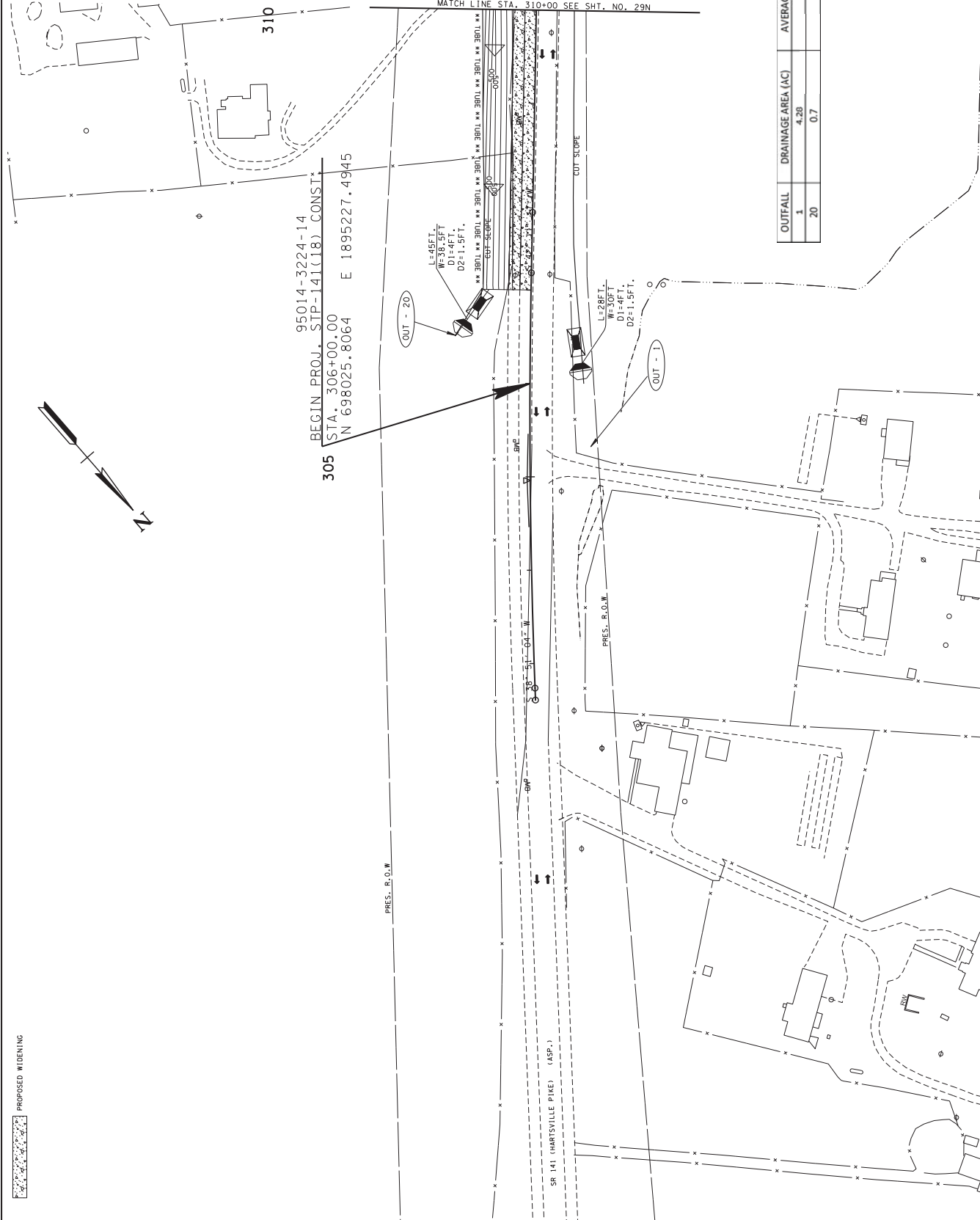


OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
38	0.38	2.04
17	3.32	3.47



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE I
STA. 388+00 TO STA. 394+00
SCALE: 1" = 50'

PROPOSED WIDENING



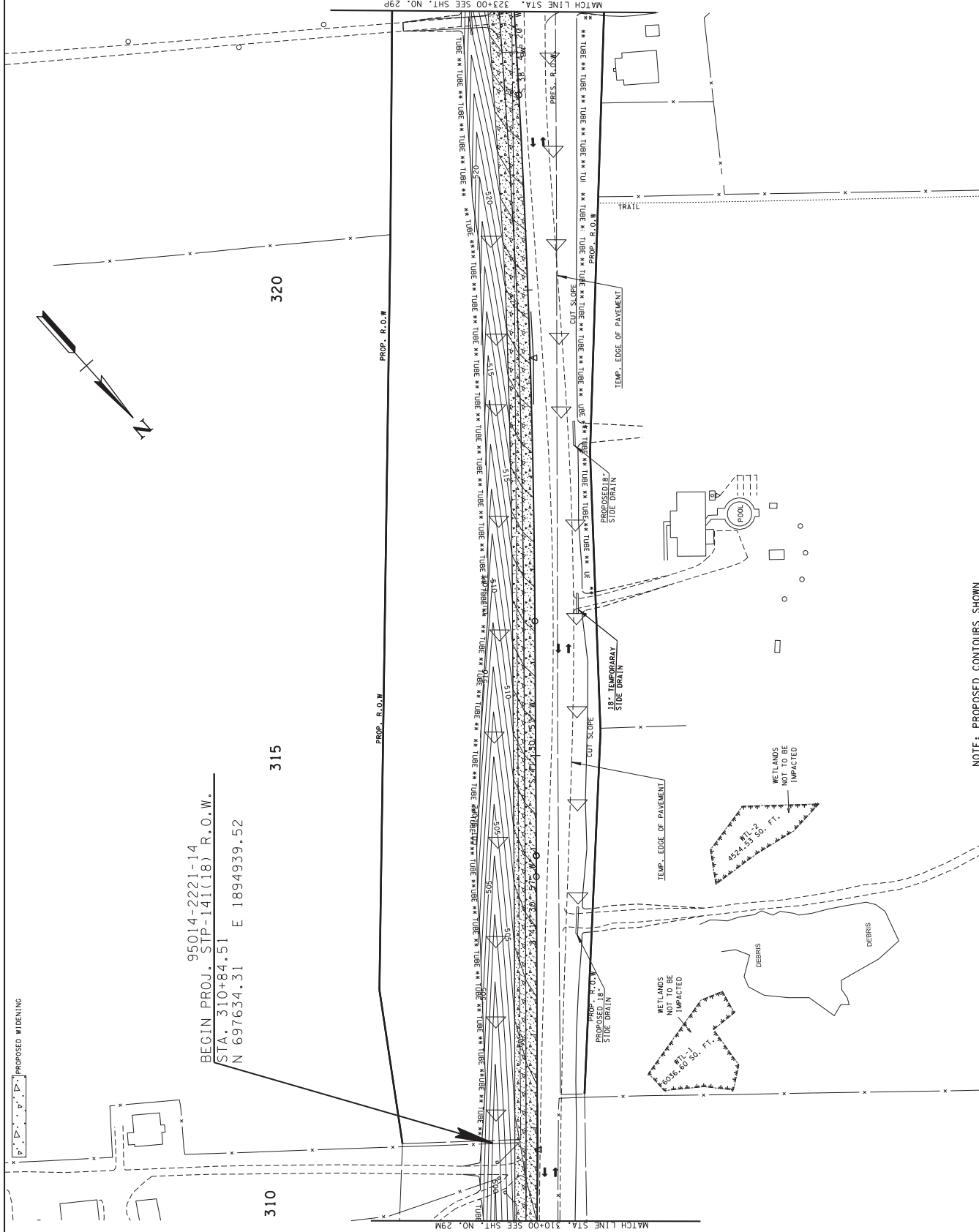
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	29M



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
**EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE II**
STA. 306+00 TO STA. 310+00
SCALE: 1"=50'

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
1	4.28	2.26
20	0.7	1.51

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	29N

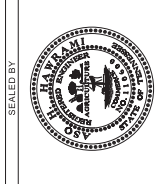


NOTE: PROPOSED CONTOURS SHOWN

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE II

STA. 310+00 TO STA. 323+00
SCALE: 1" = 50'

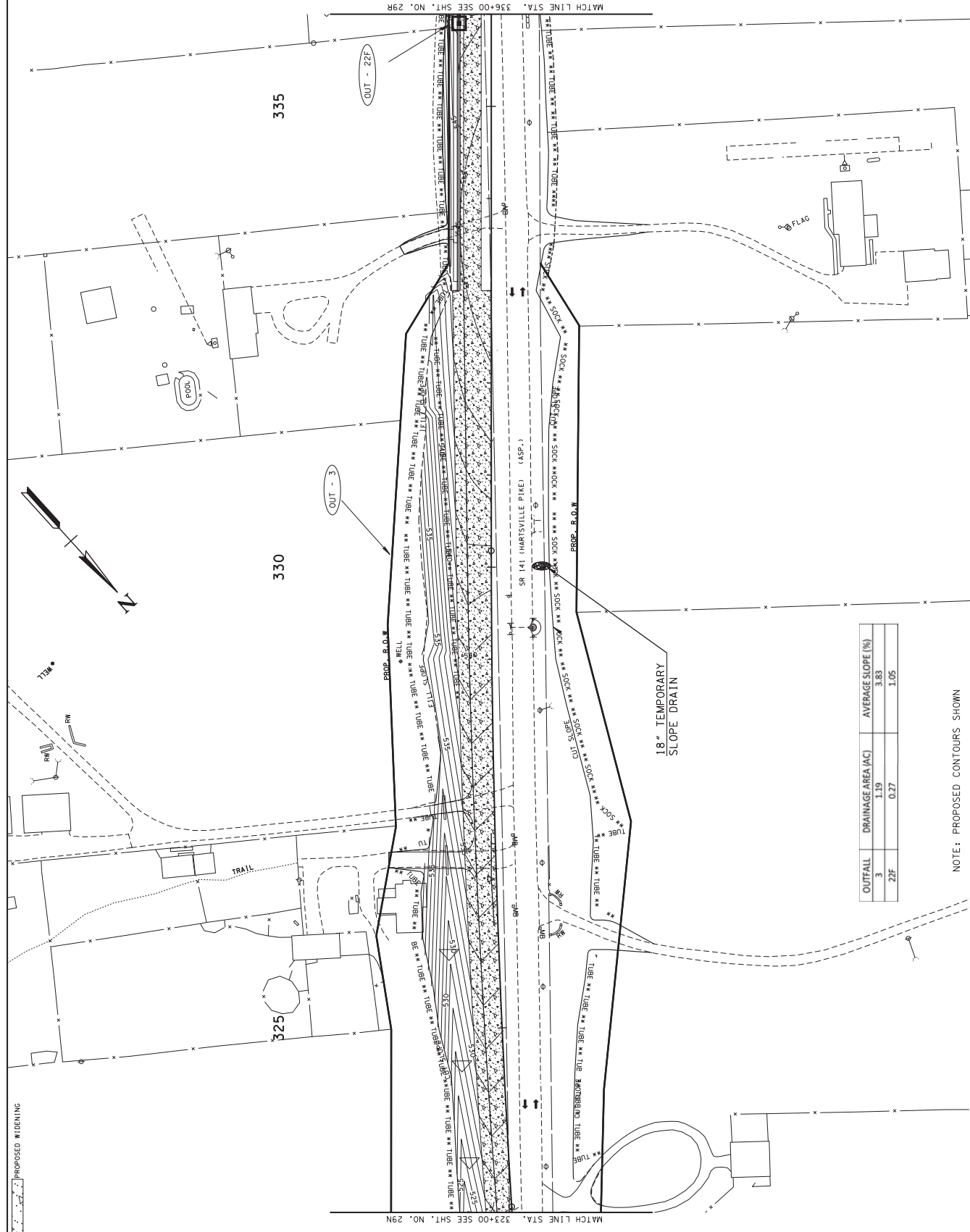


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SHEET NO.	PROJECT NO.	YEAR	TYPE
29P	STP-141(18)	2017	CONST.



