

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: S.R.16 (US 41A); FROM WEST OF JENKINS ROAD TO S.R.276 (THOMPSON CREEK RD.)
COUNTY: BEDFORD
PIN: 100352.02
- 2.3. SITE MAP(S) (2.6.2): REFER TO TITLE SHEET
- 2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): REFER TO EXISTING CONTOURS SHEET(S) 45A – 45R, DRAINAGE MAP SHEET(S) 31 – 32, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 17.
- 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): 138.88 ACRES
- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 110.63 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)
ARRINGTON SILT LOAM	B	2.5	0.37
ASHWOOD-MIMOSA ROCK OUTCROP	D	20.6	0.32
BARFIELD-ROCK OUTCROP COMPLEX	D	3.5	0.28
BRAXTON SILT LOAM	B	6.0	0.37
COLBERT SILT LOAM	D	3.2	0.43
DELLROSE GRAVELLY SILT LOAM	B	1.3	0.24
HARPETH SILT LOAM	B	16.7	0.43
LYNNVILLE SILT LOAM	C	0.9	0.37
MIMOSA SILT LOAM	C	22.3	0.37
MIMOSA-ASHWOOD COMPLEX	C	19.3	0.37
TALBOTT SILT LOAM	C	1.7	0.43
TALBOTT-ROCK OUTCROP	C	2.0	0.43

- 2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? YES NO
- 2.12.1. IF YES TO SECTION 2.13, 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	25.4	18.3	98	
PERVIOUS	113.48	81.7	80	
WEIGHTED CURVE NUMBER OR C-FACTOR =			83	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	49.09	35.3	98	
PERVIOUS	89.79	64.7	80	
WEIGHTED CURVE NUMBER OR C-FACTOR =			86	

- 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 45A – 45R3)
 - 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.
 - 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	UNNAMED TRIBUTARY TO DUCK RIVER	NO	NO	YES	YES
STR-2	UNNAMED TRIBUTARY TO DUCK RIVER	NO	NO	YES	YES
STR-3	UNNAMED TRIBUTARY TO DUCK RIVER	NO	NO	YES	YES
STR-4	UNNAMED TRIBUTARY TO THOMPSON CREEK	NO	NO	YES	YES
STR-4A	UNNAMED TRIBUTARY TO THOMPSON CREEK	NO	NO	YES	YES
STR-5	THOMPSON CREEK	NO	NO	YES	YES
STR-5A	UNNAMED TRIBUTARY TO THOMPSON CREEK	NO	NO	YES	YES
TN06040002 027_2000	DUCK RIVER	YES	YES	NO	YES

4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2)
 YES NO

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

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: _____

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-1/EPH-1	YES	YES
WWC-2/EPH-2	YES	YES
WWC-3/EPH-3	YES	YES
WWC-4/EPH-4	YES	YES
WWC-5/EPH-5	YES	YES
WWC-6/EPH-6	YES	YES
WWC-7/EPH-7	YES	YES
WWC-8/EPH-8	YES	YES
WWC-9/EPH-9	YES	YES
WWC-10/EPH-10	YES	YES
WWC-11/EPH-11	YES	YES
WWC-13/EPH-13	YES	YES
WWC-14/EPH-14	YES	YES
WWC-15/EPH-15	YES	YES
WWC-17/EPH-17	YES	YES
WWC-18/EPH-18	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) 45M, 45M1, 45M2, 45M3.

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 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)
WTL-1	440+00 LT	476+00 LT	0.00	0.00
WTL-2	526+50 LT	527+10 LT	0.00	0.00

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) 1D.
- 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
- 5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- 5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.
- 5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- 5.9. HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT (3.5.2)?
YES NO (IF YES, CHECK ONE BELOW)
- 5.9.1. PROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
- 5.9.2. PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (3.5.3.2) (10. "STEEP SLOPE")? YES NO N/A
- 5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1.j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.

- 5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 2 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 2 (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.
- 7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.
- 7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- 7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- 7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
- 7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

- 7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- 7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- 7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.
- 7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
 - 7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
 - 7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
 - 7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

- 8.1. INSPECTION PRACTICES (3.5.8)
 - 8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):
 - 8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
 - 8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
 - 8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
 - 8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II - DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
 - 8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.o).
 - 8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM

AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.

- 8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
- 8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).
- 8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).
- 8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").
- 8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.e AND 3.5.8.2.f).
- 8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.
- 8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.
- 8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (3.5.8.2.h).
- 8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.
- 8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)
 - 8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.b)
 - 8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN

THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (3.5.8.2.e).

- 8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (3.5.3.1.e).
- 8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
- 8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.
- 8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.
- 8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (3.5.3.1.f).
- 8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (3.1.2)

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

10. STORMWATER MANAGEMENT (3.5.4)

- 10.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.
- 10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.4): 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.

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- 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.

OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

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.

13.6. 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 R. Myers

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

Anthony R. Myers

PRINTED NAME

Transportation Manager 2

TITLE

07/25/2017

DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR 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 TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (9.0)

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

ENVIRONMENTAL PERMITS			
PERMIT	YES OR NO	PERMIT 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.

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

17. OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE*	OUTFALL LABEL	SUB-OUTFALL	STATION CL, LT, OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	STAGE 4 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO, OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1, 2, 3, 4	1		413+14 LT S.R. 16	1.08	1.1	1.1	1.1	1.1	N/A	ROADSIDE DITCH	
1, 2, 3, 4	2		412+32 RT S.R. 16	6.48	1.4	1.4	1.4	1.4	N/A	ROADSIDE DITCH	
1	3		427+61 RT S.R. 16	4.71	2				N/A	WWC-1/EPH-1	
1	4		427+50 RT S.R. 16	7.05	12.4	12.4	12.4		YES	STR-1	CLEAN RUN-ON DIVERSION OF STR-1 THROUGH PROJECT
2	4A		435+80 RT S.R. 16	7.78	1.8				N/A	STR-1	
1	5		427+28 RT S.R. 16	4.54	6.8				NO	STR-1	CLEAN RUN-ON DIVERSION VIA DIVERSION BERM, PIPE AND CHANNEL.
1		5A	424+81 RT S.R. 16	8.70	0.4				N/A	STR-1	
1, 3	6		428+56 LT S.R. 16	3.10	1.1		1.1		N/A	STR-1	
1, 3	7		428+79 LT S.R. 16	5.85	0.5		0.5		N/A	STR-1	
1	8		453+20 RT S.R. 16	14.32	7.2				NO	WWC-8/EPH-8	SEE SUB-OUTFALLS.
1		8A	452+75 RT S.R. 16	12.03	2.0				N/A	WWC-8/EPH-8	
1		8B	452+62 RT S.R. 16	13.59	2.3				N/A	WWC-8/EPH-8	
1		8C	452+45 RT S.R. 16	9.12	2.1				N/A	WWC-8/EPH-8	
1		8D	452+90 RT S.R. 16	15.03	0.8				N/A	WWC-8/EPH-8	
1	9		455+76 LT S.R. 16	3.67	0.8				N/A	STR-2	
1	10		461+85 RT S.R. 16	5.17	3.6				N/A	STR-3	
1, 3, 4	11		461+45 LT S.R. 16	4.92	2.2		2.2	2.2	N/A	STR-3	
1, 2	12		461+45 RT S.R. 16	10.05	1.8	1.8			N/A	STR-3	
1	13		471+74 RT S.R. 16	3.79	3.9				N/A	STR-3	
1, 3, 4	14		480+96 LT S.R. 16	10.25	0.3		0.3	0.3	N/A	STR-3	
1, 2	15		492+23 RT S.R. 16	1.02	4.9	4.9			N/A	WWC-9/EPH-9	
1	16		493+00 RT S.R. 16	6.05	4.4				N/A	WWC-9/EPH-9	
1, 2, 4	17		83+01 LT WHITESIDE HILL RD.	8.81	2.2	2.2		2.2	N/A	ROADSIDE DITCH	
1, 2, 4	18		83+01 RT WHITESIDE HILL RD.	7.14	0.1	0.1		0.1	N/A	ROADSIDE DITCH	
1, 2, 3, 4	19		92+66 LT NORMANDY RD.	4.56	2.0	2.0	2.0	2.0	N/A	ROADSIDE DITCH	
1, 2, 3, 4	20		92+87 RT NORMANDY RD.	2.13	0.2	0.2	0.2	0.2	N/A	ROADSIDE DITCH	
1, 2	21		512+30 LT S.R. 16	14.07	11.5	11.5			NO	DRAINAGE SWALE	STAGE 1: REMAINING DRAINAGE AREA NOT INCLUDED IN SUB-OUTFALLS IS 'CLEAN' RUN-ON DIVERSION THROUGH THE PROJECT. STAGE 2: 'CLEAN' RUN-ON DIVERSION VIA PROPOSED PIPE.
1		21A	512+10 RT S.R. 16	4.56	1.6	1.6	1.6	1.6	N/A	DRAINAGE SWALE	
1		21B	512+36 RT S.R. 16	2.42	0.4	0.4	0.4	0.4	N/A	DRAINAGE SWALE	
1, 3	23		519+90 RT S.R. 16	2.22	1.5		1.5		N/A	WWC-11/EPH-11	
1, 3	24		520+36 RT S.R. 16	4.96	0.3		0.3		N/A	WWC-11/EPH-11	
1, 3	25		527+22 RT S.R. 16	10.24	0.7		0.7		N/A	STR-4	
1, 3, 4	26		531+82 RT S.R. 16	2.42	0.5		0.5	0.5	N/A	STR-4A	
1, 3, 4	27		532+59 RT S.R. 16	5.80	0.6		0.6	0.6	N/A	STR-4A	

