

SWPPP INDEX OF SHEETS

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

1. SWPPP REQUIREMENTS (3.0)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (3.1.1)?
 YES (CHECK ALL THAT APPLY BELOW) OR NO

- CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (3.1.1)? YES NO

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? YES NO

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

- WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
- EXCEPTIONAL TENNESSEE WATERS

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

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

2. SITE DESCRIPTION (3.5.1)

2.1. PROJECT LIMITS (3.5.1.h): REFER TO TITLE SHEET

2.2. PROJECT DESCRIPTION (3.5.1.a):
 TITLE: SR-112 (U.S. 41A/CLARKSVILLE PIKE)
 COUNTY: DAVIDSON
 PIN: 103764.00

2.3. SITE MAP(S) (2.6.2.): REFER TO TITLE SHEET

2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): REFER TO EXISTING CONTOURS SHEET(S) 53-53M, DRAINAGE MAP SHEET(S) 46-48, 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): 60.8 ACRES

2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 60.8 ACRES

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

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? YES NO
 IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

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

- YES _____ (DATE) NO

IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

2.11. SOIL PROPERTIES (3.5.1.f) (4.1.1).

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

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
ARMOUR SILT LOAM	B	4.1	0.43
ARRINGTON SILT LOAM	B	11.2	0.37
BARFIELD-ROCK OUTCROP COMPLEX	D	7.9	0.28
LINDELL-URBAN LAND COMPLEX	C	5.5	0.37
MIMOSA SILT LOAM, 5 TO 12 PERCENT SLOPES, ERODED	C	18.8	0.37
MIMOSA SILT LOAM, 12 TO 25 PERCENT SLOPES, ERODED	C	10.0	0.43
MIMOSA-ROCK OUTCROP	C	3.3	0.37
MIMOSA-URBAN LAND	C	39.2	0.37

2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? YES NO

2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? YES NO; AND

2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? YES NO N/A (TDOT SP107L WILL BE APPLIED.)

2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.g).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	16.4	27.0	98	0.95
PERVIOUS (WEIGHTED)	44.4	73.0	78	0.30
WEIGHTED CURVE NUMBER OR C-FACTOR =			83	0.47

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	28.7	47.2	98	0.95
PERVIOUS (WEIGHTED)	32.1	52.8	78	0.30
WEIGHTED CURVE NUMBER OR C-FACTOR =			87	0.61

3. ORDER OF CONSTRUCTION ACTIVITIES (3.5.1.b, 3.5.2.a)

CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO: MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

- 3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 53, 54 AND 55)
- 3.2. INSTALL STABILIZED CONSTRUCTION EXITS.
- 3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.
- 3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- 3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.)
- 3.6. REMOVE AND STORE TOPSOIL.
- 3.7. STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY.
- 3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.
- 3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.
- 3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.
- 3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.
- 3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.
- 3.13. COMPLETE FINAL STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)
- 3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.
- 3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

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

4.1. STREAM INFORMATION (3.5.1.j, 3.5.1.k)

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? YES NO

IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

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

- 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION
- EXCEPTIONAL TENNESSEE WATERS (ETW)

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

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	WHITES CREEK	YES	NO	YES	YES
STR-2	UNNAMED TRIBUTARY TO WHITES CREEK	YES	NO	NO	YES
STR-3	EMERALD CREEK	NO	NO	YES	YES
STR-4	UNNAMED TRIBUTARY TO WHITES CREEK	YES	NO	YES	YES

4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2)
 YES NO
STR-2 IS MORE THAN 60-FT FROM THE PROPOSED DISTURBANCE.

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.
 IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

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

A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

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

A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (9.0)
 YES NO

4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) YES NO
 IF YES, EXISTING CONDITIONS DESCRIPTION: N/A

4.1.7. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2.)

4.1.8. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN

BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

4.1.9. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. RECEIVING WATERS OF THE UNITED STATES (WOTUS) (EPHEMERAL)
 WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WOTUS (EPHEMERAL)? YES NO

RECEIVING WOTUS (EPHEMERAL) INFORMATION		
TDOT WOTUS LABEL	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 15-FT OF THE PROJECT LIMITS (YES OR NO)
WWC-4/EPH STR-4	YES	YES
WWC-5/EPH STR-5	YES	YES
WWC-6/EPH STR-6	YES	YES
WWC-7/EPH STR-7	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) _____

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

4.3. OUTFALL INFORMATION

4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-8-13 FOR OUTFALL INFORMATION.

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

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

4.3.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?
 YES NO N/A

4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)? YES NO N/A

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

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (3.5.3.3)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (5.4.1.g).

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

4.4. WETLAND INFORMATION

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

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

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

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?
 YES NO

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

4.7. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?
 YES NO

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

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

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

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

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

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

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (3.5.1.h)? YES NO

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- 5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- 5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.
- 5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- 5.9. HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT (3.5.2)?
 YES NO (IF YES, CHECK ONE BELOW)
 - 5.9.1. PROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
 - 5.9.2. PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (3.5.3.2) (10. "STEEP SLOPE")? YES NO N/A
- 5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1.j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-6. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.
- 5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 2A-2A1 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.b).
- 5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.
- 5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.
- 5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.
- 5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.
- 5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.
- 5.18. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- 5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 2A1 (3.5.3.1.n).
- 5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.4).

- 5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.
- 5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (4.1.7).
- 5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.
- 5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.
- 5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.
- 5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1.h).
- 5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (3.5.3.2).
- 5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE
- 5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
- 5.30. A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO THE APPLICATION OF FERTILIZERS TO ANY PORTION OF THE STE. SOILS SHOULD BE ANALYZED FOR pH, BUFFER VALUE, PHOSPHOROUS, POTASSIUM, CALCIUM AND MAGNESIUM. SOIL SAMPLES SHOULD BE REPRESENTATIVE OF THE AREA FOR WHICH FERTILIZER WILL BE APPLIED. SAMPLE TYPE SHOULD BE COLLECTED AND ANALYZED IN ACCORDANCE WITH THE UT EXTENSION "SOIL TESTING" BROCHURE PB1061. (4.1.5.)
- 5.31. FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED FROM THE ANALYSES. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- 5.32. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

6. FLOCCULANTS (3.5.3.1.b)

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

IF YES, THE FOLLOWING NOTES APPLY:

- 6.1. POLYACRYLAMIDES (PAM) SHALL BE OF THE ANIONIC OR NEUTRALLY CHARGED TYPE ONLY. PAM REQUIREMENTS ARE AS FOLLOWS:
 - 6.1.1. CATIONIC PAM IS NOT ALLOWED BECAUSE OF ITS TOXICITY TO FISH AND AQUATIC LIFE.

- 6.1.2. ANIONIC AND NEUTRALLY CHARGED PAM SHALL MEET THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR LESS THAN 0.05% BY WEIGHT ACRYLAMIDE MONOMER.
- 6.1.3. ANIONIC AND NEUTRALLY CHARGED PAM SHALL HAVE A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLES.
- 6.1.4. PAM MIXTURES SHALL BE NON-COMBUSTIBLE.
- 6.1.5. PAM SHALL CONTAIN ONLY MANUFACTURER-RECOMMENDED ADDITIVES.
- 6.2. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE RESEARCHED, APPLIED IN ACCORDANCE WITH MANUFACTURE'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1.b).
- 6.3. FLOCCULANTS SHALL BE HANDLED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USE CONFORMING TO ALL FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS.
- 6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANTS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT FOR BOTH ACUTE AND CHRONIC TOXICITY TESTS WHICH VERIFIES THAT THE FLOCCULANT EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED.
- 6.5. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.
- 6.6. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. DO NOT APPLY EMULSION FORMS OF FLOCCULANTS DIRECTLY TO STORMWATER RUNOFF OR TO STREAMS, WETLANDS, OR OTHER WATER RESOURCES DUE TO SURFACTANT TOXICITY.
- 6.7. FLOCCULANT POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. IF APPROVED BY THE MANUFACTURER, FLOCCULANT MAY BE MIXED WITH DRY SILICA SAND, FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS TO AID IN SPREADING. FLOCCULANTS MAY ALSO BE APPLIED WITH A WATER TRUCK OR AS PART OF HYDRO-SEEDING. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.
- 6.8. MANUFACTURER'S GUIDANCE SHOULD BE FOLLOWED FOR BLOCK, LOG AND SOCK SPACING CONFIGURATIONS. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION 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.

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- 7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.
- 7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- 7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- 7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
- 7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- 7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- 7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- 7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.
- 7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
 - 7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
 - 7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
 - 7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

- 8.1. INSPECTION PRACTICES (3.5.8)
 - 8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):

- 8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.
- 8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
- 8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
- 8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
- 8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II - DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
- 8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- 8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.o).
- 8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.
 - 8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
- 8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).
- 8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).
- 8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").
- 8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.e AND 3.5.8.2.f).

- 8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.
- 8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.
- 8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (3.5.8.2.h).
- 8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)
 - THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.
- 8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)
 - 8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.b)
 - 8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (3.5.8.2.e).
 - 8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (3.5.3.1.e).
 - 8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
 - 8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.
 - 8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.
 - 8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (3.5.3.1.f).
 - 8.3.9. ALL SEEDDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (3.1.2)

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

10. STORMWATER MANAGEMENT (3.5.4)

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

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

10.3. OTHER ITEMS NEEDING CONTROL (3.5.5)

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

- LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
- CONCRETE WASHOUT
- PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
- MINERAL AGGREGATES, ASPHALT
- EARTH
- LIQUID TRAFFIC STRIPING MATERIALS, PAINT
- ROCK
- CURING COMPOUND
- EXPLOSIVES
- OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (3.5.5.b)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

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

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

10.6. SANITARY WASTE (3.5.5.b)

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

10.7. OTHER MATERIALS

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

- FERTILIZERS AND LIME
- PESTICIDES AND/OR HERBICIDES
- DIESEL AND GASOLINE
- MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (3.5.9)

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

- DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.
- WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.

- WATER USED TO CONTROL DUST. (3.5.3.1.n)
- POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.
- UNCONTAMINATED GROUNDWATER OR SPRING WATER.
- FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.
- OTHER: _____

11.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

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

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

11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (3.5.1.i)?

YES NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER: _____

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

12.1. SPILL PREVENTION (3.5.5.c)

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

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

12.1.3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER.

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

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

12.2.2. HAZARDOUS MATERIALS

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL,

AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3. PRODUCT SPECIFIC PRACTICES

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

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

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

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

12.4. SPILL MANAGEMENT

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

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

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

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

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

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

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

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

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

12.5. SPILL NOTIFICATION (5.1)
WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

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

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE.

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

13. RECORD-KEEPING

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

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING

13.1.7. COPY OF REQUIRED SOIL ANALYSIS

13.1.8. A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.

13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):

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

BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

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

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

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

13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.

13.2.6. IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.

13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

13.3. KEEPING PLANS CURRENT (3.4)

13.3.1. THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A

SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;

13.3.3.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;

13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;

13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;

13.3.3.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.

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

13.3.3.7. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.

13.4. MAKING PLANS ACCESSIBLE

13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF FINAL STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (6.2).

13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1):

13.4.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;

13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

13.4.3. ALL INFORMATION DESCRIBED IN SECTION 13.4.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.5. NOTICE OF TERMINATION (8.0)

13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY FINAL STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.

13.5.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE

- 13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND
- 13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND
- 13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND
- 13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND
- 13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND
- 13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND
- 13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (6.2)

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

14. **SITE WIDE/PRIMARY PERMITTEE CERTIFICATION** (7.7.5)

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

Anthony Myers
Digitally signed by Anthony Myers
Date: 2018.11.14 14:47:30 -06'00'

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

ANTHONY MYERS

PRINTED NAME

Transportation Manager 2

TITLE

11/14/2018

DATE

15. **SECONDARY PERMITTEE (OPERATOR) CERTIFICATION** (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED OPERATOR (CONTRACTOR) SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

16. **ENVIRONMENTAL PERMITS** (9.0)

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

ENVIRONMENTAL PERMITS			
PERMIT	YES OR NO	PERMIT 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 OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS*
1	1-1		124+10 LT	6.0	4.70			N/A	UNNAMED SWALE	
1	1-2		131+75 RT	7.9	0.95			N/A	STR-1	
1	1-3		133+00 RT	8.1	0.95			N/A	STR-1	
1	1-4		133+40 LT	3.3	1.31			N/A	STR-1	
1	1-5		175+75 RT	6.3	1.06			N/A	STR-2	
1	1-6		182+20 LT	6.9	3.31			N/A	WWC-5/EPH STR-5	
1	1-7		186+60 RT	4.8	1.10			N/A	STR-4	
1	1-8.1		192+60 RT	9.5	5.30			NO	WWC-6/EPH STR-6	SEE SUBOUTFALL
1		1-9	193+00 LT	10.4	3.62			N/A	WWC-6/EPH STR-6	
1	1-8.2		190+60 RT	9.6	0.28 [TOTAL = 5.58]			N/A	STR-4	REPORTED DRAINAGE AREA EXCLUDES 1-8.3 SUBOUTFALL DRAINAGE CONTRIBUTION
1		1-8.3	190+60 LT	16.0	5.30			NO	STR-4	CLEAN RUN-ON THROUGH PROJECT
1	1-10.1		11+40 LT FAIRMEADE DR.	9.0	0.55			N/A	STR-4	
1	1-10.2		195+50 RT	8.6	4.22			N/A	WWC-7/EPH STR-7	
1	1-11		210+75 RT	10.8	2.26			N/A	UNNAMED SWALE	
1	1-12		213+75 LT	14.6	3.61			N/A	UNNAMED SWALE	
1	1-13		20+40 RT SR-12	10.2	4.98			N/A	UNNAMED SWALE	CLEAN RUN-ON THROUGH PROJECT
1	1-14		16+75 RT W. HAMILTON RD.	2.5	1.05			N/A	STR-1	CLEAN RUN-ON THROUGH PROJECT
1	1-15		179+90 RT	1.5	4.36			N/A	WWC-5/EPH STR-5	
1	1-16		9+50 RT CEDAR CIRCLE	9.7	0.22			N/A	UNNAMED SWALE	
1	1-17		9+25 LT CEDAR CIRCLE	8.1	4.82			N/A	UNNAMED SWALE	
1	1-18		176+00 RT	6.4	0.69			N/A	STR-2	
2	2-1		106+10 LT	30.1		0.05		N/A	UNNAMED SWALE	
2	2-2		124+10 LT	6.0		4.70		N/A	UNNAMED SWALE	OUT 1-1 STAGE I
2	2-3		131+75 RT	10.0		1.21		N/A	STR-1	OUT 1-2 STAGE I
2	2-4		133+00 RT	8.3		0.95		N/A	STR-1	OUT 1-3 STAGE I
2	2-5		133+40 LT	9.7		1.31		N/A	STR-1	OUT 1-4 STAGE I
2	2-6		9+50 RT CEDAR CIRCLE	9.7		0.22		N/A	UNNAMED SWALE	OUT 1-16 STAGE I
2	2-7		9+25 LT CEDAR CIRCLE	8.1		4.82		N/A	UNNAMED SWALE	OUT 1-17 STAGE I
2	2-8		175+75 RT	19.4		1.06		N/A	STR-2	OUT 1-5 STAGE I
2	2-9		182+20 LT	3.31		3.31		N/A	WWC-5/EPH STR-5	OUT 1-6 STAGE I
2	2-10		186+60 RT	8.1		1.10		N/A	STR-4	OUT 1-7 STAGE I
2	2-11.1		192+60 RT	9.8		5.30		N/A	WWC-6/EPH STR-6	SEE SUBOUTFALL; OUT 1-8.1 STAGE I
		2-12	195+20 LT	9.5		2.08		N/A	WWC-6/EPH STR-6	SEE SPECIAL SEQUENCING NOTES SHEET 53K
2	2-11.2		190+60 RT	9.6		0.28 [TOTAL = 5.58]		NO	STR-4	REPORTED DRAINAGE AREA EXCLUDES 2-11.3 SUBOUTFALL DRAINAGE CONTRIBUTION; OUT 1-8.2 STAGE I
2		2-11.3	190+60 LT	16.0		5.30		NO	STR-4	OUT 1-8.3 STAGE I; CLEAN RUN-ON THROUGH PROJECT
2	2-13.1		11+40 LT	9.3		0.55		N/A	STR-4	OUT 1-10.1 STAGE I

			FAIRMEADE DR.							
2	2-13.2		195+50 RT	8.3		4.22		N/A	WWC-7/EPH STR-7	OUT 1-10.2 STAGE I
2	2-14		210+75 RT	10.1		2.26		N/A	UNNAMED SWALE	OUT 1-11 STAGE I
2	2-15		213+00 RT	22.7		0.52		N/A	UNNAMED SWALE	
2	2-16		213+75 LT	13.8		3.61		N/A	UNNAMED SWALE	OUT 1-12 STAGE I
2	2-17.1		20+40 RT SR-12	10.2		4.98		N/A	UNNAMED SWALE	OUT 1-13 STAGE I
2		2-17.2	20+40 RT SR-12	3.0		0.27		N/A	UNNAMED SWALE	
2		2-17.3	20+40 LT SR-12	3.1		0.30		N/A	UNNAMED SWALE	
2	2-18.1		179+90 RT	2.7		0.26 [TOTAL = 4.97]		N/A	WWC-5/EPH STR-5	REPORTED DRAINAGE AREA EXCLUDES 2-18.2, 2-18.3 & 2-18.4 SUBOUTFALL DRAINAGE CONTRIBUTION; OUTFALL 1-15 STAGE I
2		2-18.2	179+90 LT	2.7		0.25		N/A	WWC-5/EPH STR-5	
2		2-18.3	180+25 LT	1.9		0.10		N/A	WWC-5/EPH STR-5	
2		2-18.4	180+20 LT	1.5		4.36		N/A	WWC-5/EPH STR-5	CLEAN RUN-ON THROUGH PROJECT
2	2-19		16+75 RT W. HAMILTON RD.	4.8		2.87		N/A	STR-1	CLEAN RUN-ON THROUGH PROJECT; OUT 1-14 STAGE I
2	2-20		176+00 RT	6.4		0.69		N/A	STR-2	OUT 1-18 STAGE I
2	2-21.1		11+30 LT SR-12	7.8		1.25		N/A	UNNAMED SWALE	
2		2-21.2	12+00 LT SR-12	8.2		0.70		N/A	UNNAMED SWALE	
2		2-21.3	12+00 RT SR-12	8.0		0.55		N/A	UNNAMED SWALE	
2	2-22		131+50 RT	6.8		1.21		N/A	STR-1	
2	2-23		132+00 RT	6.5		5.25		NO	STR-1	SEE SUBOUTFALLS
2		2-23.1	129+55 RT	13.3		0.10		N/A	STR-1	
2		2-23.2	127+75 RT	13.2		0.12		N/A	STR-1	
2		2-23.3	125+75 RT	13.5		0.13		N/A	STR-1	
2		2-23.4	123+75 RT	13.4		0.01		N/A	STR-1	
3	3-1.1		96+00 LT	3.4			0.22	N/A	STR-3	
3	3-1.2		96+00 RT	5.4			0.48	N/A	STR-3	
3	3-1.3		98+60 RT	2.1			1.13	N/A	STR-3	
3	3-1.4		98+60 LT	1.4			0.16	N/A	STR-3	
3	3-1.5		101+70 LT	6.1			0.24	N/A	STR-3	
3	3-1.6		100+55 RT	2.8			0.47	N/A	STR-3	
3	3-1.7		102+75 RT	2.3			0.29	N/A	STR-3	
3	3-1.8		10+75 RT COURTNEY AVE.	7.8			0.03	N/A	STR-3	
3	3-1.9		10+75 LT COURTNEY AVE.	7.5			0.09	N/A	STR-3	
3	3-1.10		11+75 RT COURTNEY AVE.	5.2			0.04	N/A	STR-3	
3	3-1.11		11+75 LT COURTNEY AVE.	6.2			0.05	N/A	STR-3	
3	3-1.12		12+60 LT COURTNEY AVE.	5.6			0.07	N/A	STR-3	
3	3-1.13		12+90 LT COURTNEY AVE.	5.0			0.01	N/A	STR-3	
3	3-2.1		20+40 RT SR-12	10.2			4.98	N/A	STR-3	OUT 2-17.1 STAGE II
3		3-2.2	20+40 RT SR-12	3.1			0.30	N/A	STR-3	

3		3-2.3	20+40 LT SR-12	3.0		0.27	N/A	STR-3	
3		3-2.4	23+55 LT SR-12	2.2		0.17	N/A	STR-3	
3		3-2.5	24+90 LT SR-12	0.8		0.20	N/A	STR-3	
3		3-2.6	25+90 LT SR-12	1.1		0.12	N/A	STR-3	
3		3-2.7	17+00 RT SR-12	0.9		0.45	N/A	STR-3	
3	3-3		106+10 LT	10.8		0.01	N/A	UNNAMED SWALE	OUT 2-1 STAGE II
3	3-4.13		124+10 LT	10.6		1.94 [TOTAL = 26.09]	NO	STR-1	REPORTED DRAINAGE AREA LISTED EXCLUDES SUBOUTFALL DRAINAGE CONTRIBUTION; OUT 2-2 STAGE II
3		3-4.1	105+40 RT	3.8		0.95	N/A	STR-1	
3		3-4.2	106+75 RT	4.9		2.25	N/A	STR-1	
3		3-4.3	108+30 RT	3.8		0.32	N/A	STR-1	
3		3-4.4	110+55 RT	8.4		0.76	N/A	STR-1	
3		3-4.5	112+80 RT	8.2		4.04	N/A	STR-1	
3		3-4.6	114+40 RT	8.8		1.88	N/A	STR-1	
3		3-4.7	116+40 RT	7.5		2.35	N/A	STR-1	
3		3-4.8	120+15 RT	4.7		1.27	N/A	STR-1	
3		3-4.9	114+70 LT	5.2		4.82	N/A	STR-1	CLEAN RUN-ON DIVERSION
3		3-4.10	114+70 LT	5.4		1.62	N/A	STR-1	
3		3-4.11	117+55 LT	10.8		1.93	N/A	STR-1	
3		3-4.12	120+50 LT	10.8		1.96	N/A	STR-1	
3	3-4.14		10+25 RT ABERNATHY RD.	10.4		1.25	N/A	STR-1	
3	3-5.8		131+75 RT	12.6		11.75	NO	STR-1	SEE SUBOUTFALLS; OUT 2-23 STAGE II
3		3-5.1	120+45 RT	5.4		3.19	N/A	STR-1	
3		3-5.2	122+40 RT	7.1		1.30	N/A	STR-1	
3		3-5.3	123+50 RT	10.7		1.40	N/A	STR-1	
3		3-5.4	123+70 RT	10.9		0.90	N/A	STR-1	
3		3-5.5	125+75 RT	11.8		1.47	N/A	STR-1	
3		3-5.6	127+80 RT	13.8		1.79	N/A	STR-1	
		3-5.7	129+25 RT	12.6		1.11	N/A	STR-1	
3	3-5.9		131+75 RT	10.2		0.60	N/A	STR-1	OUT 2-3 STAGE II
3	3-6		131+00 LT	2.8		0.42	N/A	STR-1	
3	3-7		133+00 RT	8.3		0.95 [TOTAL = 18.94]	NO	STR-1	REPORTED DRAINAGE AREA LISTED EXCLUDES SUBOUTFALL DRAINAGE CONTRIBUTION; OUT 2-4 STAGE II
3		3-7.1	135+00 RT	1.7		0.14	N/A	STR-1	
3		3-7.2	136+85 RT	0.3		0.19	N/A	STR-1	
3		3-7.3	136+85 RT	1.3		0.10	N/A	STR-1	
3		3-7.4	137+90 RT	0.3		0.12	N/A	STR-1	
3		3-7.5	139+00 RT	0.5		0.25	N/A	STR-1	
3		3-7.6	139+50 RT	1.0		3.71	N/A	STR-1	
3		3-7.7	141+50 RT	1.2		0.22	N/A	STR-1	
3		3-7.8	143+60 RT	2.4		0.22	N/A	STR-1	
3		3-7.9	145+80 RT	2.6		0.35	N/A	STR-1	
3		3-7.10	149+40 RT	2.9		0.25	N/A	STR-1	

3		3-7.11	151+80 RT	2.8		0.30	N/A	STR-1			
3		3-7.12	151+80 RT	3.3		0.08	N/A	STR-1			
3		3-7.13	154+75 RT	3.1		0.44	N/A	STR-1			
3		3-7.14	154+75 RT	3.2		0.69	N/A	STR-1			
3		3-7.15	159+00 RT	5.6		0.34	N/A	STR-1			
3		3-7.16	163+00 RT	8.6		0.26	N/A	STR-1			
3		3-7.17	165+00 RT	9.8		1.05	N/A	STR-1			
3		3-7.18	167+00 RT	7.0		0.72	N/A	STR-1			
3		3-7.19	169+00 RT	5.8		0.78	N/A	STR-1			
3		3-7.20	135+00 LT	1.9		0.14	N/A	STR-1			
3		3-7.21	136+85 LT	0.3		0.19	N/A	STR-1			
3		3-7.22	137+50 LT	NOT AN OUTFALL							
3		3-7.23	137+90 LT	0.3		0.12	N/A	STR-1			
3		3-7.24	139+00 LT	0.8		0.34	N/A	STR-1			
3		3-7.25	141+50 LT	0.6		0.19	N/A	STR-1			
3		3-7.26	143+30 LT	2.6		0.62	N/A	STR-1			
3		3-7.27	143+30 LT	5.6		0.08	N/A	STR-1			
3		3-7.28	144+20 LT	4.0		0.48	N/A	STR-1			
3		3-7.29	145+80 LT	2.9		0.85	N/A	STR-1			
3		3-7.30	148+00 LT	3.4		0.62	N/A	STR-1			
3		3-7.31	149+40 LT	2.3		0.98	N/A	STR-1			
3		3-7.32	151+65 LT	2.5		0.17	N/A	STR-1			
3		3-7.33	151+65 LT	2.8		0.38	N/A	STR-1			
3		3-7.34	153+25 LT	2.4		0.19	N/A	STR-1			
3		3-7.35	154+75 LT	2.8		0.67	N/A	STR-1			
3		3-7.36	157+20 LT	4.3		0.19	N/A	STR-1			
3		3-7.37	157+20 LT	2.3		0.29	N/A	STR-1			
3		3-7.38	159+00 LT	3.0		0.40	N/A	STR-1			
3		3-7.39	163+00 LT	6.2		0.20	N/A	STR-1			
3		3-7.40	165+00 LT	6.1		0.23	N/A	STR-1			
3		3-7.41	167+10 LT	4.2		0.35	N/A	STR-1			
3	3-8		133+20 LT	11.4		0.18	N/A	STR-1	OUT 2-5 STAGE II		
3	3-10.4		16+75 RT W. HAMILTON RD.	4.8		9.00	NO	STR-1	SEE SUBOUTFALLS; OUT 2-19 STAGE II		
3		3-9	17+50 LT HAMILTON RD.	7.0		0.27	N/A	STR-1			
3		3-10.1	50+30 LT W. HAMILTON CT.	3.0		4.93	N/A	STR-1	CLEAN RUN-ON DIVERSION		
3		3-10.2	50+30 LT W. HAMILTON CT.	3.5		0.79	N/A	STR-1			
3		3-10.3	50+30 RT W. HAMILTON CT.	1.6		0.14	N/A	STR-1			
3	3-11		11+95 LT HAMILTON RD.	3.5		1.52	N/A	STR-1			
3	3-12		10+50 RT FAIRVIEW DR.	2.9		0.10	N/A	UNNAMED SWALE			
3	3-13		10+50 LT FAIRVIEW DR.	3.4		0.27	N/A	UNNAMED SWALE			
3	3-14		10+25 LT CEDAR CIRCLE	13.8		0.33	N/A	UNNAMED SWALE			

3	3-15.14		179+90 RT	2.7			0.26 TOTAL = 10.85]	NO	WWC-5/EPH STR-5 & STR-2	REPORTED DRAINAGE AREA LISTED EXCLUDES SUBOUTFALL DRAINAGE CONTRIBUTION; OUT 2-18.1 STAGE II
3		3-15.1	175+25 LT	2.5			1.49	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.2	177+40 LT	6.5			0.41	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.3	179+90 LT	2.7			0.25	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.4	180+25 LT	1.9			0.10	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.5	180+75 LT	2.7			0.33	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.6	14+40 LT KINGS LN.	1.4			0.08	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.7	14+00 LT KINGS LN.	7.2			1.14	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.8	13+95 RT KINGS LN.	1.9			0.09	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.9	12+90 LT KINGS LN.	1.5			0.05	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.11	182+20 LT	4.4			0.16	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.12	183+45 LT	9.2			1.25	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.13	177+40 RT	5.2			0.62	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.15	180+20 RT	1.8			0.08	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.16	180+50 RT	1.9			0.18	N/A	WWC-5/EPH STR-5 & STR-2	
3		3-15.17	180+10 LT	10.0			4.36	N/A	WWC-5/EPH STR-5 & STR-2	
3	3-16.1		23+80 RT KINGS LN.	3.2			0.16	N/A	UNNAMED SWALE	
3	3-16.2		23+80 LT KINGS LN.	3.7			0.12	N/A	UNNAMED SWALE	
3	3-16.3		23+80 LT KINGS LN.	5.5			0.64	N/A	UNNAMED SWALE	
3	3-16.4		21+70 LT KINGS LN.	4.4			0.08	N/A	UNNAMED SWALE	
3	3-16.5		21+70 LT KINGS LN.	6.9			0.31	N/A	UNNAMED SWALE	
3	3-16.6		182+60 RT	4.4			0.14	N/A	UNNAMED SWALE	
3	3-16.7		185+80 RT	2.2			0.17	N/A	UNNAMED SWALE	
3	3-16.8		189+45 RT	2.4			0.15	N/A	UNNAMED SWALE	
3	3-16.9		185+80 LT	14.5			1.00	N/A	UNNAMED SWALE	
3	3-16.10		187+00 LT	11.0			0.88	N/A	UNNAMED SWALE	
3	3-16.11		188+20 LT	11.5			1.04	N/A	UNNAMED SWALE	
3	3-16.12		189+45 LT	11.4			1.09	N/A	UNNAMED SWALE	
3	3-17.13		192+60 RT	11.8			10.44	NO	WWC-6/EPH STR-6	SEE SUBOUTFALLS; OUT 2-11.1 STAGE II
3		3-17.1	190+60 LT	11.6			1.12	N/A	WWC-6/EPH STR-6	
3		3-17.2	192+60 LT	6.3			0.24	N/A	WWC-6/EPH STR-6	
3		3-17.3	192+60 LT	11.9			2.08	N/A	WWC-6/EPH STR-6	
3		3-17.4	194+55 LT	10.7			2.18	N/A	WWC-6/EPH STR-6	
3		3-17.5	197+00 LT	13.3			1.66	N/A	WWC-6/EPH STR-6	
3		3-17.6	199+75 LT	7.7			0.63	N/A	WWC-6/EPH STR-6	
3		3-17.7	202+20 RT	2.4			0.08	N/A	WWC-6/EPH STR-6	
		3-17.8	192+60 RT	3.9			0.13	N/A	WWC-6/EPH STR-6	
3		3-17.9	194+55 RT	6.3			0.29	N/A	WWC-6/EPH STR-6	
3		3-17.10	197+00 RT	6.4			0.42	N/A	WWC-6/EPH STR-6	
3		3-17.11	199+75 RT	6.1			0.51	N/A	WWC-6/EPH STR-6	
3		3-17.12	202+20 RT	8.5			0.87	N/A	WWC-6/EPH STR-6	
3	3-18.1		11+55 RT FAIRMEADE DR.	5.2			0.04	N/A	STR-4	

3	3-18.2		12+60 RT FAIRMEADE DR.	2.6			0.11	N/A	STR-4	
3	3-18.3		12+60 LT FAIRMEADE DR.	9.3			1.81	N/A	STR-4	
3	3-18.4		11+75 LT FAIRMEADE DR.	9.5			0.41	N/A	STR-4	
3	3-18.5		11+40 LT FAIRMEADE DR.	12.8			0.26	N/A	STR-4	OUT 2-13.1 STAGE II
3	3-19.1		206+00 RT	11.2			1.03	N/A	UNNAMED SWALE	
3	3-19.2		208+80 RT	12.6			1.15	N/A	UNNAMED SWALE	
3	3-19.3		210+20 RT	12.6			0.64	N/A	UNNAMED SWALE	
3	3-19.4		213+55 RT	3.9			0.37	N/A	UNNAMED SWALE	
3	3-20.1		209+35 LT	14.9			1.25	N/A	UNNAMED SWALE	
3	3-20.2		210+75 LT	23.1			2.63	N/A	UNNAMED SWALE	
3	3-20.3		213+55 LT	12.1			1.02	N/A	UNNAMED SWALE	
3	3-21		213+00 RT	24.7			0.05	N/A	UNNAMED SWALE	OUT 2-15 STAGE II
3	3-22		9+50 RT CEDAR CIRCLE	9.7			0.22	N/A	UNNAMED SWALE	OUT 2-6 STAGE II
3	3-23.1		11+30 LT SR-12	7.8			1.25	N/A	UNNAMED SWALE	OUT 2-21.1 STAGE II
3		3-23.2	12+00 LT SR-12	8.2			0.70	N/A	UNNAMED SWALE	OUT 2-21.2 STAGE II
3		3-23.3	12+00 RT SR-12	8.0			0.55	N/A	UNNAMED SWALE	OUT 2-21.3 STAGE II

*COMMENT "REPORTED DRAINAGE AREA LISTED EXCLUDES SUBOUTFALL DRAINAGE AREA CONTRIBUTION" -> DRAINAGE AREAS LISTED MATCH THOSE AS PROVIDED IN THE CONSTRUCTION PLAN SHEETS 52A; TOTAL DRAINAGE AREAS HAVE BEEN CALCULATED AND PROVIDED IN BRACKETS IN THE OUTFALL DRAINAGE AREA COLUMN.

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

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

DAVIDSON COUNTY

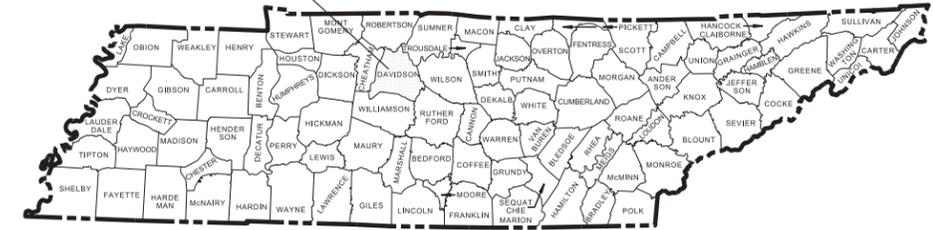
SR 112 (US 41A/CLARKSVILLE PIKE)
FROM SR 12 (ASHLAND CITY HIGHWAY) TO SR 155 (BRILEY PARKWAY)

CONSTRUCTION

STATE HIGHWAY NO. 112 F.A.H.S. NO. 41A

TENN.	YEAR	SHEET NO.
	2018	1
FED. AID PROJ. NO.	STP-112(6)	
STATE PROJ. NO.	19046-3218-14	

PROJECT LOCATION



END PROJECT NO. STP-112 (6). 19046-3218-14 CONST.

STA. 214+06.00

N 690316.8402 E 1722004.6528

END PROJECT NO. STP-112(6). 19046-2214-14 R.O.W.

STA. 213+38.96

N 690262.8267 E 1721964.9429

BEGIN PROJECT NO. STP-112(6). 19046-2214-14 R.O.W.

STA. 94+12.75

N 679158.4547 E 1722166.1719

BEGIN PROJECT NO. STP-112 (6). 19046-3218-14 CONST.

STA. 93+35.00

N 679111.6697 E 1722228.2704



NO EXCLUSIONS

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**UNOFFICIAL
SET
NOT FOR
BIDDING**

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

DATE: _____

APPROVED: John Schroer
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

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



ROADWAY LENGTH	2.239 MILES
BRIDGE LENGTH	0.047 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	2.286 MILES

TRAFFIC DATA	
ADT (2018)	14,870
ADT (2038)	26,810
DHV (2038)	2,962
D	50 - 50
T (ADT)	3 %
T (DHV)	2 %
V	40 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE

TDOT REGION 3 DIRECTOR OF PROJECT DEVELOPMENT: SHANE HESTER, P.E.
 DESIGNED BY: DBS & ASSOCIATES ENGINEERING
 DESIGNER: DAVID A. RAST, P.E. CHECKED BY: JACQUELYN A. SMITH, P.E.
 P.E. NO. 19046-1214-14
 PIN NO. 103764.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	1A

ROADWAY INDEX

STANDARD ROADWAY DRAWINGS

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD ROADWAY DRAWINGS	1A1
STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS	1A2
PROJECT COMMITMENTS	1B
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX	2 THRU 2-999
ESTIMATED ROADWAY QUANTITIES	2A - 2A1
ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES	2A2
ESTIMATED LIGHTING QUANTITIES AND SPECIAL NOTES	2A3-2A4
ESTIMATED BOX BRIDGE QUANTITIES	(NOT USED)
ESTIMATED RELOCATION QUANTITIES	(NOT USED)
ESTIMATED UTILITIES QUANTITIES	2A5 - 2A6
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B - 2B10
GENERAL NOTES	2C - 2C3
SPECIAL NOTES	2D
TABULATED QUANTITIES	2E - 2E8
DETAIL SHEETS	(NOT USED)
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S)	3A - 3F
PRESENT LAYOUT(S)	4 - 14, 5D
RIGHT OF WAY DETAILS	4A - 14A, 5E
PROPOSED LAYOUT(S)	4B - 14B, 5F
PROPOSED PROFILE(S)	4C - 14C
RAMP PROFILE(S)	(NOT USED)
SIDE ROADS PROFILE(S)	15 - 19
PRIVATE DRIVE, AND FIELD ENTRANCE PROFILE(S)	20 - 45
DRAINAGE MAP(S)	46 - 48
CULVERT SECTION(S)	49 - 51A
EROSION PREVENTION & SEDIMENT CONTROL PLANS	52 - 55M
ENVIRONMENTAL MITIGATION PLAN(S)	(NOT USED)
TRAFFIC CONTROL PLANS	56 - 60L
SIGNING AND PAVEMENT MARKING PLAN(S)	61 - 73
SIGN SCHEDULE SHEET(S)	73A - 73C
MISCELLANEOUS SIGNING DETAILS	(NOT USED)
PROPOSED SIGNAL LAYOUT(S)	74 - 77K
PROPOSED LIGHTING LAYOUT(S)	78 - 90B
LIGHTING DETAILS	90C - 90D
ITS PLANS	(NOT USED)
GEOTECHNICAL SHEETS	91 - 93C
.....	(94-95 NOT USED)
ROADWAY CROSS SECTIONS	96 - 164
SIDE ROAD CROSS SECTIONS	165 - 205
NATURAL STREAM DESIGN PLAN INDEX	(NOT USED)
RETAINING WALL DETAILS	R-1 THRU R-XX
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1

UTILITIES INDEX..... U1-1

ROADWAY DESIGN STANDARDS

DWG.	REV.	DESCRIPTION
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A	02-05-16	DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-2	03-16-17	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMP
RD01-TS-6	10-10-16	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RD01-TS-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RD01-TS-6B		TYPICAL CURB AND GUTTER FOR HIGH SPEED SUBURBAN ROADWAYS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	01-25-16	UNDERDRAIN LATERAL DETAILS
RD-UD-6	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-8		LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 SLOPES
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES

PIPE CULVERTS AND ENDWALLS

DWG.	REV.	DESCRIPTION
D-PB-1	03-16-17	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PS-1	03-15-76	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24A	07-05-17	24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-SEW-1A	03-16-17	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES - 6:1 SLOPE
SD-MSE-1		SIDE DRAIN MITERED END SECTION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE. 36" TO 78"
D-PE-4	10-10-16	STRAIGHT CONCRETE ENDWALL

CATCH BASINS AND MANHOLES

DWG.	REV.	DESCRIPTION
D-CB-10LPC	08-01-12	LOW PROFILE LOWERED CURB 32" X 26" RECTANGULAR CONCRETE NO. 10LPC CATCH BASIN
D-CB-10RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 10 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-10S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 10 CATCH BASIN
D-CB-10SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 10 CATCH BASIN
D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)
D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN

REV. 11-08-18: REVISED INDEX PER TDOT COMMENTS.