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
**EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE II**
STA. 323+00 TO STA. 336+00
SCALE: 1" = 50'



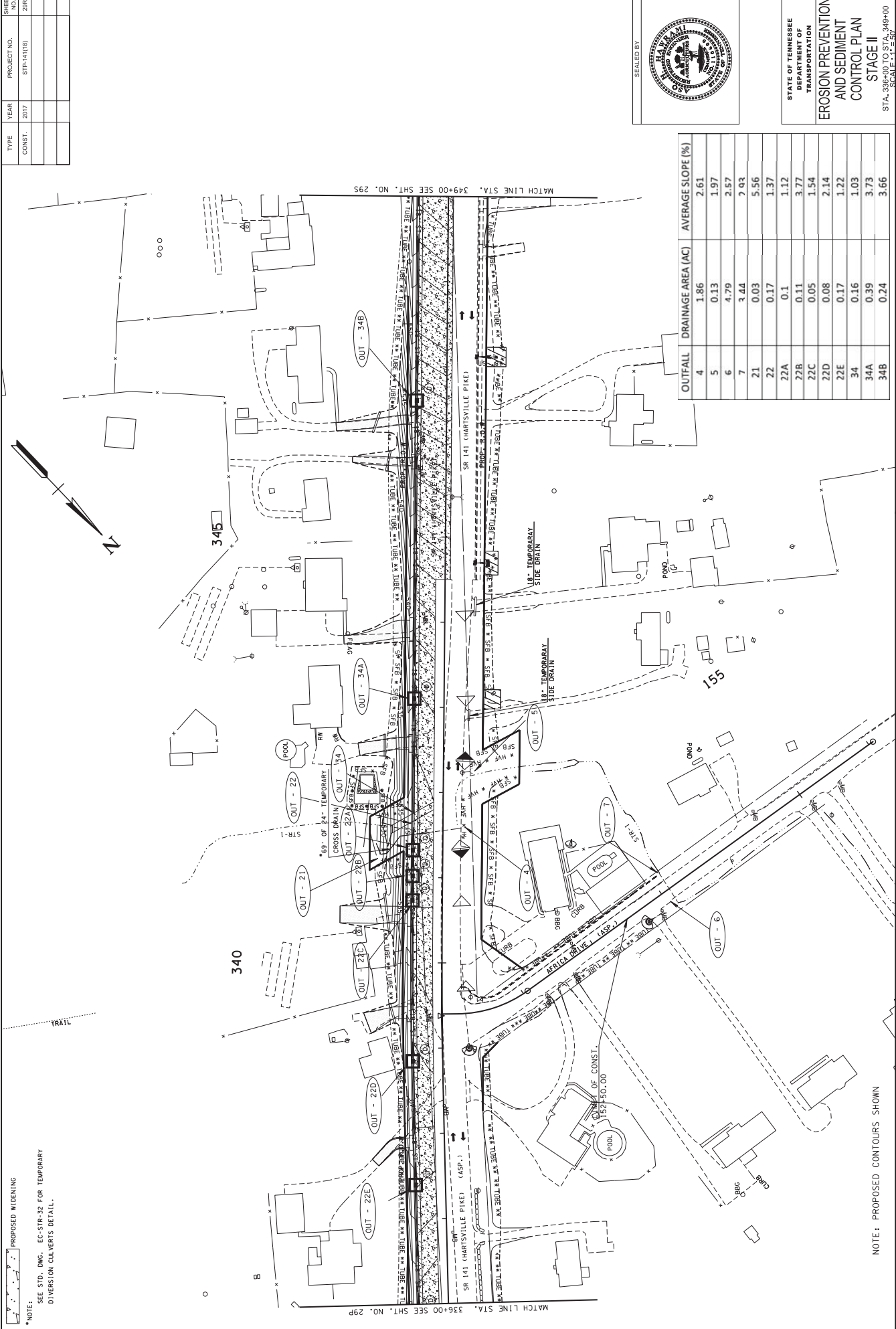
OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
3	1.19	3.83
22F	0.27	1.05

NOTE: PROPOSED CONTOURS SHOWN

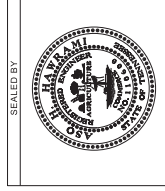
SHEET NO.	PROJECT NO.	YEAR	TYPE
29R	STP-14(18)	2017	CONST.

SHEET NO.	PROJECT NO.	YEAR	TYPE
29R	STP-14(18)	2017	CONST.

*NOTE:
 SEE STD. DWG. EC-STR-32 FOR TEMPORARY
 DIVERSION CULVERTS DETAIL.



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
4	1.86	2.61
5	0.13	1.97
6	4.79	2.57
7	2.44	7.91
21	0.03	5.56
22	0.17	1.37
22A	0.1	1.12
22B	0.11	3.77
22C	0.05	1.54
22D	0.08	2.14
22E	0.17	1.22
34	0.16	1.03
34A	0.39	3.73
34B	0.24	3.66

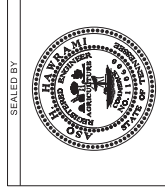


STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION
 EROSION PREVENTION
 AND SEDIMENT
 CONTROL PLAN
 STAGE II
 STA. 336+00 TO STA. 349+00
 SCALE: 1" = 50'

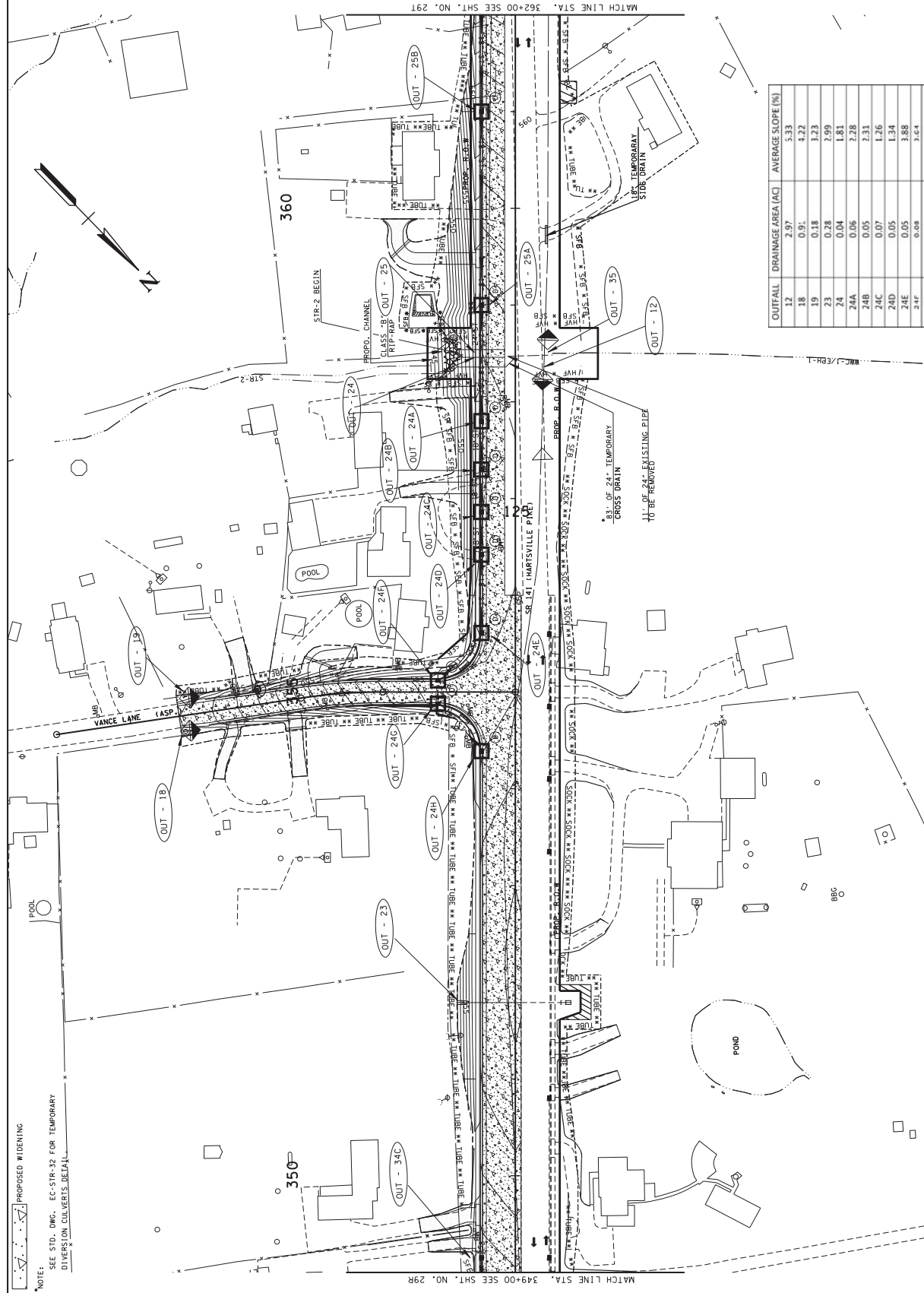
NOTE: PROPOSED CONTOURS SHOWN

NOTE: PROPOSED CONTOURS SHOWN

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
**EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE II**
STA. 349+00 TO STA. 362+00
SCALE: 1" = 50'



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
12	2.97	5.33
18	0.91	4.22
19	0.18	3.23
23	0.28	2.99
24	0.04	1.81
24A	0.06	2.28
24B	0.05	2.31
24C	0.07	1.26
24D	0.05	1.34
24E	0.05	3.88
24F	0.05	1.68
24G	0.12	1.68
24H	0.06	1.24
25	0.05	2.05
25A	0.20	2.64
25B	0.26	1.38
34C	0.34	1.29
35	4.42	2.96