1, 2, 4	28		532+33 LT S.R. 16	3.80	1.6	1.6		1.6	N/A	STR-4A	
1	29		551+52 RT S.R. 16	3.41	0.8				N/A	STR-5	
1, 2, 4	30		103+46 RT SHOFNER RD.	0.90	0.1	0.1		0.1	N/A	STR-5	
1, 2, 4	31		103+46 LT SHOFNER RD.	0.90	0.1	0.1		0.1	N/A	STR-5	
1	32		552+50 LT S.R. 16	3.84	4.3				N/A	STR-5	
1, 3, 4	33		557+54 RT S.R. 16	2.55	4.1		4.1	4.1	N/A	WWC-14/EPH-14	
1, 2, 4	34		121+65 RT THOMPSON CREEK RD.	8.37	0.2	0.2		0.2	N/A	ROADSIDE DITCH/TRIBUTARY TO THOMPSON CREEK	
1, 2, 4	35		121+65 LT THOMPSON CREEK RD.	7.43	0.2	0.2		0.2	N/A	ROADSIDE DITCH/TRIBUTARY TO THOMPSON CREEK	
1, 2, 4	36		580+07 RT S.R. 16	5.82	4.7	4.7		4.7	N/A	DRAINAGE SWALE	
1	37		584+58 RT S.R. 16	4.58	0.5				N/A	WWC-17/EPH-17	
1, 3, 4	38		584+25 LT S.R. 16	4.96	0.6		0.6	0.6	N/A	WWC-17/EPH-17	
1	39		584+58 LT S.R. 16	5.21	1.1				N/A	WWC-17/EPH-17	
1, 2	40		590+47 RT S.R. 16	4.99	1.2	1.2			N/A	WWC-18/EPH-18	
1	41		590+47 LT S.R. 16	9.50	2.2				N/A	WWC-18/EPH-18	
1, 2, 4	42		598+42 RT S.R. 16	13.09	4.9	4.9		4.9	N/A	DRAINAGE SWALE	
1, 2, 4	43		603+80 RT S.R. 16	8.91	3.9	3.9		3.9	N/A	DRAINAGE SWALE	
2, 4	44		425+10 RT S.R. 16	5.54		2.2		2.2	N/A	WWC-1/EPH-1	
2, 4	45		425+90 RT S.R. 16	6.64		0.4		0.4	N/A	WWC-1/EPH-1	
2, 4	46		432+50 RT S.R. 16	2.74		0.6		0.6	N/A	WWC-4/EPH-4	
2, 4	48		452+46 RT S.R. 16	1.86		1.5	1.5	1.5	N/A	STR-2	
2, 4	50		133+40 LT WHITESIDE HILL RD.	9.75		14.3		14.3	NO	STR-2	SEE SUB-OUTFALLS. CLEAN RUN-ON DIVERSION OF STR-2 THROUGH PROJECT
2, 4		50A	454+95 RT S.R. 16	3.44		0.7		0.7	N/A	STR-2	
2, 4		50B	454+35 RT S.R. 16	28.83		9.0		9.0	NO	WWC-7/EPH-7	CLEAN RUN-ON DIVERSION DIRECTLY TO WWC-7/EPH-7.
2, 4		50C	133+40 RT WHITESIDE HILL RD.	10.07		4.6		4.6	N/A	WWC-7/EPH-7	
2, 4	52		456+32 RT S.R. 16	4.57		0.2		0.2	N/A	STR-2	
2, 4	53		461+50 RT S.R. 16	3.44		0.7		0.7	N/A	STR-2	
2, 3, 4	54		465+46 RT S.R. 16	1.52		2.8	2.8	2.8	N/A	STR-3	
2, 4	55		468+73 RT S.R. 16	4.98		2.7		2.7	N/A	STR-3	
2, 4	56		81+17 RT WHITESIDE HILL RD.	8.86		2.5		2.5	N/A	DITCH	
2, 4	57		505+10 RT S.R. 16	9.57		0.3		0.3	N/A	WWC-10/EPH-10	
2, 3, 4	58		511+00 RT S.R. 16	1.18		1.1	1.1	1.1	N/A	DRAINAGE SWALE	
2, 3, 4	59		517+00 LT S.R. 16	1.41		1.7	1.7	1.7	N/A	WWC-11/EPH-11	
2, 3, 4	61		519+43 RT S.R. 16	2.05		1.3	1.3	1.3	N/A	WWC-11/EPH-11	
2, 4	62		525+80 LT S.R. 16	1.53		1.1		1.1	N/A	STR-4	
2	63		526+91 LT S.R. 16	9.26		0.3			N/A	STR-4	
2, 4	64		529+53 LT S.R. 16	2.18		1.3		1.3	N/A	STR-4A	
1, 2, 3, 4	65		543+25 RT S.R. 16	4.3	8.2	8.2	8.2	8.2	NO	WWC-13/EPH-13	STAGE 1: 'CLEAN' RUN-ON DIVERSION VIA TEMPORARY DIVERSION CHANNEL AND EXISTING PIPE.
2, 3, 4		65A	543+25 CL S.R. 16	2.07		1.1	1.1	1.1	N/A	WWC-13/EPH-13	

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	02005-2245-14	
CONST.	2017	NHE-16 (54)	S-10