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	1A1

STANDARD ROADWAY DRAWINGS

D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-16S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 16 CATCH BASIN
D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	03-11-14	STANDARD 5'2" x 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-43SB	03-11-14	STANDARD 8' X 4' RECTANGULAR CONCRETE NO. 43SB CATCH BASIN
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	03-19-14	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-CBB-12A	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 JUNCTION BOX
D-MH-2	02-02-16	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	04-21-14	TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-5	04-01-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 MANHOLE
D-RF-1	02-02-16	STANDARD PRECAST RISER

ROADWAY AND PAVEMENT APPURTENANCES

RP-D-15	04-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	04-08-16	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-I-5	12-18-96	EXAMPLES OF STREET & ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-SC1	02-28-02	6" SLOPING CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-VC-10		STANDARD VERTICAL CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-VC-11		STANDARD VERTICAL CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-H-3	10-10-16	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	10-10-16	PERPENDICULAR CURB RAMP
RP-H-5	10-10-16	PARALLEL CURB RAMP
RP-H-7	10-10-16	PERPENDICULAR CURB RAMP IN CURVE
RP-H-8	10-10-16	PERPENDICULAR CURB RAMP PLACED OUTSIDE CURVE
RP-H-9	10-10-16	PARALLEL CURB RAMP IN CURVE
RP-S-7	05-15-18	DETAILS FOR CONCRETE SIDEWALKS
RP-S-9		ALTERNATE DETAILS FOR PEDESTRIAN FACILITIES
W-CIP-1		ROADWAY FEATURES AT CAST IN PLACE RETAINING WALL
W-MSE-1		ROADWAY FEATURES FOR MSE SEGMENTAL PRECAST FACING RETAINING WALL

W-MSE-2		ROADWAY FEATURES FOR MSE MODULAR BLOCK FACING RETAINING WALL
W-SG-1		STANDARD GRAVITY-TYPE RETAINING WALLS
W-SP-1		ROADWAY FEATURES AT SOLDIER PILE AND SOIL ANCHORED RETAINING WALLS

SAFETY DESIGN AND FENCES

S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2	10-10-16	SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES
S-PL-3	10-10-16	SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-6	10-10-16	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-CC-1	03-28-17	CRASH CUSHION
S-GR31-1	03-28-17	W-BEAM GUARDRAIL
S-GR31-1A		W-BEAM BARRIER FASTENING HARDWARE
S-GRC-1	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRC-2	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOCAL ROADS (ADT < 2000)
S-GRC-3	10-10-16	MEDIAN DIVIDER GUARDRAIL TRANSITION TO CONCRETE MEDIAN BARRIER
S-GRT-2	03-28-17	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P	07-05-17	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRA-1	10-10-16	TYPE 12 GUARDRAIL ANCHOR
S-GRA-1A		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
S-GRA-3	07-05-17	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	07-05-17	IN-LINE GUARDRAIL ANCHOR
S-GRA-5	03-28-17	FLARED GUARDRAIL ANCHOR
S-BPR-1	07-05-17	BIKE/PEDESTRIAN SAFETY RAIL
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10B	11-15-17	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-F-10C	11-15-17	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS

DESIGN - TRAFFIC CONTROL

T-M-1	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-9	11-01-11	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-11	10-10-16	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES OR ROUTES
T-M-12	01-30-15	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES ON URBAN ROADWAYS

T-M-13		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
T-M-14	11-01-11	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AT INTERSECTIONS
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	03-16-17	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	03-16-17	DETAIL FOR FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-05-17	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12	03-05-17	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
T-WZ-16	03-05-17	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-19	03-05-17	MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
T-WZ-20	12-18-99	GEOMETRIC MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
T-WZ-21	03-05-17	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)
T-WZ-31	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)
T-WZ-40	03-05-17	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	03-05-17	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-55	10-10-16	SIDEWALK TRAFFIC CONTROL

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	03-16-17	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
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-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)

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TRANSPORTATION

STANDARD
ROADWAY
DRAWINGS

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 IB-17-03, IB-17-05 & IB-17-07

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	1A2

REV. 11-08-18; REVISED EPSC STD. DWG. PER TDOT COMMENTS.

STANDARD ROADWAY DRAWINGS

- EC-STR-42A CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
- EC-STR-45 CATCH BASIN FILTER ASSEMBLY (TYPE 5)
- EC-STR-45A CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
- EC-STR-46 CATCH BASIN FILTER ASSEMBLY (TYPE 6)
- EC-STR-46A CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
- EC-STR-47 CATCH BASIN FILTER ASSEMBLY (TYPE 7)
- EC-STR-47A CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
- EC-STR-48 CATCH BASIN FILTER ASSEMBLY (TYPE 8)
- EC-STR-48A CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS
- EC-STR-11A CULVERT PROTECTION TYPE 2

LIGHTING AND UTILITY POLES

- T-L-1 12-04-13 STANDARD LIGHTING FOUNDATION DETAILS
- T-L-1SA 09-11-13 STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
- T-L-3 04-15-96 STANDARD LIGHTING DETAILS PULL BOXES
- T-L-4 05-25-11 STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

NEW STRUCTURES

- STD-8-2SS SINGLE SLOPE PARAPET STANDARD LIGHT SUPPORT DETAILS
- STD-8-4 SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS

SIGNALIZATION

- T-SG-2 06/27/2016 LOOP LEAD-INS, CONDUIT AND PULL BOXES
- T-SG-3 06/27/2016 STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
- T-SG-5 06/27/2016 CONTROLLER CABINET DETAILS
- T-SG-6 PEDESTRIAN SIGNAL DETAILS
- T-SG-7 06/27/2016 SIGNAL HEAD ASSEMBLIES
- T-SG-7C TYPICAL SIGNAL HEAD PLACEMENT - ONE-LANE AND TWO-LANE APPROACHES
- T-SG-7D TYPICAL SIGNAL HEAD PLACEMENT - TWO-LANE APPROACHES
- T-SG-7F TYPICAL SIGNAL HEAD PLACEMENT - THREE-LANE APPROACHES
- T-SG-7G TYPICAL SIGNAL HEAD PLACEMENT - THREE-LANE APPROACHES
- T-SG-7K TYPICAL SIGNAL HEAD PLACEMENT - FOUR-LANE APPROACHES
- T-SG-9 06/27/2016 DETAILS OF CANTILEVER SIGNAL SUPPORT
- T-SG-9A 06/27/2016 MISCELLANEOUS SIGNAL DETAILS
- T-SG-11 06/27/2016 MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
- T-SG-12 06/27/2016 TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
- T-SG-13 06/27/2016 FLASHING BEACON DETAIL

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TRANSPORTATION**

**STANDARD
ROADWAY
DRAWINGS**

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 IB-17-03, IB-17-05 & IB-17-07

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	1B

REV. 11-08-18: ADDED SHEET PER TDOT COMMENTS.

Project Commitments			
Commitment ID	Source Division	Description	Sta. / Location
EDHZ001	Environmental Division, Hazardous Materials	An Asbestos Containing Material (ACM) survey was conducted on Bridge # 19SR112C001, SR-112 over Whites Creek LM 0.56. No ACM was detected. No special accommodations for demolition and waste disposal are anticipated for these structures and the material can be deposited in a C&D landfill. Prior to the demolition or rehabilitation of any structure (bridge or building), the contractor is required to submit the National Emission Standards for Hazardous Air Pollutants standard 10-day notice of demolition to the Tennessee Division of Air Pollution Control (Standard Specifications for Road and Bridge Construction Sections 107.21 and 202.03).	LM 0.56
EDHZ002	Environmental Division, Hazardous Materials	White's Creek is listed by TDEC as a non-supporting stream due to e. coli contamination from sanitary and storm sewers and siltation. If work in the stream is required, TDOT employees must use the site health and safety plan developed for this site. Contractors must ensure their employees have a site health and safety plan for this site.	Whites Creek

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**PROJECT
COMMITMENTS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2018	STP-112(6)	2A

REV. 04-17-18: ADDED ITEM NOS. 202-06.04 & 621-03.03.
 REVISED ITEM NOS. 202-06.02, 209-02.07, 209-08.02, 209-08.08, & 607-39.02.
 REMOVED ITEM NOS. 209-09.22 & 209-09.23.
 REV. 10-23-18: REVISED ITEM NO. 705-06.20
 REV. 11-08-18: REVISED EPSC QUANTITIES PER TDOT COMMENTS.

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
201-01	CLEARING AND GRUBBING	LS	1
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	22170
(7) 202-06.01	REMOVAL OF BUILDINGS (TRACT NO. 21)	LS	1
(7) 202-06.02	REMOVAL OF BUILDINGS (TRACT NO. 39)	LS	1
(7) 202-06.03	REMOVAL OF BUILDINGS (TRACT NO. 75)	LS	1
(7) 202-06.04	REMOVAL OF BUILDINGS (TRACT NO. 99)	LS	1
(7) 202-06.05	REMOVAL OF BUILDINGS (TRACT NO. 120)	LS	1
(1), (3) 203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	52870
203-01.29	ROCK EXCAVATION	C.Y.	18642
(3) 203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	83470
(3) 203-04	PLACING AND SPREADING TOPSOIL	C.Y.	7702
203-06	WATER	M.G.	1731
203-10	EMBANKMENT (COMPACTED IN PLACE)	C.Y.	105405
204-08	FOUNDATION FILL MATERIAL	C.Y.	31
204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	15
(9) 209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	743
(9) 209-03.23	FILTER SOCK (24 INCH)	L.F.	25523
(9) 209-05	SEDIMENT REMOVAL	C.Y.	1034
(9) 209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	10897
(9) 209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	17718
(9), (24) 209-08.07	ROCK CHECK DAM PER	EACH	20
(9) 209-08.08	ENHANCED ROCK CHECK DAM	EACH	35
(9), (24) 209-08.09	FILTER SOCK CHECK DAM	EACH	136
(9) 209-09.01	SANDBAGS	BAG	2000
(9) 209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
(9) 209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	92
(9) 209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	350
(9) 209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	6
(9) 209-40.31	CATCH BASIN PROTECTION (TYPE B)	EACH	1
(9) 209-40.32	CATCH BASIN PROTECTION (TYPE C)	EACH	3
(9) 209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
(9) 209-40.34	CATCH BASIN PROTECTION (TYPE E)	EACH	1
(9) 209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	2
(9) 209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EACH	4
(9) 209-40.45	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EACH	1
(9) 209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EACH	21
(9) 209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	9
(9) 209-40.48	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EACH	3
(2) 303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	56188
303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	231
(5) 303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	171
(2) 307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	3782
(2), (17) 307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4961
307-01.21	ASP. CONC. MIX (PG70-22) (BPMB-HM) GR. A-S	TON	7167
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	10535
(18) 307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	11896
(2) 402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	152
(2) 402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	429
(2) 403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	99
411-01.10	ACS MIX (PG64-22) GRADING D	TON	1792
411-02.10	ACS MIX (PG70-22) GRADING D	TON	6607
415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	2212

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
604-31.01	CLASS A CONCRETE (ROADWAY)	C.Y.	43
604-31.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	9447
607-32.02	15" CONCRETE PIPE CULVERT (CLASS III)	L.F.	11
607-33.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	11982
607-33.30	18" PIPE CULVERT	L.F.	22
607-35.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	4595
607-36.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1239
607-36.30	30" PIPE CULVERT	L.F.	242
607-37.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	341
607-37.30	36" PIPE CULVERT	L.F.	287
607-38.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	89
607-11.03	60" CONCRETE PIPE CULVERT (CLASS III)	L.F.	50
607-37.02	18" CORRUGATED METAL PIPE CULVERT	L.F.	37
607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	316
607-39.05	36" PIPE CULVERT (SIDE DRAIN)	L.F.	57
611-31.02	MANHOLES, > 4' - 8' DEPTH	EACH	2
611-31.04	MANHOLES, > 12' - 16' DEPTH	EACH	2
611-02.10	JUNCTION BOX, TYPE 1	EACH	1
611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	21.5
611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1072
611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	4
611-07.34	36IN ENDWALL (SIDE DRAIN)	EACH	4
611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
611-37.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-37.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	4
611-37.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	6
611-37.66	42IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-39.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	1
611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	17
611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	50
611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	7
611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	4
611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	27
611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1
611-14.04	CATCH BASINS, TYPE 14, > 12' - 16' DEPTH	EACH	1
611-16.02	CATCH BASINS, TYPE 16, > 4' - 8' DEPTH	EACH	2
611-16.03	CATCH BASINS, TYPE 16, > 8' - 12' DEPTH	EACH	1
611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	8
611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	2
611-43.02	CATCH BASINS, TYPE 43, 4' - 8' DEPTH	EACH	1
(22) 621-33.03	24" TEMPORARY DRAINAGE PIPE	L.F.	410
(6) 621-33.05	36" TEMPORARY DRAINAGE PIPE	L.F.	168
(8) 701-31.01	CONCRETE SIDEWALK (4 ")	S.F.	139837
701-31.02	CONCRETE SIDEWALK (6 ")	S.F.	8502
701-31.07	EXPOSED AGGREGATE CONCRETE DRIVEWAY	S.F.	990
701-32	CONCRETE DRIVEWAY	S.F.	26777
701-32.03	CONCRETE CURB RAMP	S.F.	4616
702-31	CONCRETE CURB	C.Y.	23
702-33	CONCRETE COMBINED CURB & GUTTER	C.Y.	2048
705-31.01	GUARDRAIL AT BRIDGE ENDS	L.F.	108
705-32.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	1621
705-36.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	10
(20) 705-38.11	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	12
706-01	GUARDRAIL REMOVED	L.F.	1843

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**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**

**ESTIMATED
 QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2018	STP-112(6)	2A1

REV. 04-17-18: ADDED FOOTNOTES 19 & 20.
 REV. 10-23-18: ADDED DESCRIPTION TO ITEM 707-06.01
 REV. 11-08-18: REVISED EPSC QUANTITIES AND FOOTNOTES PER TDOT COMMENTS.

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(7)	707-01.11 CHAIN LINK FENCE (6 FOOT)	L.F.	1132
(7)	707-01.23 CHAIN LINK (8FT) (VINYL COATED) W/3STRAND B.WIRE	L.F.	431
(7)	707-01.28 END & CORNER POST ASSEMBLY	EACH	40
(7)	707-01.25 GATE - CHAIN-LINK 8F (VNL CTD)	L.F.	91
(7)	707-06.01 REMOVAL OF FENCE (CHAIN-LINK FENCE)	L.F.	1748
	707-08.11 HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1308
	709-05.05 MACHINED RIP-RAP (CLASS A-3)	TON	151
(11)	709-05.06 MACHINED RIP-RAP (CLASS A-1)	TON	959
	709-05.08 MACHINED RIP-RAP (CLASS B)	TON	460
	710-02 AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	18394
	712-01 TRAFFIC CONTRCL	LS	1
(19)	712-02.02 INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1870
	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	1000
	712-05.01 WARNING LIGHTS (TYPE A)	EACH	30
	712-06 SIGNS (CONSTRUCTION)	S.F.	1425
	712-07.03 TEMPORARY BARRICADES (TYPE III)	L.F.	672
	712-08.03 ARROW BOARD (TYPE C)	EACH	3
(21)	712-09.01 REMOVABLE PAVEMENT MARKING LINE	L.F.	4000
	713-02.27 CONCRETE BARRIER/PARAPET DELINEATOR (BI-DIRECTIONAL)	EACH	94
(23)	713-11.01 "U" SECTION STEEL POSTS	LB.	2343
	713-11.02 PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	28
	713-11.21 P POST SLIP BASE	EACH	1
	713-11.22 U POST SLIP BASE	EACH	77
	713-13.02 FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	260
	713-13.03 FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	442
(14)	713-15 REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-01.21 Snwplwble Pvmt Mrks (Bi-Dir)(1 Color)	EACH	477
	716-01.22 Snwplwble Pvmt Mrks (Mono-Dir)(1 Color)	EACH	14
	716-01.23 Snwplwble Pvmt Mrks (Bi-Dir)(2 Color)	EACH	403
	716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	1822
	716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	754
	716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	67
	716-02.09 PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	1351
	716-02.08 PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	97
	716-02.12 PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	0.5
	716-04.01 PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	8
	716-04.13 PLASTIC PAVEMENT MARKING (BIKELANE SYMBOL & ARROW)	EACH	26
	716-04.15 PLASTIC PAVEMENT MARKING-BIKE SYMBOL/ARROW SHARED	EACH	10
(13)	716-05.01 PAINTED PAVEMENT MARKING (4" LINE)	L.M.	60
(15)	716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	7716
(15)	716-05.04 PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	3836
(15)	716-05.05 PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	1155
(15)	716-05.06 PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	22
	716-06.01 PAINTED WORD PVMT MARK (ONLY)	EACH	1
	716-12.01 ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	2
	716-12.02 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	12
(10)	716-13.01 SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	4
	717-01 MOBILIZATION	LS	1
(9)	740-10.03 GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2844
	740-10.04 GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	11300
(16)	801-01.07 TEMPORARY SEEDING (WITH MULCH)	UNIT	2495
(12)	801-02.15 FERTILIZER	TON	25
	801 03 WATER (SEEDING & SODDING)	M.G.	1674
	803-01 SODDING (NEW SOD)	S.Y.	2417
(4)	806-02.03 PROJECT MOWING	CYCL	8

FOOTNOTES:

- ITEM INCLUDES 1698 C.Y. FOR EROSION PREVENTION AND SEDIMENT CONTROL.
- INCLUDES A QUANTITY FOR TEMPORARY PAVEMENT. SEE TABULATED PAVEMENT QUANTITIES ON SHEET 2E8 FOR FURTHER DETAIL.
- SEE GRADING SPECIAL NOTES ON SHEET 2D.
- ITEM 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 MOWING, CYCL.
- ITEM INCLUDES 171 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
- ITEM INCLUDES 85 L.F. FOR EPSC MEASURES
- SEE SHEET 2E8 FOR FURTHER DETAIL.
- ITEM INCLUDES 8502 S.F. FOR TRAFFIC SEPARATOR ISLANDS AT SR12 INTERSECTION.
- SEE SUBSECTION 209.07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENTS. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- ITEM INCLUDES 1060 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
- ITEM INCLUDES 1674 M.G. FOR EPSC MEASURES.
- ITEM INCLUDES 60 L.M. FOR TEMPORARY TRAFFIC CONTROL MARKING ON INTERMEDIATE LAYERS OF PAVEMENT.
- INCLUDES REMOVING OF ALL THE EXISTING SIGNS THAT ARE REPLACED IN THE SIGN SCHEDULE WITHIN THE PROJECT OR AS DIRECTED BY THE ENGINEER-AND RESTORING OF GROUND TO ORIGINAL CONDITIONS.
- QUANTITY FOR TEMPORARY TRAFFIC CONTROL.
- THE COST OF FERTILIZER AND LIME USED IN INTIAL SEED BED PREPERATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- INCLUDES 158 TONS FOR VARYING THICKNESS OF ADDITIONAL PAVEMENT PLACED ON EXISTING PAVEMENT DUE TO CROSS SLOPE CORRECTION.
- INCLUDES 1965 TONS FOR VARYING THICKNESS OF ADDITIONAL PAVEMENT PLACED ON EXISTING PAVEMENT DUE TO CROSS SLOPE CORRECTION.
- INCLUDES AN ADDITIONAL 1000 L.F. TO BE USED AS DIRECTED BY ENGINEER.
- INCLUDES AN ADDITIONAL 6 PORTABLE IMPACT ATTENUATORS NCHRP350 TL-3 TO BE USED AS DIRECTED BY ENGINEER.
- INCLUDES 4000 L.F. TO BE USED AS DIRECTED BY THE ENGINEER.
- INCLUDES 410 L.F. FOR EPSC.
- INCLUDES 50 CONCRETE BARRIER/PARAPET DELINEATOR (BI-DIRECTIONAL) TO BE USED AS DIRECTED BY THE ENGINEER.
- ROCK CHECK DAM SYMBOLS IN THE EPSC PLANS ARE TO BE ITEM NUMBER 209-08.09. FILTER SOCK CHECK DAM. ROCK CHECK DAM QUANTITY, ITEM NUMBER 209-08.07, IS PROVIDED FOR THOSE LOCATIONS WHERE, AS DIRECTED BY THE ENGINEER, ITEM NUMBER 209-08.09, FILTER SOCK CHECK DAM MAY NOT BE APPROPRIATE. ITEM 209-08.09, FILTER SOCK CHECK DAM, USES STD. DWG. EC-STR-8.

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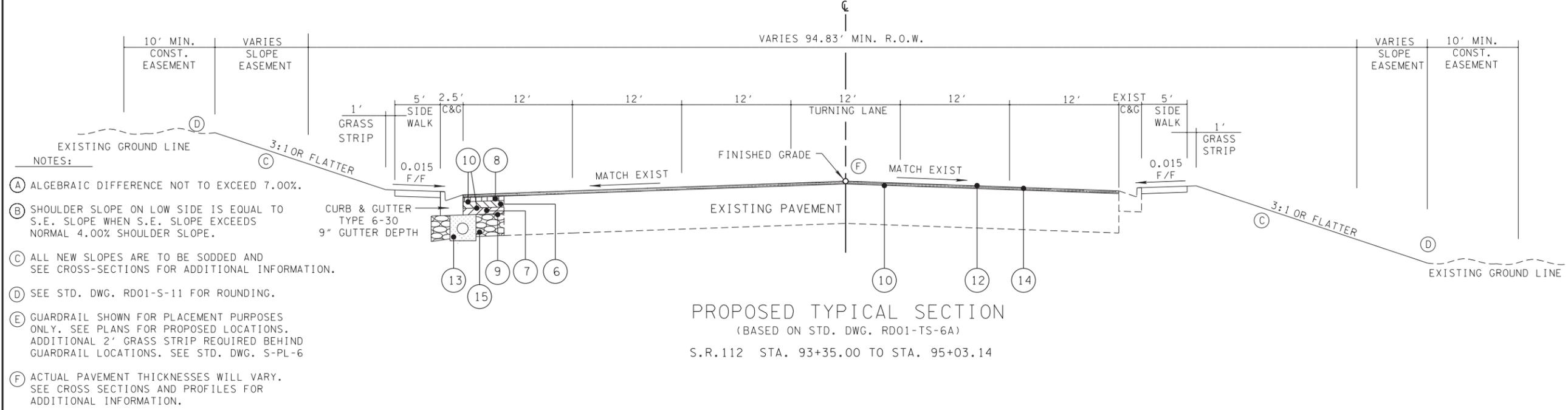
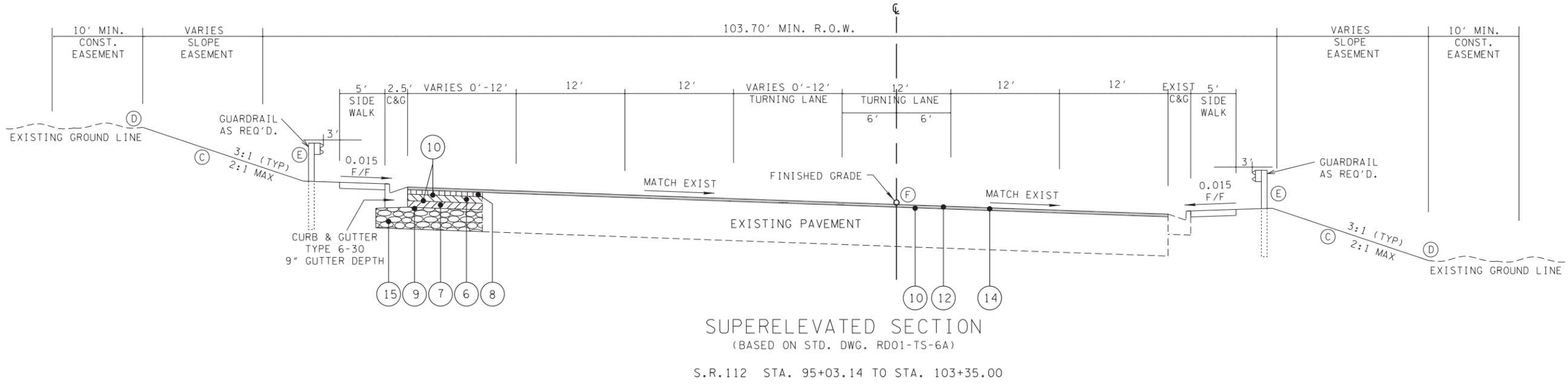
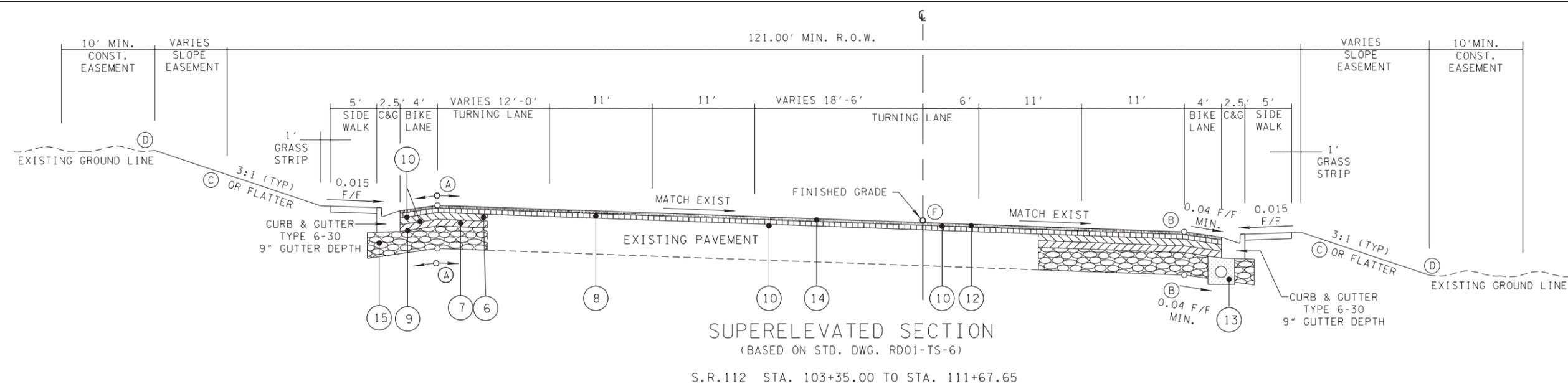
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DEPARTMENT OF
TRANSPORTATION**

**ESTIMATED
QUANTITIES**

SHEET 2 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	2
CONST.	2018	STP-112(6)	2B

REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE



- NOTES:
- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
 - (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
 - (C) ALL NEW SLOPES ARE TO BE SODDED AND SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
 - (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
 - (E) GUARDRAIL SHOWN FOR PLACEMENT PURPOSES ONLY. SEE PLANS FOR PROPOSED LOCATIONS. ADDITIONAL 2' GRASS STRIP REQUIRED BEHIND GUARDRAIL LOCATIONS. SEE STD. DWG. S-PL-6
 - (F) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.

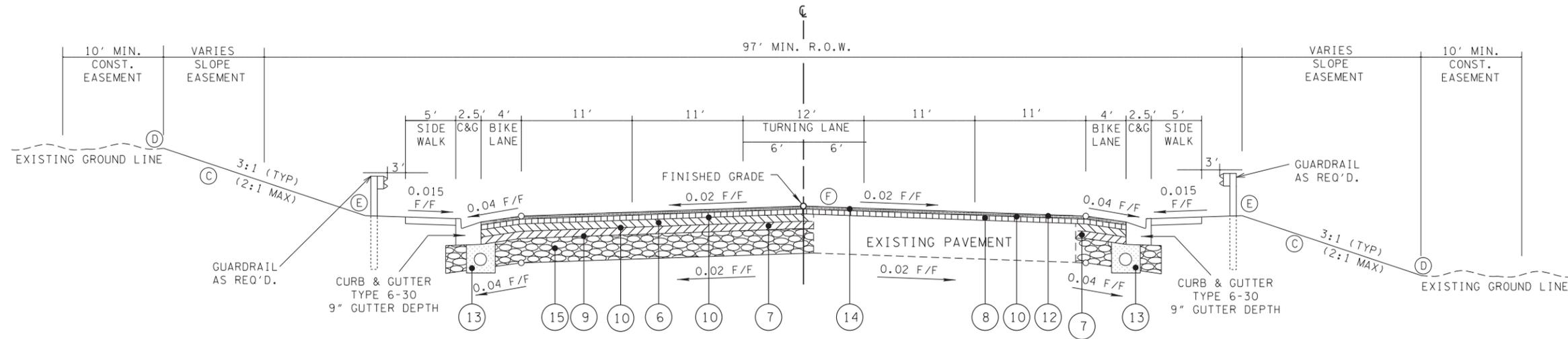
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STATE OF TENNESSEE
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TYPICAL SECTIONS

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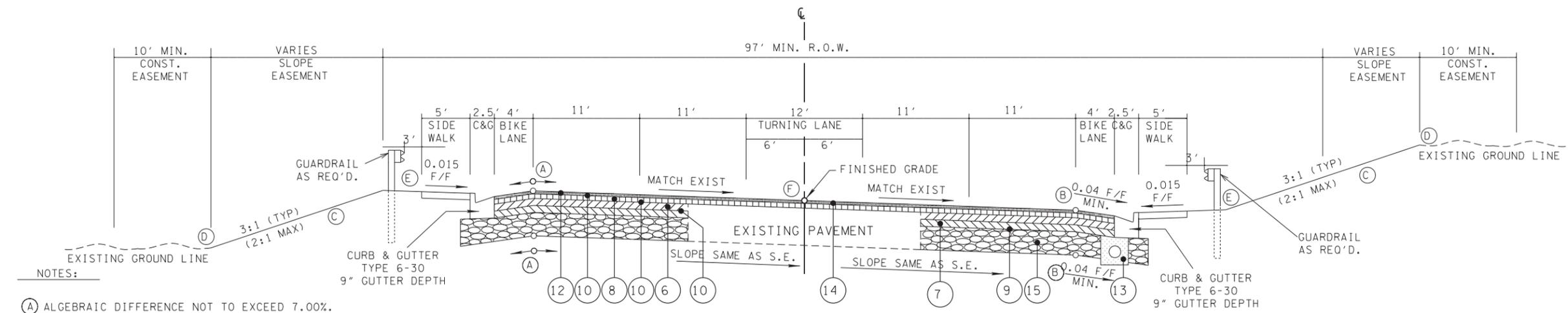
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	2A
CONST.	2018	STP-112(6)	2B1

REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE



PROPOSED TYPICAL SECTION
(BASED ON STD. DWG. RD01-TS-6A)

S.R.112 STA. 111+67.65 TO STA. 119+12.32
S.R.112 STA. 143+00.00 TO STA. 179+50.00



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-6A)

S.R.112 STA. 119+12.32 TO STA. 122+50.00

- NOTES:
- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
 - (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
 - (C) ALL NEW SLOPES ARE TO BE SODDED AND SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
 - (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
 - (E) GUARDRAIL SHOWN FOR PLACEMENT PURPOSES ONLY. SEE PLANS FOR PROPOSED LOCATIONS. ADDITIONAL 2' GRASS STRIP REQUIRED BEHIND GUARDRAIL LOCATIONS. SEE STD. DWG. S-PL-6
 - (F) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.

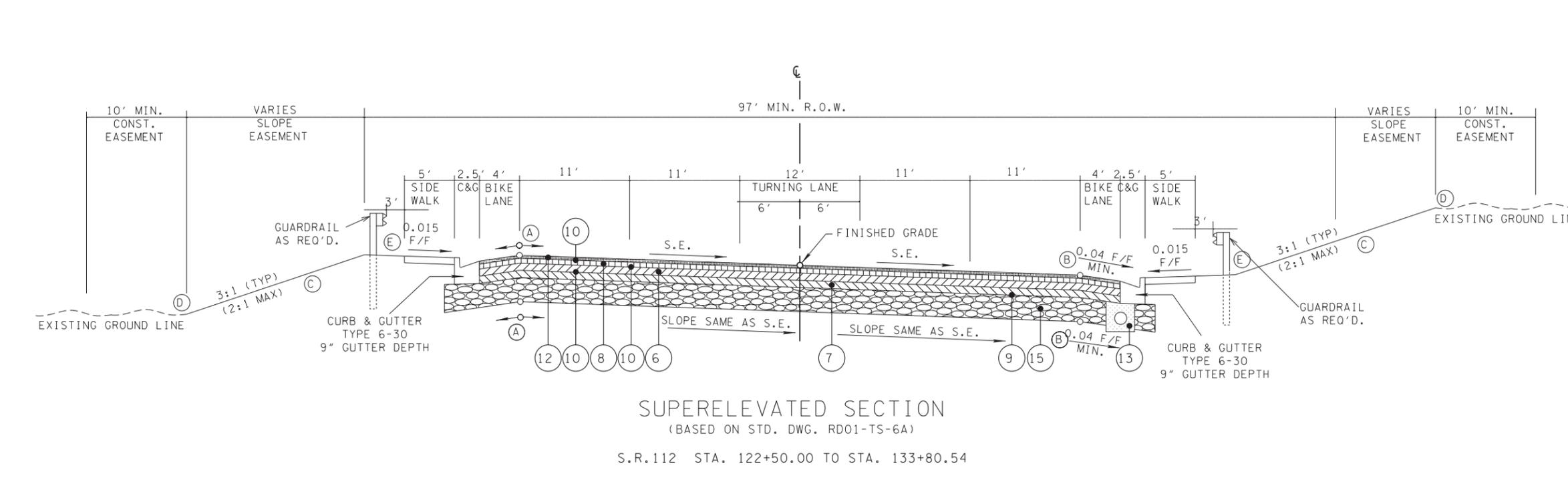
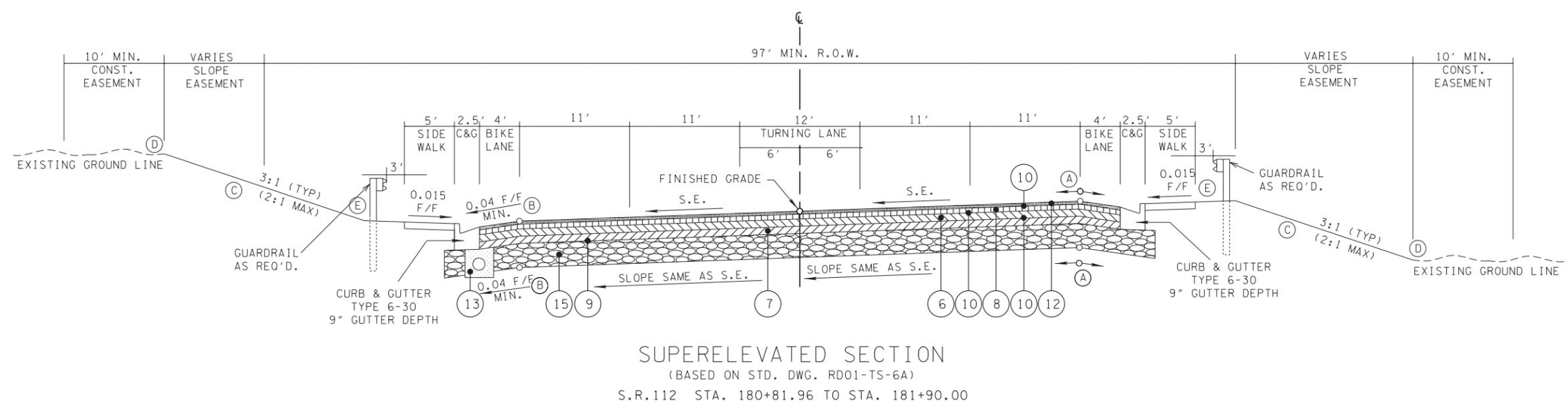
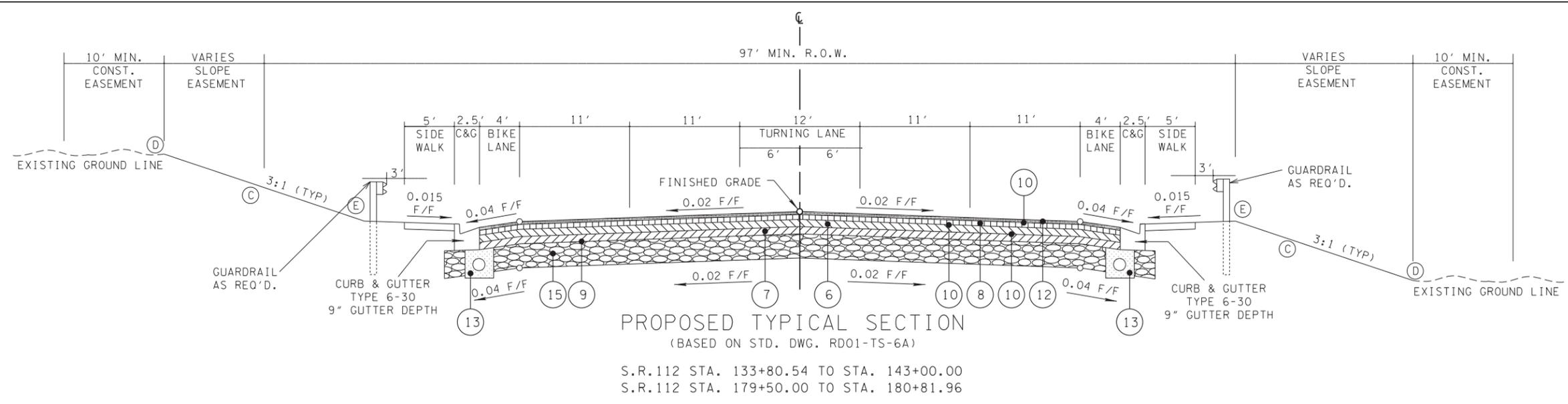
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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	2B2

REV. 07-26-18; ADDED SHEET



- NOTES:**
- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
 - (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
 - (C) ALL NEW SLOPES ARE TO BE SODDED AND SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
 - (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
 - (E) GUARDRAIL SHOWN FOR PLACEMENT PURPOSES ONLY. SEE PLANS FOR PROPOSED LOCATIONS. ADDITIONAL 2' GRASS STRIP REQUIRED BEHIND GUARDRAIL LOCATIONS. SEE STD. DWG. S-PL-6
 - (F) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.

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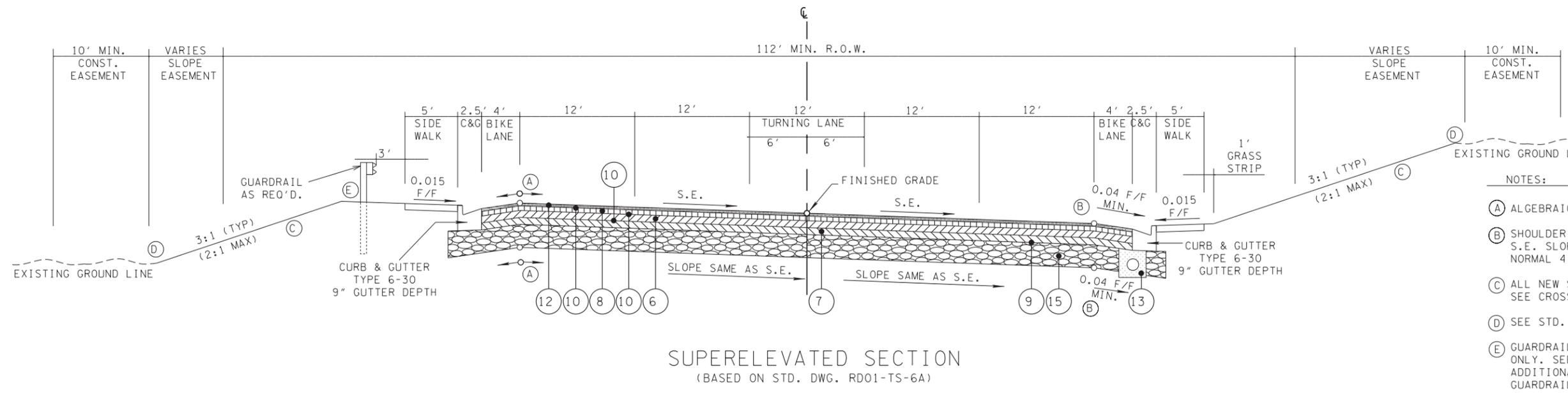
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	2B
CONST.	2018	STP-112(6)	2B3

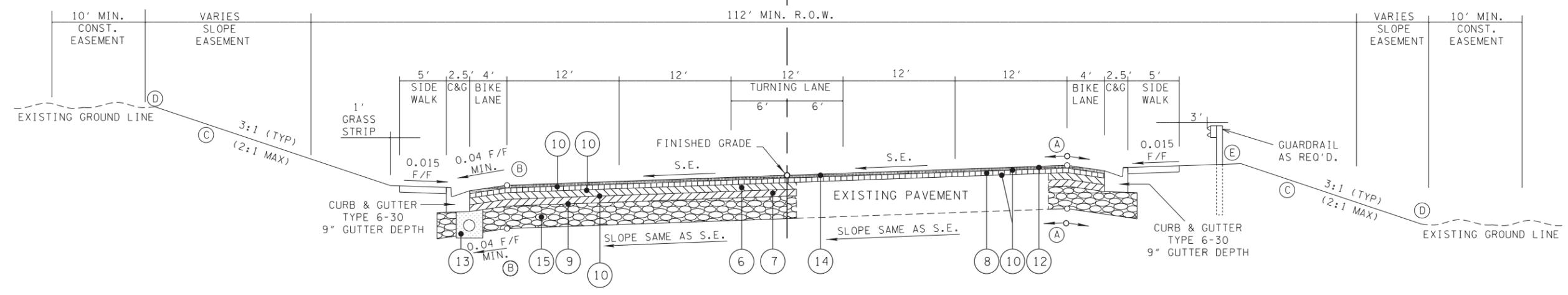
REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-6A)

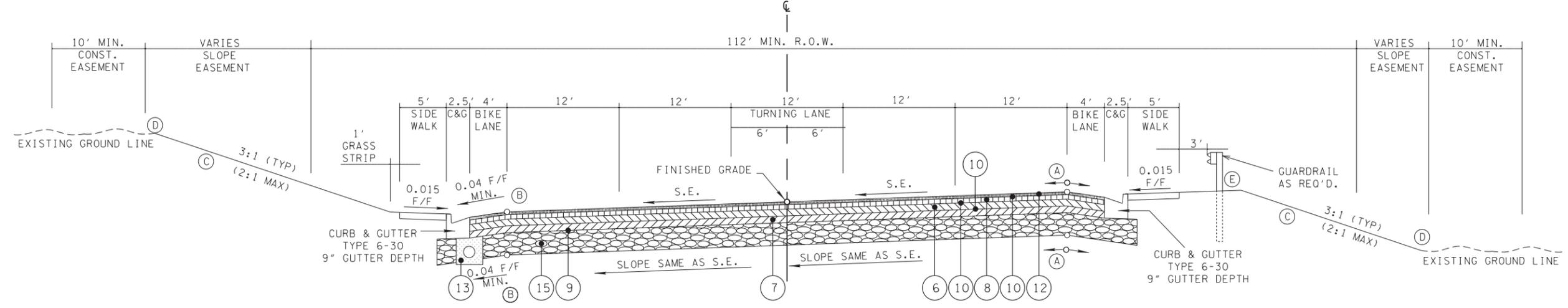
S.R.112 STA. 196+79.94 TO STA. 208+10.44

- NOTES:**
- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
 - (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
 - (C) ALL NEW SLOPES ARE TO BE SODDED AND SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
 - (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
 - (E) GUARDRAIL SHOWN FOR PLACEMENT PURPOSES ONLY. SEE PLANS FOR PROPOSED LOCATIONS. ADDITIONAL 2' GRASS STRIP REQUIRED BEHIND GUARDRAIL LOCATIONS. SEE STD. DWG. S-PL-6
 - (F) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-6A)

S.R.112 STA. 191+50.00 TO STA. 193+66.24



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-6A)

S.R.112 STA. 181+90.00 TO STA. 191+50.00

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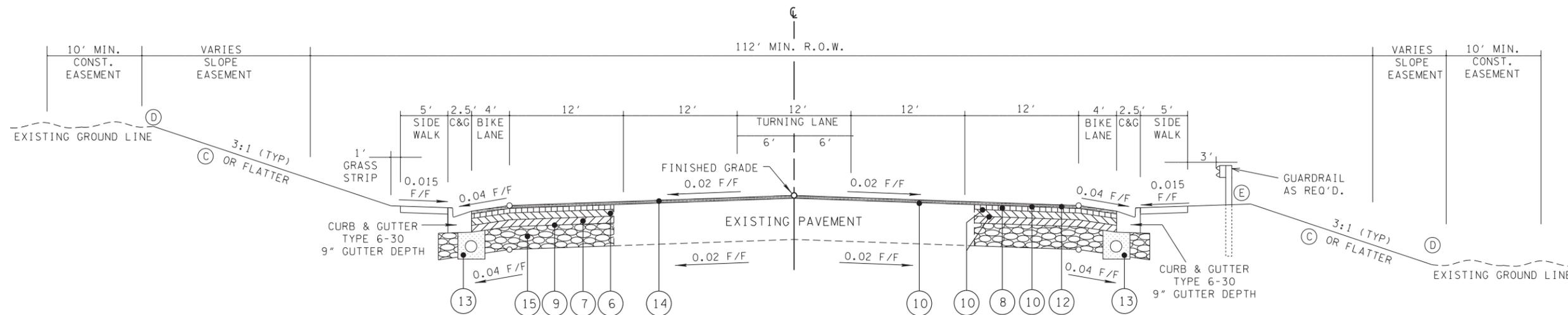
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

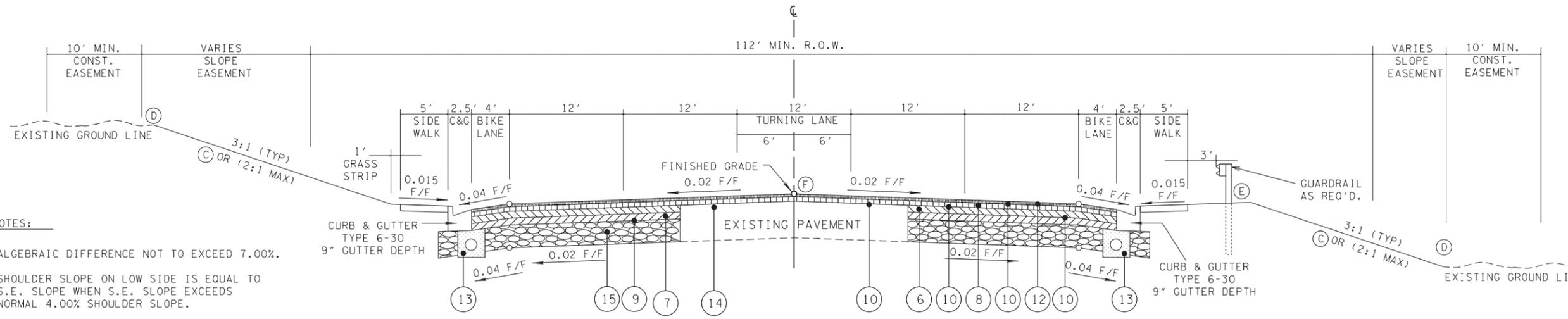
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	2B4

REV. 07-26-18: ADDED SHEET



PROPOSED TYPICAL SECTION
(BASED ON STD. DWG. RD01-TS-6A)
S.R.112 STA. 211+73.89 TO STA. 214+06.00



PROPOSED TYPICAL SECTION
(BASED ON STD. DWG. RD01-TS-6A)
S.R.112 STA. 193+66.24 TO STA. 196+79.94
S.R.112 STA. 208+10.44 TO STA. 211+73.89

- NOTES:
- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
 - (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
 - (C) ALL NEW SLOPES ARE TO BE SODDED AND SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
 - (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
 - (E) GUARDRAIL SHOWN FOR PLACEMENT PURPOSES ONLY. SEE PLANS FOR PROPOSED LOCATIONS. ADDITIONAL 2' GRASS STRIP REQUIRED BEHIND GUARDRAIL LOCATIONS. SEE STD. DWG. S-PL-6
 - (F) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.