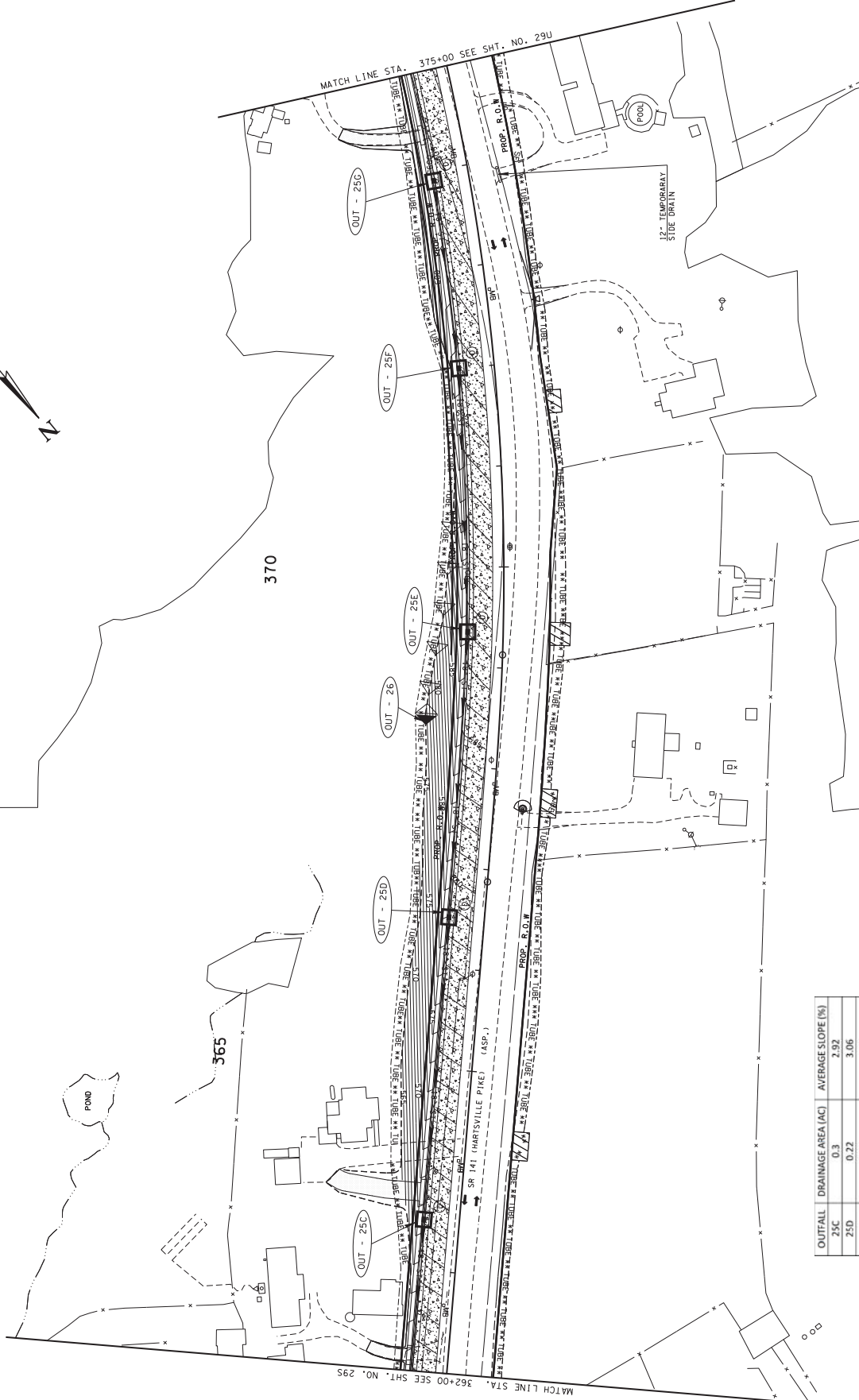
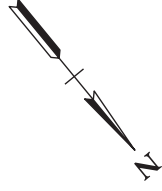


SHEET NO.	PROJECT NO.	YEAR	TYPE
255	STP-141(18)	2017	CONST.

NOTE:
PROPOSED WIDENING
SEE STD. DWG. EC-STP-32 FOR TEMPORARY
DIVERSION CULVERTS DETAIL

PROPOSED WIDENING

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	287



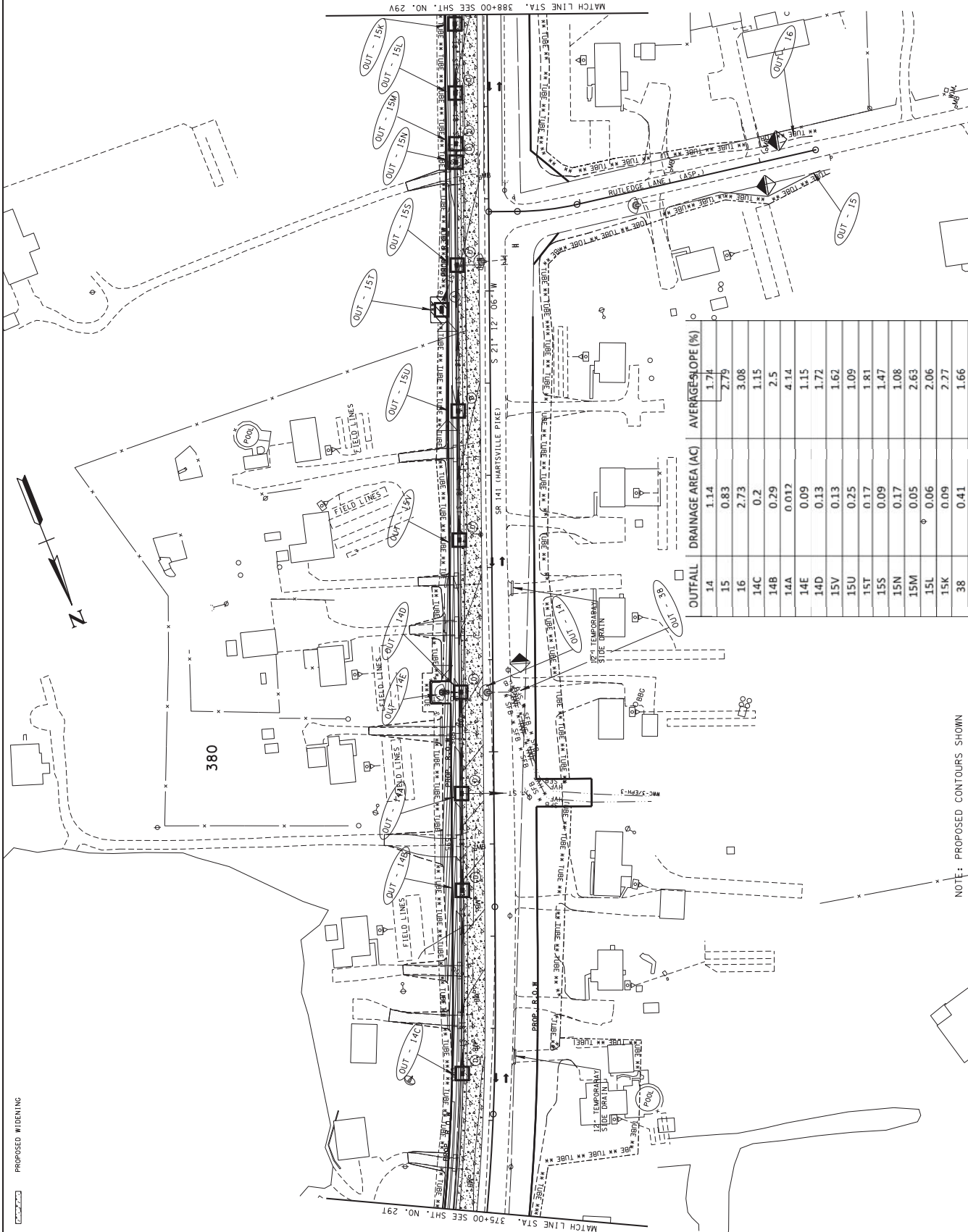
OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
25C	0.3	2.92
25D	0.22	3.06
26	0.2	8.71
25E	0.51	4.55
25F	0.41	2.33
25G	0.35	0.85

NOTE: PROPOSED CONTOURS SHOWN

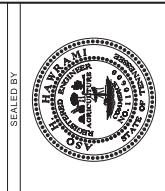


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
**EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE II**
STA. 362+00 TO STA. 375+00
SCALE: 1" = 50'

PROPOSED WIDENING



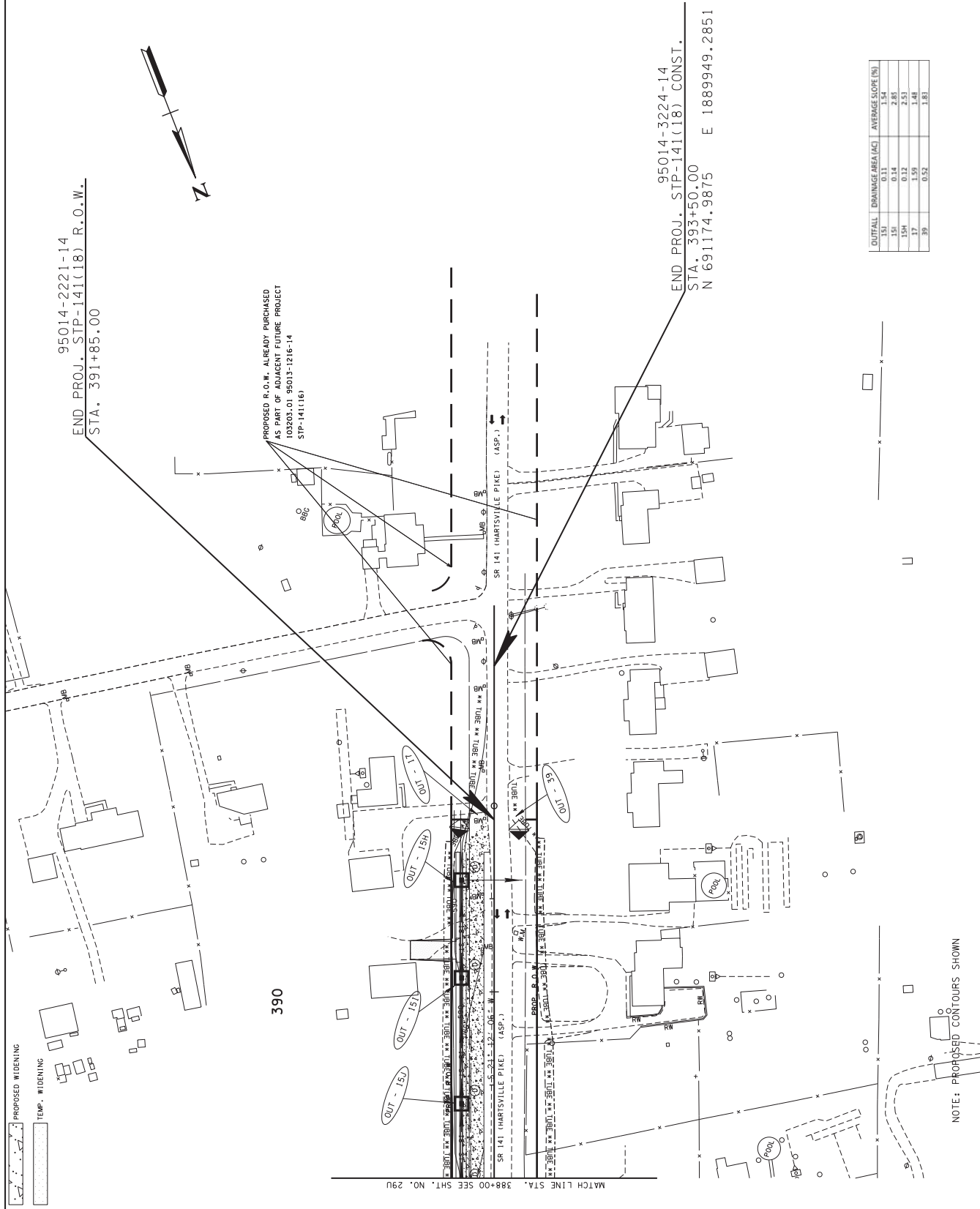
SHEET NO.	PROJECT NO.	YEAR	TYPE
28U	STP-14(18)	2017	CONST.