2, 3, 4		65B	543+25 LT S.R. 16	4.38		4.9	4.9	4.9	N/A	WWC-13/EPH-13	
2, 3, 4	66		551+76 CL S.R. 16	4.13		1.8	1.8	1.8	N/A	STR-5	
2, 4	67		552+11 LT S.R. 16	4.69		3.3		3.3	N/A	STR-5	
2, 4	68		553+87 LT S.R. 16	2.42		0.5		0.5	N/A	STR-5	
2, 3, 4	69		106+60 LT SHOFNER RD.	6.38		0.4	0.4	0.4	N/A	STR-5A	
2, 4	70		106+00 RT SHOFNER RD.	2.58		0.2		0.2	N/A	STR-5A	
2, 4	71		105+40 RT SHOFNER RD.	0.9		0.2		0.2	N/A	STR-5A	
2, 3, 4	72		556+46 RT S.R. 16	0.93		1.9	1.9	1.9	N/A	WWC-14/EPH-14	SEE SUB-OUTFALLS.
2, 3, 4		72A	556+46 CL S.R. 16	2.3		0.6	0.6	0.6	N/A	WWC-14/EPH-14	
2, 3, 4		72B	558+80 CL S.R. 16	2.98		1.3	1.3	1.3	N/A	WWC-14/EPH-14	
2, 3, 4	73		561+00 RT S.R. 16	3.29		2.3	2.3	2.3	N/A	WWC-14/EPH-14	
2, 3, 4	74		565+50 RT S.R. 16	3.37		1.5	1.5	1.5	N/A	WWC-15/EPH-15	
2, 4	75		575+40 RT S.R. 16	1.17		0.9		0.9	N/A	ROADSIDE DITCH/TRIBUTARY TO THOMPSON CREEK	
2, 4	76		585+45 RT S.R. 16	4.75		0.3		0.3	N/A	WWC-17/EPH-17	
2, 4	77		584+20 CL S.R. 16	2.35		1.6		1.6	N/A	WWC-17/EPH-17	
3, 4	78		424+73 LT S.R. 16	1.34			0.8	0.8	N/A	STR-1	
3, 4	79		440+20 LT S.R. 16	4.72			0.8	0.8	N/A	PND-1	
3, 4	80		455+76 LT S.R. 16	2.28			2.1	2.1	N/A	STR-2	
3, 4	81		458+23 LT S.R. 16	4.76			0.3	0.3	N/A	STR-2	
3, 4	82		464+20 LT S.R. 16	2.39			4.6	4.6	N/A	STR-3	
3, 4	83		486+22 LT S.R. 16	9.27			0.7	0.7	N/A	WWC-9/EPH-9	
3, 4	84		488+35 LT S.R. 16	0.62			1.7	1.7	N/A	WWC-9/EPH-9	
3, 4	85		491+80 LT S.R. 16	7.37			0.3	0.3	N/A	WWC-9/EPH-9	
3, 4	86		493+80 LT S.R. 16	3.43			9.9	9.9	NO	WTL-1	SEE SUB-OUTFALLS. REMAINING DRAINAGE AREA NOT INCLUDED IN SUB-OUTFALLS IS 'CLEAN' RUN-ON DIVERSION.
3, 4		86A	496+80 LT S.R. 16	2.97			4.2	4.2	N/A	WTL-1	
3, 4		86B	494+10 LT S.R. 16	14.29			0.7	0.7	N/A	WTL-1	
3, 4		86C	494+79 LT S.R. 16	13.53			0.4	0.4	N/A	WTL-1	
3, 4	87		505+50 LT S.R. 16	9.74			4.1	4.1	N/A	WWC-10/EPH-10	
3, 4	88		510+70 LT S.R. 16	1.87			0.4	0.4	N/A	DRAINAGE SWALE	
3, 4	89		512+32 LT S.R. 16	14.07			11.5	11.5	NO	DRAINAGE SWALE	CLEAN RUN-ON DIVERSION VIA PROPOSED PIPE.
3, 4	90		524+30 RT S.R. 16	2.07			0.8	0.8	N/A	STR-4	
3, 4	91		526+20 RT S.R. 16	4.87			0.3	0.3	N/A	STR-4	
3, 4	92		527+20 RT S.R. 16	5.88			1.2	1.2	N/A	STR-4	
3, 4	93		542+00 RT S.R. 16	1.29			0.7	0.7	N/A	WWC-13/EPH-13	
3, 4	94		552+28 RT S.R. 16	4.34			0.7	0.7	N/A	STR-5	
3, 4	95		573+84 LT S.R. 16	1.22			1.4	1.4	N/A	WWC-15/EPH-15	
3, 4	96		584+82 LT S.R. 16	5.17			1.1	1.1	N/A	WWC-17/EPH-17	
3, 4	97		590+41 LT S.R. 16	7.02			0.4	0.4	N/A	WWC-18/EPH-18	
3, 4	98		590+73 LT S.R. 16	2.49			2.8	2.8	N/A	WWC-18/EPH-18	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STORMWATER POLLUTION PREVENTION PLAN

1	99		74+60 RT JENKINS RD	4.48	0.5				N/A	WWC-1/EPH-1	
2, 4	100		424+87 RT S.R. 16	4.71		2.1		2.1	N/A	WWC-1/EPH-1	
1	101		454+08 RT S.R. 16	21.00	9.0				NO	WWC-7/EPH-7	CLEAN RUN-ON DIVERSION DIRECTLY TO WWC-7/EPH-7
1, 2, 4	102		464+43 RT S.R. 16	7.23	0.9	0.9		0.9	N/A	STR-3	
3	103		461+70 CL S.R. 16	6.30			0.9		N/A	STR-3	
1, 2	104		484+47 RT S.R. 16	10.06	0.9	0.9			N/A	DRAINAGE SWALE	
2, 4	105		453+45 LT S.R. 16	18.46		2.0		2.0	N/A	WWC-8/EPH-8	
2, 4	106		452+84 RT S.R. 16	11.35		2.3		2.3	N/A	WWC-8/EPH-8	
2, 4	107		453+17 RT S.R. 16	15.56		0.2		0.2	N/A	WWC-8/EPH-8	

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE. SOME ROWS WERE LEFT FOR ADDITIONAL OUTFALLS IF NEEDED.

*EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS; EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.

Index Of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2E	TYPICAL SECTIONS
2F	ENVIRONMENT NOTES AND SINKHOLE TREATMENT DETAIL
3-3G	PROPERTY MAP AND R.O.W. ACQUISITION TABLE
4-28	PRESENT LAYOUTS
4A-10A	R.O.W. DETAILS
4B-10B, 11A-28A	PROPOSED LAYOUTS
4C-10C, 11B-28B	PROFILES
21C-24C	TRANSITION PROFILES
26C-27C	TEMPORARY TIE PROFILES
29-32	SIDEROAD PROFILES
33-40, 40A	DRIVEWAY PROFILES
41-43	DRAINAGE MAPS
44	SPECIAL DITCH PROFILES
45-53	MAINLINE CULVERT CROSS SECTIONS
53A-53E	MEDIAN CULVERT CROSS SECTIONS
53F-53H	SIDEROAD CULVERT CROSS SECTIONS
54-54B1	EROSION CONTROL
55-55A1	EXISTING CONTOURS
56-56A1	PROPOSED CONTOURS
57-360	MAINLINE CROSS SECTIONS
361-438	SIDEROAD CROSS SECTIONS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

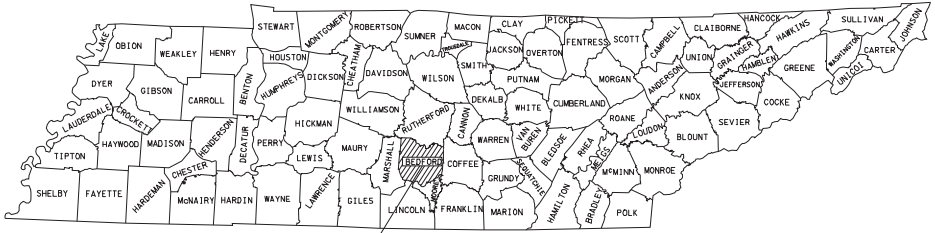
TENN.	YEAR	SHEET NO.
	2006	1
FED. AID PROJ. NO.	NHE-16 (29)	
STATE PROJ. NO.	02005-2245-14	

REV. 12/01/06
UPDATED TITLE,
UPDATED SPECIFICATIONS, DATE,
AND R.O.W. LENGTH.

BEDFORD COUNTY
S.R. 16 (US 41A)
FROM S.R. 64 EAST OF SHELBYVILLE TO S.R. 276 (THOMPSON CREEK RD.)