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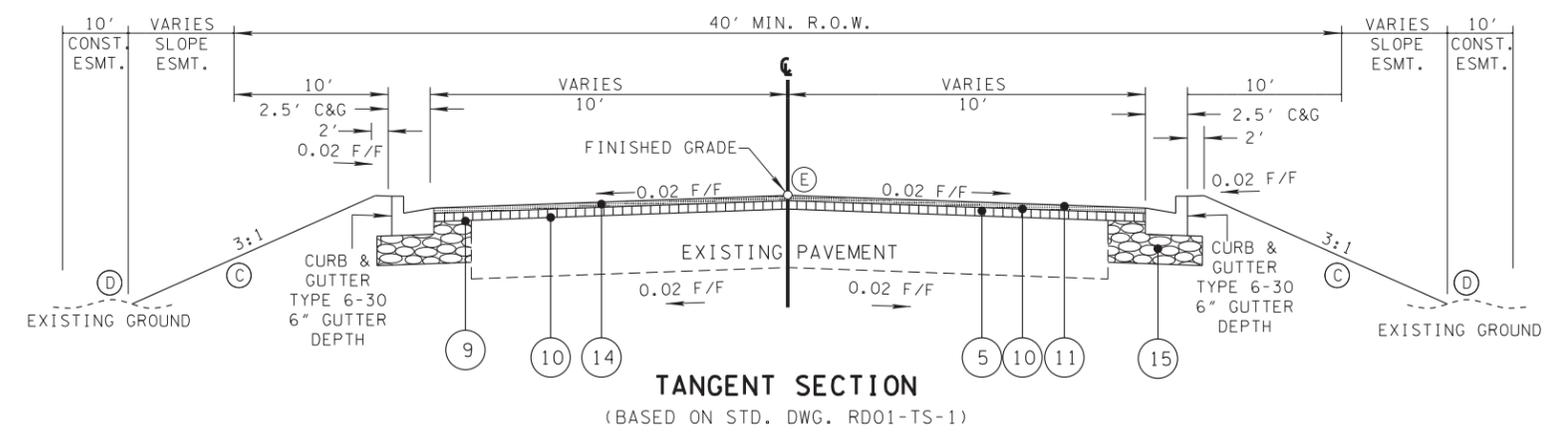
STATE OF TENNESSEE
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TYPICAL SECTIONS

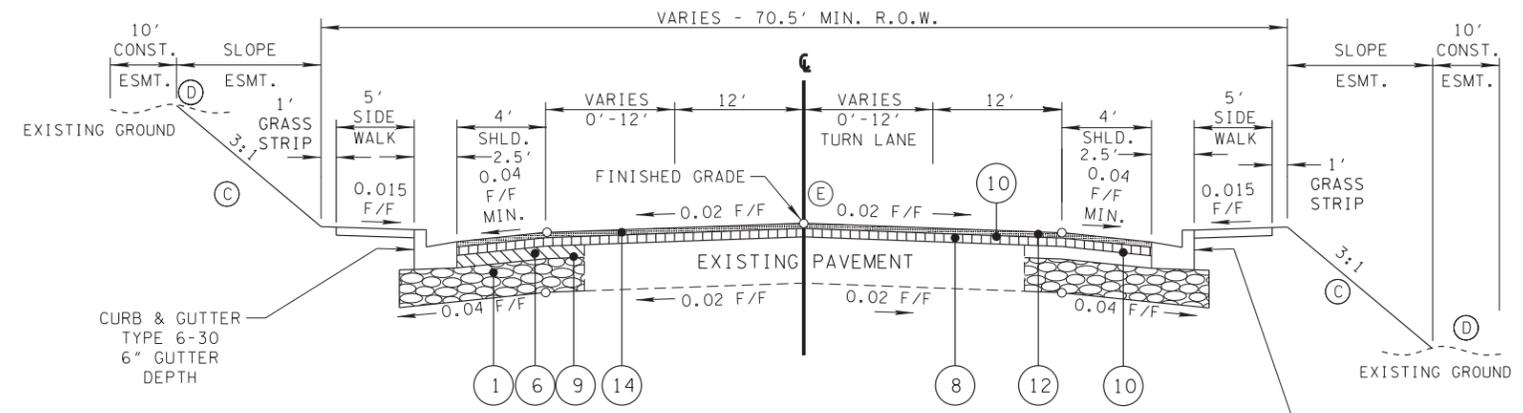
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	2C
CONST.	2018	STP-112(6)	2B5

REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE

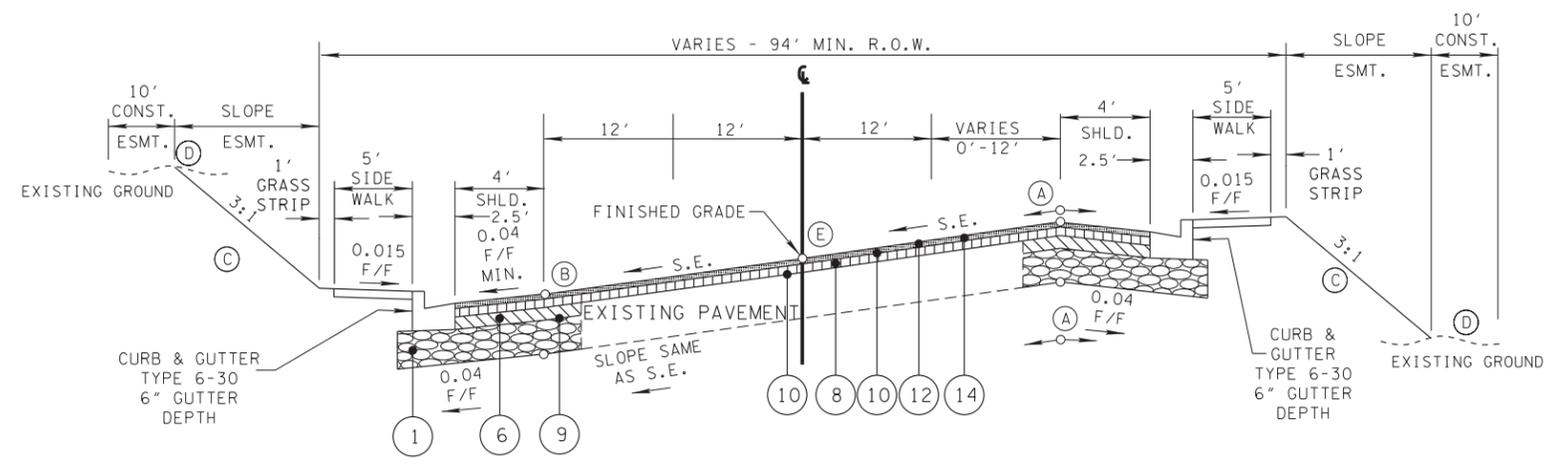


TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-1)
ASHTON AVENUE STA. 28+75.00 TO STA. 30+00.00



TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-6)
S.R. 12 (ASHLAND CITY HWY.) STA. 11+50.00 TO STA. 17+37.35

- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
- (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
- (C) ALL NEW SLOPES ARE TO BE SODDED.
- (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
- (E) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-6)
S.R.12 (ASHLAND CITY HWY.) STA. 17+37.35 TO STA. 18+00.00

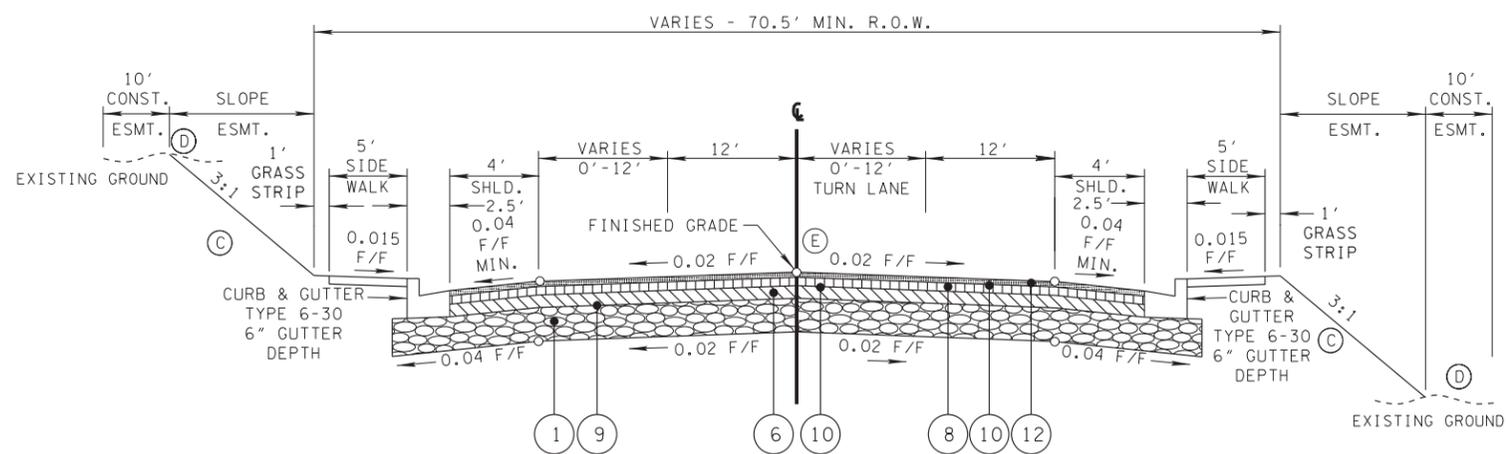
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	2B6

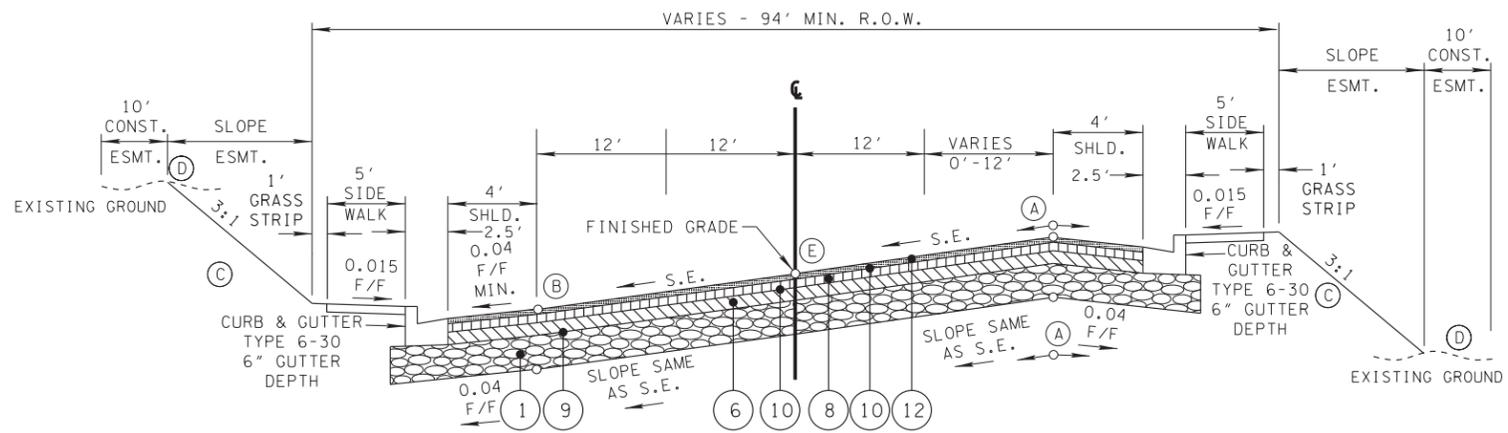
REV. 07-26-18; ADDED SHEET



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6)

S.R. 12 (ASHLAND CITY HWY.) STA. 20+55.38 TO STA. 22+59.47

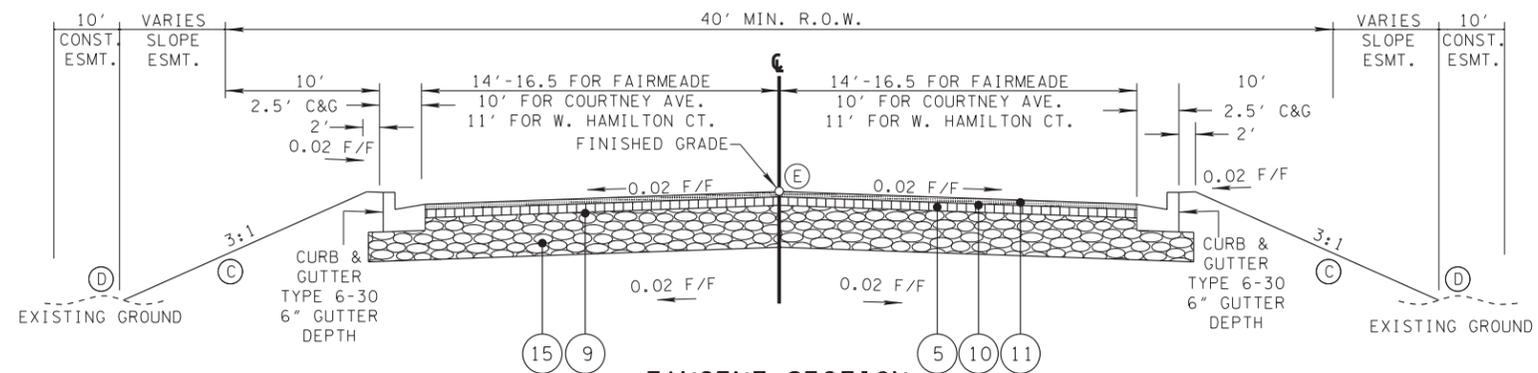


SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-6)

S.R. 12 (ASHLAND CITY HWY.) STA. 18+00.00 TO STA. 20+55.38
STA. 22+59.47 TO STA. 26+60.00

- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
- (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
- (C) ALL NEW SLOPES ARE TO BE SODDED.
- (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
- (E) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1)

COURTNEY AVENUE STA. 11+97.10 TO STA. 12+90.00
WEST HAMILTON COURT STA. 50+08.53 TO STA. 52+00.00
FAIRMEADE DRIVE STA. 10+30.00 TO STA. 12+83.00

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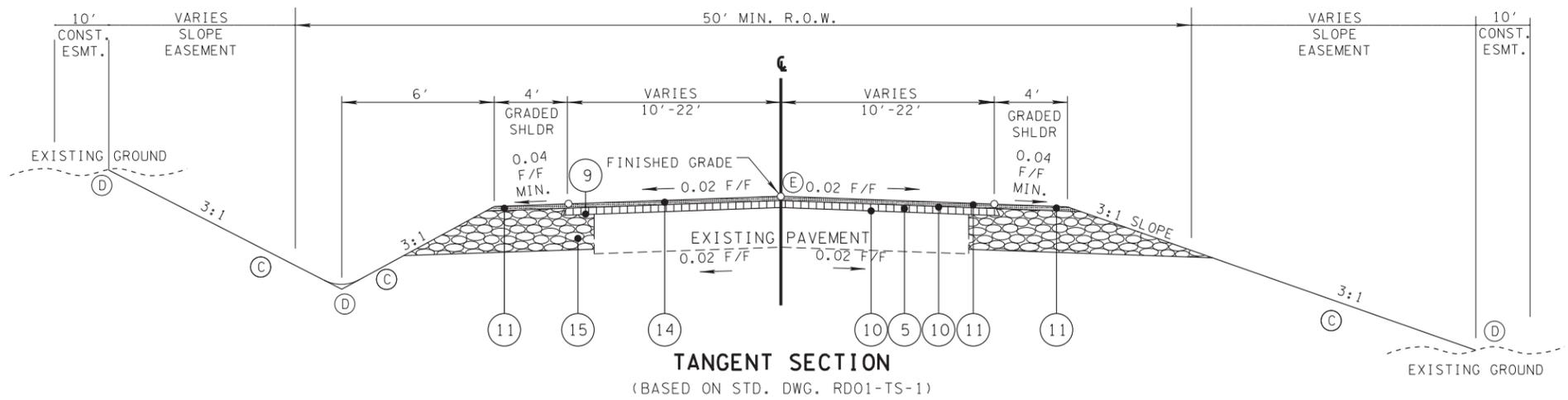
STATE OF TENNESSEE
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TYPICAL SECTIONS

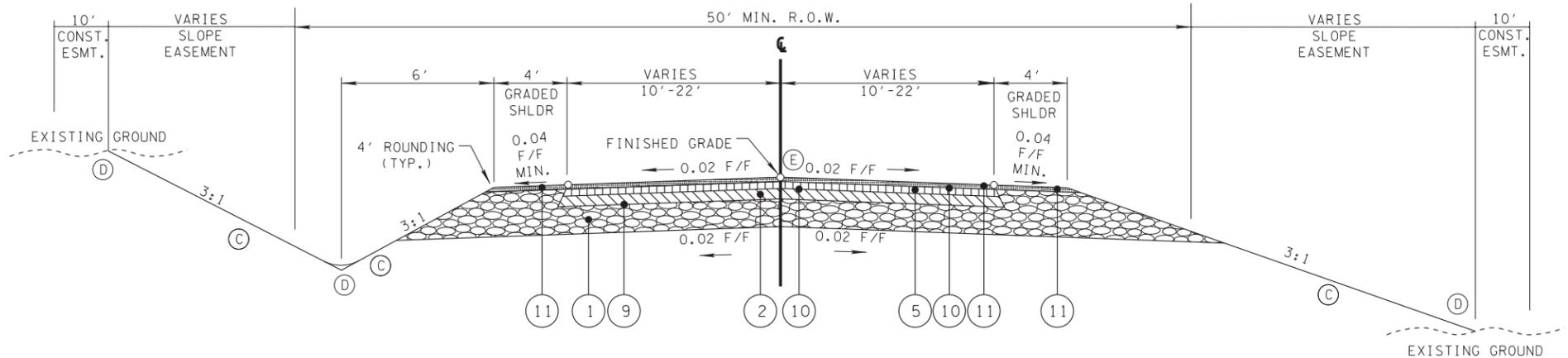
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	20
CONST.	2018	STP-112(6)	2B7

REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE

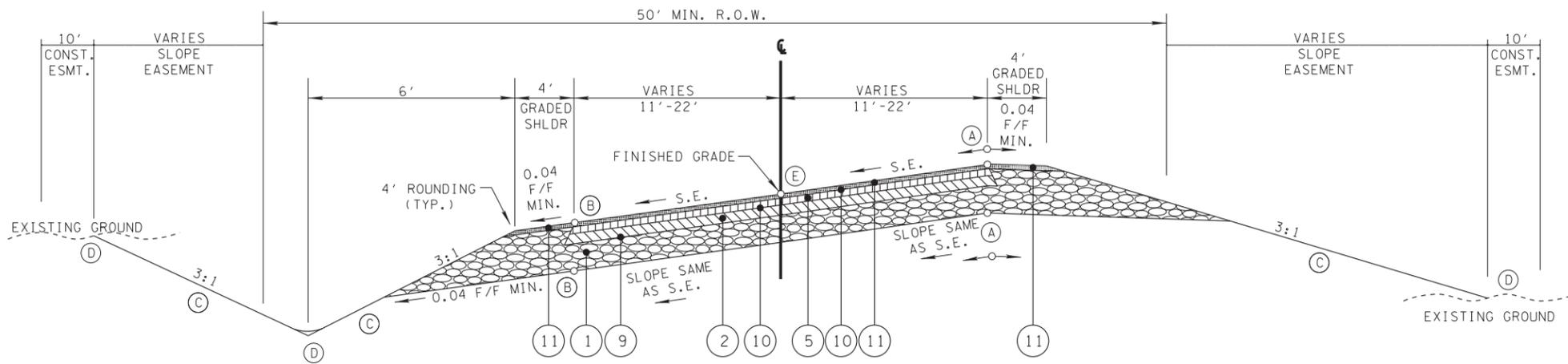


TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-1)
ABERNATHY ROAD STA. 10+00.00 TO STA. 11+67.00



TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-1)
W. HAMILTON AVENUE STA. 21+88.07 TO STA. 24+50.00
W. HAMILTON ROAD STA. 11+70.00 TO STA. 11+71.59
STA. 19+37.83 TO STA. 19+72.00

- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
- (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
- (C) ALL NEW SLOPES ARE TO BE SODDED.
- (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
- (E) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-1)
W. HAMILTON AVENUE STA. 20+28.00 TO STA. 21+88.07
W. HAMILTON ROAD STA. 11+71.59 TO STA. 19+37.83

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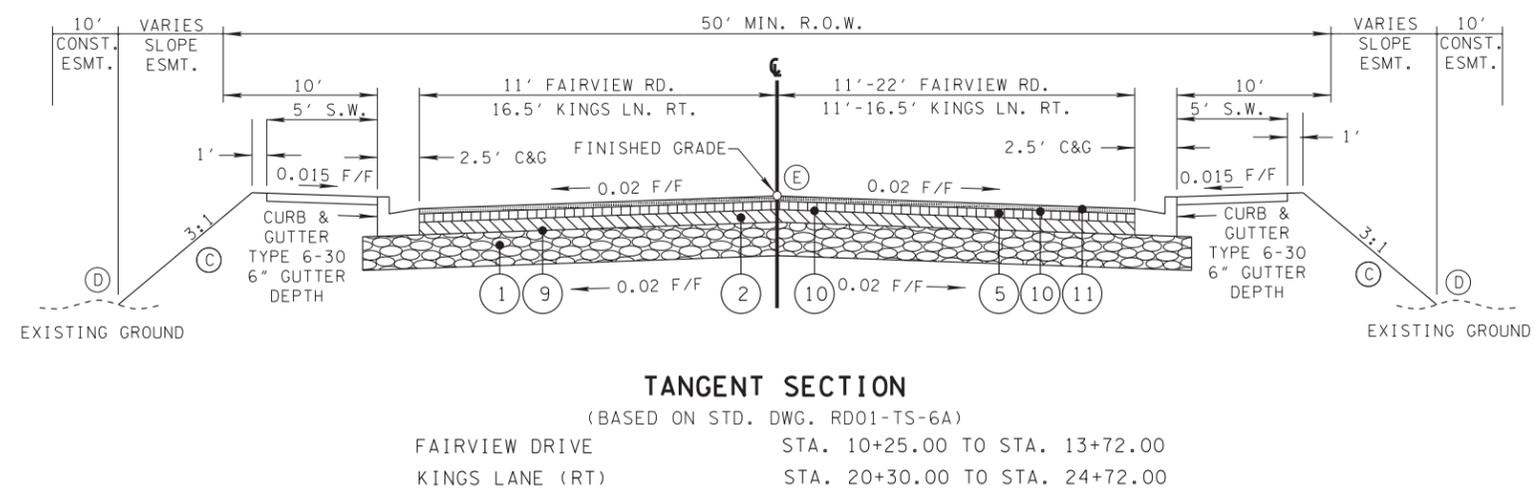
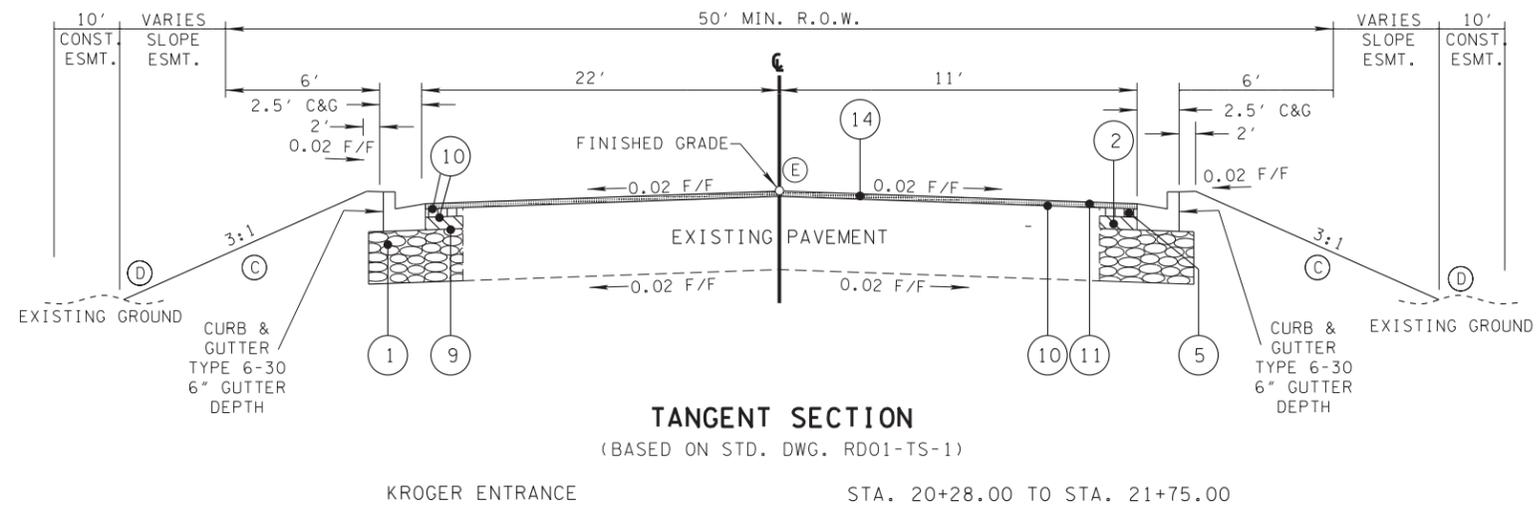
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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	2E
CONST.	2018	STP-112(6)	2B8

REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE



- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
- (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
- (C) ALL NEW SLOPES ARE TO BE SODDED.
- (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
- (E) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.

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BIDDING**

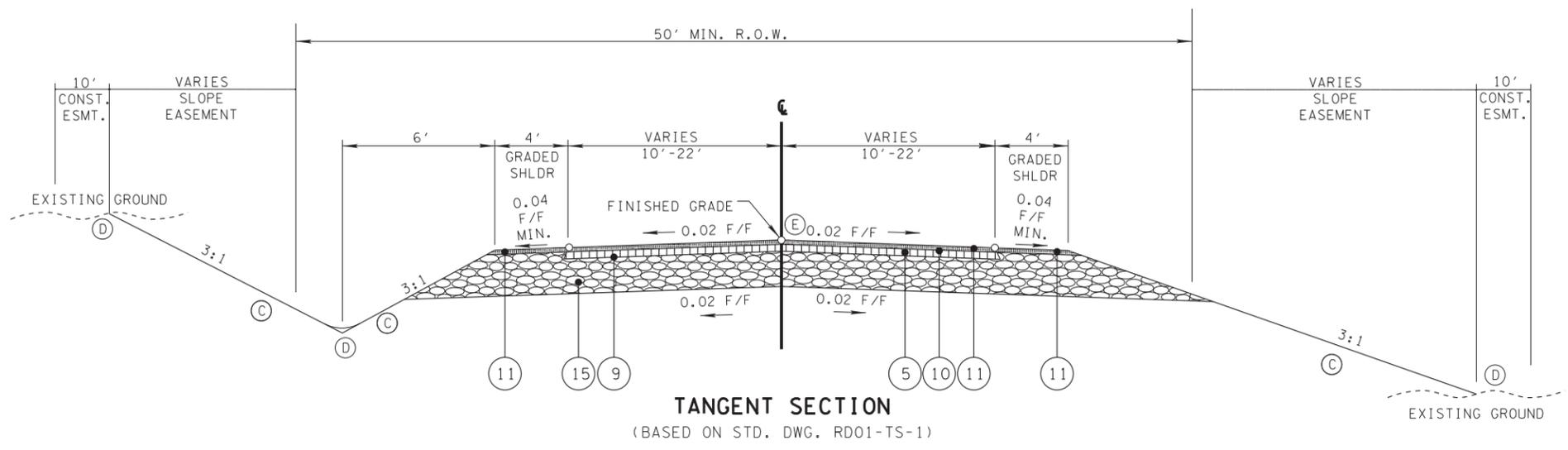
STATE OF TENNESSEE
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**TYPICAL
SECTIONS**

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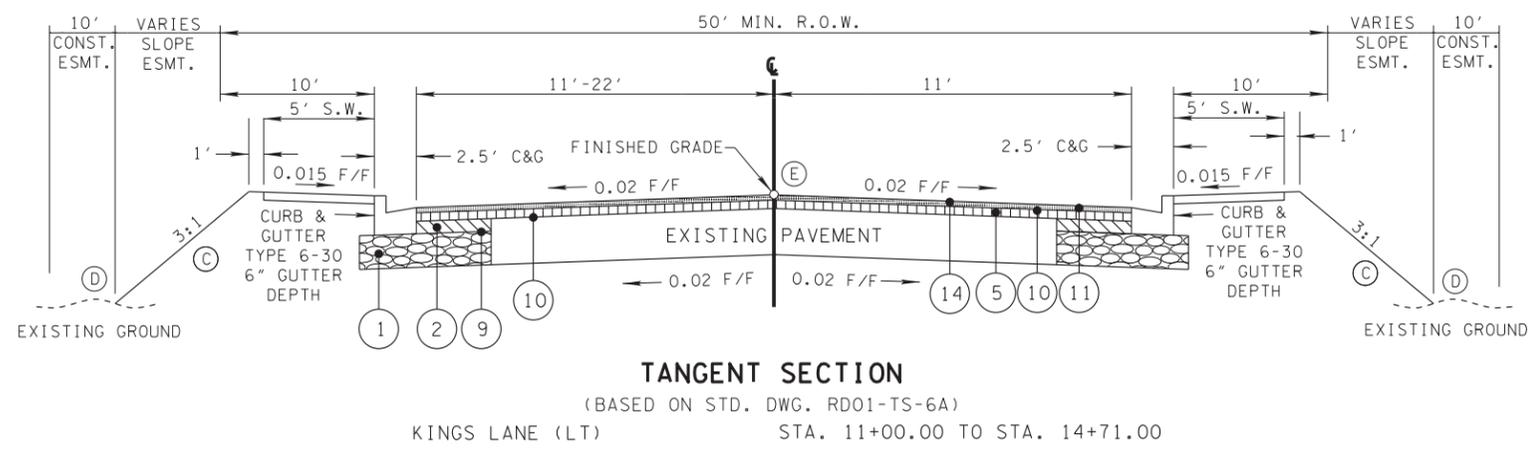
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	2F
CONST.	2018	STP-112(6)	2B9

REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE



CEDAR CIRCLE MEADOW ROAD
 STA. 9+00.00 TO STA. 12+72.00
 STA. 10+09.00 TO STA. 11+71.00

- (A) ALGEBRAIC DIFFERENCE NOT TO EXCEED 7.00%.
- (B) SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
- (C) ALL NEW SLOPES ARE TO BE SODDED.
- (D) SEE STD. DWG. RD01-S-11 FOR ROUNDING.
- (E) ACTUAL PAVEMENT THICKNESSES WILL VARY. SEE CROSS SECTIONS AND PROFILES FOR ADDITIONAL INFORMATION.



KINGS LANE (LT)
 STA. 11+00.00 TO STA. 14+71.00

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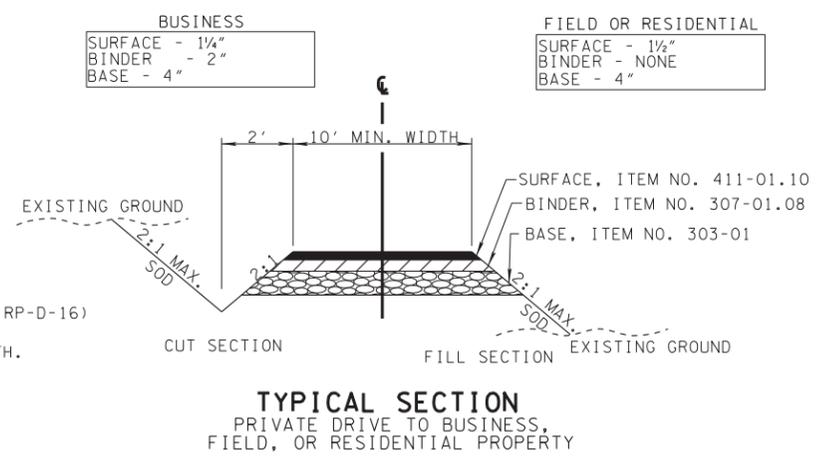
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS

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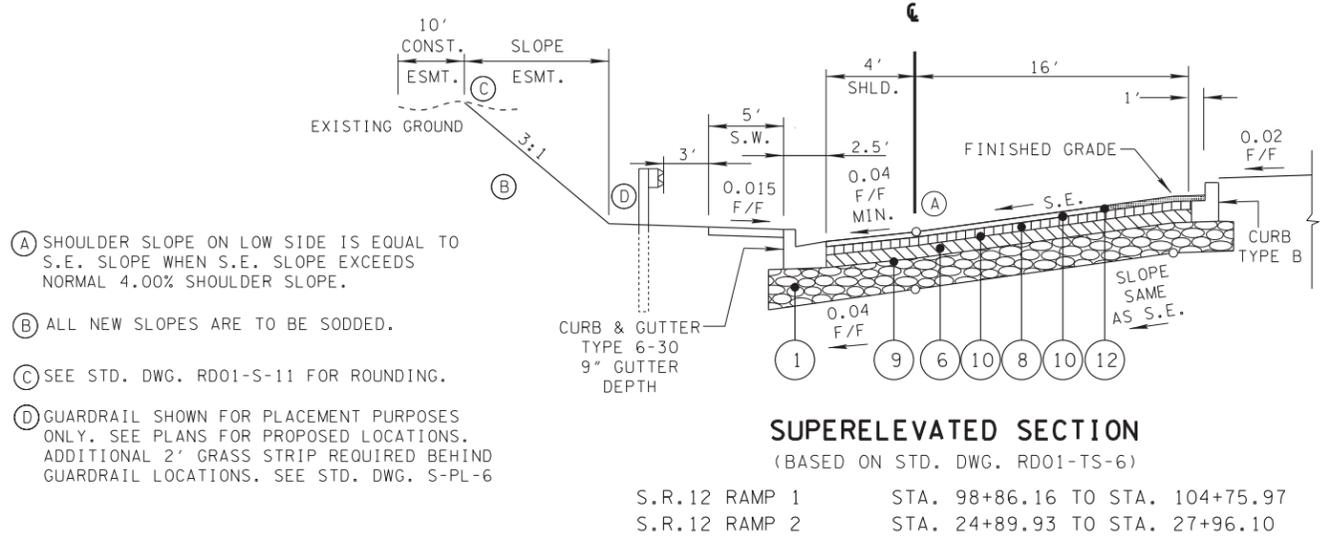
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	2G
CONST.	2018	STP-112(6)	2B10

REV. 07-26-18: REVISED TYPICAL SECTIONS DUE TO REVISIONS TO SR 112 PROFILE

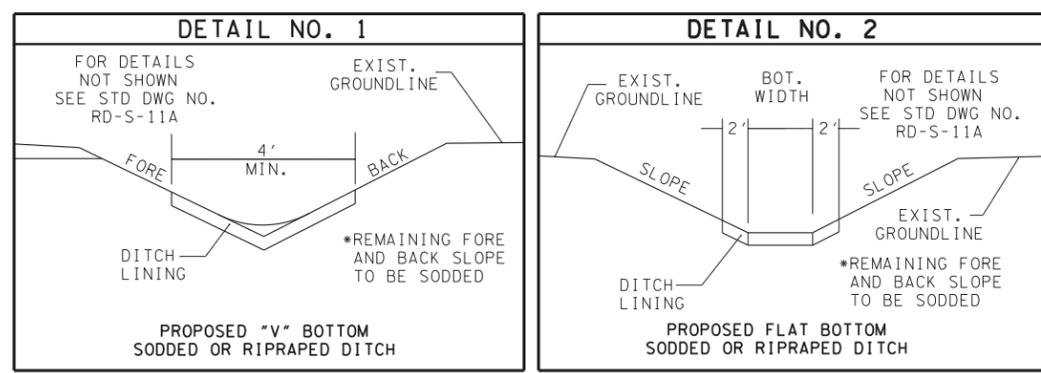
- NOTES:
- DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER.
 - 12:1(MIN.) SIDE SLOPES ON BUSINESS ENTRANCE.
 - WHERE EXISTING DRIVE IS CONCRETE, SUBSTITUTE 6 INCHES OF CONCRETE FOR BASE AND SURFACE.
 - FOR CURB AND GUTTER SECTIONS, THIS TYPICAL TO BEGIN AT BACK EDGE OF PROPOSED SIDEWALK. (STANDARD DRAWING RP-D-15, RP-D-16)
 - ALL NEW SLOPES ARE TO BE SODDED.
 - ALL FIELD ENTRANCES SHALL BE 16' MINIMUM WIDTH.
 - ALL DRIVEWAYS TO BE REPLACED IN KIND.