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE II
STA. 375+00 TO STA. 388+00
SCALE: 1" = 50'

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
14	1.14	1.74
15	0.83	2.79
16	2.73	3.08
14C	0.2	1.15
148	0.29	2.5
14A	0.012	4.14
14E	0.09	1.15
14D	0.13	1.72
15V	0.13	1.62
15U	0.25	1.09
15T	0.17	1.81
15S	0.09	1.47
15N	0.17	1.08
15M	0.05	2.63
15L	0.06	2.06
15K	0.09	2.77
38	0.41	1.66

NOTE: PROPOSED CONTOURS SHOWN



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
15J	0.11	1.54
15I	0.14	2.85
15H	0.12	2.53
17	1.59	1.48
20	0.72	1.48

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

**EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE II**

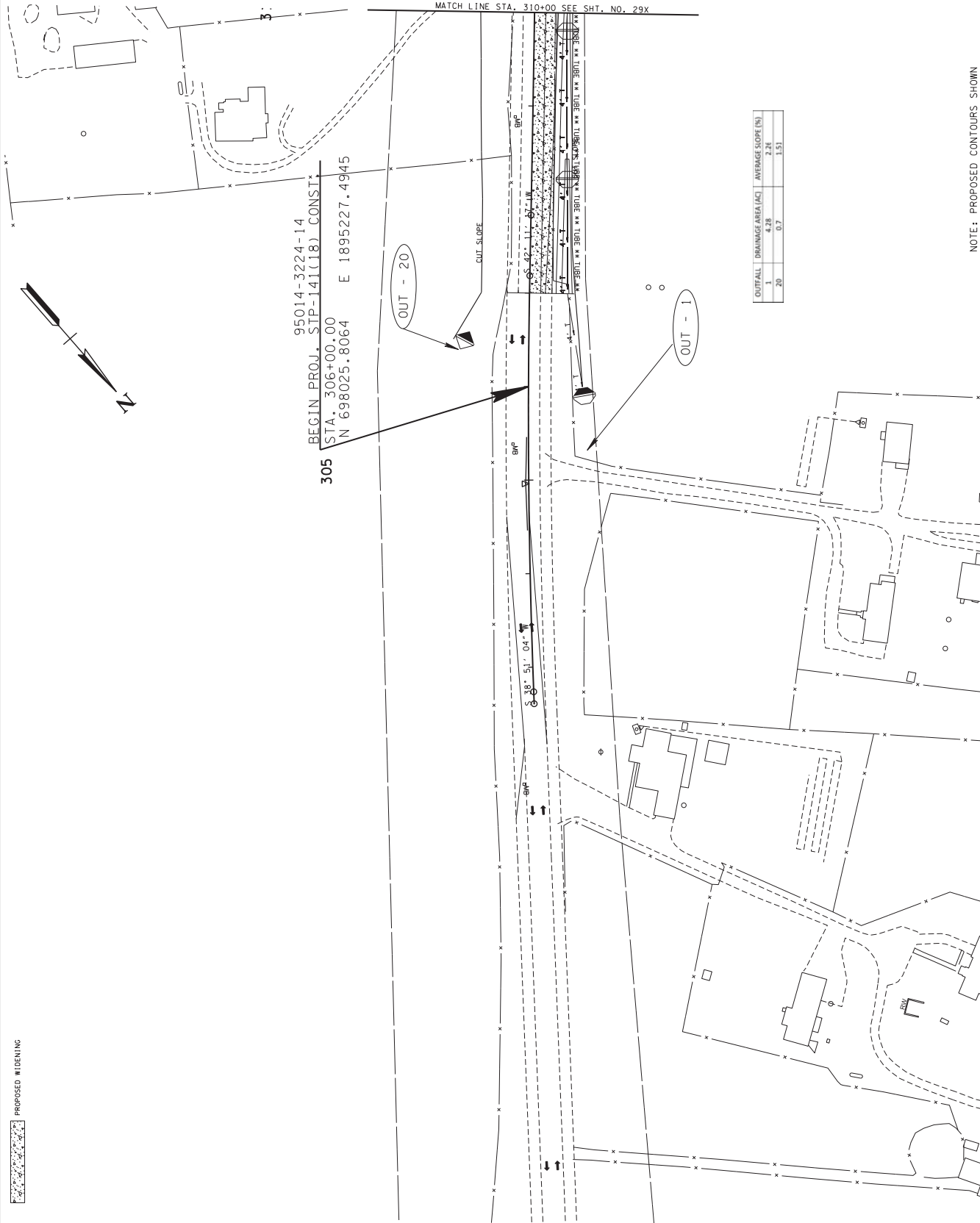
STA. 388+00 TO STA. 394+00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(16)	29V

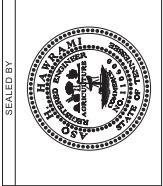
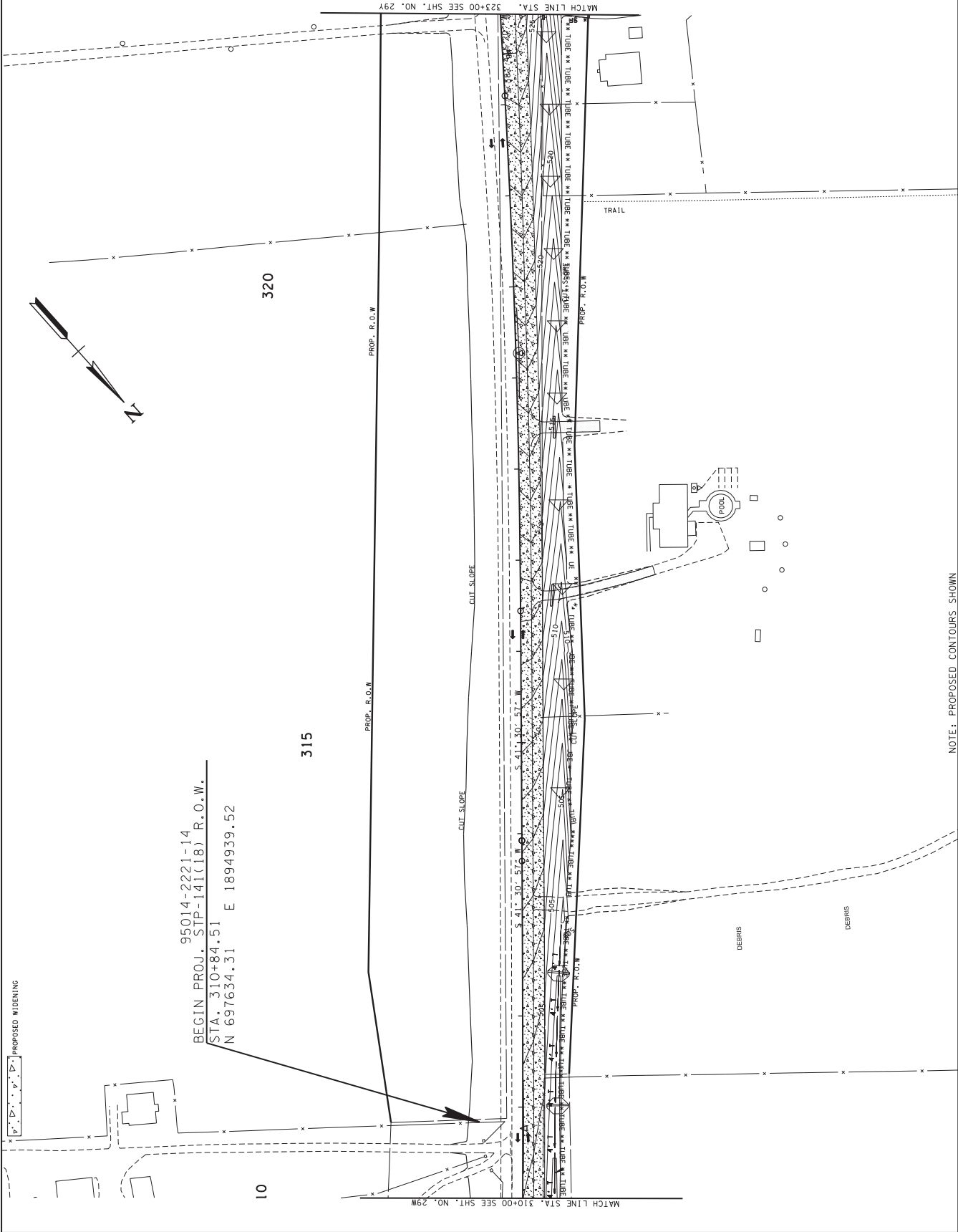
PROPOSED WIDENING

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	29W



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE III
STA. 306+00 TO STA. 310+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	29X



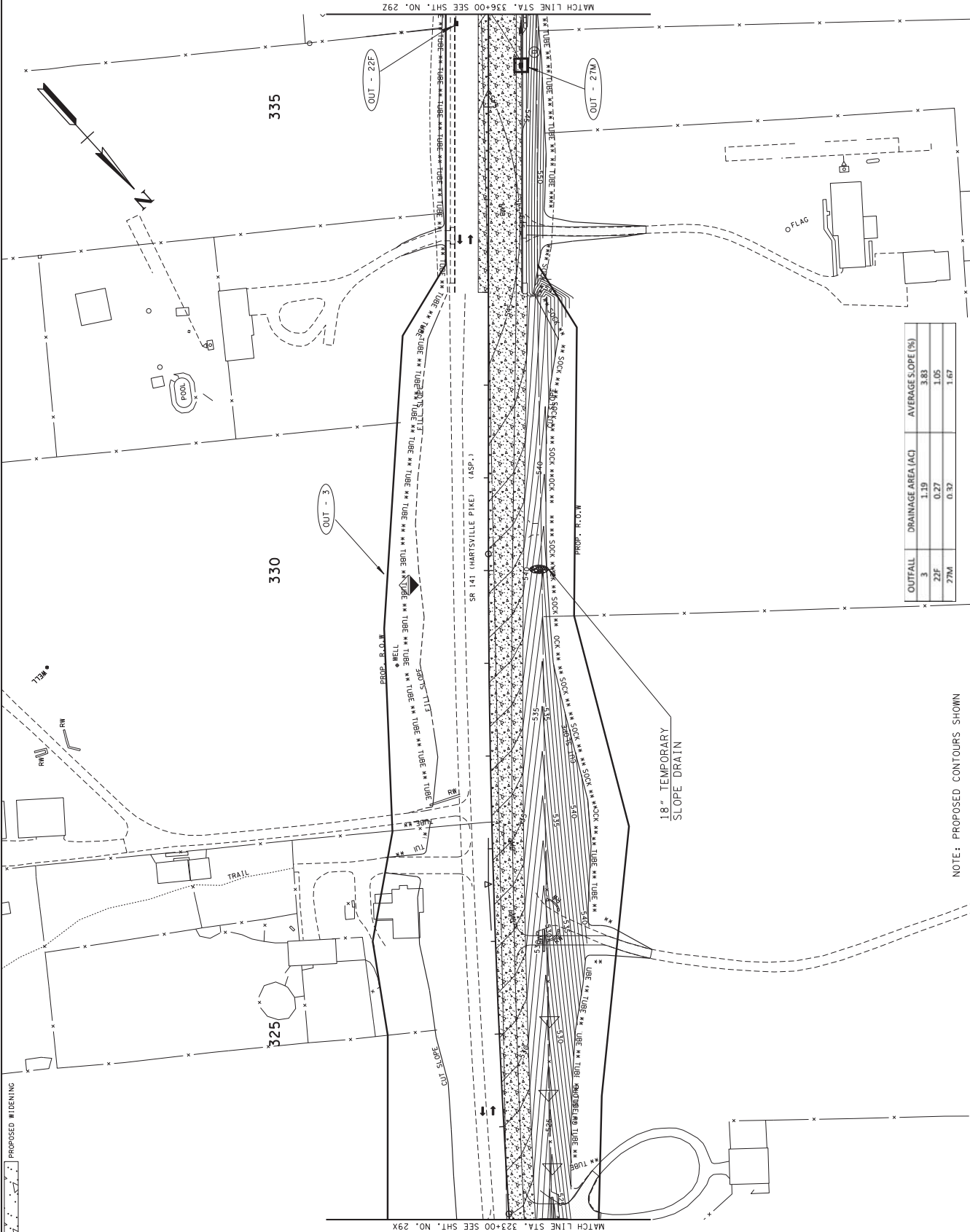
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

**EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE III**

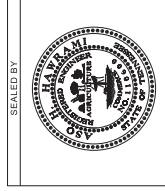
STA. 310+00 TO STA. 323+00
SCALE: 1" = 50'

NOTE: PROPOSED CONTOURS SHOWN

SHEET NO.	PROJECT NO.	YEAR	TYPE
28Y	STP-141(18)	2017	CONST.