RIGHT-OF-WAY

STATE HIGHWAY NO. S.R. 16 F.A.H.S. NO. US 41A

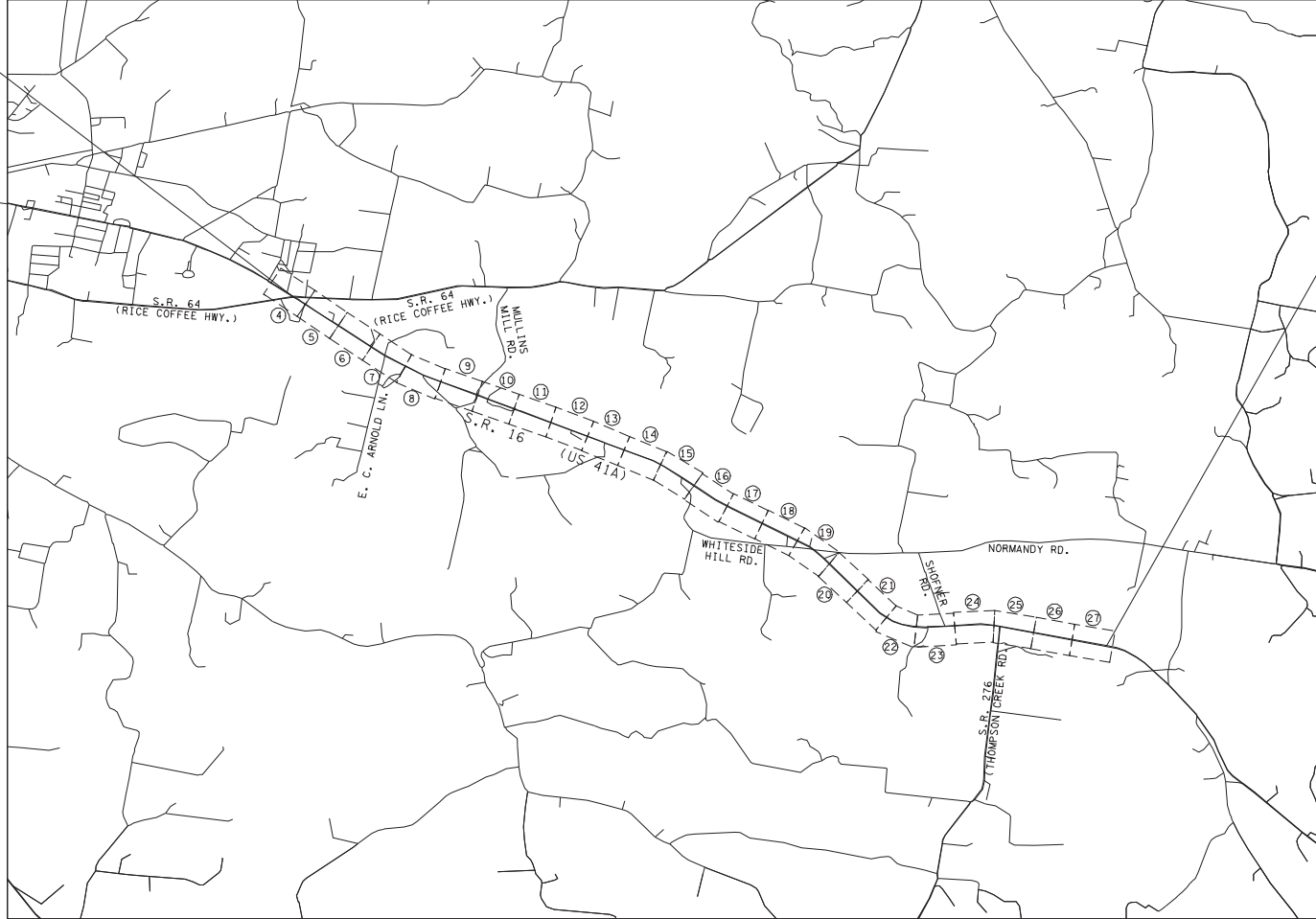


REV. 01/18/08
ADDED SHEET NO. 2F TO INDEX
REV. 09/06/11
ADDED SHEET NO. 40A TO INDEX

BEGIN PROJECT NO. STP-NH-16(29) (R.O.W.)
S.R. 16 (US 41A) STA. 310+53.84

END PROJECT NO. STP-NH-16(29) (R.O.W.)
S.R. 16 (US 41A) STA. 612+60.20

FOR
R.O.W.
ONLY



NO EXCLUSIONS

EQUATION	
DESCRIPTION	NET EFFECT ON ENUMERATION
STA. 423 +37.09 BK. = STA. 423 +36.97 AH.	+0.12
STA. 609 +01.29 BK. = STA. 608 +74.11 AH.	+27.18
TOTAL	+27.30

SPECIAL NOTES

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

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

TDOT ROAD CE MGR1 JOE CARPENTER, P.E.
DESIGN BY GRESHAM, SMITH AND PARTNERS
DESIGNER JONATHAN HAYCRAFT, P.E.
P.E. NO. 02005-1242-14
P.I.N. 100352.00

SCALE: 1" = 3000'

R.O.W. LENGTH 5.726 MILES

UNOFFICIAL
SET
NOT FOR
BIDDING

TRAFFIC DATA	
ADT (2006)	15130
ADT (2026)	22030
DHV (2026)	2200
D	55-45
T (ADT)	13%
V	45 MPH (URBAN) 60 MPH (RURAL)

APPROVED: Paul D. Rogers
CHIEF ENGINEER

DATE: _____

APPROVED: Scott F. Nix
COMMISSIONER

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

Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

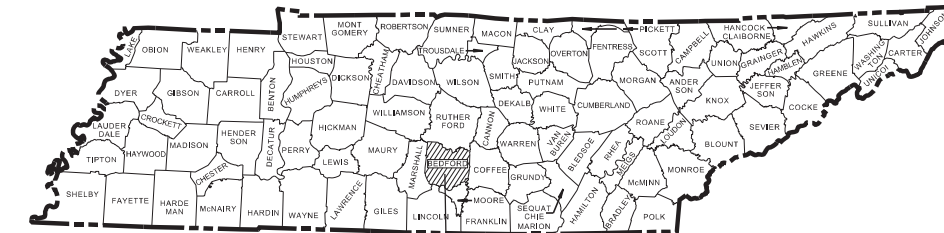
TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	NHE-16 (54)	
STATE PROJ. NO.	02005-3256-14	

BEDFORD COUNTY

S.R. 16 (US 41A)
FROM WEST OF JENKINS ROAD TO S.R. 276 (THOMPSON CREEK RD.)

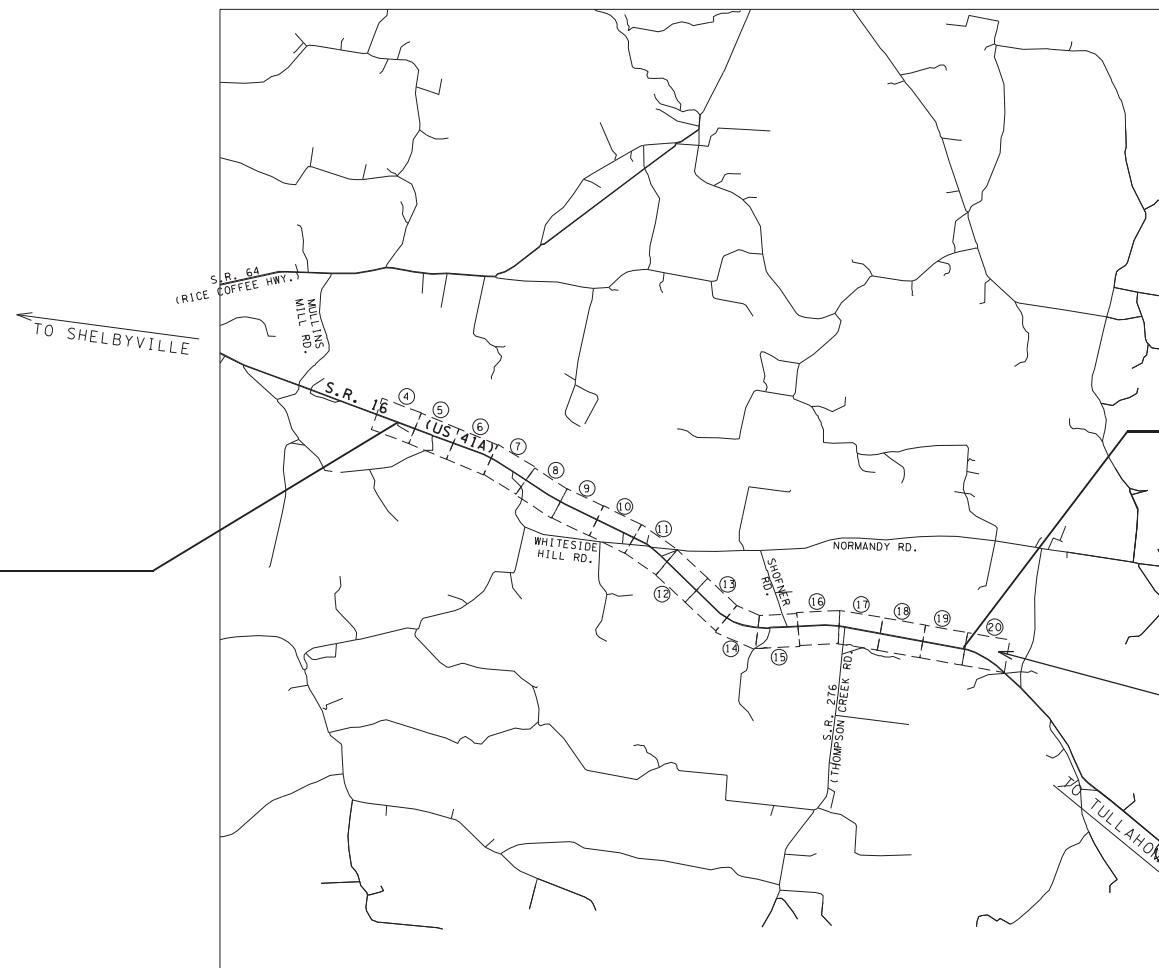
CONSTRUCTION
GRADE, DRAINAGE, PAVING, SIGNS, STRIPING