LOCATION	STATION		SLOPE			DETAIL NUMBER	DITCH LINING
	FROM	TO	FORE	BOT WIDTH	BACK		
			H/V	(FT)	H/V		
S.R. 112	113+00 LT	114+60 LT	3	2	3	2	RIPRAP
S.R. 112	117+50 RT	120+00 RT	3	0	2	1	RIPRAP
S.R. 112	120+75 LT	124+00 LT	3	2	3	2	RIPRAP
S.R. 112	133+00 RT	139+50 RT	3	2	3	2	RIPRAP
S.R. 112	192+50 LT	194+50 LT	3	0	3	1	RIPRAP
W. HAMILTON RD	14+50 LT	17+20 LT	3	0	4	1	RIPRAP
W. HAMILTON RD	17+40 LT	19+00 LT	3	0	3	1	RIPRAP
MEADOW RD	10+28 RT	11+50 RT	3	0	4	1	RIPRAP
MEADOW RD	11+18 RT	11+71 RT	3	0	3	1	RIPRAP



- SHOULDER SLOPE ON LOW SIDE IS EQUAL TO S.E. SLOPE WHEN S.E. SLOPE EXCEEDS NORMAL 4.00% SHOULDER SLOPE.
- ALL NEW SLOPES ARE TO BE SODDED.
- SEE STD. DWG. RD01-S-11 FOR ROUNDING.
- GUARDRAIL SHOWN FOR PLACEMENT PURPOSES ONLY. SEE PLANS FOR PROPOSED LOCATIONS. ADDITIONAL 2' GRASS STRIP REQUIRED BEHIND GUARDRAIL LOCATIONS. SEE STD. DWG. S-PL-6



PROPOSED PAVEMENT SCHEDULE	
① MINERAL AGGREGATE BASE (8"± THICK) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	⑧ BITUMINOUS BASE @ 2"± THICK (APPROX. 226 LBS./S.Y.) ITEM NO. 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2
② BITUMINOUS BASE @ 3"± THICK (APPROX. 345 LBS./S.Y.) ITEM NO. 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	⑨ PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30-0.35 GAL/S.Y. ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LBS./S.Y.
③ NOT USED	⑩ TACK COAT @ 0.07 GAL/S.Y. (GEN), @ 0.10 GAL/S.Y. (MILLING) ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
④ NOT USED	⑪ BITUMINOUS SURFACE @ 1/4"± THICK (APPROX. 132.5 LBS./S.Y.) ITEM NO. 411-01.10 ACS MIX (PG64-22) GRADING D
⑤ BITUMINOUS BASE @ 2"± THICK (APPROX. 226 LBS./S.Y.) ITEM NO. 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	⑫ BITUMINOUS SURFACE @ 1/4"± THICK (APPROX. 132.5 LBS./S.Y.) ITEM NO. 411-02.10 ACS MIX (PG70-22) GRADING D
⑥ BITUMINOUS BASE @ 3"± THICK (APPROX. 345 LBS./S.Y.) ITEM NO. 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	⑬ UNDERDRAIN ITEM NO. 710-02.00 AGGREGATE UNDERDRAIN (WITH PIPE)
⑦ BITUMINOUS BASE @ 3"± THICK (APPROX. 270 LBS./S.Y.) ITEM NO. 307-01.21 ASPHALT CONCRETE MIX (PG70-34) (BPMB-HM) GRADING A-S	⑭ COLD PLANING BITUMINOUS PAVEMENT (AVG 1/4"± DEPTH) ITEM NO. 415-01.02 (SY)
	⑮ MINERAL AGGREGATE BASE (10"± THICK) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D

NOTE: ACTUAL THICKNESSES OF ITEM NO. 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB) GRADING B-M2 AND ITEM NO. 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 PLACED ON EXISTING PAVEMENT WILL VARY DUE TO CROSS SLOPE CORRECTION. ESTIMATED QUANTITIES FOR THESE ITEMS HAVE BEEN ADJUSTED TO ACCOUNT FOR THIS VARIATION.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	2C

GENERAL NOTES

GRADING

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

SEEDING AND SODDING

- (1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.
- (2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

GUARDRAIL

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

DRAINAGE

- (1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (2) EXCAVATION FOR DRAINAGE STRUCTURES AND PIPES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).
- (3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (4) 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.
- (5) 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.

- (6) ALL EXISTING PIPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER THAT ARE TO BE LEFT IN PLACE AND ABANDONED MUST BE BACKFILLED AND PLUGGED. ALL COST FOR THIS WORK SHALL BE INCLUDED IN ITEM NO. 204-08.01, BACKFILL MATERIAL (FLOWABLE FILL), C.Y.

FENCING

- (1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.
- (2) FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES, STOCK PASSES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.
- (3) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

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 RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

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

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

- (1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.
- (2) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.
- (3) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02, PAINTED PAVEMENT MARKING (8" BARRIER LINE), L.F.
- (4) WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), L.F.

FINAL PAVEMENT MARKING

- (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 PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK

AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED.

- (2) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) 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. 716-13.01, SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

- (1) THE PAVEMENT MARKING ON THE TEMPORARY PAVEMENT, CROSS-OVERS AND LANE SHIFTS WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER THE APPROPRIATE TEMPORARY PAVEMENT MARKING AY ITEMS.
- (2) BEFORE OPENING CROSS-OVERS AND LANE SHIFTS TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THE 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 BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.
- (3) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREEED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

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GENERAL
NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	2C1

GENERAL NOTES

RESURFACING

- WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.
- ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.
- IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

GRADED SOLID ROCK

- THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.
- THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

- THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUTOUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.
- THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.
- THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION (TDOT_TRAFFICOPS@TN.GOV) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO (REGION X, AND CONTACT PERSON, EMAIL) FOR REVIEW.
- ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.
- THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

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

TRAFFIC CONTROL DIRECTIONAL SIGNING

- WHEN EXISTING "TOURIST ORIENTED DIRECTIONAL SIGNS" (TODS) ARE ON NON-ACCESS CONTROLLED CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING THESE "TODS" AND TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-01, TRAFFIC CONTROL, LUMP SUM, AS DIRECTED BY THE ENGINEER. NEW SUPPORTS AND SIGN FACE FOR FINAL LOCATION WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

SIGNALIZATION

- EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.
- EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730N-TRAFFIC SIGNALS."
- SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE METROPOLITAN NASHVILLE DEPARTMENT OF PUBLIC WORKS AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE METROPOLITAN NASHVILLE DEPARTMENT OF PUBLIC WORKS.
- IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.
- ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.
- AN ADVANCE FLASH OPERATION PERIOD IS REQUIRED TO MAKE MOTORISTS AWARE OF THE PRESENCE OF NEW SIGNAL HEADS. NEW SIGNAL HEADS SHALL BE PUT IN FLASH OPERATION FOR MINIMUM OF SEVEN (7) CALENDAR DAYS UP TO FOURTEEN (14) CALENDAR DAYS PRIOR TO ACTIVATION OF NORMAL TRAFFIC SIGNAL OPERATION. OTHER FLASH OPERATION TIME PERIODS MAY BE CONSIDERED UPON WRITTEN APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL CONTACT MIKE HIRTZER AT 615-880-3261 A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.
- THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.
- LOOP REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- 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.
- 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.

- A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

LIGHTING

- INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 1, 2015 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.
- ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.
- THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.
- EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.
- ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.
- LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.
- STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.
- STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.

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GENERAL
NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	2C2

GENERAL NOTES

- (1) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.
- (2) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.
- (3) BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

- (1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- (2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
- (3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.
- (5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- (6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- (7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- (8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- (9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

- (1) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.
- (2) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).
- (3) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

INSPECTION, MAINTENANCE & REPAIR

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

PERMITS, PLANS & RECORDS

- (1) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (2) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
- (3) 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.
- (4) 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.
- (5) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (1) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- (2) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT

REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.

- (3) 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.
- (4) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (5) 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.
- (6) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (7) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (8) 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.
- (9) 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.
- (10) 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.
- (11) 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.
- (12) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

SUPPORT ACTIVITIES

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

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GENERAL NOTES

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IB-17-08

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-112(6)	2D

SPECIAL NOTES

GRADING

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

DEMOLITION

DEMOLITION OF BUILDINGS

- (1) IF THE ASBESTOS SURVEY AND ABATEMENT IS NOT PART OF THE CONTRACT, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TDOT HAZARDOUS MATERIALS OFFICE TO VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED FOR ANY BUILDING TO BE REMOVED. IN THE CASE THAT NO SURVEY HAS BEEN COMPLETED THE CONTRACTOR SHALL COORDINATE WITH THE HAZARDOUS MATERIALS OFFICE IN SCHEDULING A SURVEY.
- (2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT SHALL BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES. FOR BUILDINGS INCLUDED IN THE PROJECT, ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.
- (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

- (1) THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).
- (2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

- (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

RETAINING WALLS

- (1) THE (RIGHT-OF-WAY/EASEMENT) BETWEEN STATION 98+95 TO STATION 100+20, STATION 103+90 TO STATION 106+29, STATION 106+81 TO STATION 109+58, STATION 169+62 TO STATION 170+78, AND STATION 181+76 TO STATION 183+41 SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED THERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.
- (2) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON THE RETAINING WALL SHEET(S).
- (3) VALUE ENGINEERING CHANGE PROPOSALS WILL NOT BE ACCEPTED FOR RETAINING WALLS. (ITEM NUMBER(S): 604-07.01, 604-07.02, 604-07.03, 604-07.04, 604-07.05.
- (4) ALL COST OF BUILDING, INSTALLING AND BACKFILLING THE RETAINING WALL, INCLUDING GRANULAR BACKFILL, GEOTEXTILE FABRIC (TYPE IV), LEVELING PAD, AND MOMENT SLAB, SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL. COSTS FOR EXCAVATION OF THE WALL SHALL BE INCLUDED IN ITEM 203-01, ROAD AND DRAINAGE EXCAVATION PER CUBIC YARD. END AREAS FOR EXCAVATION FOR THE WALL SHALL BE INCLUDED IN END AREA TOTALS ON CROSS-SECTIONS.

HISTORICAL

- (1) THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING AND COORDINATING WITH THE TDOT REGIONAL SIGN SHOP FOR STORING HISTORIC MARKER(S). AT THE TIME THE MARKER(S) IS TAKEN DOWN, LINDA WYNN WITH THE TENNESSEE HISTORICAL COMMISSION SHOULD BE NOTIFIED AT (615)-770-1093. AT THE END OF CONSTRUCTION, MARKER(S) WILL BE RESET BY THE SIGN SHOP AT THE DIRECTION OF THE REGIONAL TRAFFIC ENGINEER. IF THE MARKER CANNOT BE RESET OUTSIDE OF THE CLEAR ZONE, THE REGIONAL TRAFFIC ENGINEER WILL CONTACT THE TENNESSEE HISTORIC COMMISSION AND RETURN THE MARKER(S).

SIGNALIZATION

- (1) THE TRAFFIC SIGNAL SUPPORT POLES SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRIES, AND TRAFFIC SIGNALS (CURRENT EDITION WITH ADDENDA). WIND LOADS SHALL BE BASED ON A BASIC WIND SPEED OF 90 MPH WITH A RECURRENCE INTERVAL OF 50 YEARS. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY I. FATIGUE LOADS ARE BASED ON THE REQUIREMENTS OF SECTION 11.7 OF THE SUBJECT AASHTO DOCUMENT AND THE FOLLOWING LOADS:
 - a. GALLOPING – NO DESIGN NECESSARY. VIBRATION DAMPENERS SHALL BE USED ON ALL CANTILEVERED ARMS THAT ARE 50' OR LONGER.
 - b. VORTEX SHEDDING – NOT APPLICABLE ON TRAFFIC SIGNAL SUPPORTS WITH A TAPER OF AT LEAST 0.14 IN/FT.
 - c. NATURAL WIND GUSTS – THE YEARLY MEAN WIND SPEED FOR NATURAL WIND GUSTS SHALL BE 11.2 MPH.

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

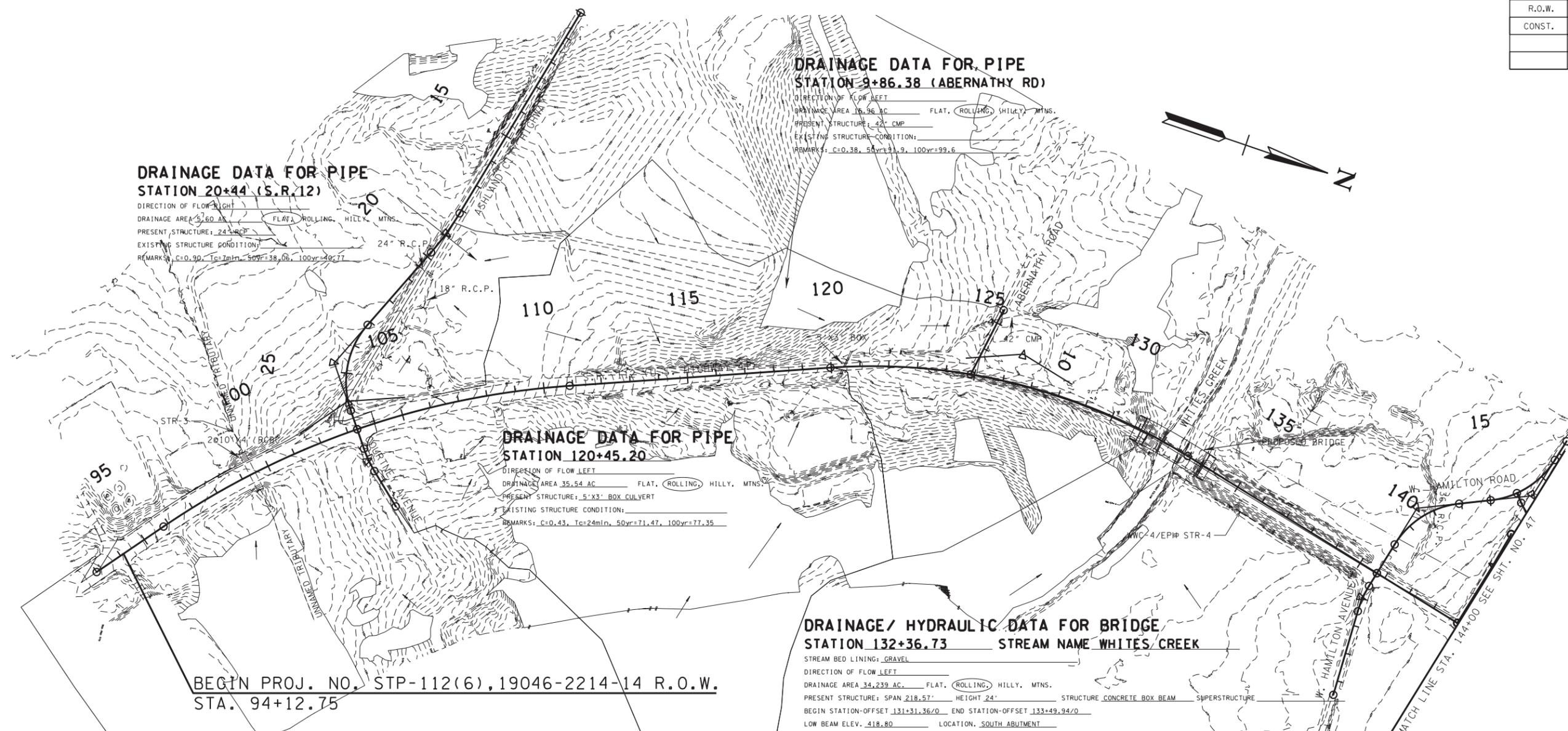
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SPECIAL
NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	46
CONST.	2018	STP-112(6)	46



**DRAINAGE DATA FOR PIPE
STATION 20+44 (S.R. 12)**
 DIRECTION OF FLOW LEFT
 DRAINAGE AREA 5.60 AC FLAT, ROLLING, HILLY, MTNS.
 PRESENT STRUCTURE: 24" R.C.P.
 EXISTING STRUCTURE CONDITION:
 REMARKS: C=0.90, Tc=7min, 50yr=38.06, 100yr=40.77

**DRAINAGE DATA FOR PIPE
STATION 9+86.38 (ABERNATHY RD)**
 DIRECTION OF FLOW LEFT
 DRAINAGE AREA 16.96 AC FLAT, ROLLING, HILLY, MTNS.
 PRESENT STRUCTURE: 42" CMP
 EXISTING STRUCTURE CONDITION:
 REMARKS: C=0.38, 50yr=31.9, 100yr=39.6

**DRAINAGE DATA FOR PIPE
STATION 120+45.20**
 DIRECTION OF FLOW LEFT
 DRAINAGE AREA 35.54 AC FLAT, ROLLING, HILLY, MTNS.
 PRESENT STRUCTURE: 5'x3' BOX CULVERT
 EXISTING STRUCTURE CONDITION:
 REMARKS: C=0.43, Tc=24min, 50yr=71.47, 100yr=77.35

**DRAINAGE/HYDRAULIC DATA FOR BRIDGE
STATION 132+36.73 STREAM NAME WHITES CREEK**
 STREAM BED LINING: GRAVEL
 DIRECTION OF FLOW LEFT
 DRAINAGE AREA 34,239 AC FLAT, ROLLING, HILLY, MTNS.
 PRESENT STRUCTURE: SPAN 218.57' HEIGHT 24' STRUCTURE CONCRETE BOX BEAM SUPERSTRUCTURE
 BEGIN STATION-OFFSET 131+31.36/0 END STATION-OFFSET 133+49.94/0
 LOW BEAM ELEV. 418.80 LOCATION SOUTH ABUTMENT
 INLET INVERT ELEV. 395.11 OUTLET INVERT. 395.16
 NORMAL WATER ELEV. 396.35 EXTREME HIGHWATER ELEV. 404.62 DATE. 2-14-2006
 HOW OBTAINED VISUAL INSPECTION
 BACKWATER FROM WHAT STREAM (IF APPLICABLE):
 EXISTING STRUCTURE CONDITION:
 SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER, SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.
 SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.
 REMARKS:

BEGIN PROJ. NO. STP-112(6), 19046-2214-14 R.O.W.
 STA. 94+12.75

**DRAINAGE DATA FOR PIPE
STATION 99+40.00**
 DIRECTION OF FLOW LEFT
 DRAINAGE AREA 121.49 AC FLAT, ROLLING, HILLY, MTNS.
 PRESENT STRUCTURE: 2610'x4' BOX CULVERT
 EXISTING STRUCTURE CONDITION:
 REMARKS: C=0.37, Tc=46min, 50yr=246cfs, 100yr=282cfs

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**DRAINAGE
 MAP**
 BEGIN PROJ. TO STA. 144+00
 SCALE: 1"=200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	47
CONST.	2018	STP-112(6)	47



**DRAINAGE DATA FOR PIPE
STATION 144+14.14**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 1.27 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION:
REMARKS:

**DRAINAGE DATA FOR PIPE
STATION 149+84.89**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 1.56 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION:
REMARKS:

**DRAINAGE DATA FOR PIPE
STATION 155+57.54**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 1.84 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.5, Tc=20min, 50yr=1.76, 100yr=2.38

**DRAINAGE DATA FOR PIPE
STATION 181+95.02**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 5.38 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 24" RCP
EXISTING STRUCTURE CONDITION:
REMARKS:

**DRAINAGE DATA FOR PIPE
STATION 192+98.08**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 5.30 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 30" RCP
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.38, Tc=17min, 50yr=11.03, 100yr=11.88

**DRAINAGE DATA FOR PIPE
STATION 190+73.01**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 0.99 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION:
REMARKS:

**DRAINAGE DATA FOR PIPE
STATION 10+54.22 (KROGER ENT)**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 4.68 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.51, Tc=27min, 50yr=1.53, 100yr=1.86

**DRAINAGE DATA FOR PIPE
STATION 175+68.08**

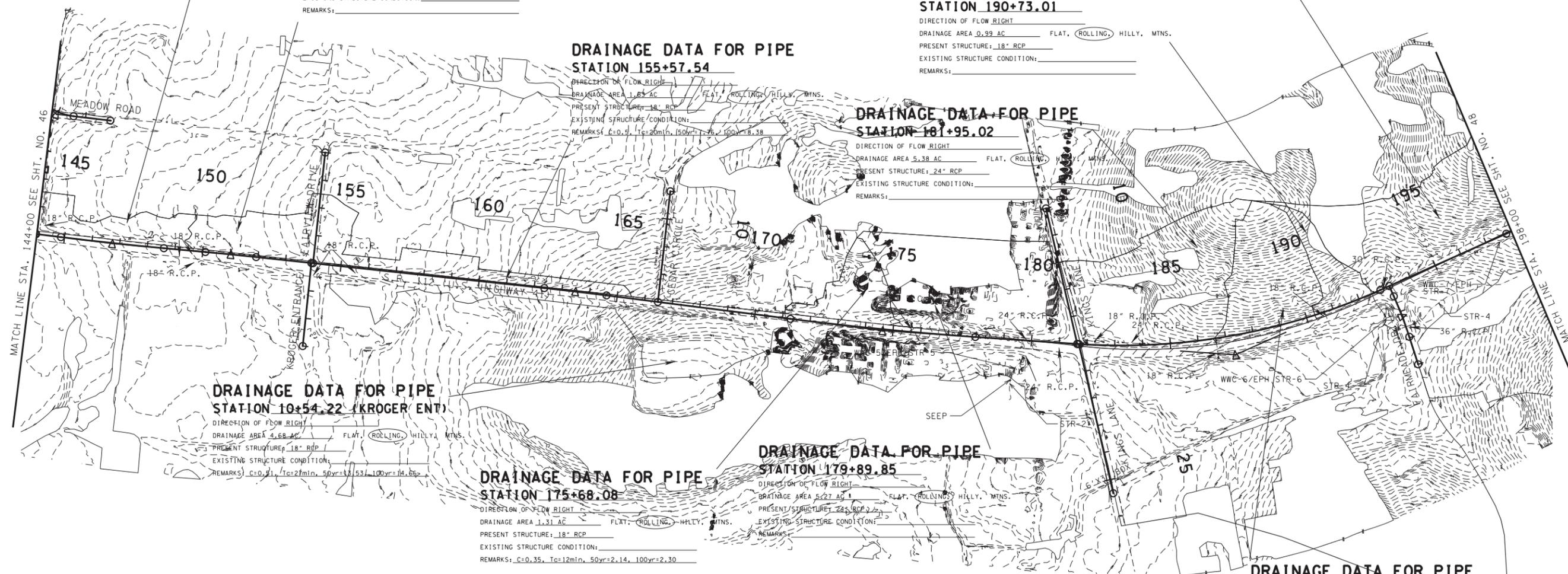
DIRECTION OF FLOW RIGHT
DRAINAGE AREA 1.31 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.35, Tc=12min, 50yr=2.14, 100yr=2.30

**DRAINAGE DATA FOR PIPE
STATION 179+89.85**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 5.27 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 24" RCP
EXISTING STRUCTURE CONDITION:
REMARKS:

**DRAINAGE DATA FOR PIPE
STATION 186+66.52**

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 2.90 AC FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.25, Tc=19min, 50yr=3.45, 100yr=3.73

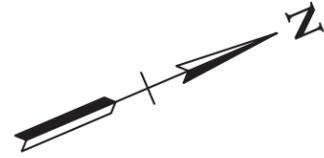


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**DRAINAGE
MAP**
STA. 144+00 TO STA. 198+00
SCALE: 1"=200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	48
CONST.	2018	STP-112(6)	48



**DRAINAGE DATA FOR PIPE
STATION SR155 E. BOUND OFF RAMP**

DIRECTION OF FLOW LEFT
 DRAINAGE AREA 16.58 AC FLAT, (ROLLING), HILLY, MTNS.
 PRESENT STRUCTURE: 48" RCP
 EXISTING STRUCTURE CONDITION:
 REMARKS:

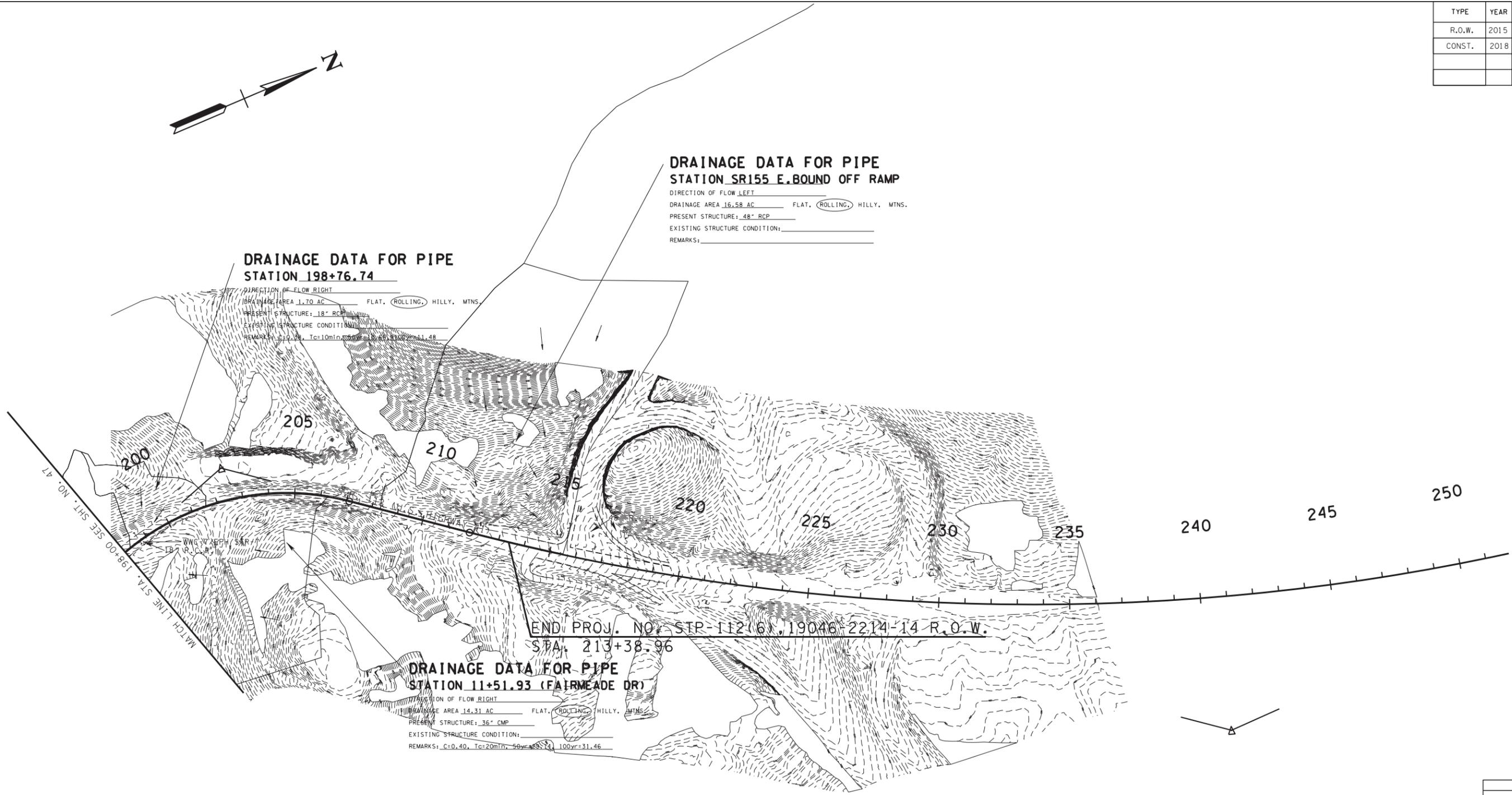
**DRAINAGE DATA FOR PIPE
STATION 198+76.74**

DIRECTION OF FLOW RIGHT
 DRAINAGE AREA 1.70 AC FLAT, (ROLLING), HILLY, MTNS.
 PRESENT STRUCTURE: 18" RCP
 EXISTING STRUCTURE CONDITION:
 REMARKS: C=0.38, Tc=10min, S=0.005, L=11.48

**DRAINAGE DATA FOR PIPE
STATION 11+51.93 (FAIRMEADE DR)**

DIRECTION OF FLOW RIGHT
 DRAINAGE AREA 14.31 AC FLAT, (ROLLING), HILLY, MTNS.
 PRESENT STRUCTURE: 36" CMP
 EXISTING STRUCTURE CONDITION:
 REMARKS: C=0.40, Tc=20min, S=0.005, L=31.46

END PROJ. NO. STP-112(6), 19046-2214-14 R.O.W.
 STA. 213+38.96



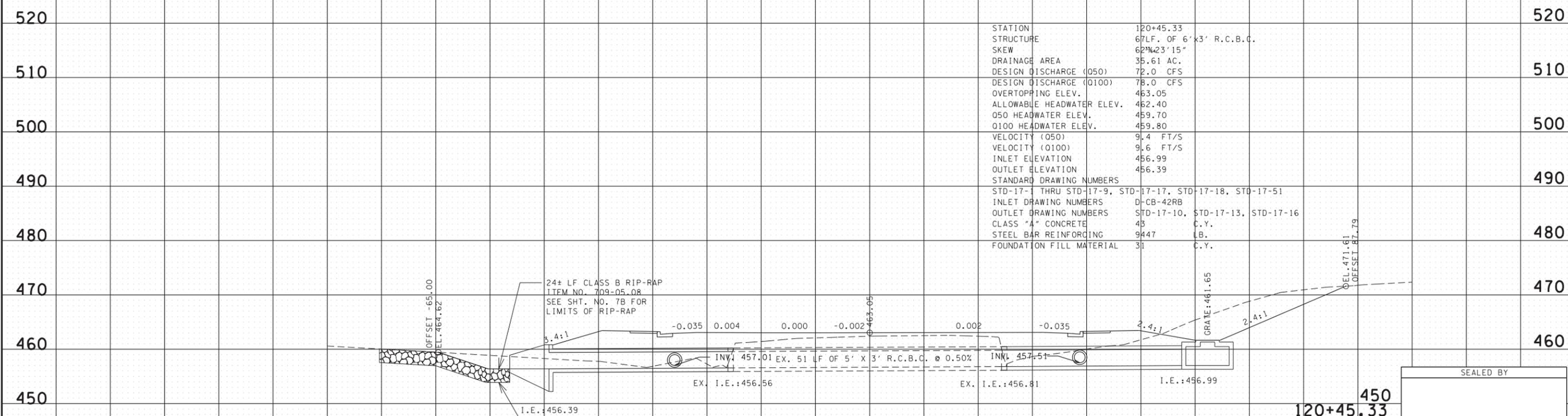
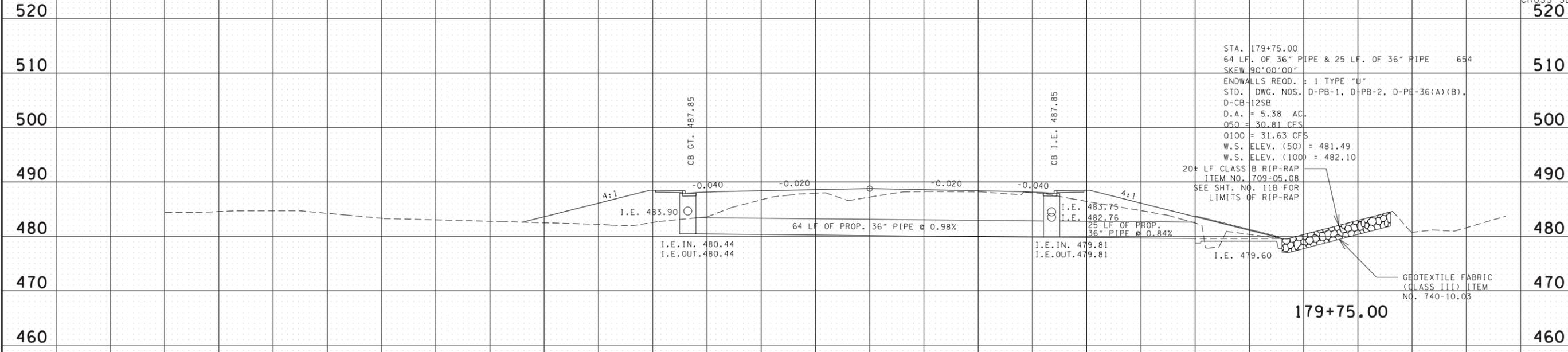
MATCH LINE STA. 198+00 SEE SHT. NO. 47

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 BIDDING**

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
**DRAINAGE
 MAP**
 STA. 198+00 TO END OF PROJ.
 SCALE: 1"=200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	49
CONST.	2018	STP-112(6)	49

REV. 07-26-18: REVISED CULVERT CROSS-SECTIONS DUE TO REVISIONS TO SR 112 PROFILE
 REV. 11-08-18: REVISED CULVERT CROSS-SECTIONS PER TDOT COMMENTS



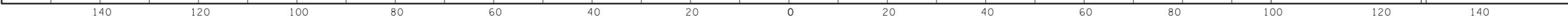
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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 CULVERT
 CROSS-
 SECTIONS
 SCALE: 1"=20' HORIZ.
 1"=20' VERT.

BEGIN STA. 120+45.33
 END STA. 120+45.33

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	50
CONST.	2018	STP-112(6)	50

REV. 07-26-18: REVISED CULVERT CROSS-SECTIONS DUE TO REVISIONS TO SR 112 PROFILE

590

580

570

560

550

540

530

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560

550

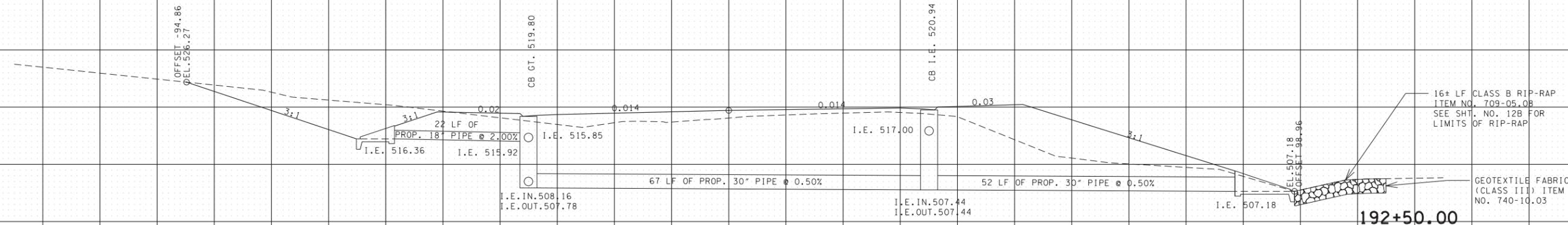
540

530

520

510

STA. 192+50.00
 22 LF. OF 18" PIPE & 199 LF. OF 30" PIPE
 SKEW 90°00'00"
 ENDWALLS REOD. : 2 TYPE "U"
 STD. DWG. NOS. D-PB-1, D-PB-2, D-PE-18(A)(B)
 D-PE-30(A)(B), D-CB-12S
 D.A. = 2.08 AC.
 050 = 5.32 CFS
 0100 = 5.68 CFS
 W.S. ELEV. (50) = 517.71
 W.S. ELEV. (100) = 517.77



192+50.00
 S.R. 112

BEGIN STA. 192+50.00
 END STA. 192+50.00

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

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 DEPARTMENT OF TRANSPORTATION
 CULVERT
 CROSS-
 SECTIONS
 SCALE: 1"=20' HORIZ.
 1"=20' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	51
CONST.	2018	STP-112(6)	51

REV. 07-26-18: REVISED CULVERT CROSS-SECTIONS DUE TO REVISIONS TO SR 112 PROFILE

520

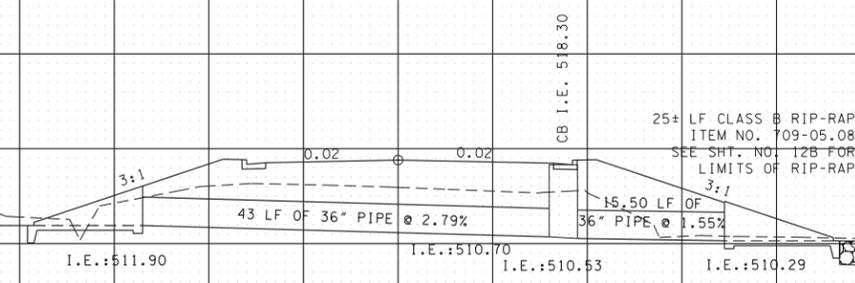
510

500

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

STA. 11+58.17
 57 LF. OF 36" R.C.P.
 SKEW 90°00'00"
 ENDWALLS REOD. : 2 TYPE "U"
 STD. DWG. NOS. D-PB-1, D-PB-2, D-PE-36(A)(B),
 D-CB-12S
 D.A. = 14.31 AC.
 Q50 = 29.14 CFS
 Q100 = 31.46 CFS
 W.S. ELEV. (50) = 513.09
 W.S. ELEV. (100) = 513.14

25± LF CLASS B RIP-RAP
 ITEM NO. 709-05.08
 SEE SHT. NO. 12B FOR
 LIMITS OF RIP-RAP



11+58.17
 FAIRMEADE DRIVE

520

510

500

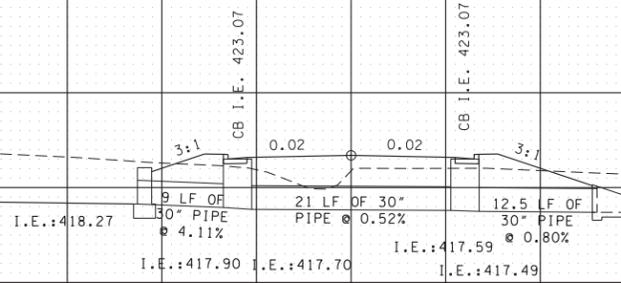
STA. 50+35.00
 43 LF OF 30" PIPE
 SKEW 90°00'00"
 ENDWALLS REOD. : 1 TYPE "U", 1 STRAIGHT
 STD. DWG. NOS. D-PB-1, D-PB-2, D-PE-24(A)(B),
 D-CB-14P, D-PE-4
 D.A. = 5.44 AC.
 Q50 = 23.8 CFS
 Q100 = 25.4 CFS
 W.S. ELEV. (50) = 421.95
 W.S. ELEV. (100) = 422.28

530

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



50+35.00
 W. HAMILTON CUL-DA-SA

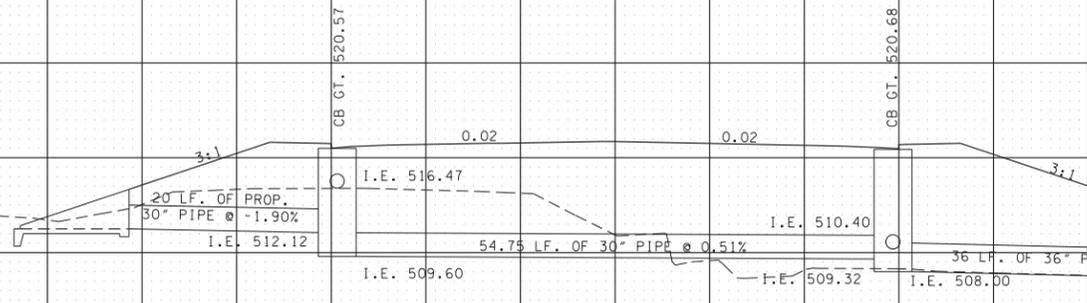
530

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510

STA. 20+44.10
 74.75 LF OF 30" PIPE, 36 LF OF 36" PIPE
 SKEW 79°55'22"
 ENDWALLS REOD. : 2 TYPE "U"
 STD. DWG. NOS. D-PB-1, D-PB-2, D-PE-30(A)(B),
 D-PE-36(A)(B), D-CB-12SB
 D.A. = 5.60 AC.
 Q50 = 38.06 CFS
 Q100 = 40.77 CFS
 W.S. ELEV. (50) = 515.25
 W.S. ELEV. (100) = 515.50

20± LF CLASS B RIP-RAP
 ITEM NO. 709-05.08
 SEE SHT. NO. 5F FOR
 LIMITS OF RIP-RAP



20+44.10
 S.R. 12

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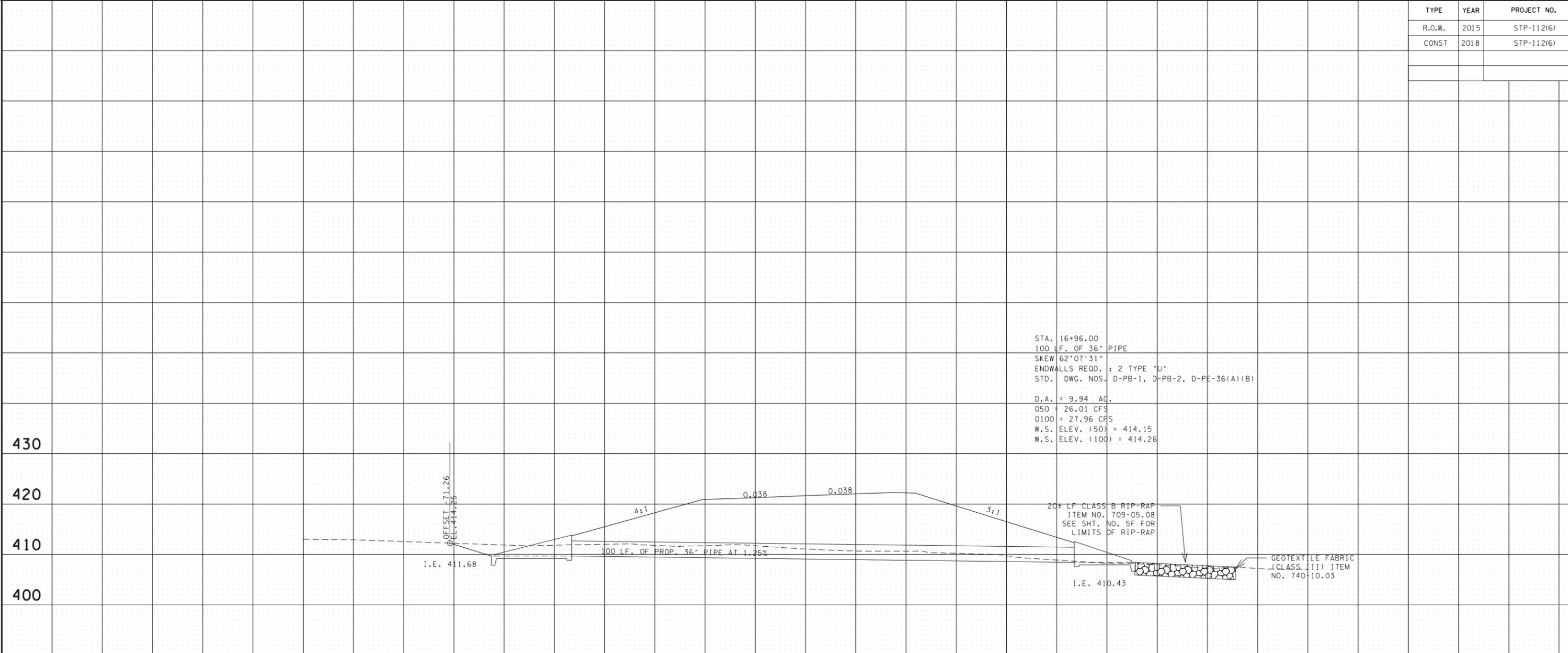
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 DEPARTMENT OF TRANSPORTATION

CULVERT
 CROSS-
 SECTIONS
 SCALE: 1"=20' HORIZ.
 1"=20' VERT.