NOTE: PROPOSED CONTOURS SHOWN

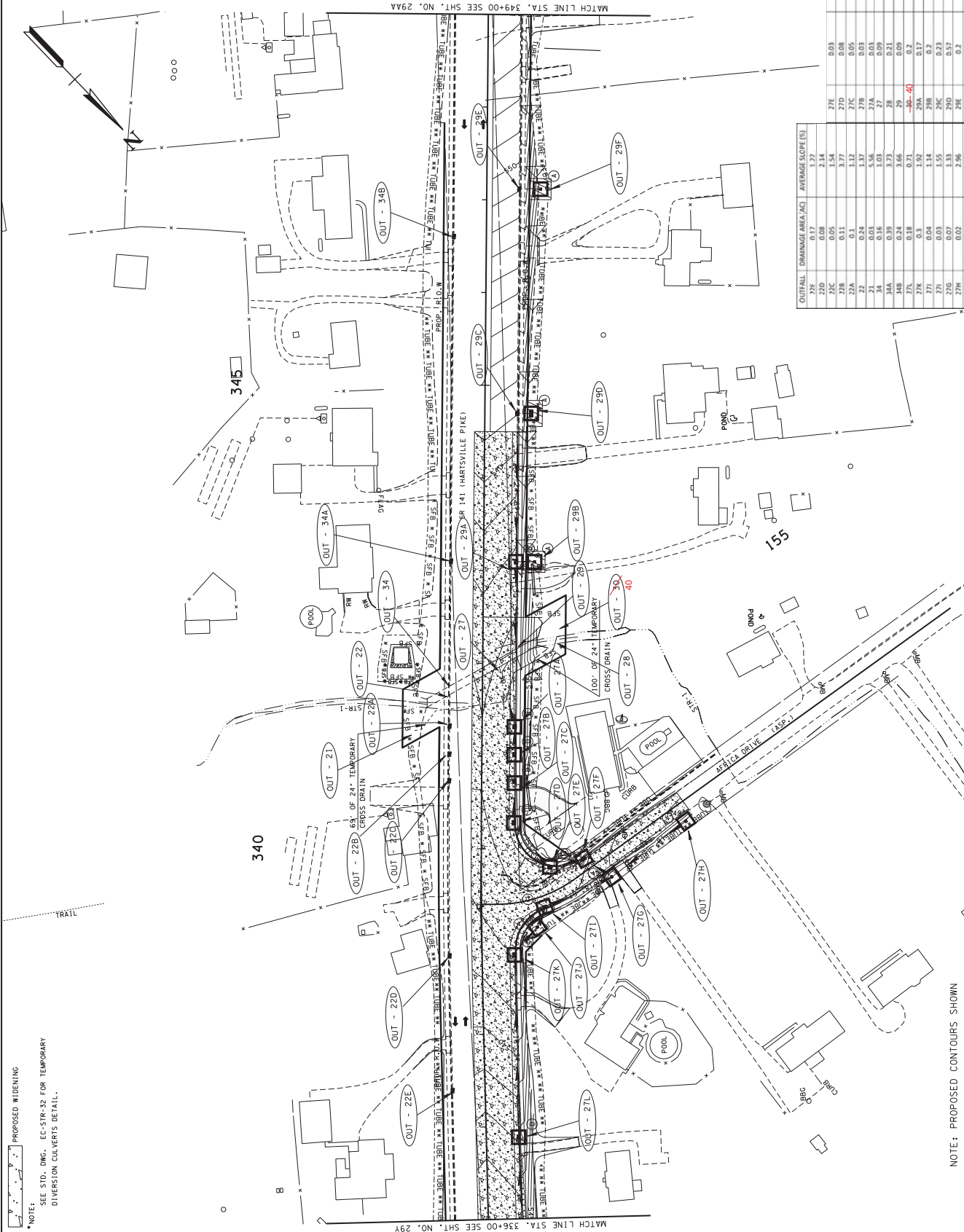


STATE OF TENNESSEE
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TRANSPORTATION

EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE III

STA. 323+00 TO STA. 336+00
SCALE: 1" = 50'

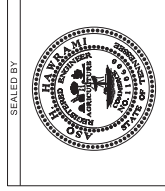
*NOTE:
SEE STD. DWG. EC-SR-32 FOR TEMPORARY
DIVERSION CULVERTS DETAIL.



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
27F	0.17	1.72
27D	0.08	2.14
27C	0.05	1.54
27B	0.11	3.77
27A	0.11	1.12
27	0.11	1.72
26	0.03	5.56
25	0.16	1.03
24	0.39	3.73
23	0.24	3.66
22	0.19	0.73
21	0.17	3.73
20	0.04	1.14
19	0.03	1.55
18	0.07	1.33
17	0.02	2.96
16	0.05	1.58
15		2.98
14		0.33
13		3.17

STATE OF TENNESSEE
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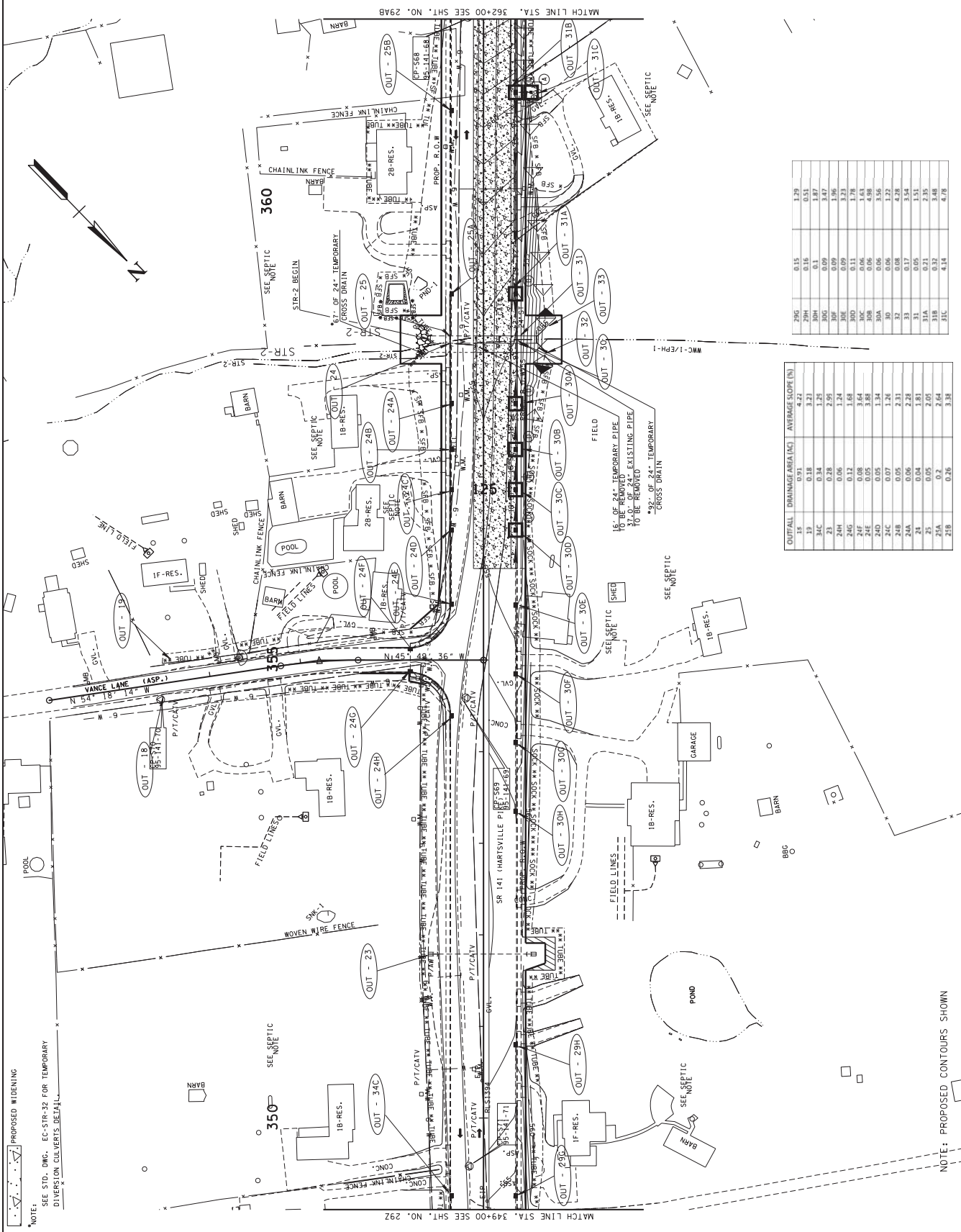
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE III
STA. 336+00 TO STA. 349+00
SCALE: 1"=50'



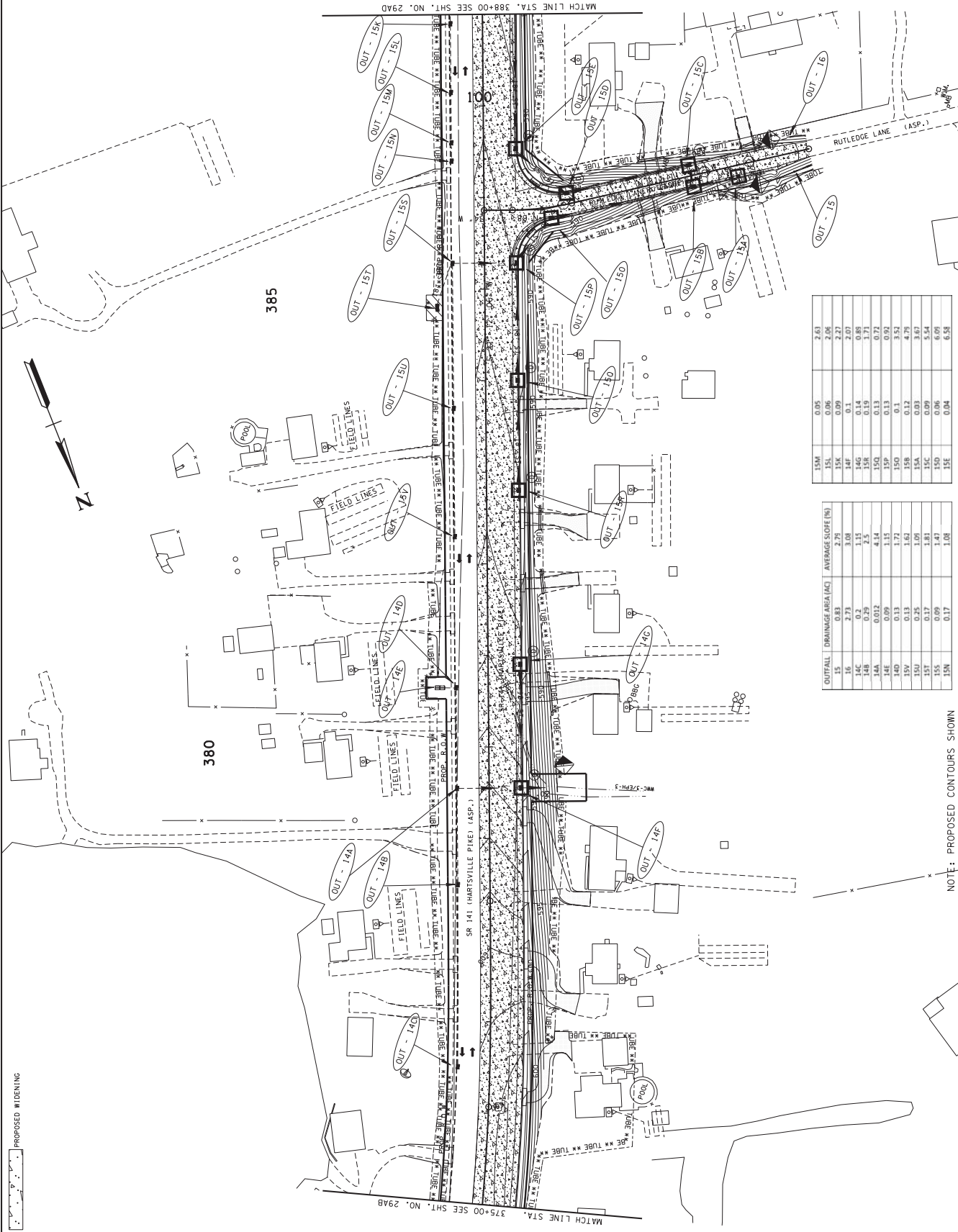
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	292