STATE HIGHWAY NO. 16 F.A.H.S. NO. 41A



BEDFORD COUNTY
PROJECT NO. NH-16(54)

EQUATION	
DESCRIPTION	NET EFFECT ON ENUMERATION
STA. 423 +37.09 BK. = STA. 423 +36.97 AH.	+0.12
TOTAL	+0.12



NO EXCLUSIONS

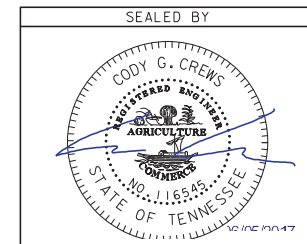
WHITESIDE HILL AND SHOFNER
ROAD TO BE CLOSED
DURING CONSTRUCTION

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BEGIN PROJ. NO. NH-16(54) (CONST.)
STA. 200+00.00 S.R. 16 EASTERN TIE=
S.P. 02005-3256-14
STA. 412+00.00 { S.R. 16 (US 41A)
OFF. 2.53' RT.
N 412465.0425
E 1858557.9384

END PROJECT NO. NH-16(54) CONST.
S.P. 02005-3256-14
STA. 606+27.18 S.R. 16
N 405557.428
E 1875998.430

BY OTHERS ADJACENT PROJECT
PROJECT NO. STP-NHE-16(14)



APPROVED: Paul D. Decker
CHIEF ENGINEER

DATE: _____

APPROVED: [Signature]
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.
TDOT TRANSPORTATION MANAGER 2: JON ZIRKLE

DESIGNED BY: GRESHAM_SMITH_AND_PARTNERS

DESIGNER: CODY CREWS, P.E. CHECKED BY: BUDDY SHERRILL

P.E. NO. 02005-1242-14(A)

PIN NO. 100352.02

SCALE: 1"= 3000



ROADWAY LENGTH 3.643 MILES
BRIDGE LENGTH 0.028 MILES
BOX BRIDGE LENGTH 0.008 MILES ▲
PROJECT LENGTH 3.679 MILES

▲ Not included in the project length.

SURVEY	TRAFFIC DATA
	ADT (2017) 8980
	ADT (2037) 10070
	DHV (2037) 1108
	D 65 - 35
	T (ADT) 11 %
	T (DHV) %
	V 60 MPH

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS OBTAINED - - USING GEOID 2013 MODEL AND DATUM ADJUSTMENT FACTOR OF 1.00

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	1A

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LETTERS "I" AND "O" NOT USED.

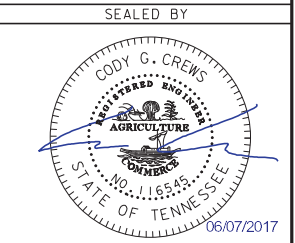
DWG. NO	REV.	DESCRIPTION
STANDARD BRIDGE DRAWINGS		
DWG. NO.	REV.	DESCRIPTION
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATION
STD-17-7		CURB AND RAIL DETAILS - SKEW NOT LESS THAN 45 DEG
STD-17-8		STANDARD EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 8"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTION
STD-17-14		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTION
STD 17 16		WINGWALL DESIGN SECTION
STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-24		WARPED SLOPE DETAIL
STD-17-25		STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-8")
STD-17-26		EXTENSION DETAILS
STD-17-27		EXTENSION DETAILS FOR SCOURED OUTLET
STD-17-28		END SECTION DETAILS
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-34		INTERNAL ENERGY DISSIPATOR FOR BOX AND PIPE CULVERTS
STD-17-51	05-01-14	BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL
STD-17-52		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 3' - 5', 0 - 60' FILL
STD-17-53		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 6' - 8', 0 - 60' FILL
STD-17-81		BOX BRIDGE, 2 BARRELS AT 14', CLEAR HTS. 12' - 14', 0 - 60' FILL
STD-17-141		SLAB BRIDGE, 2 BARRELS AT 14', CLEAR HTS. 12' - 14', 0 - 60' FILL

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
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

DWG. NO	REV.	DESCRIPTION
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-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-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD01-TS-3A	10-15-02	DESIGN STANDARDS 4-6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4-6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
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
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
RD01-S-113	10-15-02	DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT
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
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)

DWG. NO	REV.	DESCRIPTION
DRAINAGE - CULVERTS AND ENDWALL		
D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-4	02-03-16	STRAIGHT CONCRETE ENDWALL
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)

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DWG. NO REV. DESCRIPTION
DRAINAGE - CULVERTS AND ENDWALL (CONT'D.)

DPE-24A	01-21-16	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	06-4-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1, & 6:1 SLOPES)
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1, & 6:1 SLOPES)
D-PE-42A	06-14-13	42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1, & 6:1 SLOPES)
D-PE-42B		42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1, & 6:1 SLOPES)
D-PE-48A	06-14-13	48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1, & 6:1 SLOPES)
D-PE-48B		48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1, & 6:1 SLOPES)
D-PE-9B		GEN. DIMENSIONS AND QUANTITIES, SIDE TAPER INLETS CONCRETE ENDWALLS - TYPE "B" (PIPE SIZES 15" TO 78" ALL SKEWS 2:1 & 4:1 SLOPES)
D-PE-9C		BILL OF STEEL (SHEET 1 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEW, 2:1 SLOPE)
D-PE-9D		BILL OF STEEL (SHEET 2 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZES 15" - 78", ALL SKEWS, 4:1 SLOPE)
D-PE-9E		BILL OF STEEL (SHEET 3 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEWS, 2:1 SLOPE)
D-PE-9F		BILL OF STEEL (SHEET 4 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" TO 78", ALL SKEWS, 4:1 SLOPE)
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS
D-SEW-1A	06-4-13	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE (GRATE FOR 15" AND 18" PIPES)(6:1 SLOPE)
D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE (GRATE FOR 15" AND 18" PIPES) (12:1 SLOPE)

DRAINAGE-CATCH BASINS AND MANHOLES

D-CB-38RB	03-1-14	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-39RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 39 CATCH BASIN
D-CB-39S	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SD	03-1-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 39 CATCH BASIN

DWG. NO REV. DESCRIPTION

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-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-MH-2	02-02-16	STANDARD MASONRY & PRECAST NO. 3 MANHOLE

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 AND ALLEY INTERSECTIONS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS

SAFETY DESIGN AND FENCE

S-PL-2	10-10-16	SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES
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-GRS-2	05-25-16	SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRC-1	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-2	03-28-17	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-10-16	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINALS
S-GRT-2R		EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINALS (RETROFIT)
S-GRT-3	03-28-17	TYPE 21 GUARDRAIL END TERMINAL
S-GRA-3	03-28-17	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	03-28-17	IN-LINE GUARDRAIL ANCHOR
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
S-F-1	05-24-12	HIGH VISIBILITY FENCE

TRAFFIC CONTROL APPURTENANCES

T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	10-10-16	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS

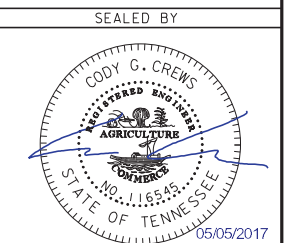
DWG. NO REV. DESCRIPTION

T-M-15A	01-30-15	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	01-30-15	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-02-15	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	02-14-14	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-S-19	07-19-15	STANDARD MEMBERS BENDAWAY SIGN SUPPORTS STEEL DESIGN
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-18	03-05-17	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
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-36	03-05-17	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY
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-42	03-05-17	CENTER LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	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-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-15	08-01-12	SEDIMENT BASIN
EC-STR-16	08-01-12	SEDIMENT BASINS RISER AND COLLAR APPURTENANCES
EC-STR-17	08-01-12	SEDIMENT BASIN EMBANKMENT DETAILS

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CONST.	2017	NH-16 (54)	1C

DWG. NO REV. DESCRIPTION

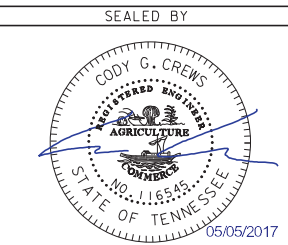
EROSION PREVENTION AND SEDIMENT CONTROL (CONT'D.)