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	51 A
CONST	2018	STP-112(6)	51 A



STA. 16+96.00
 100 LF. OF 36" PIPE
 SKEW 62°07'31"
 ENDWALLS REOD. : 2 TYPE "U"
 STD. DWG. NOS. D-PB-1, D-PB-2, D-PE-36(A)(B)

 D.A. = 9.94 AC.
 050 = 26.01 CFS
 0100 = 27.96 CFS
 W.S. ELEV. (50) = 414.15
 W.S. ELEV. (100) = 414.26

I.E. 411.68
 OFFSET 71.26
 ELEV. 414.25
 4:1
 0.038
 0.038
 3:1
 100 LF. OF PROP. 36" PIPE AT 1.25%
 20' LF CLASS B RIP-RAP
 ITEM NO. 709-05.08
 SEE SHT. NO. 5F FOR
 LIMITS OF RIP-RAP
 I.E. 410.43
 GEOTEXTILE FABRIC
 (CLASS III) ITEM
 NO. 740-10.03

16+96.00
 W. HAMILTON ROAD

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 DEPARTMENT OF TRANSPORTATION

**CULVERT
 CROSS-
 SECTIONS**
 SCALE: 1"=20' HORIZ.
 1"=20' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	52
CONST.	2018	STP-112(6)	52

EPSC NOTES

STREAMS, WETLANDS & BUFFER ZONES

- (1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., PIER FOOTING, RIP-RAP PLACEMENT, CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS (EC-STR-31) AND TEMPORARY DIVERSION CULVERTS (EC STR-32) FOR SINGLE BARREL CULVERT CONSTRUCTION.
- (2) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL, THE ECOLOGY SECTION SHALL BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE NEWLY CONSTRUCTED STREAM / CHANNEL SHALL BE SUPPLIED WITH THE NOTIFICATION.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	53
CONST.	2018	STP-112(6)	52A

REV. 11-08-18; REVISED EPSC PLANS PER TDOT COMMENTS.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1698
209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	743
209-03.23	FILTER SOCK (24 INCH)	L.F.	25523
209-05	SEDIMENT REMOVAL	C.Y.	1034
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	10897
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	17718
209-08.07	ROCK CHECK DAM PER	EACH	20
209-08.08	ENHANCED ROCK CHECK DAM	EACH	35
209-08.09	FILTER SOCK CHECK DAM	EACH	136
209-09.01	SANDBAGS	BAG	2000
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	92
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	350
209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	6
209-40.31	CATCH BASIN PROTECTION (TYPE B)	EACH	1
209-40.32	CATCH BASIN PROTECTION (TYPE C)	EACH	3
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
209-40.34	CATCH BASIN PROTECTION (TYPE E)	EACH	1
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	2
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	4
209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	1
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	21
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	9
209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	3
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	171
621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	410
621-03.05	36" TEMPORARY DRAINAGE PIPE	L.F.	85
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1308
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	151
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	959
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2844
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2495
801-03	WATER (SEEDING & SCDDING)	M.G.	1674
803-01	SODDING (NEW SOD)	S.Y.	92417

EPSC STAGE 1 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG. SLOPE
1-1	4.70	6.0%
1-2	0.95	7.9%
1-3	0.95	8.1%
1-4	1.31	3.3%
1-5	1.06	6.3%
1-6	3.31	6.9%
1-7	1.10	4.8%
1-8.1	5.30	9.5%
1-8.2	0.28	9.6%
1-8.3	5.30	16.0%
1-9	3.62	10.4%
1-10.1	0.55	9.0%
1-10.2	4.22	8.6%
1-11	2.26	10.8%
1-12	3.61	14.6%
1-13	4.98	10.2%
1-14	1.05	2.5%
1-15	4.36	1.5%
1-16	0.22	9.7%
1-17	4.82	8.1%
1-18	0.69	6.4%

EPSC STAGE 2 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG. SLOPE
2-1	0.05	30.1%
2-2	4.70	6.0%
2-3	1.21	10.0%
2-4	0.95	8.3%
2-5	1.31	9.7%
2-6	0.22	9.7%
2-7	4.82	8.1%
2-8	1.06	19.4%
2-9	3.31	7.8%
2-10	1.10	8.1%
2-11.1	5.30	9.8%
2-11.2	0.28	9.6%
2-11.3	5.30	16.0%
2-12	2.08	9.5%
2-13.1	0.55	9.3%
2-13.2	4.22	8.3%
2-14	2.26	10.1%
2-15	0.52	22.7%
2-16	3.61	13.8%
2-17.1	4.98	10.2%
2-17.2	0.27	3.0%
2-17.3	0.30	3.1%
2-18.1	0.26	2.7%
2-18.2	0.25	2.7%
2-18.3	0.10	1.9%
2-18.4	4.36	1.5%
2-19	2.87	4.8%
2-20	0.69	6.4%
2-21.1	1.25	7.8%
2-21.2	0.70	8.2%
2-21.3	0.55	8.0%
2-22	1.21	6.8%
2-23	5.25	6.5%
2-23.1	0.10	13.3%
2-23.2	0.12	13.2%
2-23.3	0.13	13.5%
2-23.4	0.01	13.4%

EPSC STAGE 3 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG. SLOPE
3-1.1	0.22	3.4%
3-1.2	0.48	5.4%
3-1.3	1.13	2.1%
3-1.4	0.16	1.4%
3-1.5	0.24	6.1%
3-1.6	0.47	2.8%
3-1.7	0.29	2.3%
3-1.8	0.03	7.8%
3-1.9	0.09	7.5%
3-1.10	0.04	5.2%
3-1.11	0.05	6.2%
3-1.12	0.07	5.6%
3-1.13	0.01	5.0%
3-2.1	4.98	10.2%
3-2.2	0.30	3.1%
3-2.3	0.27	3.0%
3-2.4	0.17	2.2%
3-2.5	0.20	0.8%
3-2.6	0.12	1.1%
3-2.7	0.45	0.9%
3-3	0.01	10.8%
3-4.1	0.95	3.8%
3-4.2	2.25	4.9%
3-4.3	0.32	3.8%
3-4.4	0.76	8.4%
3-4.5	4.04	8.2%
3-4.6	1.88	8.8%
3-4.7	2.35	7.5%
3-4.8	1.27	4.7%
3-4.9	4.82	5.2%
3-4.10	1.62	5.4%
3-4.11	1.93	10.8%
3-4.12	1.96	10.8%
3-4.13	1.94	10.6%
3-4.14	1.25	10.4%
3-5.1	3.19	5.4%
3-5.2	1.30	7.1%
3-5.3	1.40	10.7%
3-5.4	0.90	10.9%
3-5.5	1.47	11.8%
3-5.6	1.79	13.8%
3-5.7	1.11	12.6%
3-5.8	11.75	10.4%
3-5.9	0.60	10.2%
3-6	0.42	2.8%
3-7	0.95	8.3%
3-7.1	0.14	1.7%
3-7.2	0.19	0.3%
3-7.3	0.10	1.3%
3-7.4	0.12	0.3%
3-7.5	0.25	0.5%
3-7.6	3.71	1.0%
3-7.7	0.22	1.2%
3-7.8	0.22	2.4%
3-7.9	0.35	2.6%
3-7.10	0.25	2.9%
3-7.11	0.30	2.8%
3-7.12	0.08	3.3%
3-7.13	0.44	3.1%
3-7.14	0.69	3.2%
3-7.15	0.34	5.6%
3-7.16	0.26	8.6%
3-7.17	1.05	9.8%
3-7.18	0.72	7.0%
3-7.19	0.78	5.8%
3-7.20	0.14	1.9%
3-7.21	0.19	0.3%
3-7.22	0.10	1.2%
3-7.23	0.12	0.3%
3-7.24	0.34	0.8%
3-7.25	0.19	0.6%
3-7.26	0.62	2.6%
3-7.27	0.08	5.6%
3-7.28	0.48	4.0%
3-7.29	0.85	2.9%
3-7.30	0.62	3.4%
3-7.31	0.98	2.3%
3-7.32	0.17	2.5%

EPSC STAGE 3 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG. SLOPE
3-7.33	0.38	2.8%
3-7.34	0.19	2.4%
3-7.35	0.67	2.8%
3-7.36	0.19	4.3%
3-7.37	0.29	2.3%
3-7.38	0.40	3.0%
3-7.39	0.20	6.2%
3-7.40	0.23	6.1%
3-7.41	0.35	4.2%
3-8	0.18	11.4%
3-9	0.27	7.0%
3-10.1	4.93	3.0%
3-10.2	0.79	3.5%
3-10.3	0.14	1.6%
3-10.4	9.00	4.8%
3-11	1.52	3.5%
3-12	0.10	2.9%
3-13	0.27	3.4%
3-14	0.33	13.8%
3-15.1	1.49	2.5%
3-15.2	0.41	6.5%
3-15.3	0.25	2.7%
3-15.4	0.10	1.9%
3-15.5	0.33	2.7%
3-15.6	0.08	1.4%
3-15.7	1.14	7.2%
3-15.8	0.09	1.9%
3-15.9	0.05	1.5%
3-15.11	0.16	4.4%
3-15.12	1.25	9.2%
3-15.13	0.62	5.2%
3-15.14	0.26	2.7%
3-15.15	0.08	1.8%
3-15.16	0.18	1.9%
3-15.17	4.36	10.0%
3-16.1	0.16	3.2%
3-16.2	0.12	3.7%
3-16.3	0.64	5.5%
3-16.4	0.08	4.4%
3-16.5	0.31	6.9%
3-16.6	0.14	4.4%
3-16.7	0.17	2.2%
3-16.8	0.15	2.4%
3-16.9	1.00	14.5%
3-16.10	0.88	11.0%
3-16.11	1.04	11.5%
3-16.12	1.09	11.4%
3-17.1	1.12	11.6%
3-17.2	0.24	6.3%
3-17.3	2.08	11.9%
3-17.4	2.18	10.7%
3-17.5	1.66	13.3%
3-17.6	0.63	7.7%
3-17.7	0.08	2.4%
3-17.8	0.13	3.9%
3-17.9	0.29	6.3%
3-17.10	0.42	6.4%
3-17.11	0.51	6.1%
3-17.12	0.87	8.5%
3-17.13	10.44	11.8%
3-18.1	0.04	5.2%
3-18.2	0.11	2.6%
3-18.3	1.81	9.3%
3-18.4	0.41	9.5%
3-18.5	0.26	12.8%
3-19.1	1.03	11.2%
3-19.2	1.15	12.6%
3-19.3	0.64	12.6%
3-19.4	0.37	3.9%
3-20.1	1.25	14.9%
3-20.2	2.63	23.1%
3-20.3	1.02	12.1%
3-21	0.05	24.7%
3-22	0.22	9.7%
3-23.1	1.25	7.8%
3-23.2	0.70	8.2%
3-23.3	0.55	8.0%

NOTE
1. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
2. ROCK CHECK DAM SYMBOLS IN THE EPSC PLANS ARE TO BE ITEM 209-08.09, FILTER SOCK CHECK DAM, ROCK CHECK DAM QUANTITY, ITEM 209-08.07, IS PROVIDED FOR THOSE LOCATIONS WHERE, AS DIRECTED BY THE ENGINEER, ITEM 209-08.09, FILTER SOCK CHECK DAM MAY NOT BE APPROPRIATE.

EROSION CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	SEDIMENT FILTER BAG	EC-STR-2
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

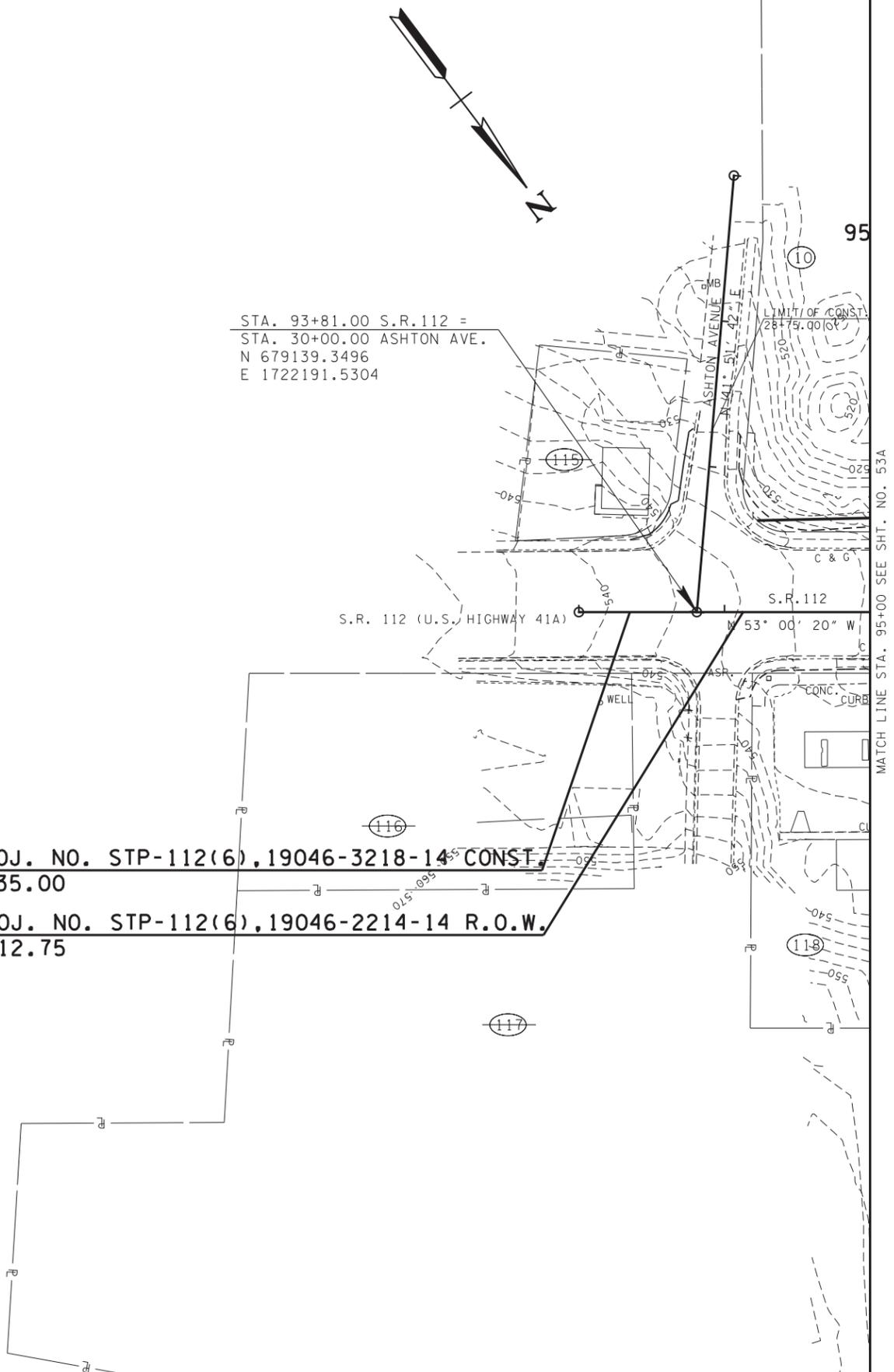
EROSION CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY CULVERT CROSSING (ONE 36" TEMPORARY PIPE)	EC-STR-25
	TEMPORARY DIVERSION CULVERT (ONE 36" TEMPORARY PIPE)	EC-STR-32
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	CATCH BASIN FILTER ASSEMBLY (TYPE AS SPECIFIED)	EC-STR-40 THRU EC-STR-51A

NOTE
1. TEMPORARY CONSTRUCTION EXIT, STD. DWG. EC-STR-25, SHALL BE LOCATED BY THE ENGINEER.
2. TEMPORARY CULVERT CROSSING, STD. DWG. EC-STR-25, AND TEMPORARY DIVERSION CULVERT, STD. DWG. EC-STR-32, ARE TO BE IN USED CONJUNCTION FOR A 36" TEMPORARY PIPE NEAR FAIRMEADE DRIVE.
3. ROCK CHECK DAM SYMBOLS IN THE EPSC PLANS ARE FILTER SOCK CHECK DAM, ROCK CHECK DAM IS ONLY FOR THOSE LOCATIONS WHERE, AS DIRECTED BY THE ENGINEER, FILTER SOCK CHECK DAM MAY NOT BE APPROPRIATE.
4. FILTER SOCK CHECK DAM SPECIFICATIONS CAN BE FOUND INSTD. DWG. EC-STR-8.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	54
CONST.	2018	STP-112(6)	53



GENERAL SEQUENCING NOTES

- STAGE I**
1. INSTALL EPSC MEASURES, PROPOSED PIPES, AND SPECIAL DITCHES AS SHOWN & DESCRIBED IN THE STAGE I PLANS FOR THE PURPOSE OF BY-PASSING OFFSITE STORMWATER FLOWING THROUGH THE PROJECT AREA.
 2. BEGIN CLEARING AND GRUBBING AND INITIAL GRADING AS NECESSARY TO CONSTRUCT SPECIAL DITCHES SHOWN IN THE STAGE I PLANS.
 3. CONTRACTOR SHALL ATTEMPT BY EVERY MEANS POSSIBLE TO INSTALL PIPES AND DITCHES SHOWN IN STAGE I DURING DRY CONDITIONS, UNLESS SPECIFICALLY NOTED THAT THEY MUST BE CONSTRUCTED DURING DRY CONDITIONS.
- STAGE II**
4. INSTALL EPSC MEASURES AND PROPOSED PIPES AS REQUIRED & DESCRIBED IN STAGE II PLANS.
 5. STAGE I EPSC MEASURES SHALL BE MAINTAINED FOR AS LONG AS POSSIBLE IN STAGE II.
 6. BEGIN MASS GRADING OPERATIONS.
- STAGE III**
7. INSTALL EPSC MEASURES AND PROPOSED PIPES AS REQUIRED & DESCRIBED IN STAGE III PLANS.
 8. BEGIN FINAL GRADING. ALL SIDE SLOPES SHALL BE STABILIZED WITH SOD AFTER FINAL GRADES ARE ESTABLISHED UNLESS OTHERWISE DIRECTED.

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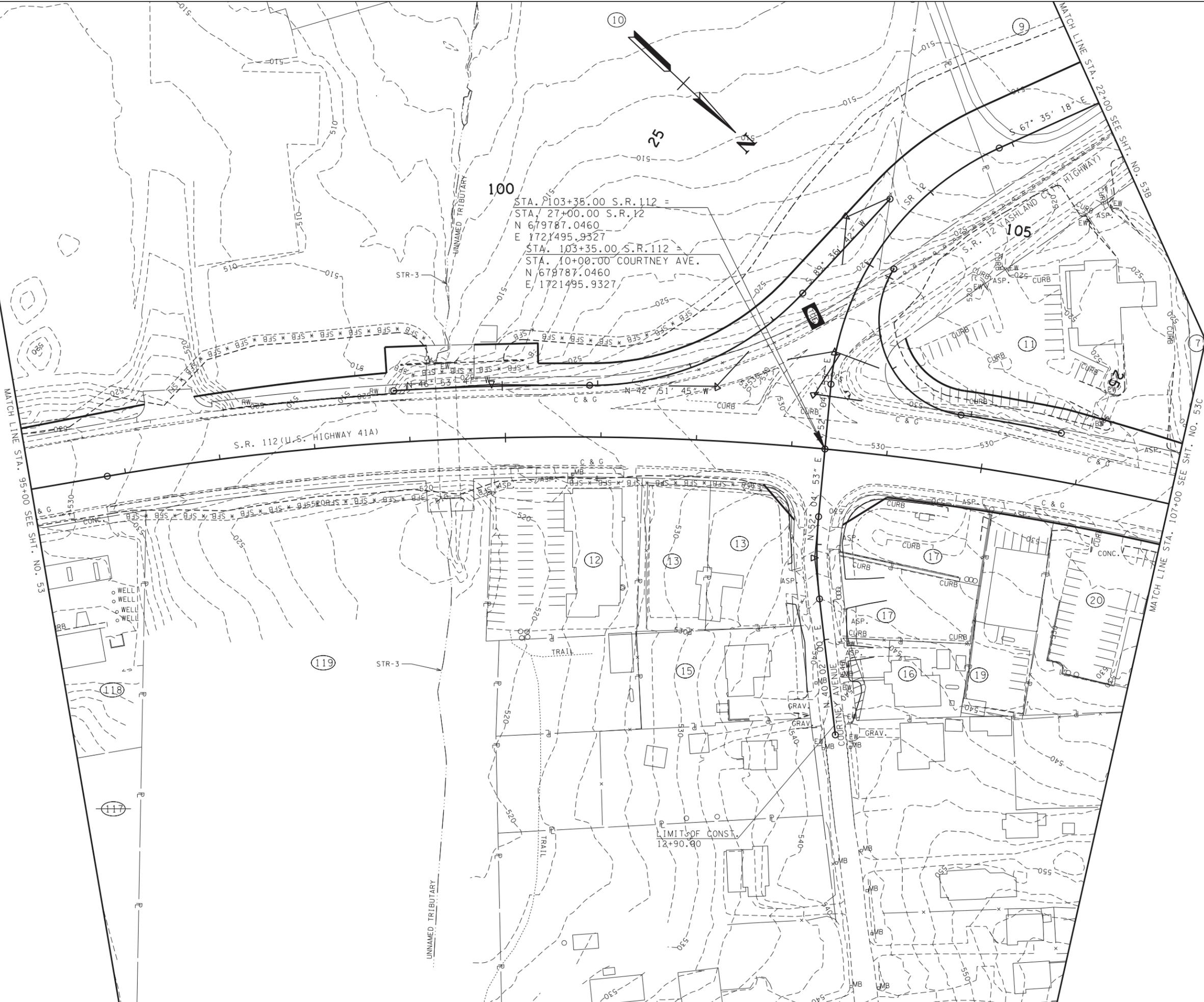
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

**EROSION
 CONTROL PLAN
 STAGE I**

BEG. OF PROJ. TO STA. 95+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	55
CONST.	2018	STP-112(6)	53A

REV. 09-25-17: UPDATED BUILDING LAYOUT PER TDOT ON TRACT NO. 12.
 REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.



STA. 103+35.00 S.R. 112 =
 STA. 27+00.00 S.R. 12
 N 67° 17' 46.00"
 E 1721495.9327
 STA. 103+35.00 S.R. 112 =
 STA. 10+00.00 COURTNEY AVE.
 N 67° 17' 46.00"
 E 1721495.9327

MATCH LINE STA. 95+00 SEE SHIT. NO. 53

MATCH LINE STA. 107+00 SEE SHIT. NO. 53C

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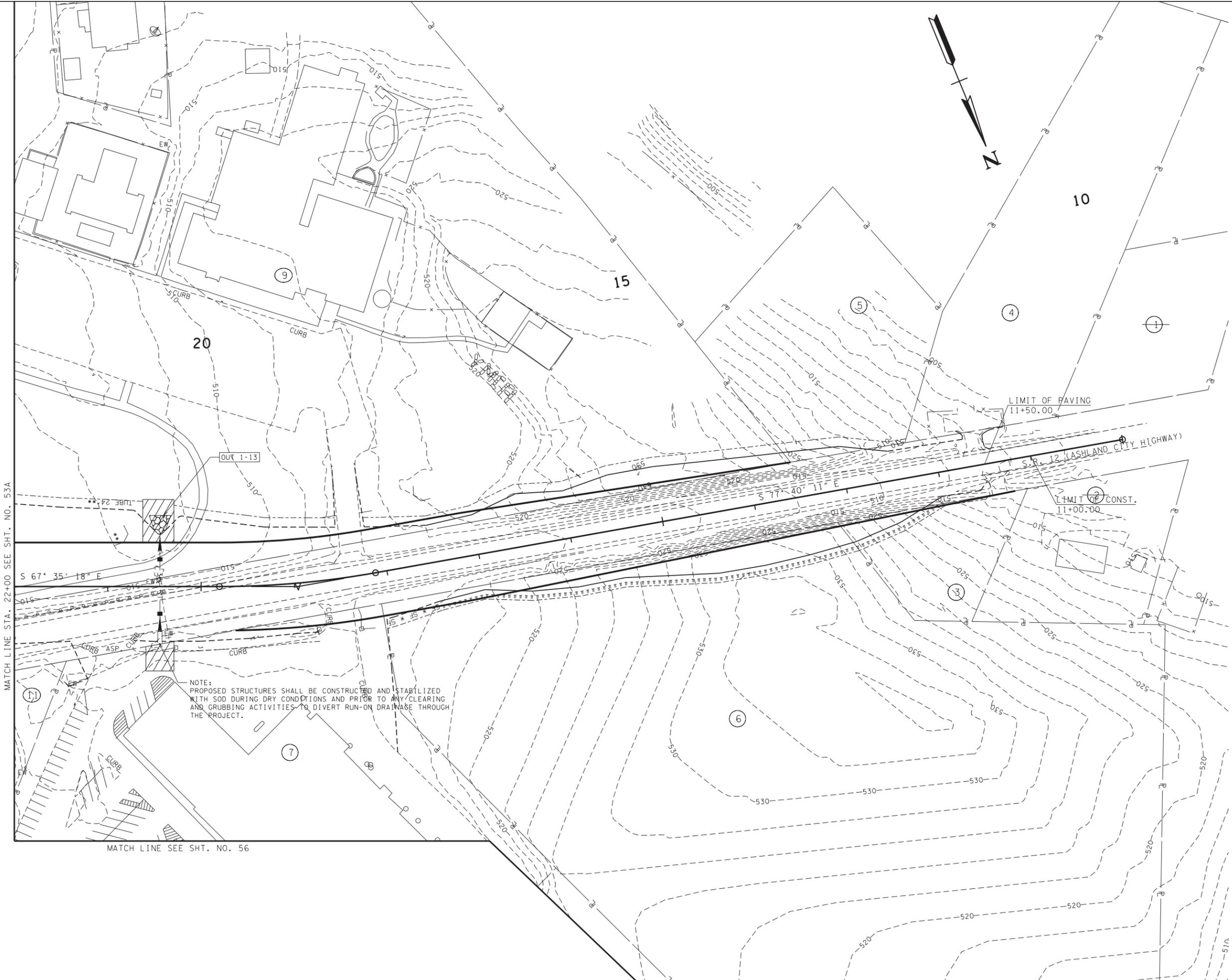
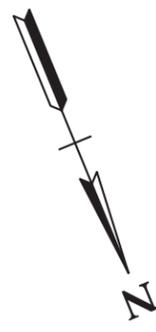
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN
STAGE I**

STA. 95+00 TO STA. 107+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	55A
CONST.	2018	STP-112(6)	53B



MATCH LINE STA. 22+00 SEE SHT. NO. 53A

MATCH LINE SEE SHT. NO. 56

NOTE:
PROPOSED STRUCTURES SHALL BE CONSTRUCTED AND STABILIZED WITH SOD DURING DRY CONDITIONS AND PRIOR TO ANY CLEARING AND GRUBBING ACTIVITIES TO DIVERT RUN-ON DRAINAGE THROUGH THE PROJECT.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

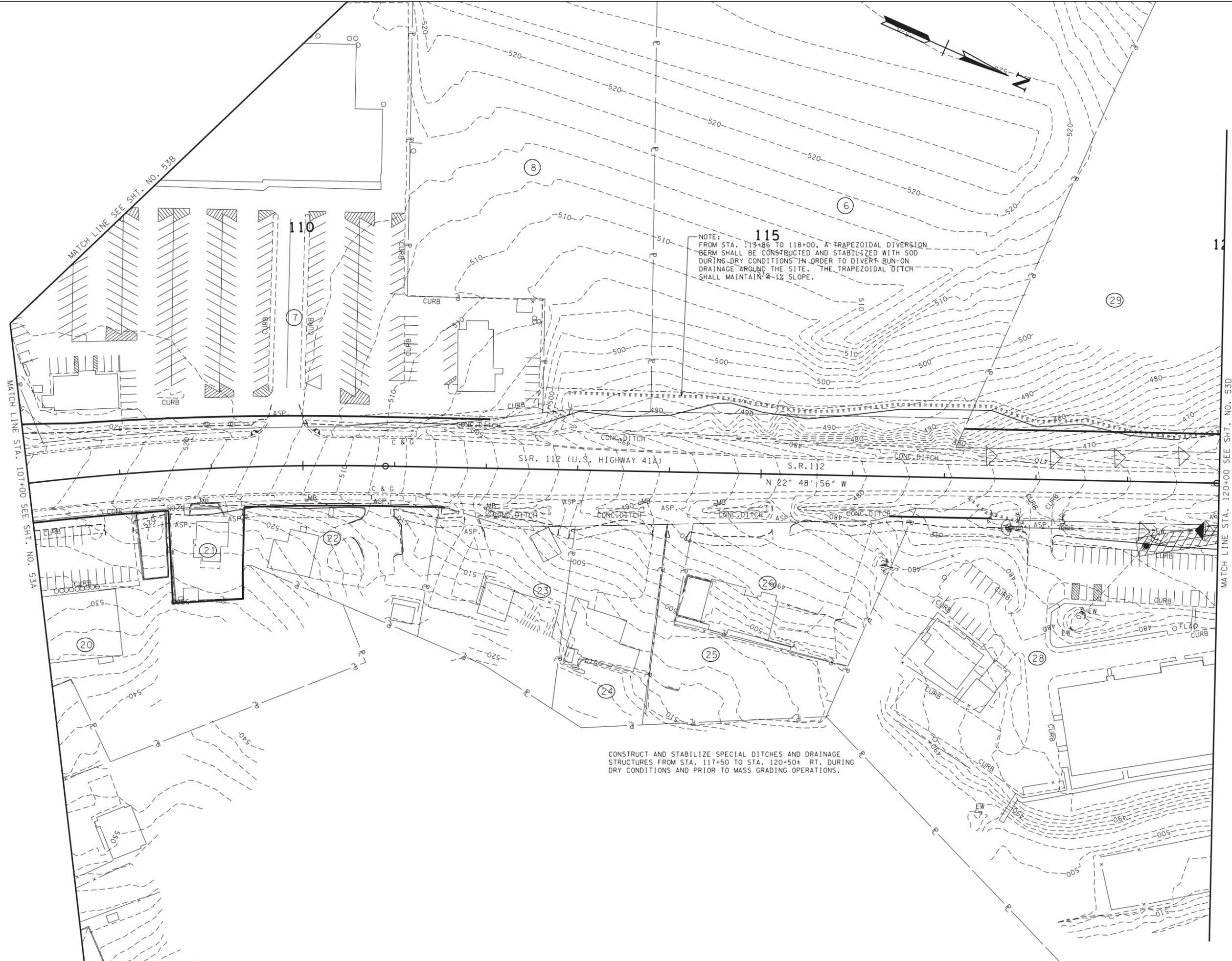
EROSION CONTROL PLAN
STAGE I

STA. 11+50 TO STA. 22+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	56
CONST.	2018	STP-112(6)	53C

REV. 03-21-17: REMOVED WWC-3/EPH STR-3 LEFT OF CENTERLINE & WWC-2/EPH STR-2 RIGHT OF CENTERLINE PER ENVIRONMENTAL BOUNDARIES UPDATE.



NOTE:
115
 FROM STA. 113+86 TO 118+00, A TRAPEZOIDAL DIVERSION BERM SHALL BE CONSTRUCTED AND STABILIZED WITH SOD DURING DRY CONDITIONS IN ORDER TO DIVERT RUN-ON DRAINAGE AROUND THE SITE. THE TRAPEZOIDAL DITCH SHALL MAINTAIN A 1% SLOPE.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 117+50 TO STA. 120+50+ RT. DURING DRY CONDITIONS AND PRIOR TO MASS GRADING OPERATIONS.

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STATE OF TENNESSEE
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EROSION CONTROL PLAN
STAGE I

STA. 107+00 TO STA. 120+00
 SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	57
CONST.	2018	STP-112(6)	53D

REV. 03-21-17: REMOVED WWC-3/EPH STR-3 LEFT OF CENTERLINE, WWC-2/EPH STR-2 RIGHT OF CENTERLINE & WWC-1/EPH STR-1 RIGHT OF CENTERLINE PER ENVIRONMENTAL BOUNDARIES UPDATE.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 120+50+ TO STA. 124+10+ LT. PRIOR TO MASS GRADING OPERATIONS.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 117+50 TO STA. 120+50+ RT. DURING DRY CONDITIONS AND PRIOR TO MASS GRADING OPERATIONS.

STA. 124+86.00 S.R. 112 =
 STA. 12+00.00 ABERNATHY ROAD
 N 681741.3469
 E 1720628.3357

- NOTES:
1. CLEARING AND GRUBBING SHALL ONLY TAKE PLACE IN THE AREA ENCLOSED BY DIVERSION BERMS FOR STAGE 1 OF THE EROSION CONTROL PLANS.
 2. CONSTRUCT AND STABILIZE TRAPEZOIDAL DIVERSION BERM FROM APPROXIMATELY STA. 129+40 TO STA. 131+80 RT DURING DRY CONDITIONS.
 3. CONSTRUCT PROPOSED STORM STRUCTURES FROM APPROXIMATELY STA. 123+75 TO STA. 129+25 RT.

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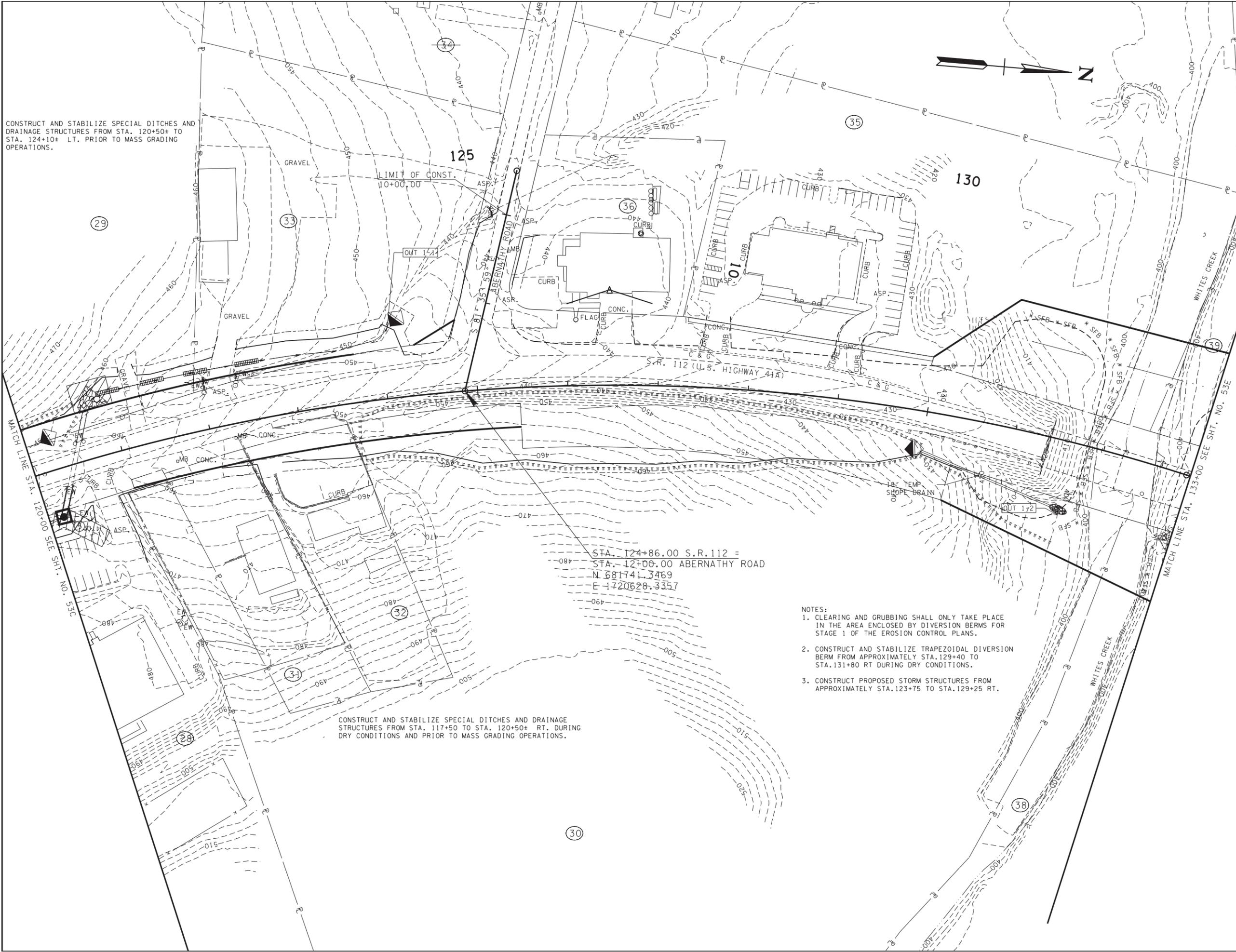
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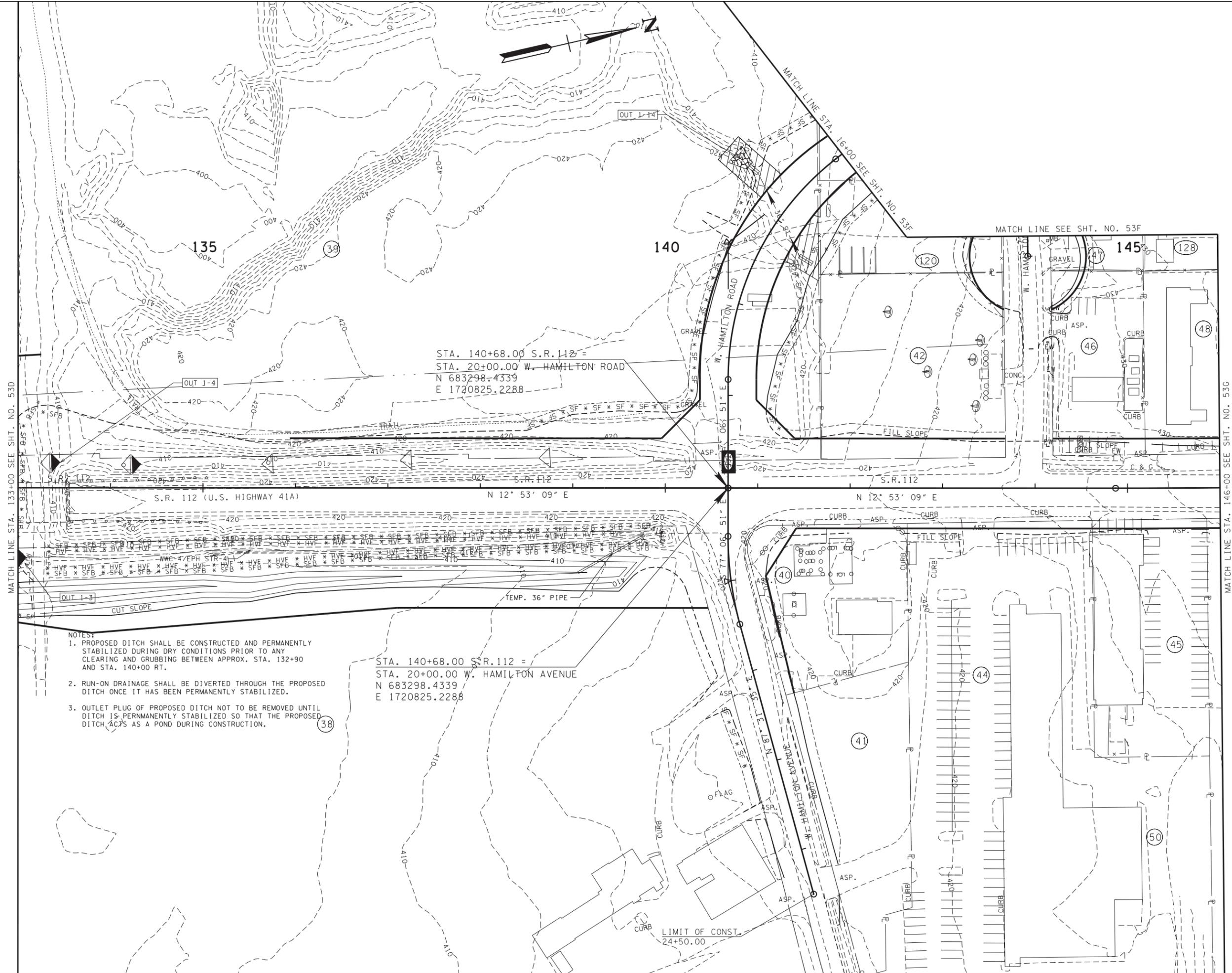
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EROSION CONTROL PLAN
STAGE I

STA. 120+00 TO STA. 133+00
 SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	58
CONST.	2018	STP-112(6)	53E



STA. 140+68.00 S.R. 112 =
 STA. 20+00.00 W. HAMILTON ROAD
 N 683298.4339
 E 1720825.2288

STA. 140+68.00 S.R. 112 =
 STA. 20+00.00 W. HAMILTON AVENUE
 N 683298.4339
 E 1720825.2288

- NOTES:
1. PROPOSED DITCH SHALL BE CONSTRUCTED AND PERMANENTLY STABILIZED DURING DRY CONDITIONS PRIOR TO ANY CLEARING AND GRUBBING BETWEEN APPROX. STA. 132+90 AND STA. 140+00 RT.
 2. RUN-ON DRAINAGE SHALL BE DIVERTED THROUGH THE PROPOSED DITCH ONCE IT HAS BEEN PERMANENTLY STABILIZED.
 3. OUTLET PLUG OF PROPOSED DITCH NOT TO BE REMOVED UNTIL DITCH IS PERMANENTLY STABILIZED SO THAT THE PROPOSED DITCH ACTS AS A POND DURING CONSTRUCTION.