29G	0.15	8.29
29H	0.11	9.91
29I	0.09	11.53
30G	0.09	3.47
30H	0.09	1.96
30I	0.09	3.23
30D	0.11	1.78
30C	0.06	1.63
30B	0.06	4.98
30A	0.06	3.56
30	0.06	4.72
30	0.08	4.77
31	0.17	3.54
31	0.05	1.51
31A	0.21	2.35
31B	0.32	3.48
31C	4.14	4.78

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
15	0.91	4.22
19	0.18	3.21
34C	0.34	3.25
23	0.28	2.95
24H	0.06	1.24
24G	0.12	1.68
24F	0.08	3.64
24E	0.05	3.88
24D	0.05	1.34
24C	0.07	2.26
24B	0.05	2.31
24A	0.05	2.31
21	0.04	1.83
22	0.05	2.05
25A	0.2	2.64
21B	0.26	3.38



PROPOSED WIDENING



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
15	0.83	2.70
16	2.73	3.08
14C	0.2	1.15
14B	0.29	2.5
14A	0.012	4.14
14E	0.09	1.15
14D	0.13	1.62
15B	0.13	1.09
15D	0.25	1.81
15T	0.17	1.47
15S	0.09	1.47
15N	0.17	1.08

15M	0.05	2.63
15K	0.05	2.72
15J	0.09	2.07
14F	0.1	0.88
14G	0.14	1.71
15H	0.19	0.72
15O	0.13	0.92
15P	0.13	4.78
15R	0.12	3.67
15A	0.03	5.54
15C	0.09	6.09
15U	0.06	6.58
15E	0.04	6.58

NOTE: PROPOSED CONTOURS SHOWN



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CONTROL PLAN
STAGE III**
STA. 375+00 TO STA. 388+00
SCALE: 1" = 50'

SHEET NO.	PROJECT NO.	YEAR	TYPE
25AC	STP-141(18)	2017	CONST.

PROPOSED WIDENING

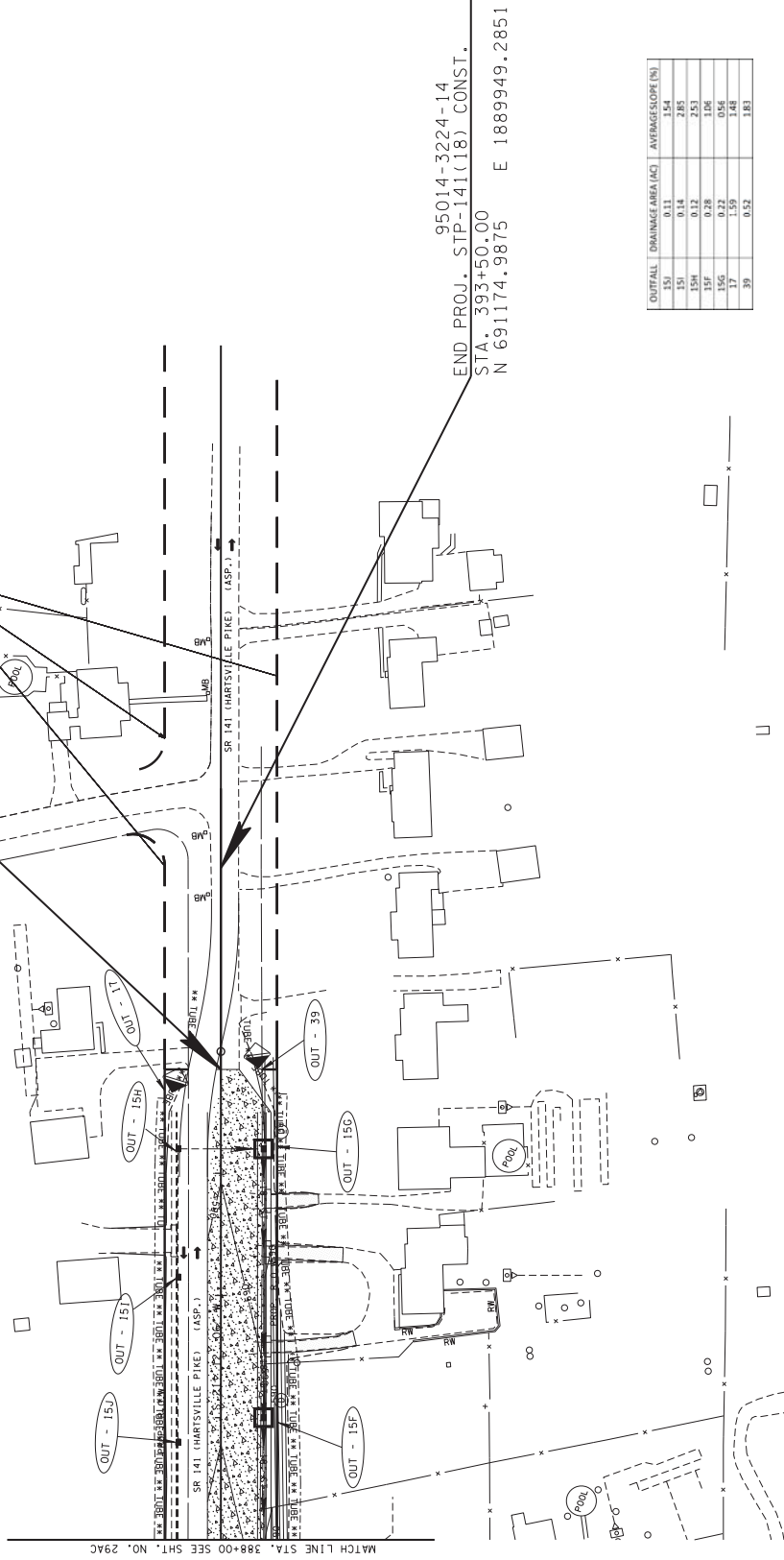
ZZZ

95014-2221-14
END PROJ. STP-141(18) R.O.W.
STA. 391+85.00

390



PROPOSED R.O.W. ALREADY PURCHASED
AS PART OF ADJACENT FUTURE PROJECT
103203.01 95013-1216-14
STP-141(16)



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
15I	0.11	1.54
15J	0.11	2.54
15H	0.12	2.51
15G	0.28	1.06
15F	0.22	0.56
15K	1.59	1.48
39	0.52	1.83

NOTE: PROPOSED CONTOURS SHOWN

SEALED BY

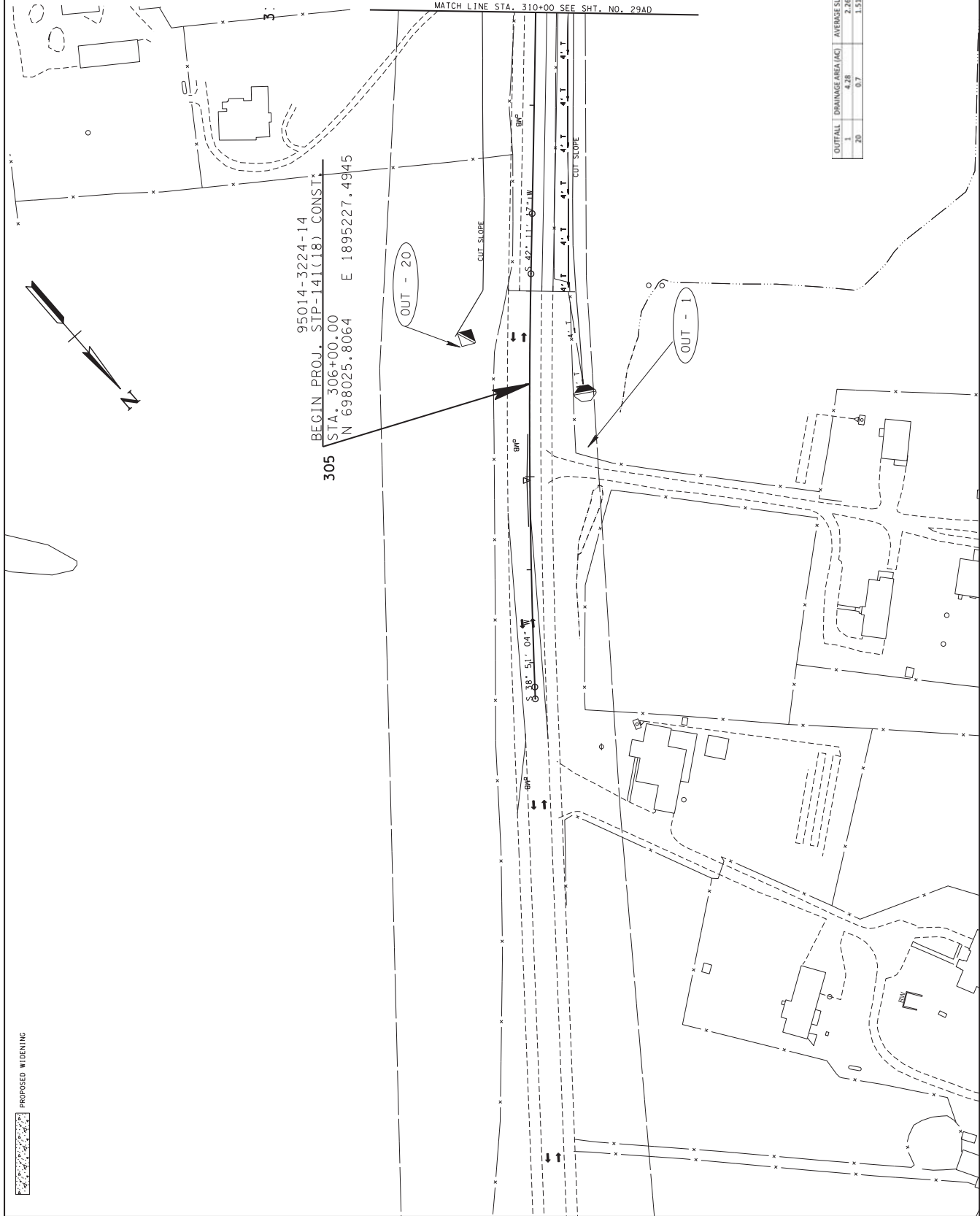


STATE OF TENNESSEE
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AND SEDIMENT
CONTROL PLAN
STAGE III
STA. 988+00 TO STA. 394+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	25AD