EC-STR-18		SEDIMENT BASIN FLOATING OUTLET STRUCTURE
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
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)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS

DRAINAGE - NATURAL STREAM DESIGN

D-NSD-34	LIVE STAKES AND SILTATION
D-NSD-35	LIVE FASCINES

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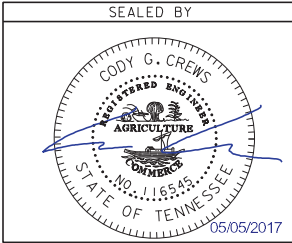
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PROJECT COMMITMENTS			
COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHZ003	ENVIRONMENT	ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS CONDUCTED AT BRIDGE NO. 02SR0160031, SR-16 OVER THOMPSON CREEK, NO ACM WAS DETECTED; HOWEVER, THIS BRIDGE HAS ASSUMED TRANSITE DECK DRAINS. ABATEMENT OF THIS MATERIAL SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. ACM ABATEMENT SHOULD BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATES THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS. PRIOR TO THE DEMOLITION 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 (01/01/15), SECTIONS 107.08 D AND 202.03).	FROM STA. 33+44 TO STA. 34+94 S.R. 16 @ THOMPSON CREEK

**UNOFFICIAL
SET
NOT FOR
BIDDING**



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**PROJECT
COMMITMENTS**

ESTIMATED ROADWAY QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	NO ALT. QUANTITY	ALT."A" QUANTITY	ALT."B" QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1	
	201-01	CLEARING AND GRUBBING	LS	1	
(1)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1	
(3)	202-01.50	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	EACH	4	
(20)	202-06.02	REMOVAL OF BUILDINGS (TRACT NO.60)	LS	1	
(20)	202-06.03	REMOVAL OF BUILDINGS (TRACT NO.61)	LS	1	
(20)	202-06.04	REMOVAL OF BUILDINGS (TRACT NO.64)	LS	1	
(20)	202-06.05	REMOVAL OF BUILDINGS (TRACT NO.72)	LS	1	
	202-06.06	REMOVAL OF BUILDINGS (TRACT NO.86S)	LS	1	
(2)	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	9328	
(21)	202-13	WATER WELL ABANDONMENT	EACH	1	
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1099283	
(30)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	15194	
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	50228	
(32)	203-04.01	PLACING SPREADING SOIL FOR LANDSCAPING	C.Y.	684	
(5)	203-06	WATER	M.G.	1743	4913 4374
	203-50	CONSTRUCTION OF HAUL ROAD	LS	1	
	204-08	FOUNDATION FILL MATERIAL	C.Y.	169	
(25)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	388	
(13)(6)	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	1625	
	209-03.45	STREAM MITIGATION-LIVE FASCINES (SPECIES)	L.F.	3180	
(13)(6)	209-05	SEDIMENT REMOVAL	C.Y.	3179	
	209-06.02	12" COIR LOG (FOR LOW CHANNEL FLOW)	L.F.	400	
(13)(6)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	67620	
(13)(6)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	35090	
(13)(6)	209-08.07	ROCK CHECK DAM	EACH	380	
(13)(6)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	193	
(13)(6)	209-09.01	SANDBAGS	BAG	7705	
(13)(6)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	16	
	209-10.02	8" SKIMMER W/ 6" HEAD	EACH	1	
(13)(6)	209-20.03	POLYETHYLENE SHEETING (6 ML. MINIMUM)	S.Y.	13124	
(13)(6)	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	5	
(13)(6)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	15	
(13)(6)	209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	19	
(13)(6)	209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EACH	14	
(6)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	6373	
(6)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	866	
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	21024	219097 170612
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	4638	
	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	6243	
(6)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	363	
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	937	
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1858	
	307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON		15695 15695
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON		20054 20054
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON		13129 13129
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON		31455
	309-01.02	PORTLAND CEMENT (A-CBC)	TON		1214
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON		101
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	45	262 262
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	179	1039 1039
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	10	100 100
(22)	405-01.01	BITUMINOUS MATERIAL (BSC)	TON	17	
(22)	405-01.02	MINERAL AGGREGATE (BSC)	TON	143	
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	22	
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	368	4442 4442
	411-01.10	ACS MIX (PG64-22) GRADING D	TON	1767	
	411-02.10	ACS MIX (PG70-22) GRADING D	TON		7668 7668
	411-12.01	SCORING SHOULDERS (CONTINUOUS)(16IN WIDTH)	L.M.	5	
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS)(16IN WIDTH)	L.M.	10	
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	7200	
	502-04.01	SAWING CONCRETE PAVEMENT (FULL DEPTH)	L.F.	252	
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	728	
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	154734	
	604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	1203	
	604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	174145	
(23)	604-02.41	ENERGY DISSIPATOR (TYPE USBR VI, 18" PIPE)	EACH	1	
(23)	604-02.42	ENERGY DISSIPATOR (TYPE USBR VI, 24" PIPE)	EACH	1	
(23)	604-02.43	ENERGY DISSIPATOR (TYPE USBR VI, 30" RCP)	EACH	3	
(23)	604-02.44	ENERGY DISSIPATOR (TYPE USBR VI, 36" PIPE)	EACH	3	
(23)	604-02.45	ENERGY DISSIPATOR (TYPE USBR VI, 42" PIPE)	EACH	1	
(23)	604-02.46	ENERGY DISSIPATOR (TYPE USBR VI, 48" PIPE)	EACH	1	
(23)	604-02.47	ENERGY DISSIPATOR (TYPE USBR VI, 54" PIPE)	EACH	1	
(23)	604-02.48	ENERGY DISSIPATOR (TYPE USBR VI, 60" PIPE)	EACH	1	
(21)	604-15.01	PORTLAND CEMENT GROUT	C.Y.	2	

SEE SHEET 2A1 FOR FOOTNOTES

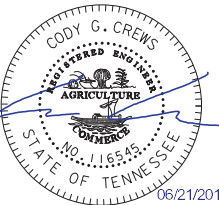
ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F. 1095
	607-03.05	18" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F. 111
	607-03.30	18" PIPE CULVERT	L.F. 586
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F. 426
	607-05.30	24" PIPE CULVERT	L.F. 455
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F. 406
	607-06.05	30" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F. 144
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F. 312
	607-07.05	36" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F. 80
	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F. 130
	607-08.05	42" CONCRETE PIPE CULVERT(CLASS IV) JACKED-IN-PLACE	L.F. 70
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F. 126
	607-11.05	60" CONCRETE PIPE CULVERT (CLASS V)	L.F. 372
	607-13.03	72" CONCRETE PIPE CULVERT (CLASS III)	L.F. 214
	607-16.01	23"X 14" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F. 186
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F. 985
	607-39.04	30" PIPE CULVERT (SIDE DRAIN)	L.F. 27
	611-02.12	JUNCTION BOX, TYPE 3	EACH 1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y. 20
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB. 389
	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH 42
	611-07.32	24IN ENDWALL (SIDEDRAIN)	EACH 11
	611-07.54	18" ENDWALL (CROSS DRAIN) 3:1	EACH 4
	611-07.55	18" ENDWALL (CROSS DRAIN) 4:1	EACH 4
	611-07.56	18" ENDWALL (CROSS DRAIN) 6:1	EACH 4
	611-07.57	24" ENDWALL (CROSS DRAIN) 3:1	EACH 4
	611-07.58	24" ENDWALL (CROSS DRAIN) 4:1	EACH 3
	611-07.59	24" ENDWALL (CROSS DRAIN) 6:1	EACH 1
	611-07.60	30" ENDWALL (CROSS DRAIN) 3:1	EACH 1
	611-07.62	30" ENDWALL (CROSS DRAIN) 6:1	EACH 5
	611-07.63	36" ENDWALL (CROSS DRAIN) 3:1	EACH 2
	611-07.68	42" ENDWALL (CROSS DRAIN) 6:1	EACH 1
	611-07.71	48" ENDWALL (CROSS DRAIN) 6:1	EACH 1
	611-07.73	18" ENDWALL (MEDIAN DRAIN) 12:1	EACH 4
	611-30.01	CATCH BASINS, TYPE 30, 0' - 4' DEPTH	EACH 9
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH 3
	611-39.01	CATCH BASINS, TYPE 39, 0' - 4' DEPTH	EACH 6
	611-39.03	CATCH BASINS, TYPE 39, 8' - 12' DEPTH	EACH 1
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH 2
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F. 2403
	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F. 68
	621-03.04	30" TEMPORARY DRAINAGE PIPE	L.F. 46
	621-03.05	36" TEMPORARY DRAINAGE PIPE	L.F. 140
	621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F. 220
	621-03.09	60" TEMPORARY DRAINAGE PIPE	L.F. 212
	701-02	CONCRETE DRIVEWAY	SF 31530
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F. 54
	705-01.04	METAL BEAM GUARD FENCE	L.F. 19
	705-06.01	SINGLE GUARDRAIL (TYPE 2) (MASH TL-3)	L.F. 10794
	705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH 52
	705-06.10	GR TERMINAL TRAILING END (TYPE 13) MASH TL-3	EACH 23
	705-06.11	GR TERMINAL (IN-LINE) MASH TL-3	EACH 12
	705-06.30	GR TERMINAL (TYPE 21) MASH TL-2	EACH 10
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH 15
(39)	705-11.01	GUARDRAIL AT BRIDGE ENDS (POWDER COATED)	L.F. 54
(39)	705-11.03	SINGLE GUARDRAIL (TYPE 2) (POWDER COATED)	L.F. 613
(39)	705-11.08	GUARDRAIL TERMINAL (TYPE 13) (POWDER COATED)	EACH 1
(39)	705-11.11	TAN ENERGY ABSORB TERMINAL (NCHRP 350, TL 3)(POWDER COATED)	EACH 1
	705-20.23	REUSABLE CRASH CUSHION WIDE (MASH TL-3)	EACH 1
	705-20.25	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH 11
	706-01	GUARDRAIL REMOVED	L.F. 775
	707-06.01	REMOVAL OF FENCE (CHAIN LINK)	L.F. 1472
	707-06.04	REMOVAL AND RESET GATE (METAL STOCK, DRIVE ENT. GATE)	EACH 4
(13)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F. 1000
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH 176