LIMIT OF CONST.
 24+50.00

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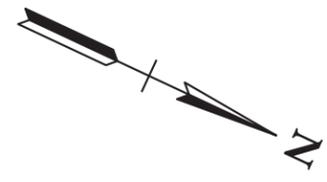
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**EROSION
 CONTROL PLAN
 STAGE I**

STA. 133+00 TO STA. 146+00
 SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	58A
CONST.	2018	STP-112(6)	53F

REV. 5-31-16: REMOVED CONSTRUCTION EASEMENT AND STRUCK LINE THROUGH TRACT NO. 124.



MATCH LINE STA. 16+00 SEE SHT. NO. 53E

MATCH LINE SEE SHT. NO. 53E

MATCH LINE SEE SHT. NO. 53G

MATCH LINE SEE SHT. NO. 53G

LIMIT OF CONST.
11+70.00

LIMIT OF CONST.
11+71.00

STA. 14+04.00 W. HAMILTON ROAD
STA. 10+00.00 MEADOW ROAD
N 683668.7855
E 1720405.7239

STA. 10+91.02 MEADOW ROAD =
STA. 150+00.00 W. HAMILTON CT.
N 683735.7996
E 1720466.7664

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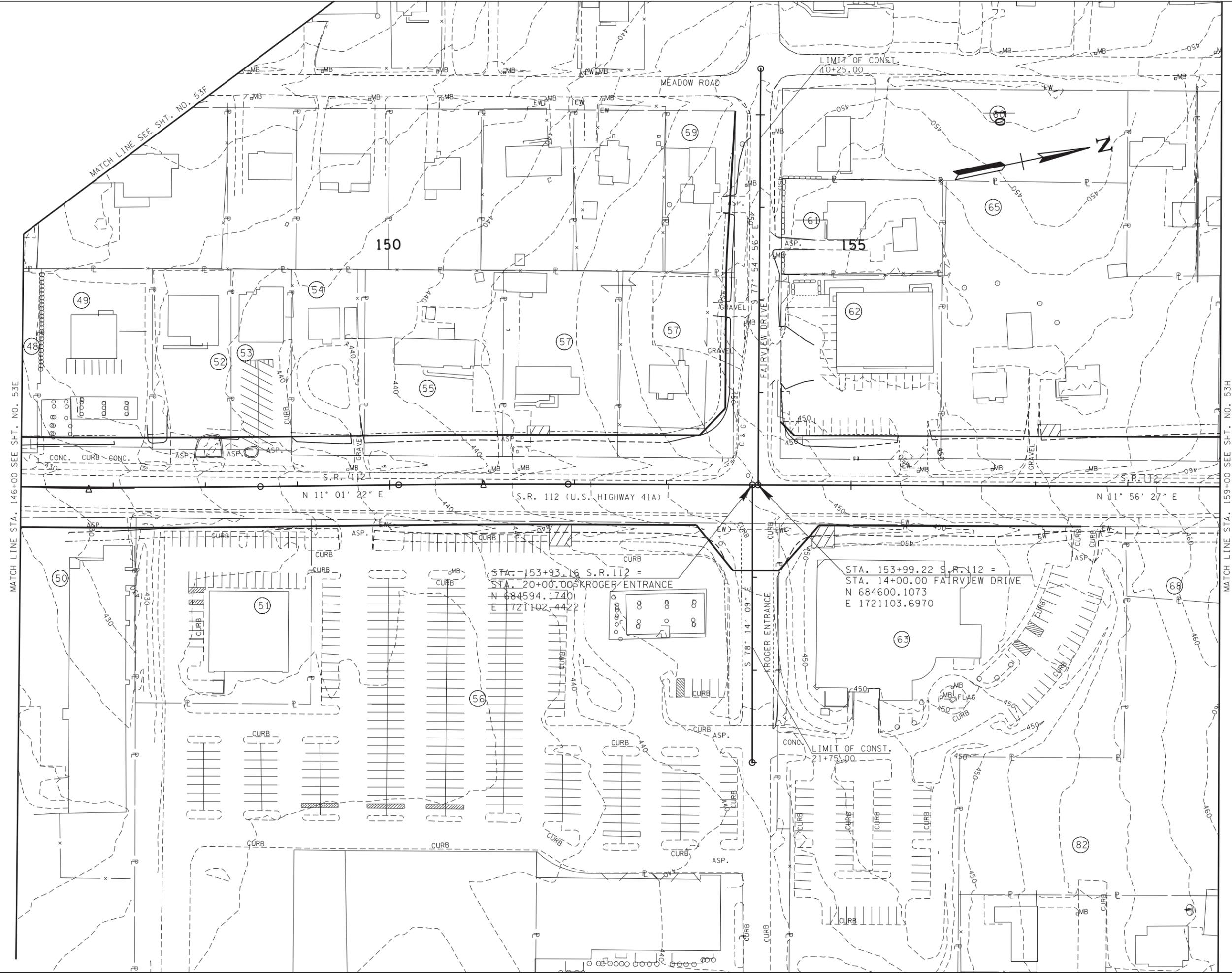
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EROSION CONTROL PLAN
STAGE I

STA. 11+50 TO STA. 16+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	59
CONST.	2018	STP-112(6)	53G

REV. 03-21-17; REMOVED A SECTION OF WWC-4/EPH STR-4 RIGHT OF CENTERLINE AS PER THE ENVIRONMENTAL BOUNDARIES UPDATE.
 REV. 09-25-17; REVISED CONST. EASEMENT ON TRACT NO. 53.



MATCH LINE STA. 146+00 SEE SHT. NO. 53E

MATCH LINE STA. 159+00 SEE SHT. NO. 53H

STA. 153+93.16 S.R. 112 =
 STA. 20+00.00 KROGER ENTRANCE
 N 684594.1740
 E 1721102.4422

STA. 153+99.22 S.R. 112 =
 STA. 14+00.00 FAIRVIEW DRIVE
 N 684600.1073
 E 1721103.6970

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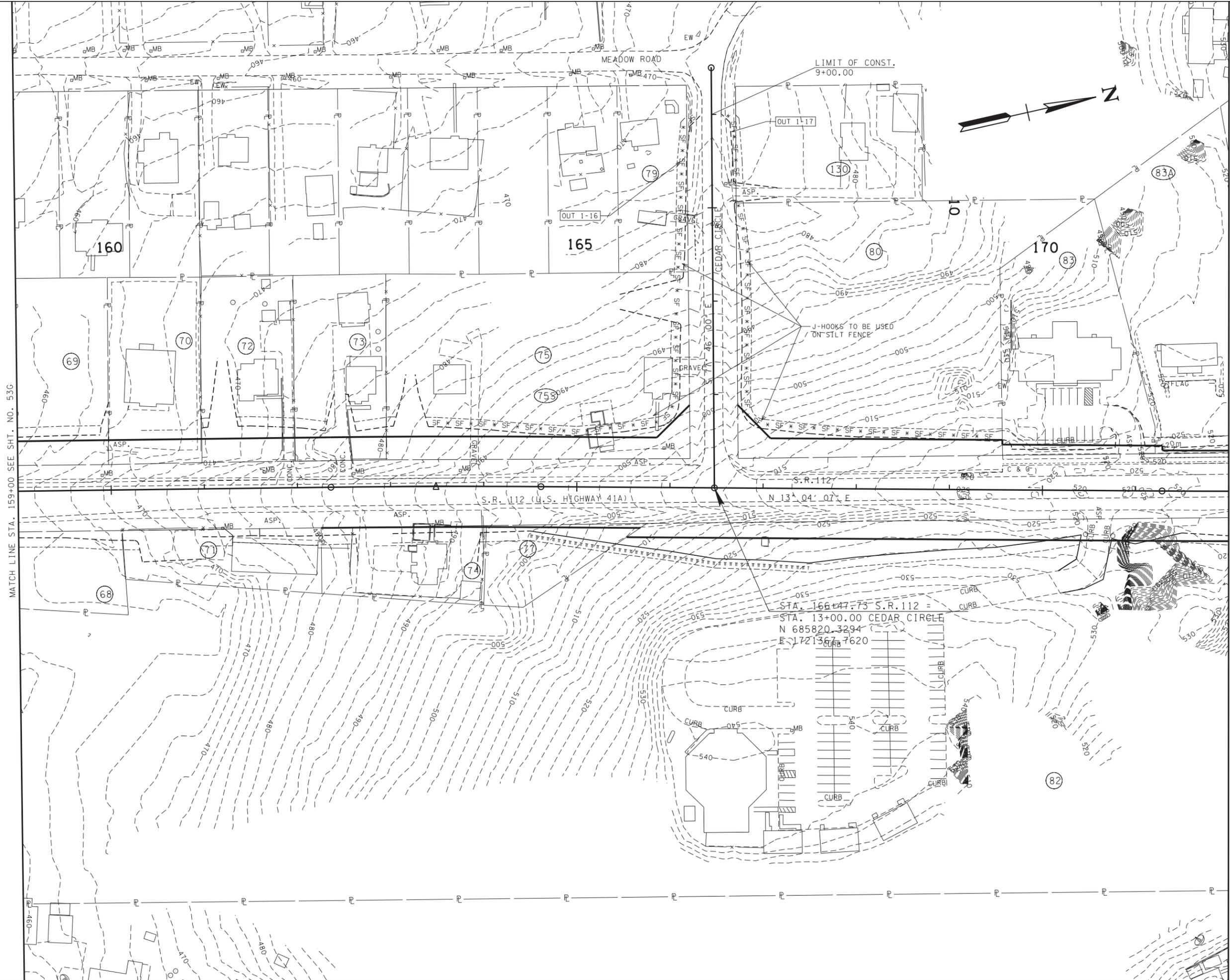
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EROSION CONTROL PLAN
STAGE I

STA. 146+00 TO STA. 159+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	60
CONST.	2018	STP-112(6)	53H



MATCH LINE STA. 159+00 SEE SHT. NO. 53G

MATCH LINE STA. 172+00 SEE SHT. NO. 53J

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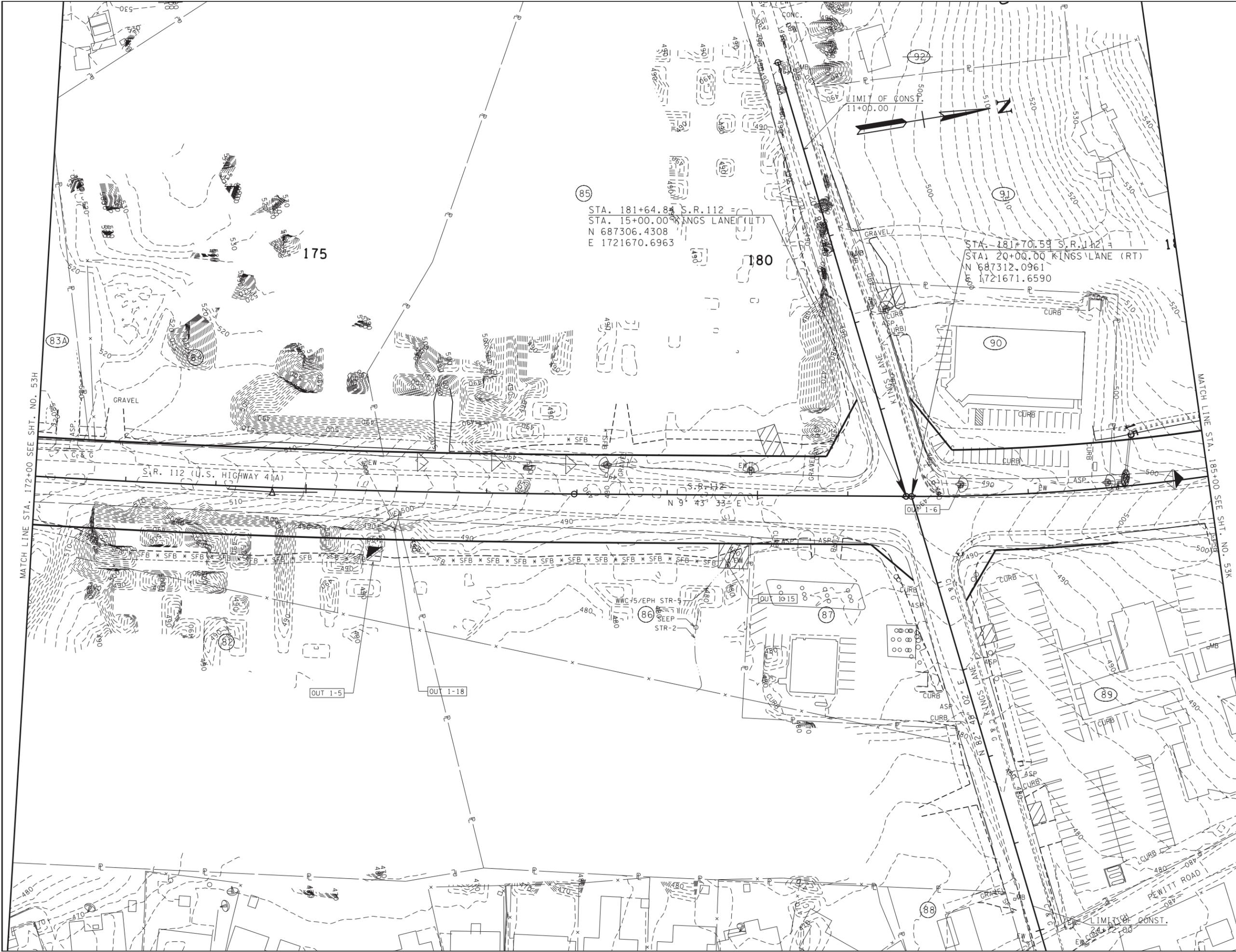
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**EROSION
CONTROL PLAN
STAGE I**

STA. 159+00 TO STA. 172+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	61
CONST.	2018	STP-112(6)	53J

REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.



85
 STA. 181+64.84 S.R. 112 =
 STA. 15+00.00 KINGS LANE (LT)
 N 687306.4308
 E 1721670.6963

91
 STA. 181+70.59 S.R. 112 =
 STA. 20+00.00 KINGS LANE (RT)
 N 687312.0961
 E 1721671.6590

MATCH LINE STA. 172+00 SEE SHT. NO. 53H

MATCH LINE STA. 185+00 SEE SHT. NO. 53K

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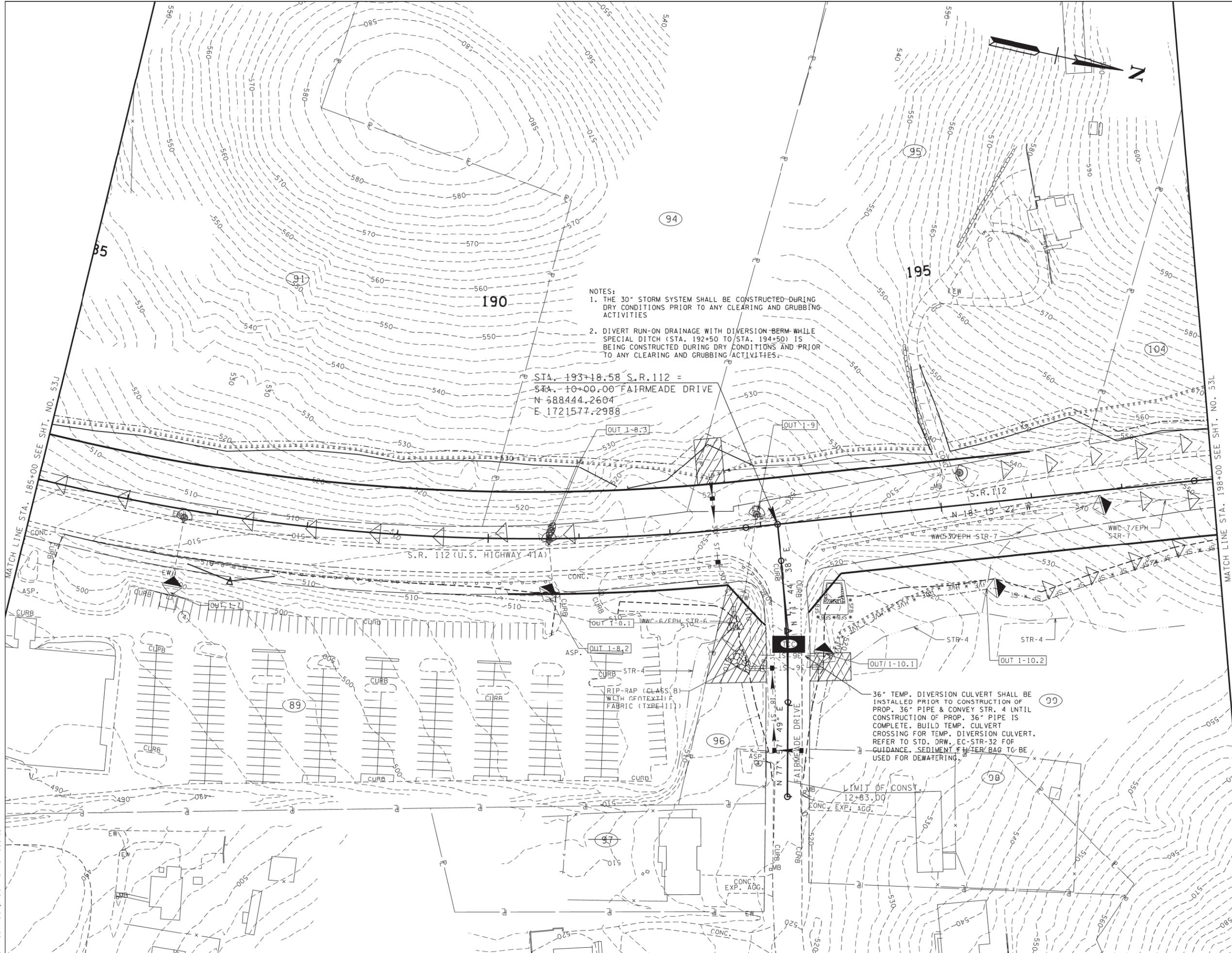
**EROSION
 CONTROL PLAN
 STAGE I**

STA. 172+00 TO STA. 185+00
 SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	62
CONST.	2018	STP-112(6)	53K

REV. 11-08-18: REVISED EPSC PLANS PER DOT COMMENTS.



- NOTES:
1. THE 30" STORM SYSTEM SHALL BE CONSTRUCTED DURING DRY CONDITIONS PRIOR TO ANY CLEARING AND GRUBBING ACTIVITIES
 2. DIVERT RUN-ON DRAINAGE WITH DIVERSION BERM WHILE SPECIAL DITCH (STA. 192+50 TO STA. 194+50) IS BEING CONSTRUCTED DURING DRY CONDITIONS AND PRIOR TO ANY CLEARING AND GRUBBING ACTIVITIES.

STA. 193+18.58 S.R. 112 =
 STA. 10+00.00 FAIRMEADE DRIVE
 N 588444.2604
 E 1721577.2988

36" TEMP. DIVERSION CULVERT SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF PROP. 36" PIPE & CONVEY STR. 4 UNTIL CONSTRUCTION OF PROP. 36" PIPE IS COMPLETE. BUILD TEMP. CULVERT CROSSING FOR TEMP. DIVERSION CULVERT. REFER TO STD. DRW. EC-STR-32 FOR GUIDANCE. SEDIMENT FILTER BAG TO BE USED FOR DEWATERING.

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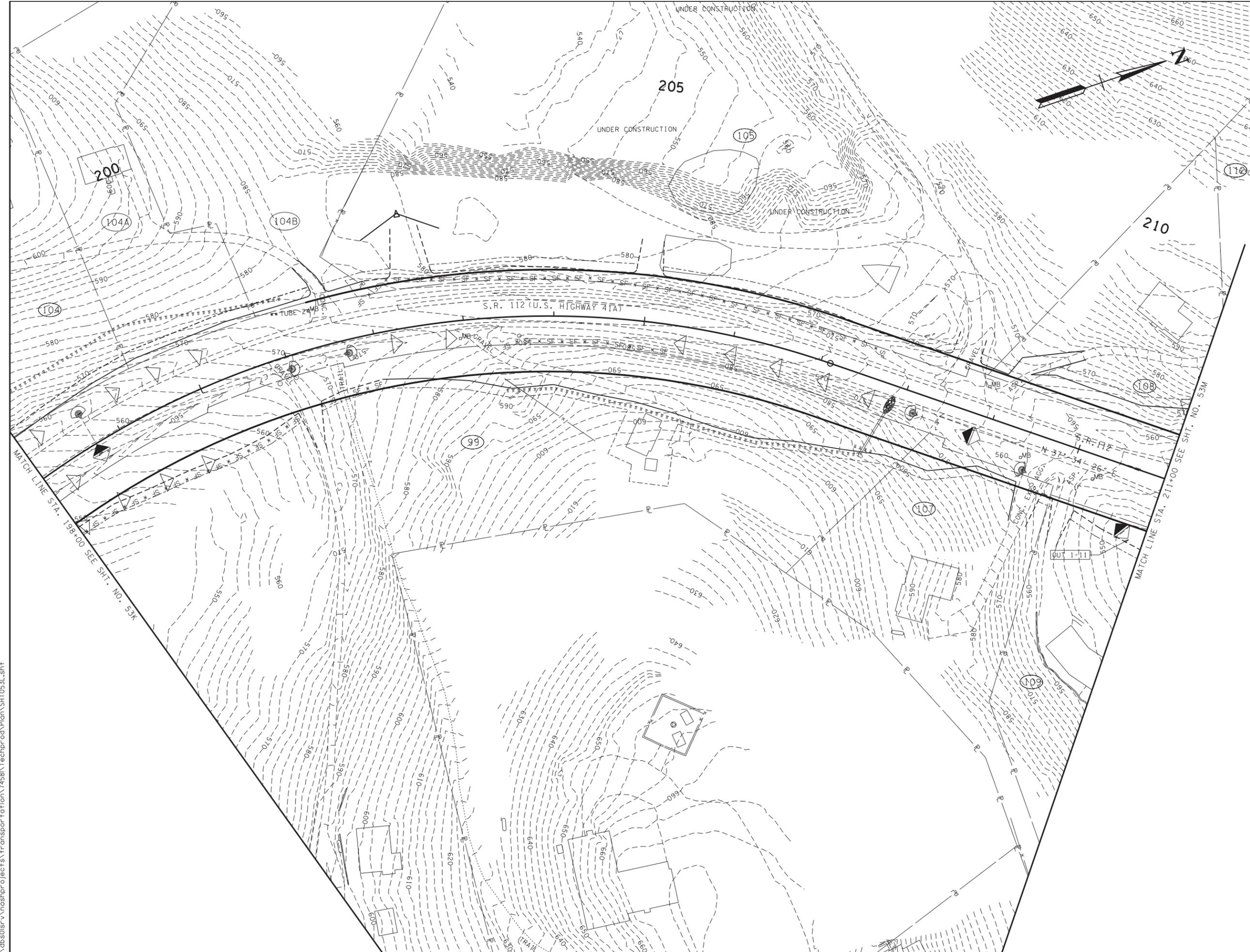
**EROSION CONTROL PLAN
 STAGE I**

STA. 185+00 TO STA. 198+00
 SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	63
CONST.	2018	STP-112(6)	53L

REV. 10-17-17: REVISED
CONSTRUCTION EASEMENT FOR TRACT
NO. 99.



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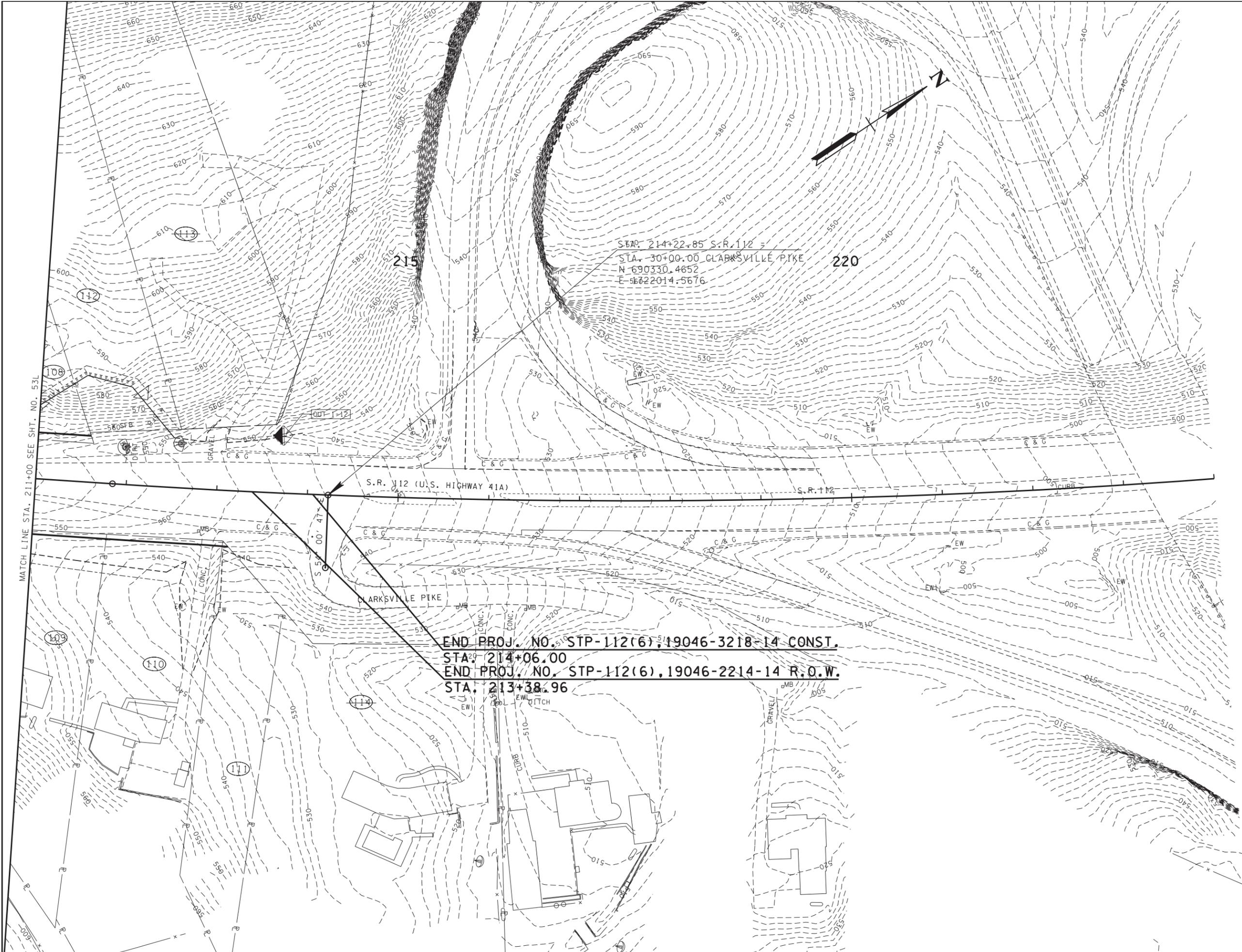
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**EROSION
CONTROL PLAN
STAGE I**

STA. 198+00 TO STA. 211+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	64
CONST.	2018	STP-112(6)	53M



STA. 214+22.85 S.R. 112 =
 STA. 30+00.00 CLARKSVILLE PIKE
 N 690330.4652
 E 56722014.5676

END PROJ. NO. STP-112(6), 19046-3218-14 CONST.
STA. 214+06.00
END PROJ. NO. STP-112(6), 19046-2214-14 R.O.W.
STA. 213+38.96

MATCH LINE STA. 211+00 SEE SHT. NO. 53L

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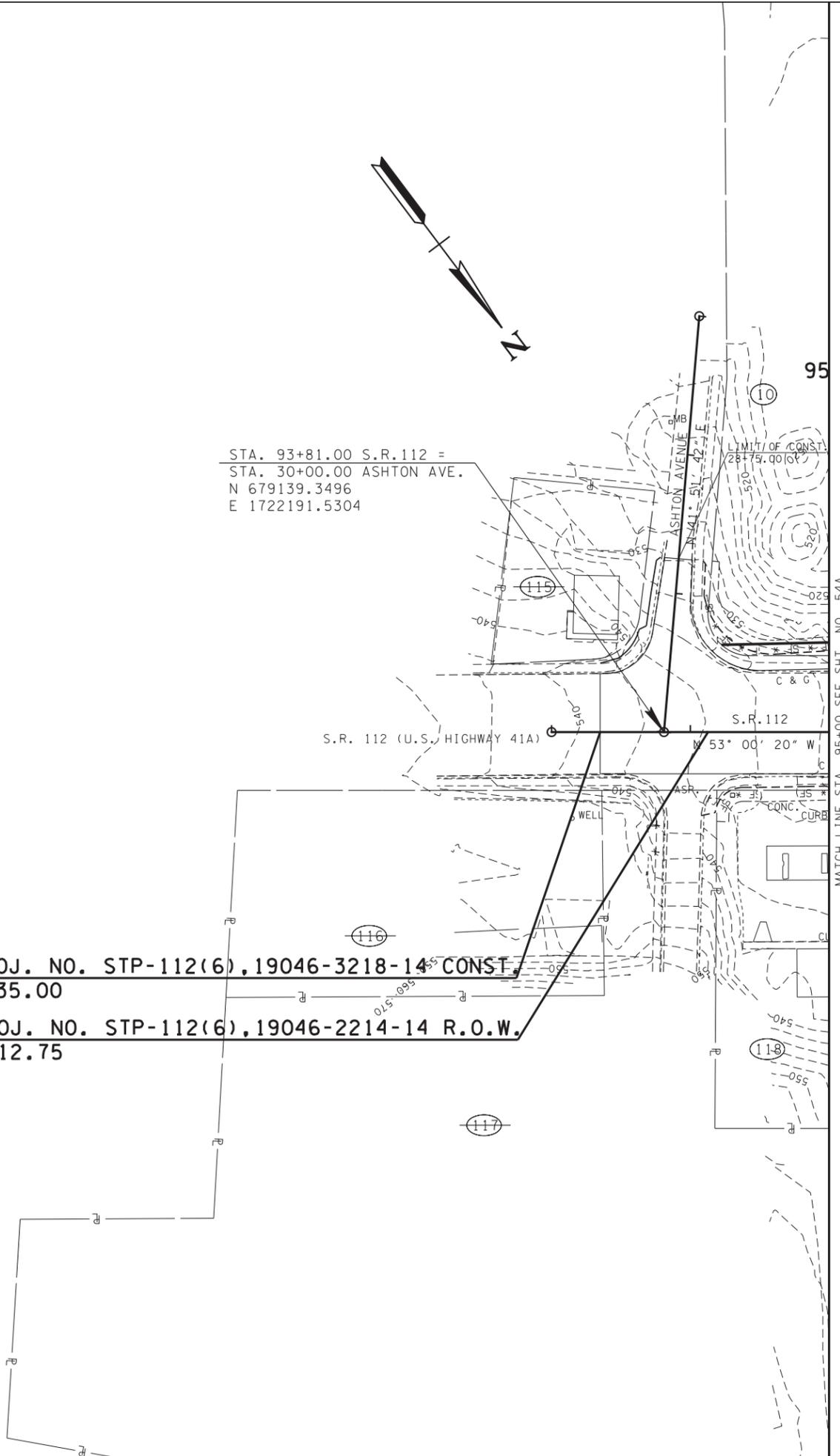
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**EROSION
CONTROL PLAN
STAGE I**

STA. 211+00 TO END OF PROJ.
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	65
CONST.	2018	STP-112(6)	54



STA. 93+81.00 S.R.112 =
 STA. 30+00.00 ASHTON AVE.
 N 679139.3496
 E 1722191.5304

BEGIN PROJ. NO. STP-112(6), 19046-3218-14 CONST.
STA. 93+35.00

BEGIN PROJ. NO. STP-112(6), 19046-2214-14 R.O.W.
STA. 94+12.75

GENERAL SEQUENCING NOTES

- STAGE I**
1. INSTALL EPSC MEASURES, PROPOSED PIPES, AND SPECIAL DITCHES AS SHOWN & DESCRIBED IN THE STAGE I PLANS FOR THE PURPOSE OF BY-PASSING OFFSITE STORMWATER FLOWING THROUGH THE PROJECT AREA.
 2. BEGIN CLEARING AND GRUBBING AND INITIAL GRADING AS NECESSARY TO CONSTRUCT SPECIAL DITCHES SHOWN IN THE STAGE I PLANS.
 3. CONTRACTOR SHALL ATTEMPT BY EVERY MEANS POSSIBLE TO INSTALL PIPES AND DITCHES SHOWN IN STAGE I DURING DRY CONDITIONS, UNLESS SPECIFICALLY NOTED THAT THEY MUST BE CONSTRUCTED DURING DRY CONDITIONS.
- STAGE II**
4. INSTALL EPSC MEASURES AND PROPOSED PIPES AS REQUIRED & DESCRIBED IN STAGE II PLANS.
 5. STAGE I EPSC MEASURES SHALL BE MAINTAINED FOR AS LONG AS POSSIBLE IN STAGE II.
 6. BEGIN MASS GRADING OPERATIONS.
- STAGE III**
7. INSTALL EPSC MEASURES AND PROPOSED PIPES AS REQUIRED & DESCRIBED IN STAGE III PLANS.
 8. BEGIN FINAL GRADING. ALL SIDE SLOPES SHALL BE STABILIZED WITH SOD AFTER FINAL GRADES ARE ESTABLISHED UNLESS OTHERWISE DIRECTED.

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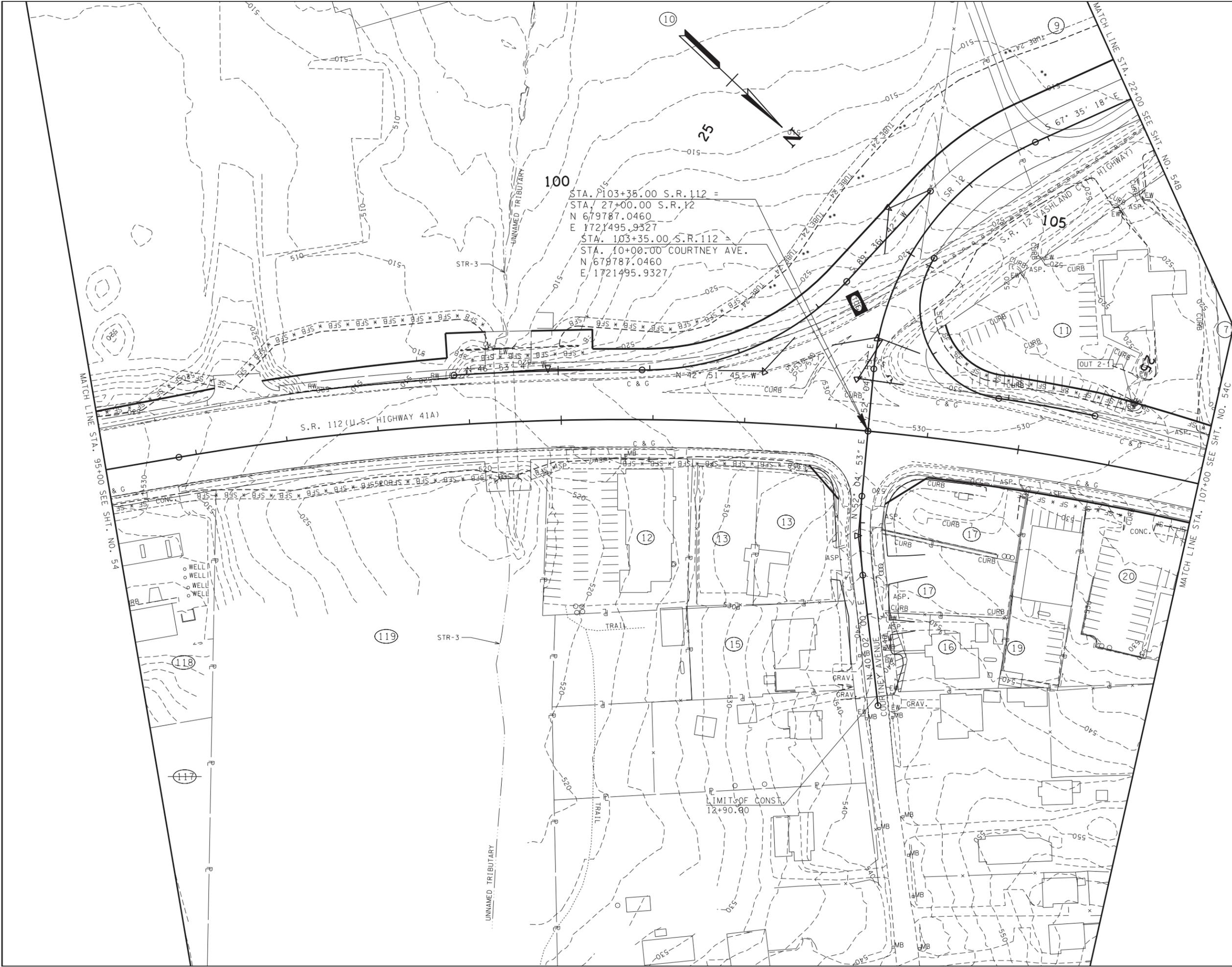
**EROSION
 CONTROL PLAN
 STAGE II**

BEG. OF PROJ. TO STA. 95+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	66
CONST.	2018	STP-112(6)	54A

REV. 09-25-17: UPDATED BUILDING LAYOUT PER TDOT ON TRACT NO. 12.

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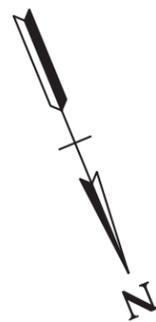
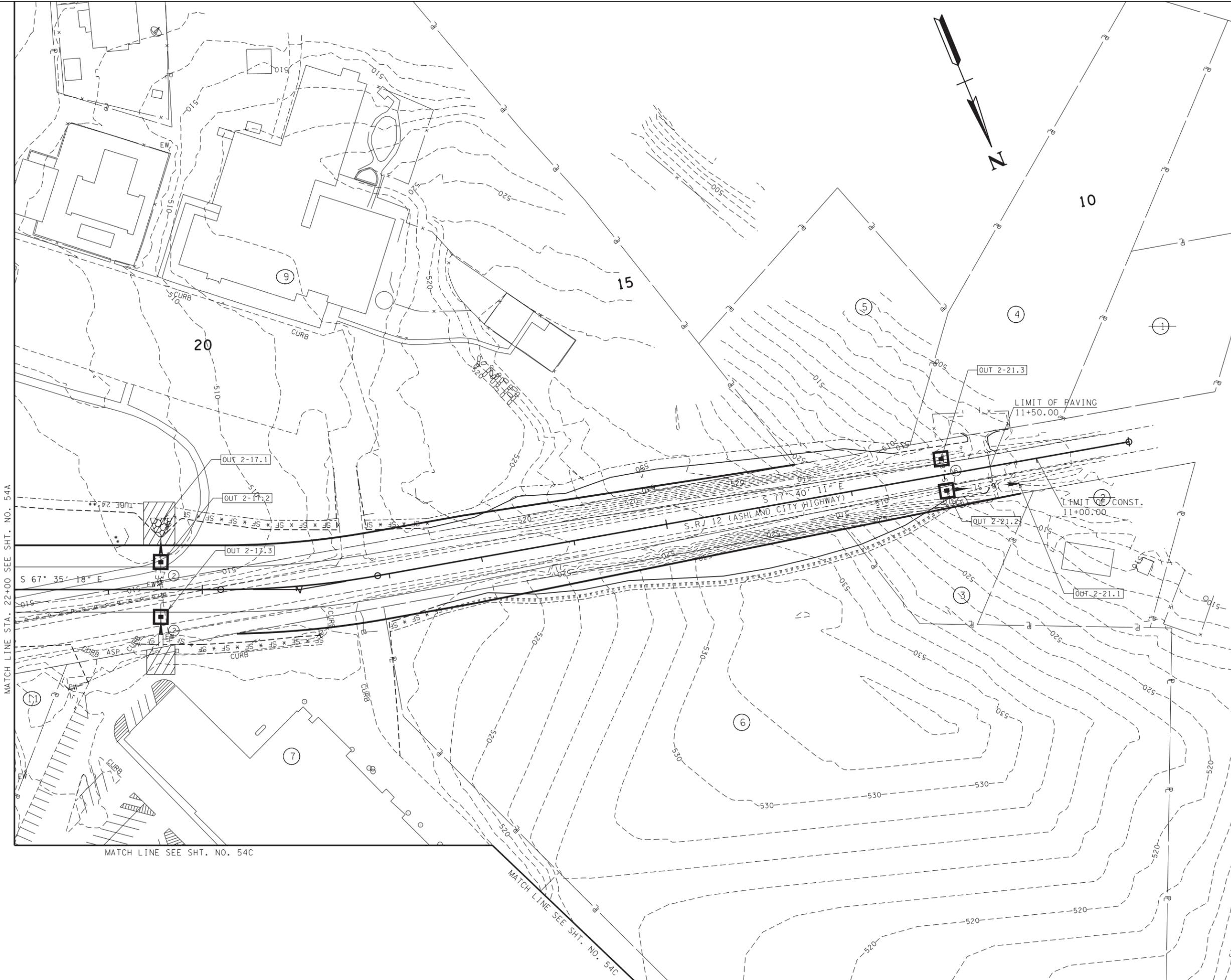
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EROSION CONTROL PLAN
STAGE II

STA. 95+00 TO STA. 107+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	66A
CONST.	2018	STP-112(6)	54B



MATCH LINE STA. 22+00 SEE SHT. NO. 54A

MATCH LINE SEE SHT. NO. 54C

MATCH LINE SEE SHT. NO. 54C

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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

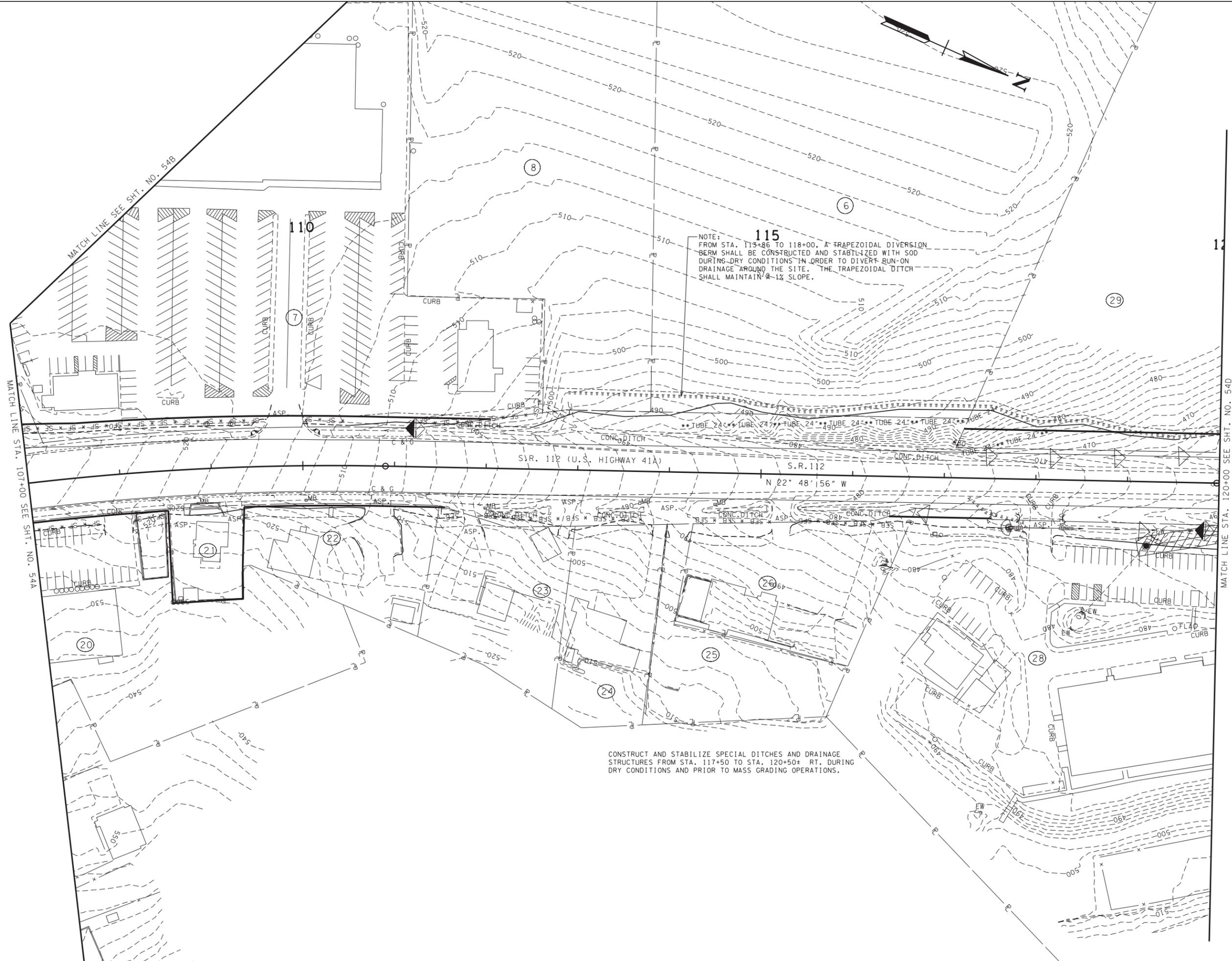
**EROSION
 CONTROL PLAN
 STAGE II**

STA. 11+50 TO STA. 22+00
 SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	67
CONST.	2018	STP-112(6)	54C

REV. 03-21-17: REMOVED WWC-3/EPH STR-3 LEFT OF CENTERLINE & WWC-2/EPH STR-2 RIGHT OF CENTERLINE PER ENVIRONMENTAL BOUNDARIES UPDATE.