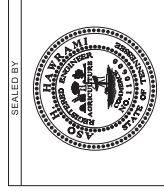
PROPOSED WIDENING



95014-3224-14
BEGIN PROJ. STP-141(18) CONST.
STA. 306+00.00
N 698025.8064 E 1895227.4945

MATCH LINE STA. 310+00 SEE SHT. NO. 29AD

OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
1	4.28	2.26
20	0.7	1.51

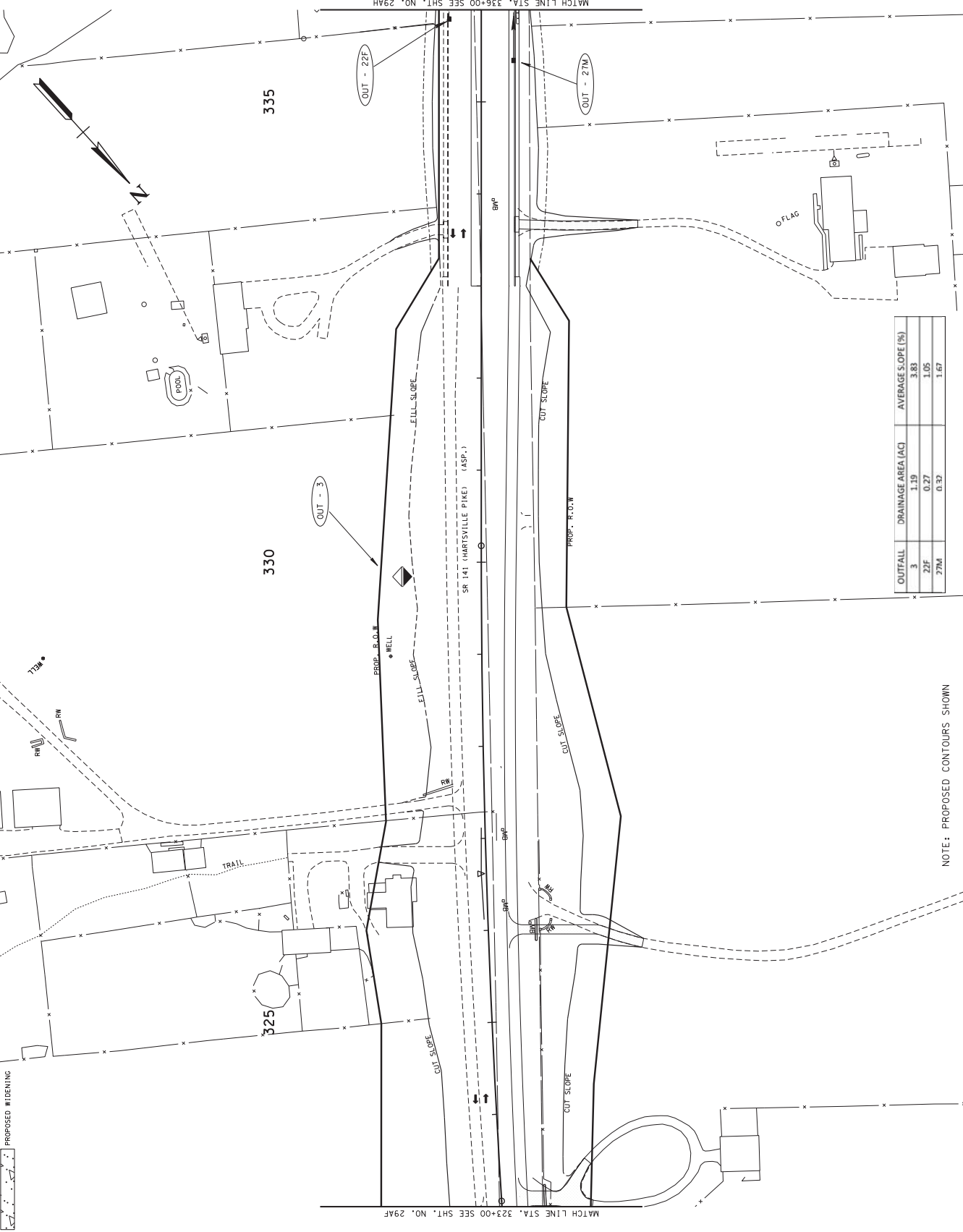


STATE OF TENNESSEE
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AND SEDIMENT
CONTROL PLAN
STAGE IV
STA. 306+00 TO STA. 310+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	29AE



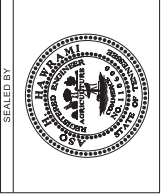
PROPOSED WIDENING



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
3	1.19	3.83
22F	0.27	1.05
27M	0.32	1.67

NOTE: PROPOSED CONTOURS SHOWN

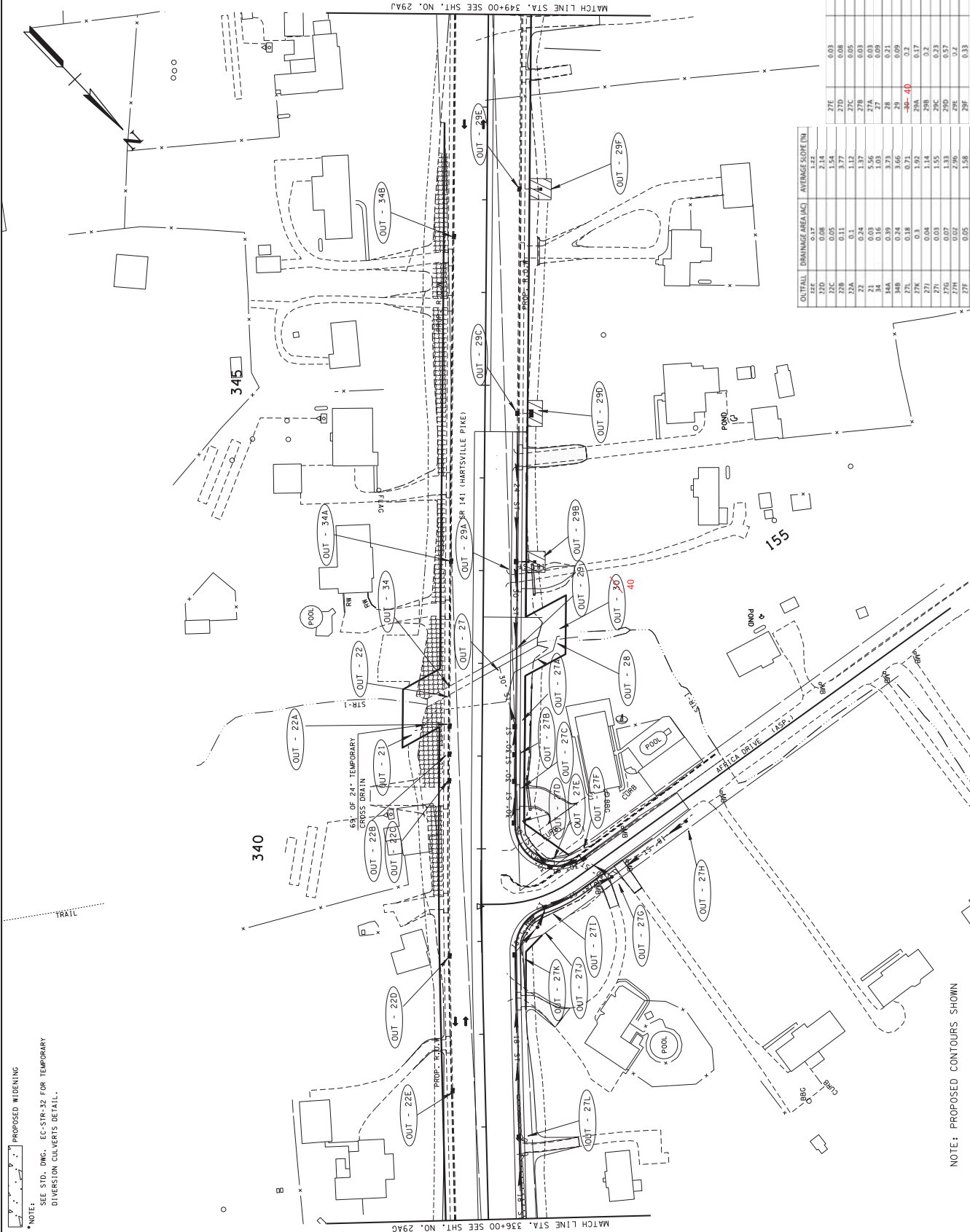
SHEET NO.	PROJECT NO.	YEAR	TYPE
25AG	STP-141(18)	2017	CONST.



STATE OF TENNESSEE
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CONTROL PLAN
STAGE IV**
STA. 323+00 TO STA. 336+00
SCALE: 1" = 50'

*NOTE:
PROPOSED WIDENING
SEE STD. DWG. EC-SR-32 FOR TEMPORARY
DIVERSION CULVERTS DETAIL.

SHEET NO.	PROJECT NO.	YEAR	TYPE
29AH	STP-141(18)	2017	CONST.

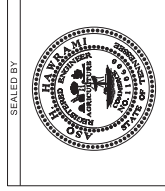


MATCH LINE STA. 336+00 SEE SHT. NO. 29AG

MATCH LINE STA. 349+00 SEE SHT. NO. 29AJ

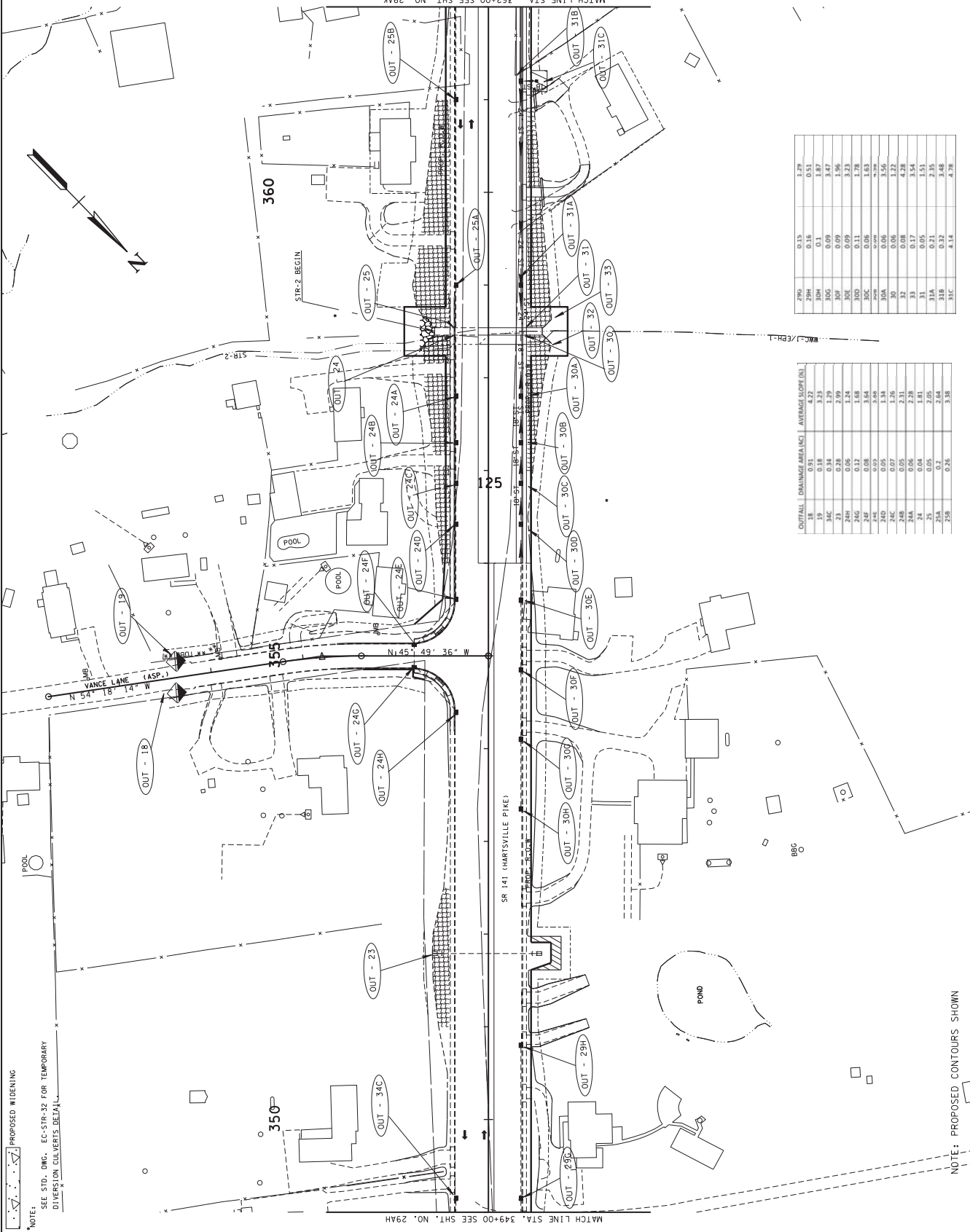
OUTFALL	DRAINAGE AREA (AC)	AVERAGE SCOT (IN)
22A	0.17	2.14
22B	0.08	1.54
22C	0.05	1.77
22D	0.11	3.77
22E	0.08	2.55
22F	0.08	2.55
22G	0.08	2.55
22H	0.08	2.55
22I	0.08	2.55
22J	0.08	2.55
22K	0.08	2.55
22L	0.08	2.55
22M	0.08	2.55
22N	0.08	2.55
22O	0.08	2.55
22P	0.08	2.55
22Q	0.08	2.55
22R	0.08	2.55
22S	0.08	2.55
22T	0.08	2.55
22U	0.08	2.55
22V	0.08	2.55
22W	0.08	2.55
22X	0.08	2.55
22Y	0.08	2.55
22Z	0.08	2.55