SEE SHEET 2A1 FOR FOOTNOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	2A

REV. 06/21/17
REVISED ITEMS NOS. 705-01.01, 705-06.01, 705-06.10, AND 705-06.20. ADDED ITEMS NOS. 705-11.01, 705-11.03, 705-11.08, AND 705-11.11.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(35)	709-05.05 MACHINED RIF-RAP (CLASS A-3)	TON	1021
(6)(11)	709-05.06 MACHINED RIF-RAP (CLASS A-1)	TON	9620
(24)	709-05.08 MACHINED RIF-RAP (CLASS B)	TON	2600
	709-05.09 MACHINED RIF-RAP (CLASS C)	TON	380
	710-02 AGGREGATE UNDERDRAINS (W TH PIPE)	L.F.	38554
	710-05 LATERAL UNDERDRAIN	L.F.	6169
	710-06.11 LATERAL UNDERDRAIN ENDWALL (2:1)	EACH	4
	710-06.12 LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	21
	710-06.13 LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	30
	710-06.14 LATERAL UNDERDRAIN ENDWALL (5:1)	EACH	1
	710-06.15 LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	124
(12)	712-01 TRAFFIC CONTROL	LS	1
	712-02.02 INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	2496
	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	313
(13)	712-05.01 WARNING LIGHTS (TYPE A)	EACH	79
(13)	712-05.03 WARNING LIGHTS (TYPE C)	EACH	79
(14)	712 06 SIGNS (CONSTRUCTION)	S.F.	1522
	712-06.01 VERTICAL PANELS	S.F.	174
	712-07.03 TEMPORARY BARRICADES (TYPE III)	L.F.	96
	712-08.03 ARROW BOARD (TYPE C)	EACH	4
	713-02.21 SIGN POST DELINEATION ENHANCEMENT	L.F.	960
	713-11.01 "U" SECTION STEEL POSTS	LB.	2249
	713-11.02 PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	3645
	713-13.02 FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	185
	713-13.03 FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	1458
(15)	713-15 REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	4
	713-16.06 DEAD END SIGN AND SUPPORT	EACH	1
	716-01.07 TEMPORARY RAISED PAVEMENT MARKER YELLOW	EACH	180
	716-01.22 SNWPLWBLE PVMT MARKERS (MONO DIR)(1 COLOR LENS)	EACH	38
	716-01.23 SNWPLWBLE PVMT MARKERS (BI DIR)(2 COLOR LENS)	EACH	488
(16)	716-02.04 PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	38
(16)	716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	125
(16)	716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	7
	716-04.14 PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	2
	716-05.01 PAINTED PAVEMENT MARKING (4" LINE)	L.M.	3
	716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	8400
(17)	716-05.05 PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	126
	716-05.20 PAINTED PAVEMENT MARKING (6" LINE)	L.M.	21
(18)	716-08.01 REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	10471
	716-12.02 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	19
	717-01 MOBILIZATION	LS	1
(34)	721-01.03 IRRIGATION SYSTEM	LS	1
(6)	740-10.03 GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	13993
	740-10.04 GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	8127
(6)	740-11.03 TEMPORARY SEDIMENT TUBE 18 IN	L.F.	14122
	801-01 SEEDING (WITH MULCH)	UNIT	3653
(13)(26)	801-01.07 TEMPORARY SEEDING (WITH MULCH)	UNIT	8789
(29)	801-01.16 BONDED FIBER MATRIX HYDROMULCH (W/ PERMANENT SEED)	UNIT	510
	801-01.34 GRASS SEED MIX (RIPZN/FLPL)	UNIT	2
(13)	801-02 SEEDING (WITHOUT MULCH)	UNIT	100
(31)	801-02.01 CROWN VETCH MIXTURE (WITHOUT MULCH)	UNIT	660
(26)	801-02.15 FERTILIZER	TON	88
	801-03 WATER (SEEDING & SODDING)	M.G.	2697
	801-07 SEED (SUPPLEMENTAL APPLICATION)	LB.	822
	801-08 FERTILIZER (SUPPLEMENTAL APPLICATION)	TON	6
	802-01.10 TREES (CANOPY TREE (3" CAL. B&B))	EACH	9
	802-01.11 TREES (MULTI-STEM UNDERSTORY TREE (1-1/2" - 2" CAL. B&B))	EACH	25
	802-01.12 TREES (EVERGREEN TREE - 6'-8' TALL)	EACH	35
(37)	802-03.01 SHRUBS (DECIDUOUS, EVERGREEN, AND LOW BROAD)	EACH	335
(33)	802-06.03 MULCH (3IN SHREDDED PINE BARK MULCH)	C.Y.	171
(36)	802-07.01 FLOWER (PERENNIALS)	EACH	1210
	802-11.04 ACER SACCHARUM (SUGAR MAPLE 2-5 FT CNTNR GRWN)	EACH	43
	802-11.09 CARYA OVATA (SHAGBARK HICKORY 2-5 FT CNTNR GRWN)	EACH	38
	802-11.18 LIQUIDAMBER STYRACIFLUA (SWEETGUM 2-5 FT CNTNR GRWN)	EACH	43
	802-11.26 PLATANUS OCCIDENTALIS (SYCAMORE 2-5 FT CNTNR GRWN)	EACH	41
	802-11.31 QUERCUS FALCATA (SOUTHERN RED OAK 2-5 FT CNTNR GRWN)	EACH	39
	802-12.01 ACER NEGUNDO (BOX ELDER SEEDLING B.R.)	EACH	67
	802-12.18 LIQUIDAMBER STYRACIFLUA (SWEETGUM SEEDLING B.R.)	EACH	71

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	802-12.40 SALIX NIGRA (BLACK WILLOW SEEDLING B.R.)	EACH	62
	803-01 SODDING (NEW SOD)	S.Y.	21235
(38)	805-01.02 TURF REINFORCEMENT MAT (CLASS II)	S.Y.	32759
	805-01.03 TURF REINFORCEMENT MAT (CLASS III)	S.Y.	2527
(13)(6)(27)	805-12.01 EROSION CONTROL BLANKET (TYPE I)	S.Y.	53015
(13)(6)	805-12.02 EROSION CONTROL BLANKET (TYPE II)	S.Y.	33934
(19)	806-02.03 PROJECT MOWING	CYCL	6
(33)	920-10.05 EXTENDED LANDSCAPE MAINTENANCE (5 YEAR)	LS	1