NOTE: 115
 FROM STA. 113+86 TO 118+00, A TRAPEZOIDAL DIVERSION BERM SHALL BE CONSTRUCTED AND STABILIZED WITH SOD DURING DRY CONDITIONS IN ORDER TO DIVERT RUN-ON DRAINAGE AROUND THE SITE. THE TRAPEZOIDAL DITCH SHALL MAINTAIN A 1% SLOPE.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 117+50 TO STA. 120+50+ RT. DURING DRY CONDITIONS AND PRIOR TO MASS GRADING OPERATIONS.

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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STAGE II

STA. 107+00 TO STA. 120+00
 SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	68
CONST.	2018	STP-112(6)	54D

REV. 03-21-17: REMOVED WWC-3/EPH STR-3 LEFT OF CENTERLINE, WWC-2/EPH STR-2 RIGHT OF CENTERLINE & WWC-1/EPH STR-1 RIGHT OF CENTERLINE PER ENVIRONMENTAL BOUNDARIES UPDATE.
 REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 120+50+ TO STA. 124+10+ LT. DURING DRY CONDITIONS AND PRIOR TO MASS GRADING OPERATIONS.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 117+50 TO STA. 120+50+ RT. DURING DRY CONDITIONS AND PRIOR TO MASS GRADING OPERATIONS.

STA. 124+86.00 S.R.112 =
 STA. 12+00.00 ABERNATHY ROAD
 N 681741.3469
 E 1720628.3357

- NOTES:
1. MASS GRADING SHALL ONLY TAKE PLACE IN THE AREA ENCLOSED BY DIVERSION BERMS FOR STAGE 2 OF THE EROSION CONTROL PLANS.
 2. RUN-ON DRAINAGE SHALL BE DIVERTED WITH BERMS AND THROUGH THE PROPOSED STRUCTURES THAT WERE INSTALLED DURING STAGE 1 OF THE EROSION CONTROL PLANS.
 3. CONSTRUCT AND STABILIZE TRAPEZOIDAL DIVERSION BERM FROM APPROXIMATELY STA. 129+40 TO STA. 131+80 RT DURING DRY CONDITIONS.



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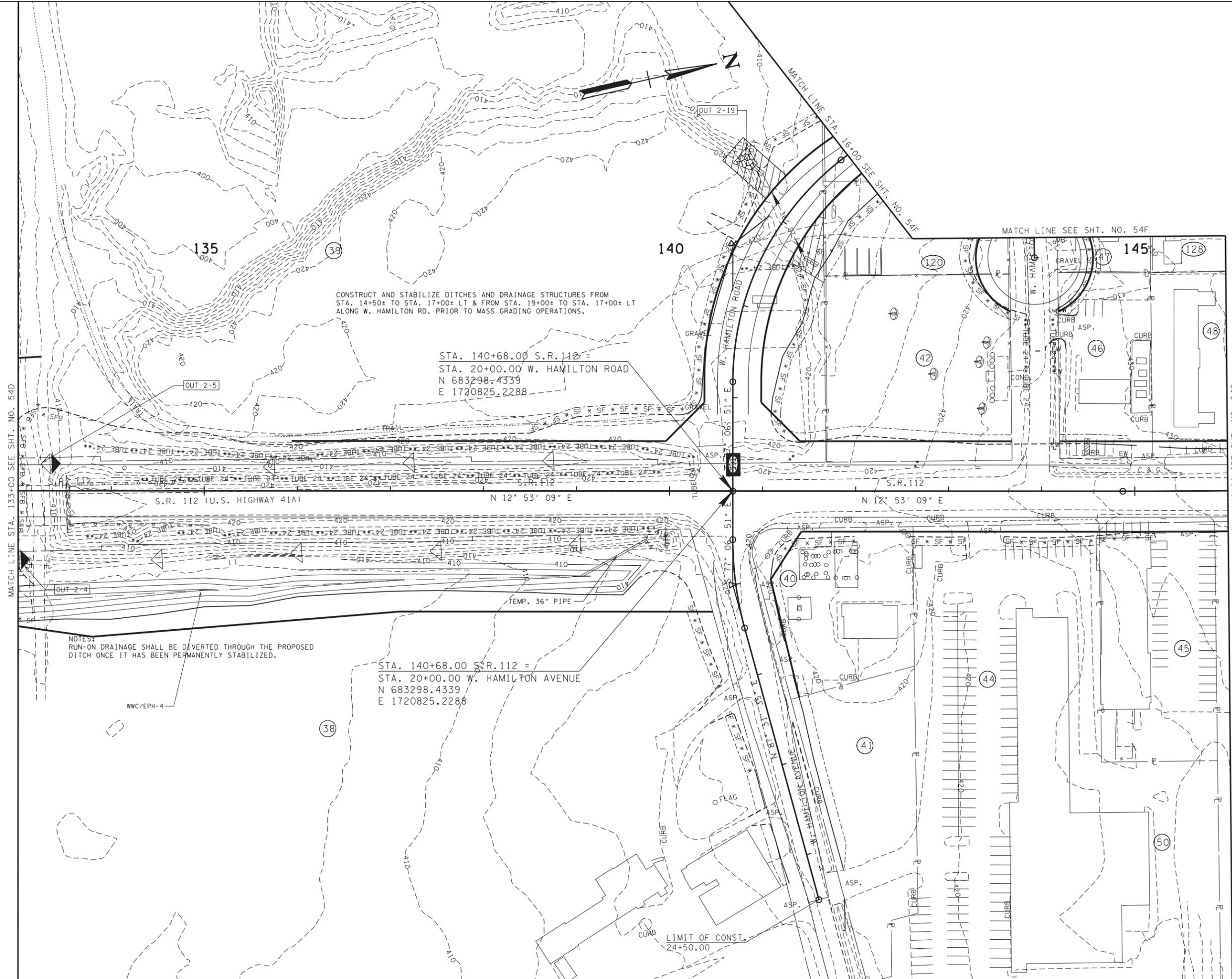
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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STAGE II

STA. 120+00 TO STA. 133+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	69
CONST.	2018	STP-112(6)	54E



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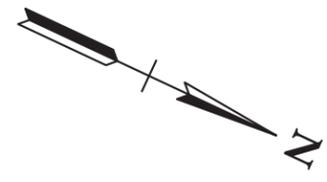
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
CONTROL PLAN
STAGE II**

STA. 133+00 TO STA. 146+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	69A
CONST.	2018	STP-112(6)	54F

REV. 5-31-16: REMOVED CONSTRUCTION EASEMENT AND STRUCK LINE THROUGH TRACT NO. 124.



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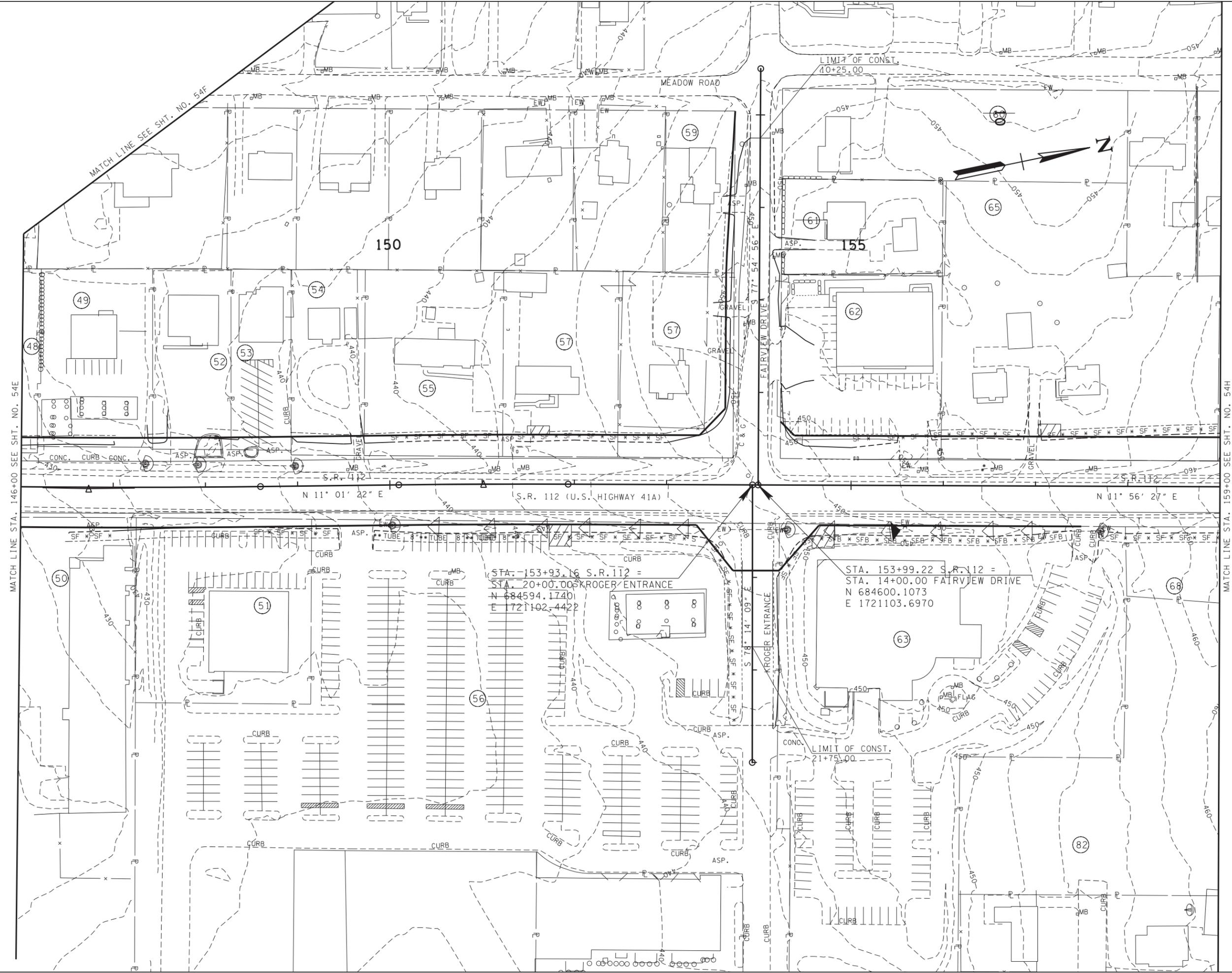
**EROSION CONTROL PLAN
STAGE II**

STA. 11+50 TO STA. 16+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	70
CONST.	2018	STP-112(6)	54G

REV. 03-21-17: REMOVED A SECTION OF WWC-4/EPH STR-4 RIGHT OF CENTERLINE AS PER THE ENVIRONMENTAL BOUNDARIES UPDATE.
 REV. 09-25-17: REVISED CONST. EASEMENT ON TRACT NO. 53.



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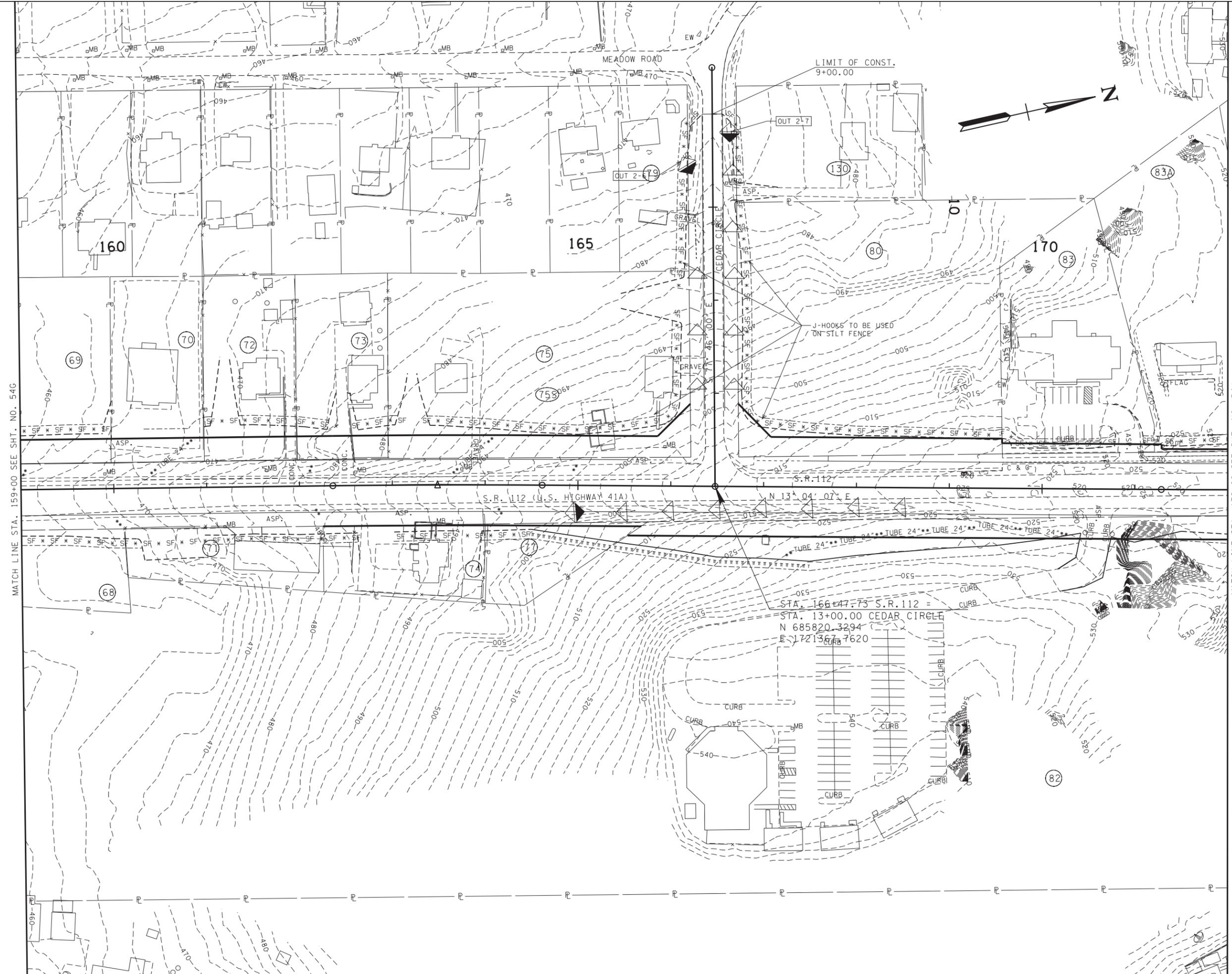
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EROSION CONTROL PLAN
STAGE II

STA. 146+00 TO STA. 159+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	71
CONST.	2018	STP-112(6)	54H



MATCH LINE STA. 159+00 SEE SH. NO. 54G

MATCH LINE STA. 172+00 SEE SH. NO. 54J

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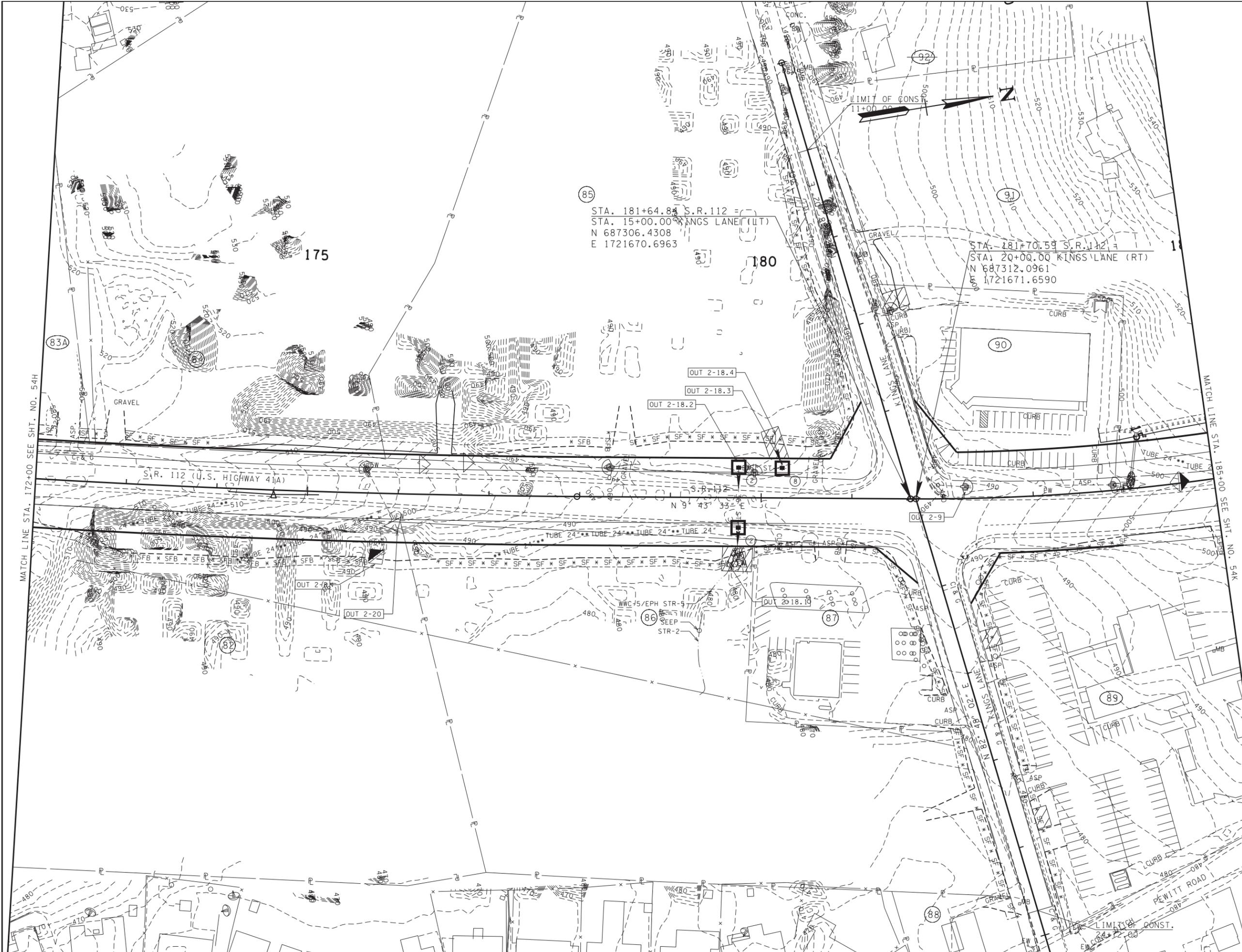
COORDINATES ARE NAD/83(1995),
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**EROSION
CONTROL PLAN
STAGE II**

STA. 159+00 TO STA. 172+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	72
CONST.	2018	STP-112(6)	54J



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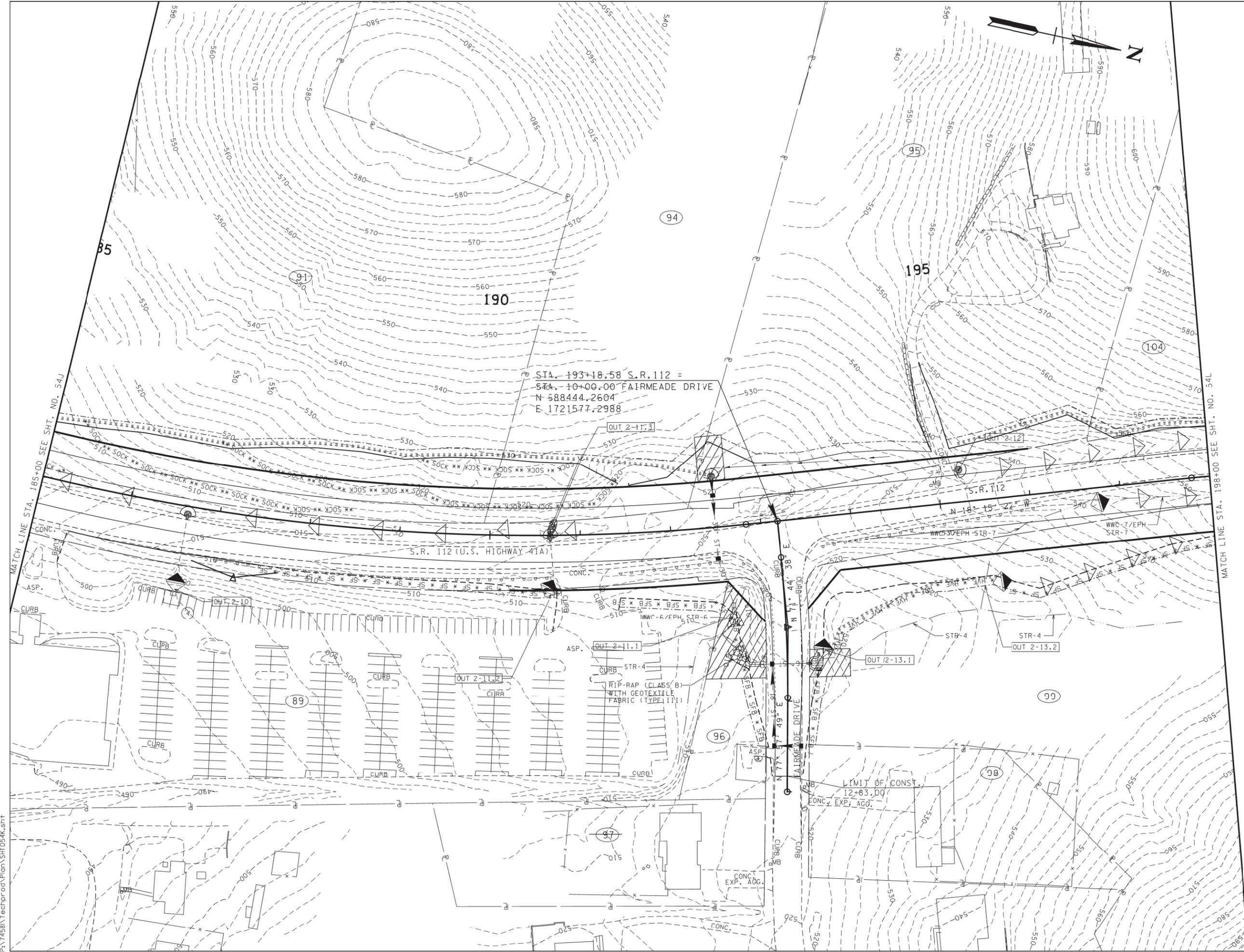
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**EROSION
CONTROL PLAN
STAGE II**

STA. 172+00 TO STA. 185+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	73
CONST.	2018	STP-112(6)	54K

REV. 11 08 18: REVISED EPGC PLANS PER TDOT COMMENTS.



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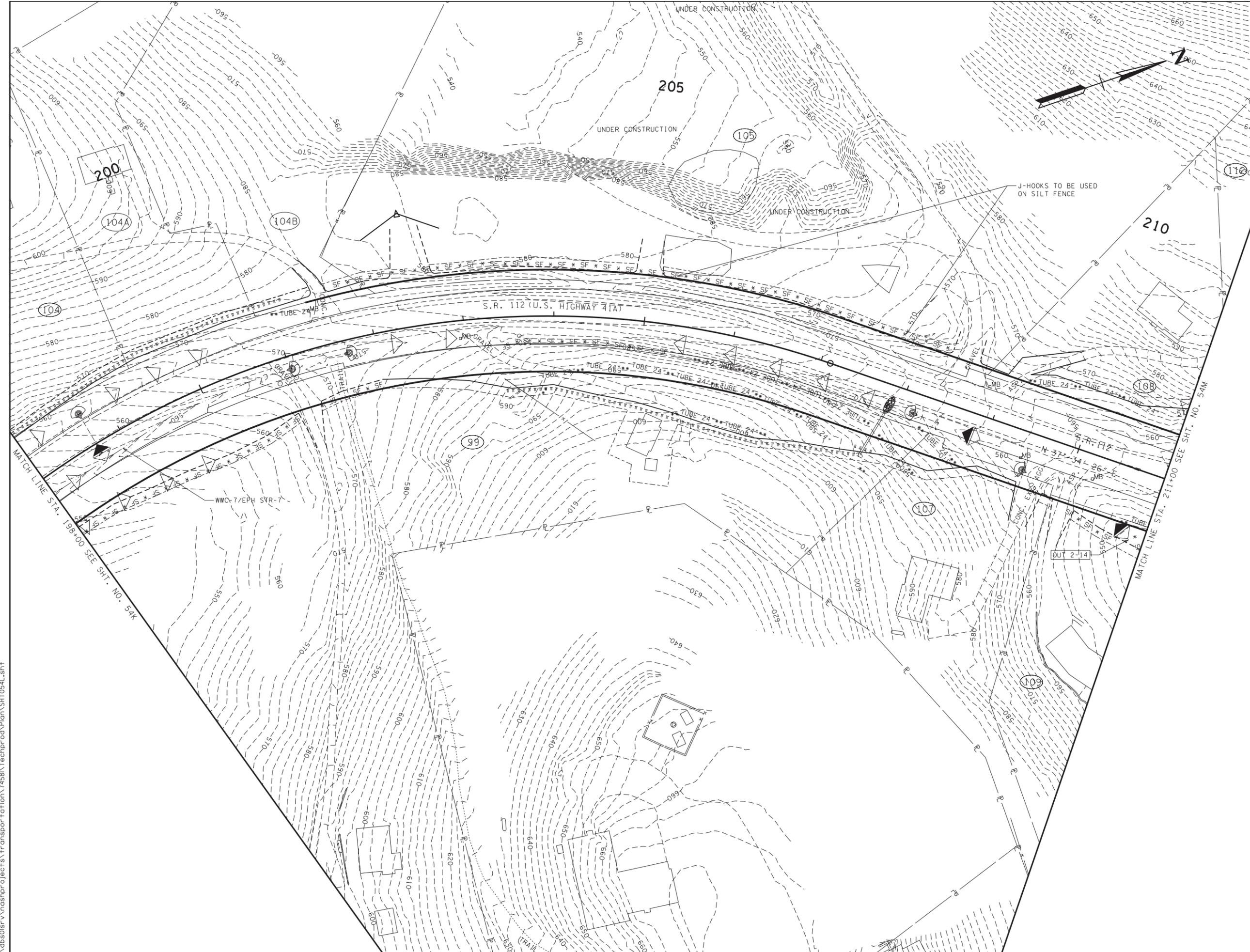
STATE OF TENNESSEE
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**EROSION CONTROL PLAN
 STAGE II**

STA. 185+00 TO STA. 198+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	74
CONST.	2018	STP-112(6)	54L

REV. 10-17-17: REVISED
CONSTRUCTION EASEMENT FOR TRACT
NO. 99.



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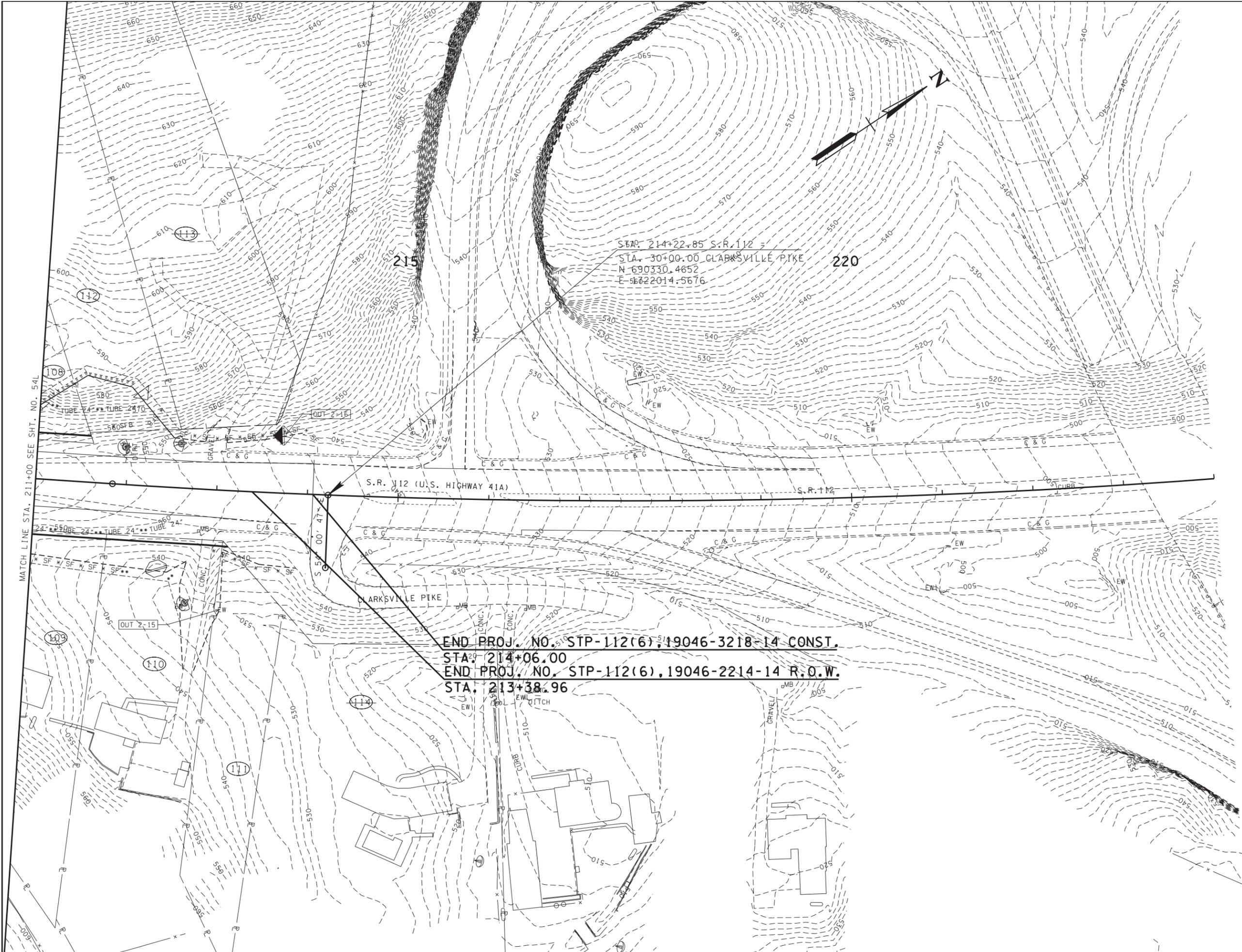
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**EROSION
CONTROL PLAN
STAGE II**

STA. 198+00 TO STA. 211+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	75
CONST.	2018	STP-112(6)	54M



STA. 214+22.85 S.R. 112 =
 STA. 30+00.00 CLARKSVILLE PIKE
 N 690330.4652
 E 56722014.5676

END PROJ. NO. STP-112(6), 19046-3218-14 CONST.
STA. 214+06.00
END PROJ. NO. STP-112(6), 19046-2214-14 R.O.W.
STA. 213+38.96

MATCH LINE STA. 211+00 SEE SHT. NO. 54L

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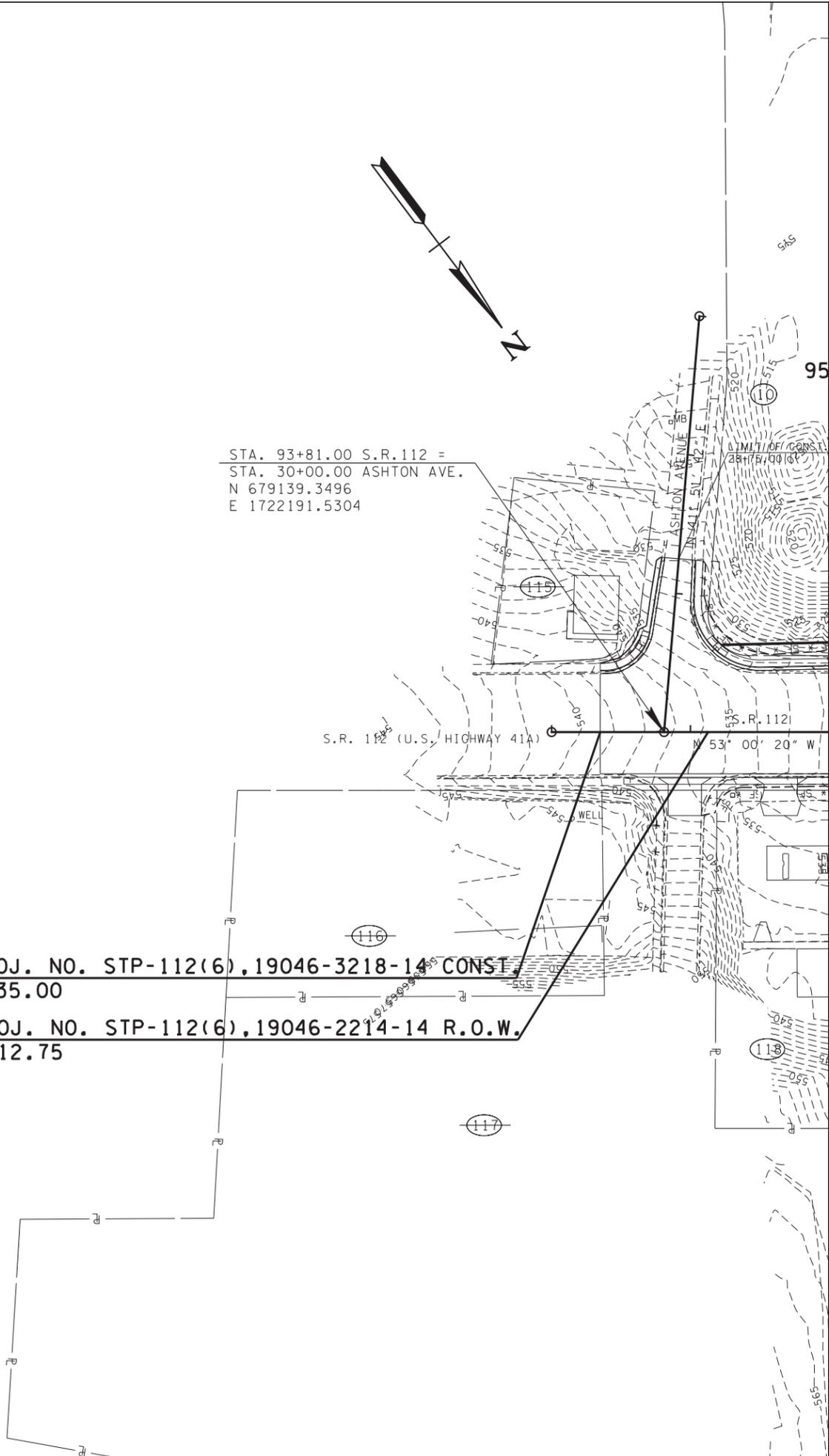
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
CONTROL PLAN
STAGE II**

STA. 211+00 TO END OF PROJ.
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	76
CONST.	2018	STP-112(6)	55



GENERAL SEQUENCING NOTES

STAGE I

1. INSTALL EPSC MEASURES, PROPOSED PIPES, AND SPECIAL DITCHES AS SHOWN & DESCRIBED IN THE STAGE I PLANS FOR THE PURPOSE OF BY-PASSING OFFSITE STORMWATER FLOWING THROUGH THE PROJECT AREA.
2. BEGIN CLEARING AND GRUBBING AND INITIAL GRADING AS NECESSARY TO CONSTRUCT SPECIAL DITCHES SHOWN IN THE STAGE I PLANS.
3. CONTRACTOR SHALL ATTEMPT BY EVERY MEANS POSSIBLE TO INSTALL PIPES AND DITCHES SHOWN IN STAGE I DURING DRY CONDITIONS, UNLESS SPECIFICALLY NOTED THAT THEY MUST BE CONSTRUCTED DURING DRY CONDITIONS.

STAGE II

4. INSTALL EPSC MEASURES AND PROPOSED PIPES AS REQUIRED & DESCRIBED IN STAGE II PLANS.
5. STAGE I EPSC MEASURES SHALL BE MAINTAINED FOR AS LONG AS POSSIBLE IN STAGE II.
6. BEGIN MASS GRADING OPERATIONS.

STAGE III

7. INSTALL EPSC MEASURES AND PROPOSED PIPES AS REQUIRED & DESCRIBED IN STAGE III PLANS.
8. BEGIN FINAL GRADING. ALL SIDE SLOPES SHALL BE STABILIZED WITH SOD AFTER FINAL GRADES ARE ESTABLISHED UNLESS OTHERWISE DIRECTED.