NOTE: PROPOSED CONTOURS SHOWN



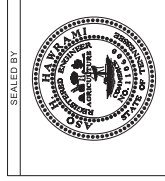
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE IV
STA. 336+00 TO STA. 349+00
SCALE: 1"=50'

NOTE:
PROPOSED WIDENING
SEE STD. DWG. EC-SR-32 FOR TEMPORARY
DIVERSION CULVERTS DETAIL



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (ft/ft)
18	0.91	4.22
19	0.18	3.23
31C	0.34	1.79
31D	0.34	1.79
24H	0.06	1.34
24G	0.12	1.68
24F	0.08	3.64
24E	0.05	1.84
24D	0.05	1.36
24C	0.07	2.31
24B	0.05	2.28
24A	0.06	2.28
31	0.05	2.05
25	0.05	2.05
25A	0.2	2.64
25B	0.26	3.38

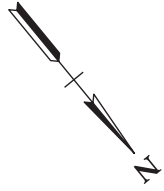
294G	0.15	1.29
294H	0.16	0.51
304	0.1	1.87
305	0.09	1.54
306	0.09	1.54
307	0.09	3.23
308	0.11	1.78
309	0.06	1.63
310	0.06	3.56
311	0.06	1.22
312	0.08	4.28
313	0.17	3.54
314	0.05	3.51
315	0.11	3.51
316	0.32	3.48
31C	4.14	4.78



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CONTROL PLAN
STAGE IV**
STA. 349+00 TO STA. 362+00
SCALE: 1"=50'

SHEET NO.	PROJECT NO.	YEAR	TYPE
294J	STP-141(18)	2017	CONST.

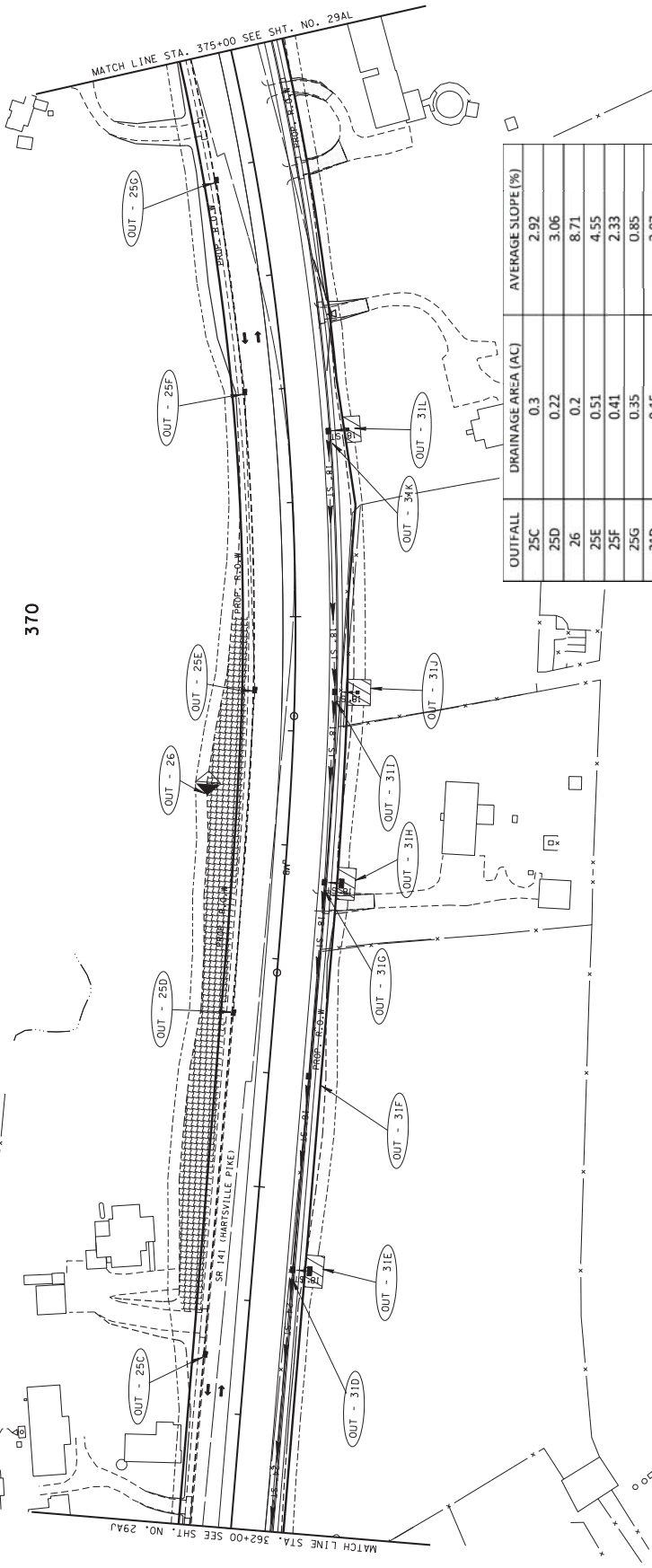
PROPOSED WIDENING



370

365

POND



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
25C	0.3	2.92
25D	0.22	3.06
26	0.2	8.71
25E	0.51	4.55
25F	0.41	2.33
25G	0.35	0.85
31D	0.15	3.87
31E	0.19	3.79
31F	0.15	3.58
31G	0.16	3.08
31H	0.07	3.49
31I	0.25	3.08
31J	0.09	3.92
31K	0.49	1.58
31L	0.49	1.41

NOTE: PROPOSED CONTOURS SHOWN

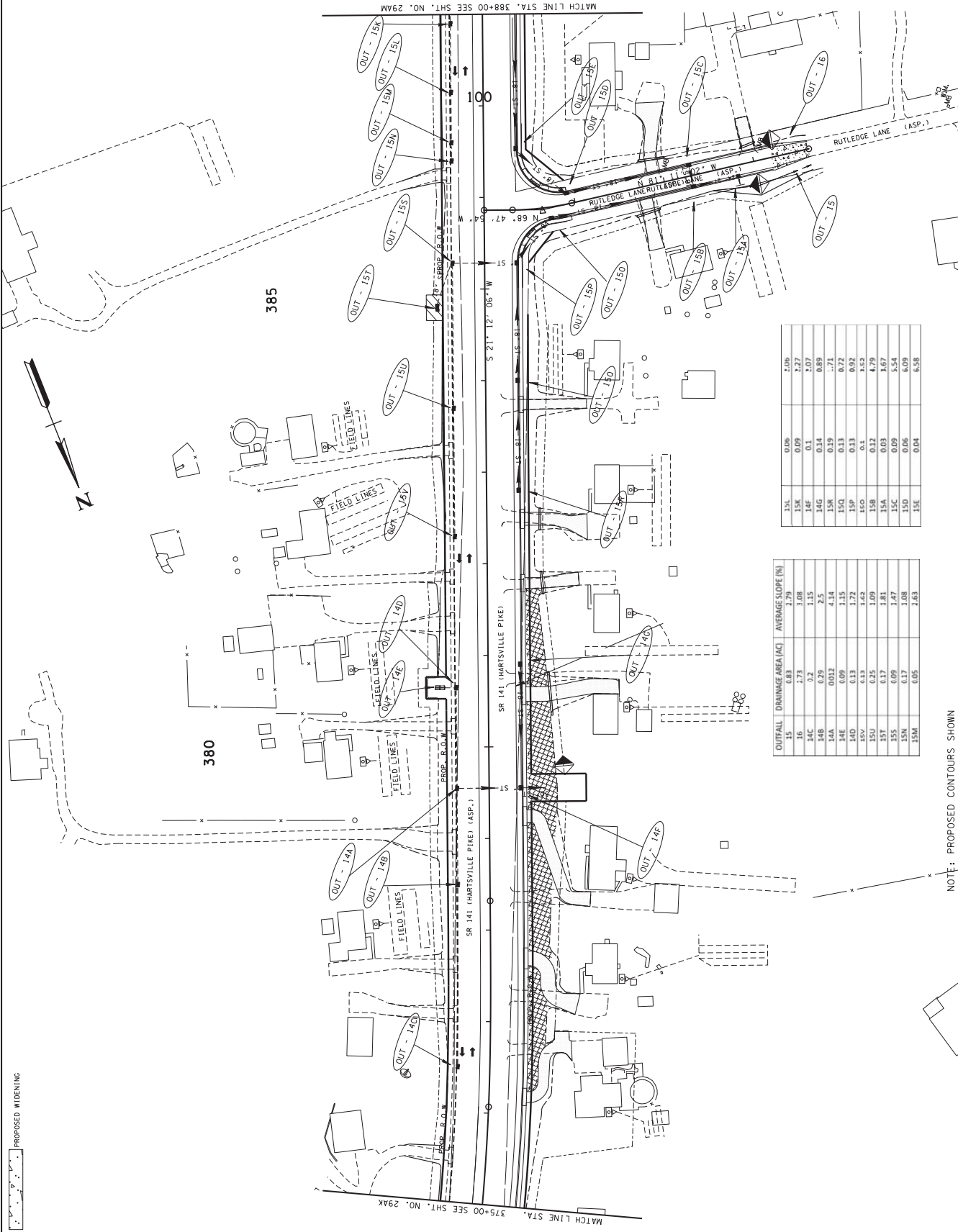
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-141(18)	25AK



STATE OF TENNESSEE
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AND SEDIMENT
CONTROL PLAN
STAGE IV
STA. 362+00 TO STA. 375+00
SCALE: 1" = 50'

PROPOSED WIDENING

SHEET NO.	PROJECT NO.	YEAR	TYPE
29AL	STP-141(18)	2017	CONST.



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
15	6.83	2.79
16	2.73	3.08
14C	0.2	1.15
14B	0.29	2.5
14A	0.012	4.14
14E	0.09	1.15
14D	0.13	1.72
15A	0.25	1.09
15B	0.17	1.81
15C	0.09	1.47
15M	0.17	1.08
15E	0.05	2.63

15L	0.06	2.06
15K	0.09	2.27
14F	0.1	2.07
14G	0.14	0.89
15H	0.19	0.71
15Q	0.13	0.72
15P	0.13	0.92
15R	0.12	4.79
15A	0.03	3.67
15C	0.09	5.54
15D	0.06	6.09
15E	0.04	6.58

NOTE: PROPOSED CONTOURS SHOWN



STATE OF TENNESSEE
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AND SEDIMENT
CONTROL PLAN
STAGE IV**
STA. 375+00 TO STA. 388+00
SCALE: 1" = 50'

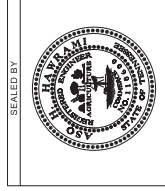
SEALED BY

PROPOSED WIDENING



OUTFALL	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)
15J	0.11	1.54
15I	0.14	2.85
15H	0.12	2.53
15F	0.28	1.06
15G	0.22	0.56
17	1.59	1.48
39	0.52	1.83

NOTE: PROPOSED CONTOURS SHOWN



STATE OF TENNESSEE
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EROSION PREVENTION
AND SEDIMENT
CONTROL PLAN
STAGE IV

STA. 388+00 TO STA. 394+00
SCALES: 1"=20'