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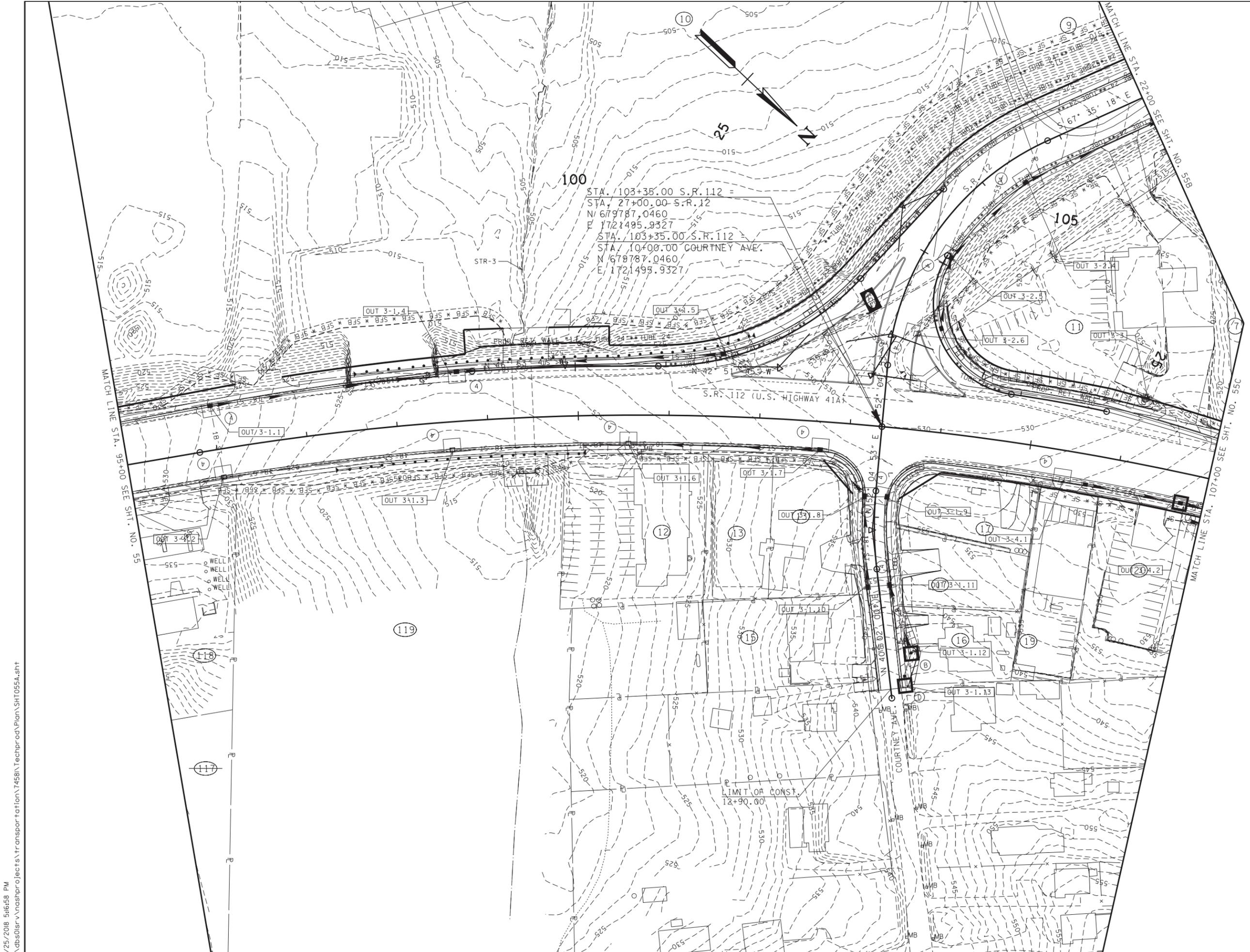
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**EROSION
CONTROL PLAN
STAGE III**

BEG. OF PROJ. TO STA. 95+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	77
CONST.	2018	STP-112(6)	55A

REV. 09-25-17: UPDATED BUILDING LAYOUT PER TDOT ON TRACT NO. 12.



STA. 103+35.00 S.R.112 =
 STA. 27+00.00-S.R.12
 N 67°9'87.0460
 E 1721495.9327
 STA. 103+35.00 S.R.112 =
 STA. 10+00.00 COURTNEY AVE.
 N 67°9'87.0460
 E 1721495.9327

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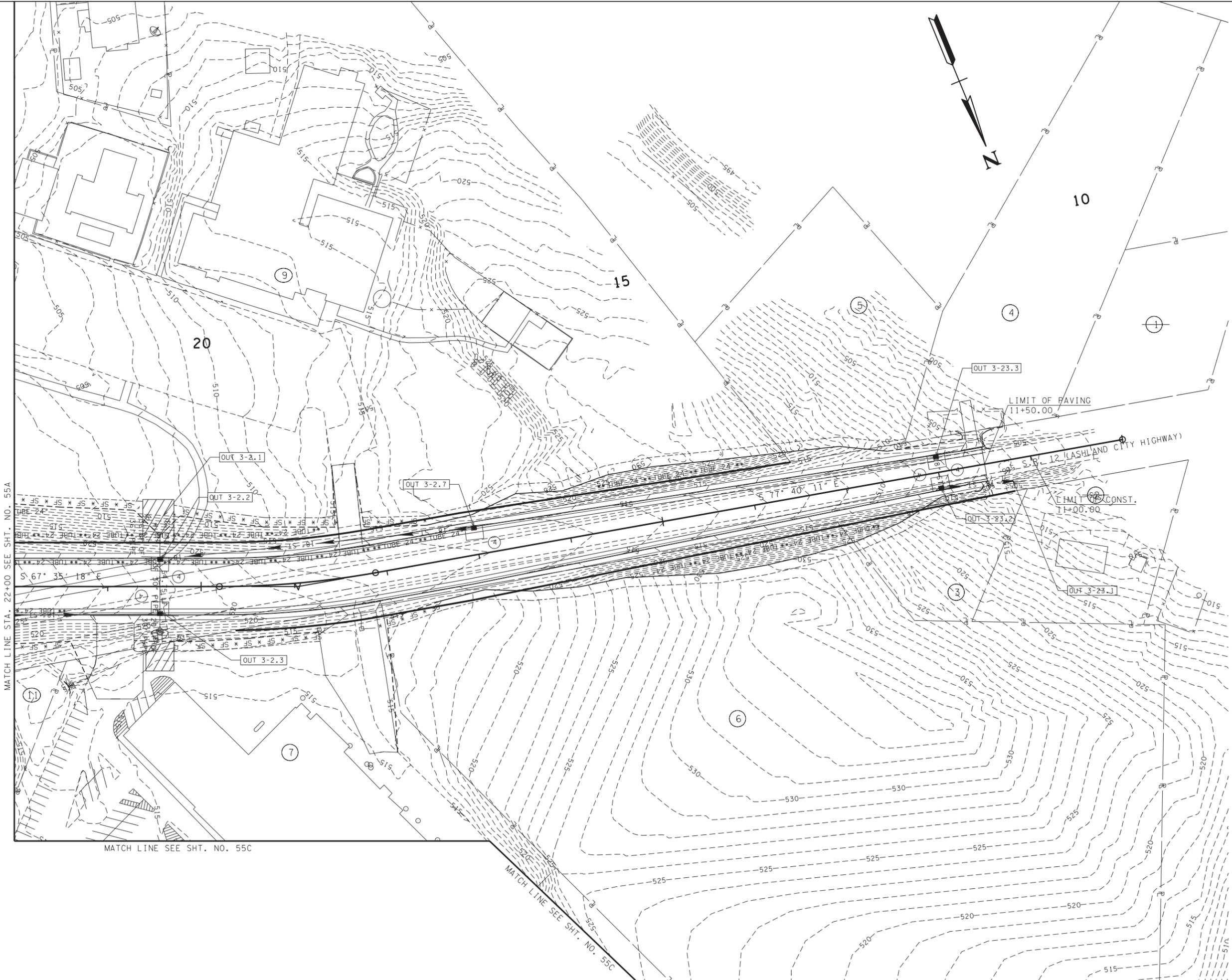
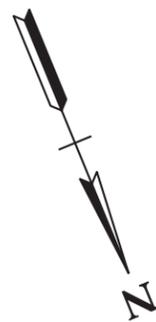
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**EROSION
CONTROL PLAN
STAGE III**

STA. 95+00 TO STA. 107+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	77A
CONST.	2018	STP-112(6)	55B



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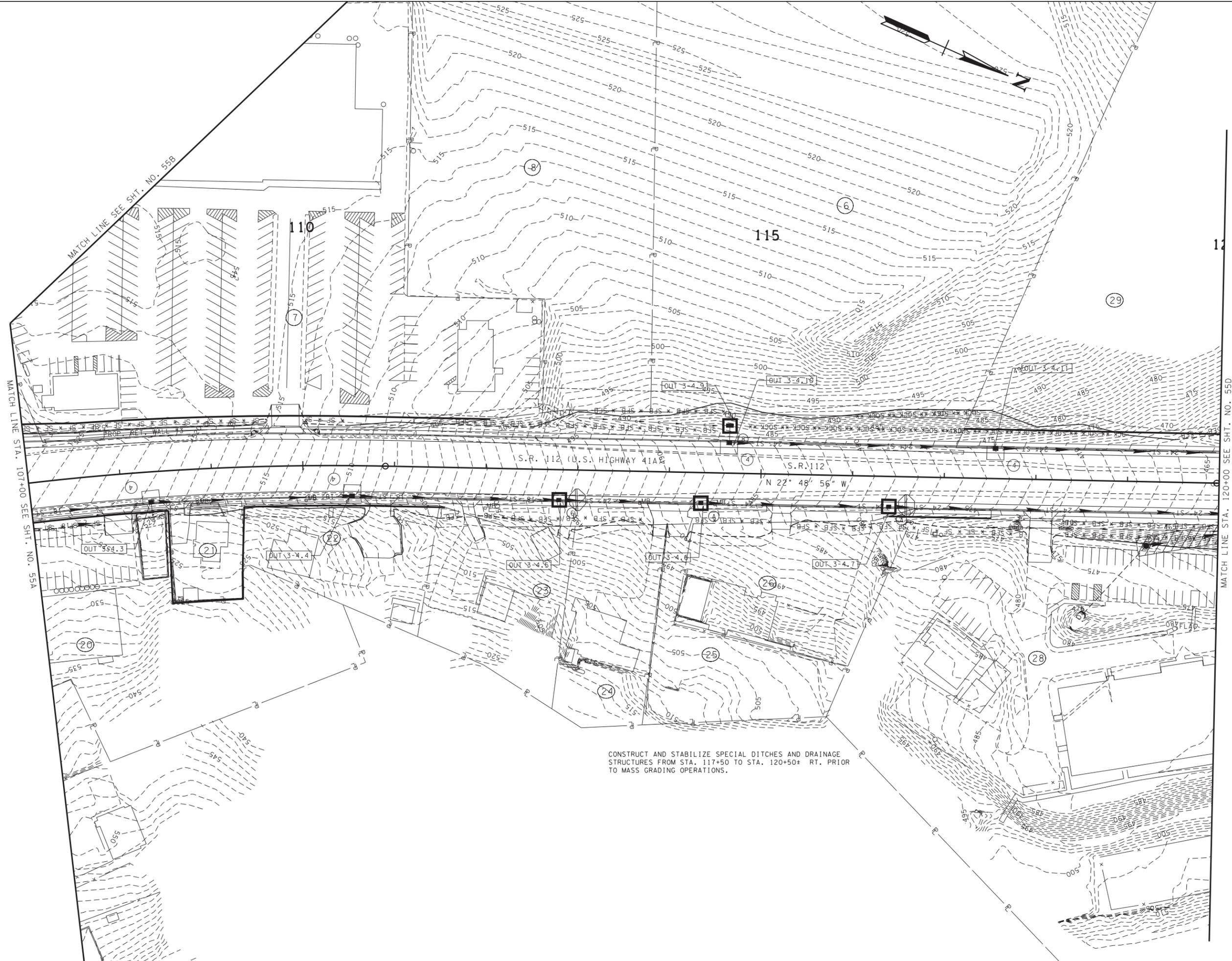
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**EROSION
CONTROL PLAN
STAGE III**

STA. 11+50 TO STA. 22+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	78
CONST.	2018	STP-112(6)	55C

REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.



CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 117+50 TO STA. 120+50+ RT. PRIOR TO MASS GRADING OPERATIONS.

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EROSION CONTROL PLAN
STAGE III

STA. 107+00 TO STA. 120+00
 SCALE: 1" = 50'

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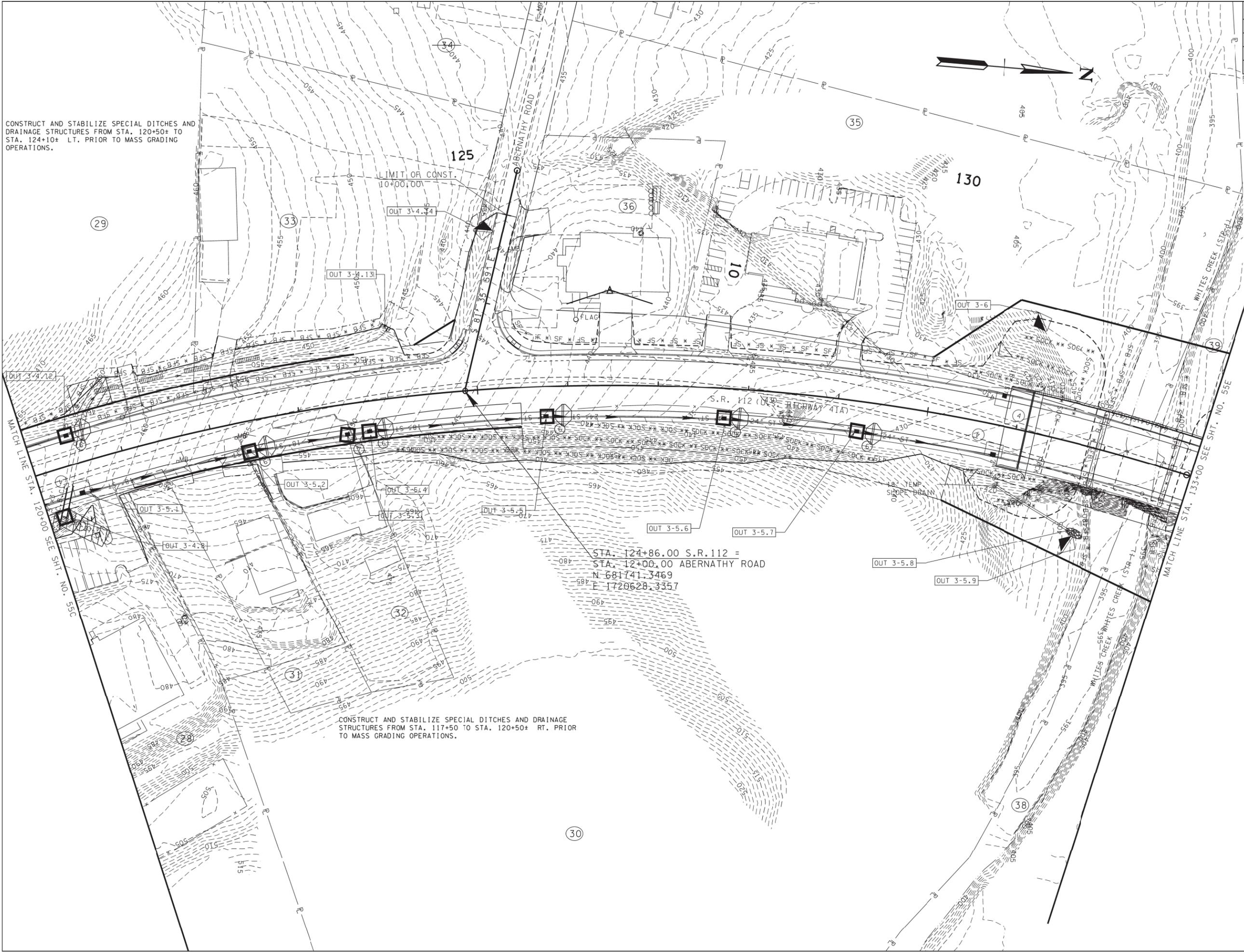
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	79
CONST.	2018	STP-112(6)	55D

REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 120+50± TO STA. 124+10± LT. PRIOR TO MASS GRADING OPERATIONS.

CONSTRUCT AND STABILIZE SPECIAL DITCHES AND DRAINAGE STRUCTURES FROM STA. 117+50 TO STA. 120+50± RT. PRIOR TO MASS GRADING OPERATIONS.

STA. 124+86.00 S.R.112 =
 STA. 12+00.00 ABERNATHY ROAD
 N 681741.3469
 E 1720628.3357



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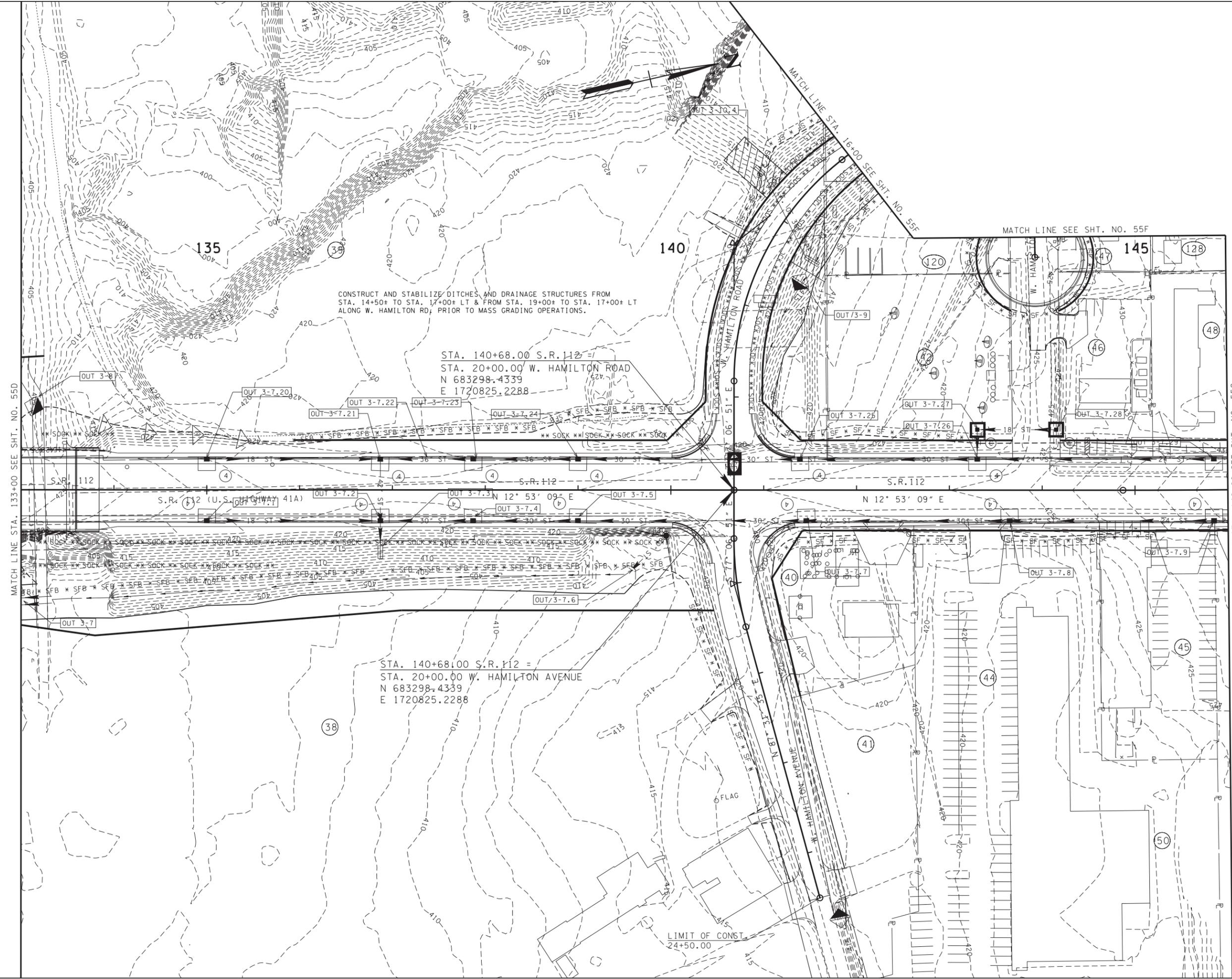
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**EROSION
 CONTROL PLAN
 STAGE III**

STA. 120+00 TO STA. 133+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	80
CONST.	2018	STP-112(6)	55E

REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.



CONSTRUCT AND STABILIZE DITCHES AND DRAINAGE STRUCTURES FROM STA. 14+50+ TO STA. 17+00+ LT & FROM STA. 19+00+ TO STA. 17+00+ LT ALONG W. HAMILTON RD, PRIOR TO MASS GRADING OPERATIONS.

STA. 140+68.00 S.R. 112 =
STA. 20+00.00 W. HAMILTON ROAD
N 683298.4339
E 1720825.2288

STA. 140+68.00 S.R. 112 =
STA. 20+00.00 W. HAMILTON AVENUE
N 683298.4339
E 1720825.2288

LIMIT OF CONST.
24+50.00

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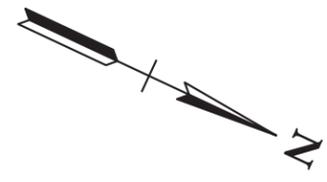
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EROSION CONTROL PLAN
STAGE III

STA. 133+00 TO STA. 146+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	80A
CONST.	2018	STP-112(6)	55F

REV. 5-31-16: REMOVED CONSTRUCTION EASEMENT AND STRUCK LINE THROUGH TRACT NO. 124.
 REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.



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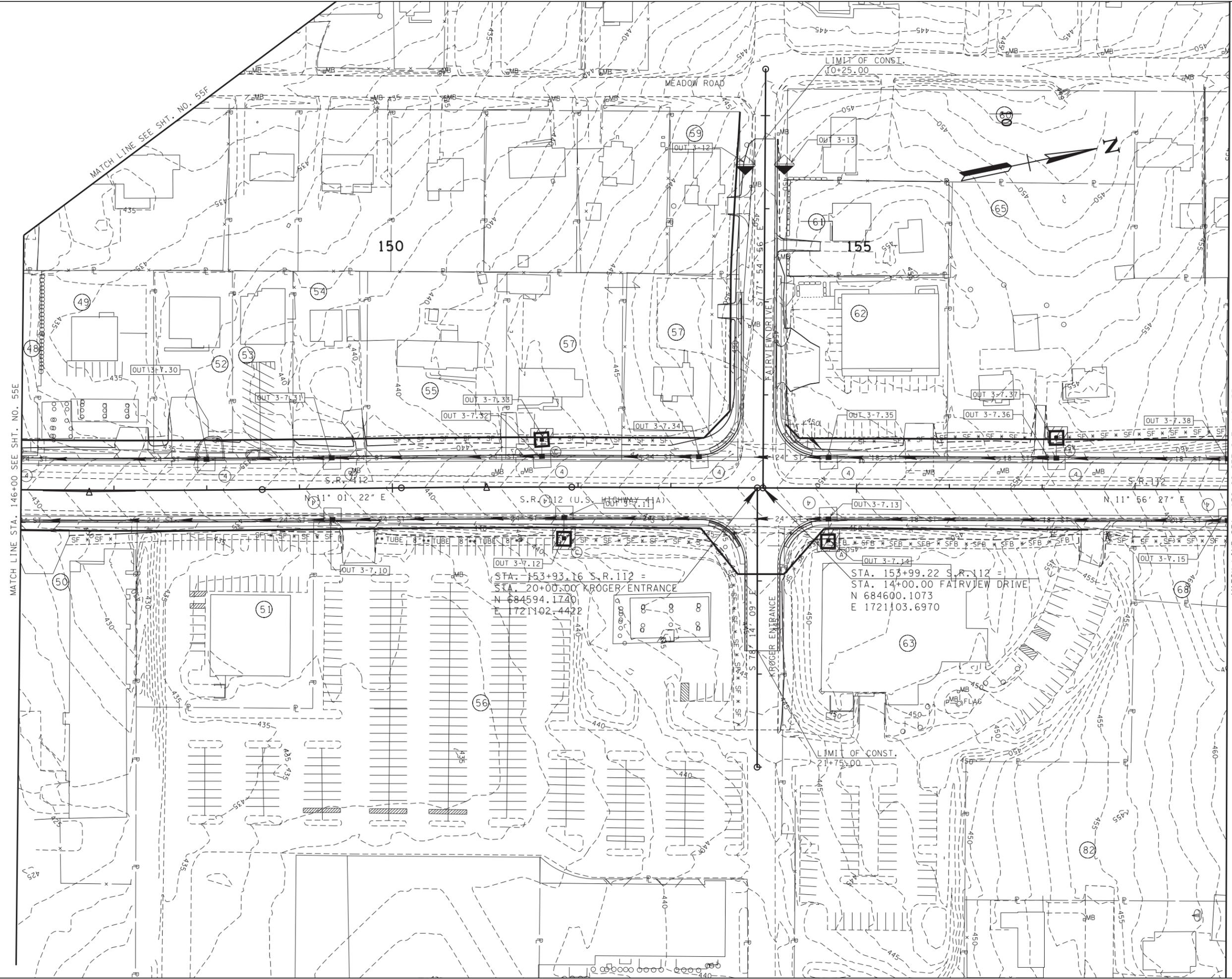
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**EROSION
CONTROL PLAN
STAGE III**

STA. 11+50 TO STA. 16+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	81
CONST.	2018	STP-112(6)	55G

REV. 09-25-17: REVISED TRACT NOS. 49 & 53 DRIVEWAYS. REVISED CONST. EASEMENT ON TRACT NO. 53.



MATCH LINE STA. 146+00 SEE SHT. NO. 55E

MATCH LINE STA. 159+00 SEE SHT. NO. 55H

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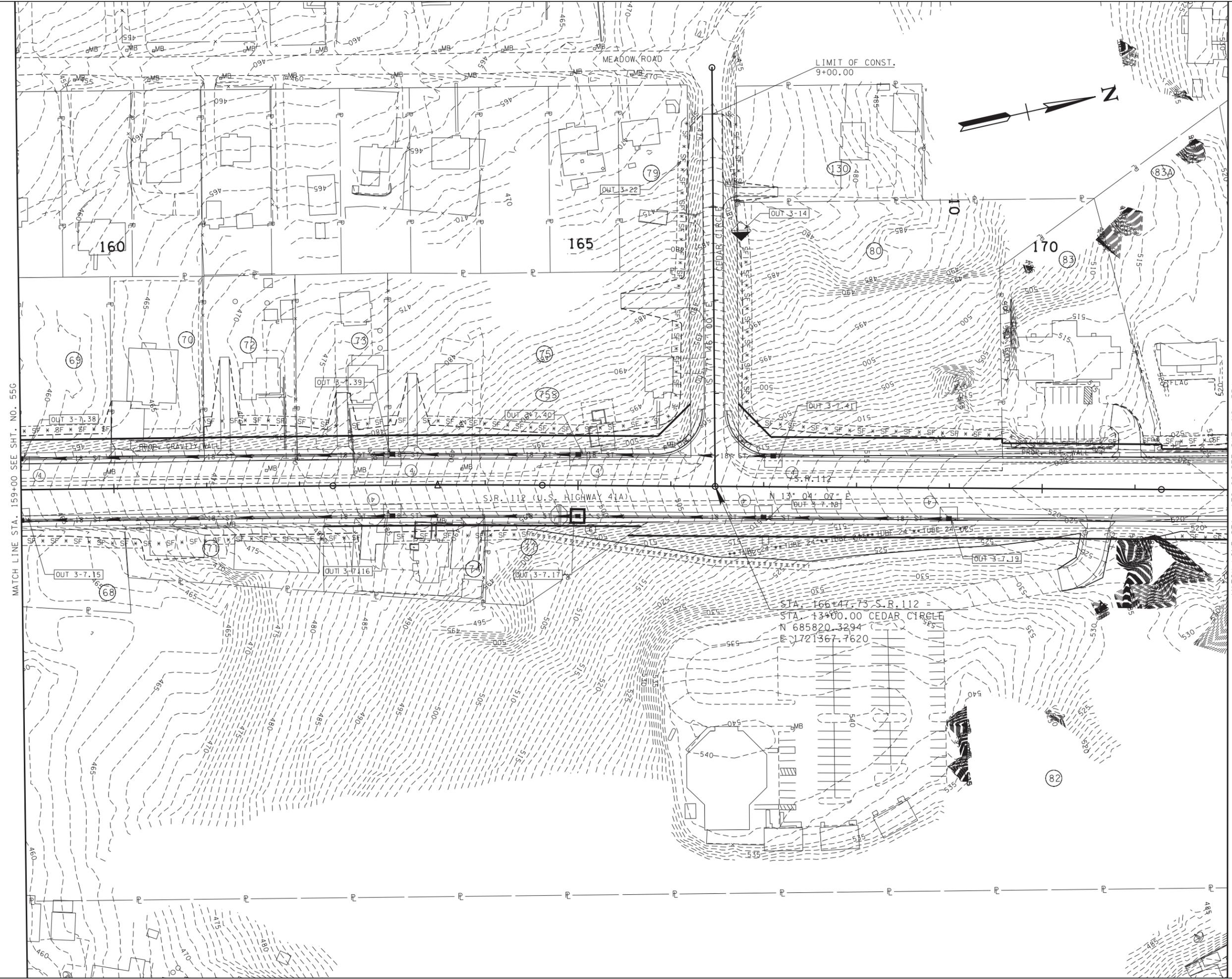
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STATE OF TENNESSEE
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EROSION CONTROL PLAN
STAGE III

STA. 146+00 TO STA. 159+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	82
CONST.	2018	STP-112(6)	55H



MATCH LINE STA. 159+00 SEE SH. NO. 55G

MATCH LINE STA. 172+00 SEE SH. NO. 55J

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STA. 166+47.73 S.R. 112 =
 STA. 13+00.00 CEDAR CIRCLE
 N 685820.3294
 E 1721367.7620

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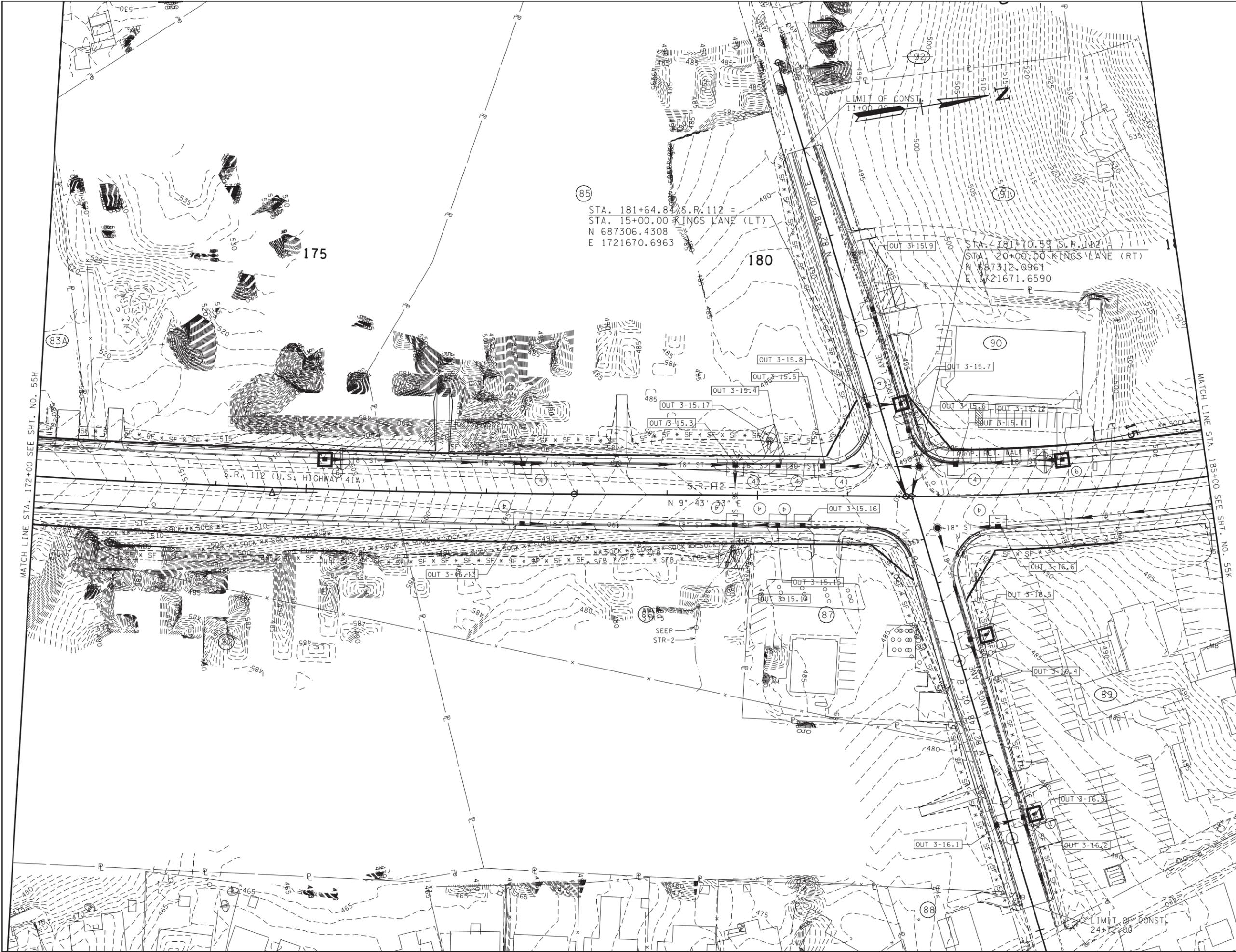
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**EROSION
 CONTROL PLAN
 STAGE III**

STA. 159+00 TO STA. 172+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	83
CONST.	2018	STP-112(6)	55J

REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.



85
 STA. 181+64.84 S.R. 112 =
 STA. 15+00.00 KINGS LANE (LT)
 N 687306.4308
 E 1721670.6963

91
 STA. 181+70.39 S.R. 112 =
 STA. 20+00.00 KINGS LANE (RT)
 N 687312.0961
 E 1721671.6590

MATCH LINE STA. 172+00 SEE SHT. NO. 55H

MATCH LINE STA. 185+00 SEE SHT. NO. 55K

SEALED BY
**UNOFFICIAL
 SET
 NOT FOR
 BIDDING**

COORDINATES ARE NAD/83(1995),
 ARE DATUM ADJUSTED BY THE
 FACTOR OF 1.00006 AND TIED TO
 THE TGRN. ALL ELEVATIONS ARE
 REFERENCED TO THE NAVD 1988.

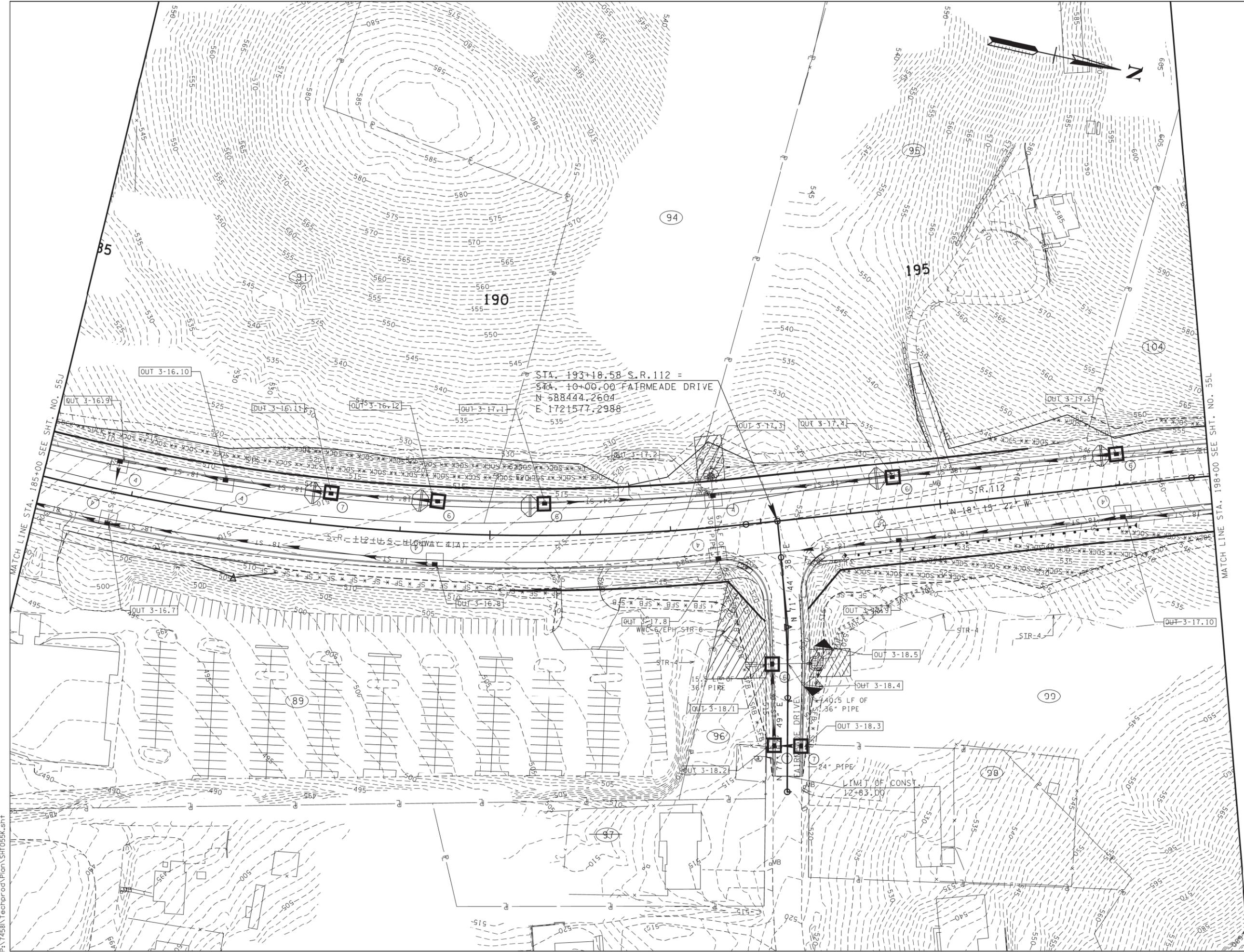
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

**EROSION
 CONTROL PLAN
 STAGE III**

STA. 172+00 TO STA. 185+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	84
CONST.	2010	STP-112(6)	55K

REV. 11-08-18: REVISED EPSC PLANS PER TDOT COMMENTS.



STA. 193+18.58 S.R.112 =
 STA. 10+00.00 FAIRMEADE DRIVE
 N 588444.2604
 E 1721577.2988

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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

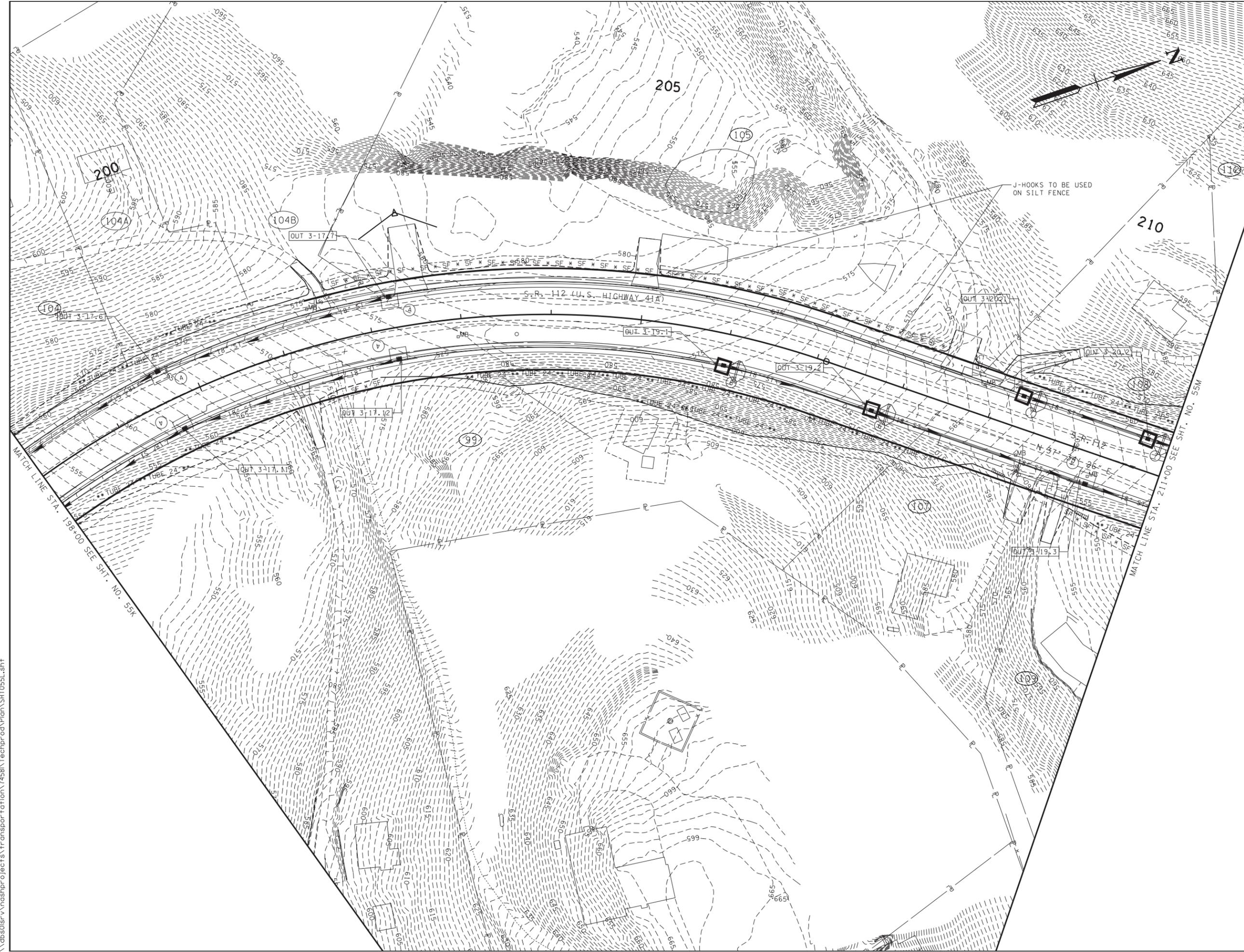
EROSION CONTROL PLAN
STAGE III

STA. 185+00 TO STA. 198+00
 SCALE: 1" = 50'

11/7/2018 2:53:17 PM
 P:\1458\Tech\Prod\Plan\SH1055K.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	85
CONST.	2018	STP-112(6)	55L

REV. 10-17-17; REVISED
CONSTRUCTION EASEMENT FOR TRACT
NO. 99.



J-HOOKS TO BE USED
ON SILT FENCE

MATCH LINE STA. 198+00 SEE SHT. NO. 55K

MATCH LINE STA. 211+00 SEE SHT. NO. 55M

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
CONTROL PLAN
STAGE III**

STA. 198+00 TO STA. 211+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	STP-112(6)	86
CONST.	2018	STP-112(6)	55M



STA. 214+22.85 S.R. 112
 STA. 214+00.00 CLARKSVILLE PIKE
 N 690330.4652
 E 66722014.5676

END PROJ. NO. STP-112(6), 19046-3218-14 CONST.
 STA. 214+06.00
 END PROJ. NO. STP-112(6), 19046-2214-14 R.O.W.
 STA. 213+38.96

MATCH LINE STA. 211+00 SEE SHT. NO. 55L

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 DEPARTMENT OF TRANSPORTATION

**EROSION
 CONTROL PLAN
 STAGE III**

STA. 211+00 TO END OF PROJ.
 SCALE: 1" = 50'