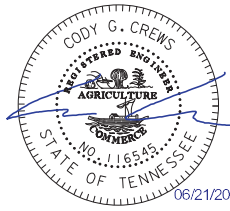
- FOOTNOTES:**
- INCLUDES ALL CROSS DRAINS AND SIDE DRAIN REMOVALS AND THE FOLLOWING: 8'X6' CULVERT @ 427+40, 8'X6' CULVERT @ 455+99, 19'X10' CULVERT @ 461+50, 9.5'X10' CULVERT @ 526+91, AND 8'X6' CULVERT @ 110+00 SHOFNER RD.
 - INCLUDES 6163 S.Y. FOR SR-16 AND 3165 S.Y. FOR SIDE ROADS. REMOVE WHERE PROPOSED SUBGRADE IS BETWEEN 0' AND 2' ABOVE EXISTING PAVEMENT.
 - REMOVE STONE ENTRY AT PVT DR. LT STA.497+00.00 AND 498+85.77.
 - NOT USED.
 - INCLUDES WATER FOR DUST CONTROL.
 - SEE SUBSECTION 209-07 OF THE STANDARD SPECIFICATION FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - QUANTITY INCLUDES 9399 TON OF RIP-RAP FOR EPSC, 151 TON FOR PIPE END TREATMENTS, 70 TON FOR DITCH LININGS. SEE STD. DWG. EC-STR-25.
 - TRAFFIC CONTROL "SEE S.P. 712-B" TRAFFIC CONTROL SUPERVISOR TO BE ON STAFF FULL-TIME. INCLUDED WITH COST OF TRAFFIC CONTROL.
 - TO BE USED AS DIRECTED BY THE ENGINEER.
 - INCLUDES THE INSTALLATION AND MAINTENANCE OF A NEW SIGN PANEL, SHEETING AND SUPPORTS. SEE SPECIAL PROVISION NO. 712F.
 - REMOVE EXISTING SIGN AND SUPPORT (NO FOOTINGS ON THESE SIGNS); ON 30+/- EXISTING SIGNS WITHIN THE PROJECT LIMITS AND 5+/- EXISTING SIGNS OUTSIDE THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER. ALSO INCLUDES REMOVAL AND REPLACEMENT OF HISTORICAL MARKER .
 - THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
 - FOR TRAFFIC CONTROL PAVEMENT MARKING.
 - TO BE USED TO REMOVE ALL EXISTING CONFLICTING MARKINGS PRIOR TO SHIFTING TRAFFIC ON SR-16.
 - 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 806-02.03.
 - BID PRICE INCLUDES ALL SALVAGE VALUE OF MATERIAL . SEE TABULATED QUANTITIES SHEET NO.2U FOR REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK.
 - FOR ABANDONMENT OF WATER WELL 232.8' RT. 497+00.00, TRACT 64. WORK SHALL BE ACCOMPLISHED BY A LICENSED DRILLER.
 - QUANTITY TO BE USED ON LOW SIDE OF SUPERELEVATED SHOULDER BEGIN AT POINT WHERE THE STONE TOUCHES PAVED SHOULDER AND EXTEND OUTWARDLY FROM PAVED SHOULDER TO THE POINT WHERE STONE MEETS THE SUBGRADE TO HELP REDUCE EROSION AS DIRECTED BY THE ENGINEER.
 - SEE ENERGY DISSIPATER DETAILS SHEET.
 - QUANTITY INCLUDES 126 TON FOR CROSS DRAIN END TREATMENTS, 248 TON FOR BOX CULVERT, AND 2226 TON FOR RIPRAP @ BRIDGES.
 - QUANTITY FOR FILLING EXISTING AND TEMPORARY PIPE CULVERT WHEN PROPOSED DRAINAGE IS COMPLETED. INCLUDES 20 C.Y. FOR UNDERDRAINS.
 - INCLUDES 3 APPLICATIONS.
 - INCLUDES 10611 S.Y. FOR TEMPORARY CROSS OVERS AND 2000 S.Y. AS DIRECTED BY THE ENGINEER.
 - CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS CR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
 - TO BE USED ON 1.5:1 SLOPES AS DIRECTED BY THE ENGINEER.
 - FOR ROCK PADS AND BUTTRESS.
 - TO BE USED ON 3:1 SLOPES AND UP TO 1.5:1 SLOPES.
 - FOR MEDIAN PLANTING BED PREPARATION.
 - FOR MEDIAN PLANTING AREA.
 - ITEM TO INCLUDE LABOR AND MATERIALS REQUIRED TO CONNECT TO THE PROPOSED BEDFORD COUNTY UTILITY DISTRICT WATER LINE AND PROVIDE 18,500 S.F. OF IRRIGATION COVERAGE FOR THE LANDSCAPED MEDIAN.
 - INCLUDES 20.25 TONS FOR MEDIAN PLANTING AREA.
 - PERENNIALS FOR MEDIAN PLANTING AREA SHALL BE #1 CONTAINERS.
 - INCLUDES DECIDUOUS SHRUB (8'-12' TALL), EVERGREEN SHRUB (5'-8' TALL), DECIDUOUS SHRUB (5'-8' TALL), AND LOW-BROAD SHRUB (3' TALL MAX).
 - INCLUDES 525 S.Y. FOR STR-5A.
 - ALL GUARDRAIL AND HARDWARE SHALL BE MASH TL 3 COMPLIANT, POWDER COATED BROWN.

FOOTNOTE NUMBERS (4), (7), (8), (9) AND (10) ARE NOT USED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	2A1

REV. 06/21/17
REVISED ITEMS NOS. 802-11.04 THROUGH 802-12.40 AND ITEM NO. 805-01.02. REVISED FOOTNOTE #34. ADDED FOOTNOTE #38 AS PER EB UPDATES AND ADDED FOOTNOTE #39.

**UNOFFICIAL
SET
NOT FOR
BIDDING**



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**ESTIMATED
ROADWAY
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	2P

- (39) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE ROADWAY DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1300, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.
- (40) 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.
- (41) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- (42) 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.
- (43) 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.
- (44) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

- (45) 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.
- (46) 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.
- (47) 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.
- (48) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (49) 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.
- (50) 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.

- (51) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (52) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

**EROSION PREVENTION AND SEDIMENT CONTROL NOTES
NATURAL RESOURCES**

- (53) 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.
- (54) 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.
- (55) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (56) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, SHALL BE ONLY AS DEPICTED ON THE CONSTRUCTION PLANS AND/OR AS SO SPECIFIED IN THE WATER QUALITY PERMITS, IF APPLICABLE. ANY DISCREPANCIES BETWEEN PLANS AND PERMITS SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT RESPONSIBLE PARTY AS SOON AS POSSIBLE. ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AFTER RECEIVING THE APPROVAL OF THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION.
- (57) 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.
- (58) 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.
- (59) 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.
- (60) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- (61) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE ALL CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G. STREAMS, WETLANDS SPRINGS, ETC.) ARE NOT IMPACTED BEYOND THE 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

- (62) 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.
- (63) 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)
- (64) 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

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

PERMITS, PLANS & RECORDS

- (66) 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 AREAS).
 - (67) 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.
 - (68) 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.
 - (69) 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.
 - (70) 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**
- (71) 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.

**UNOFFICIAL
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NOT FOR
BIDDING**



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**GENERAL
NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	20

- (72) 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.
- (73) 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.
- (74) 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.
- (75) 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.
- (76) 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.
- (77) 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.
- (78) 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.
- (79) 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.
- (80) 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.
- (81) 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.
- (82) 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

- (83) 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.

SPECIAL NOTES

GRADING

- (84) 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.
- (85) 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.
- (86) 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.
- (87) 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.
- (88) 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

- (89) 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 HAZARDOUSE MATERIAL OFFICE IN SCHEDULING A SURVEY.
- (90) 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.
- (91) 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

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

- (93) 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.
- (94) 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.

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

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

ECOLOGY

- (96) 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.
- (97) 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.
- (98) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

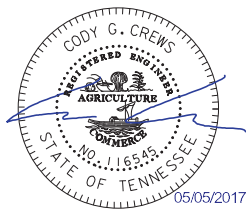
PROJECT COMMITMENTS

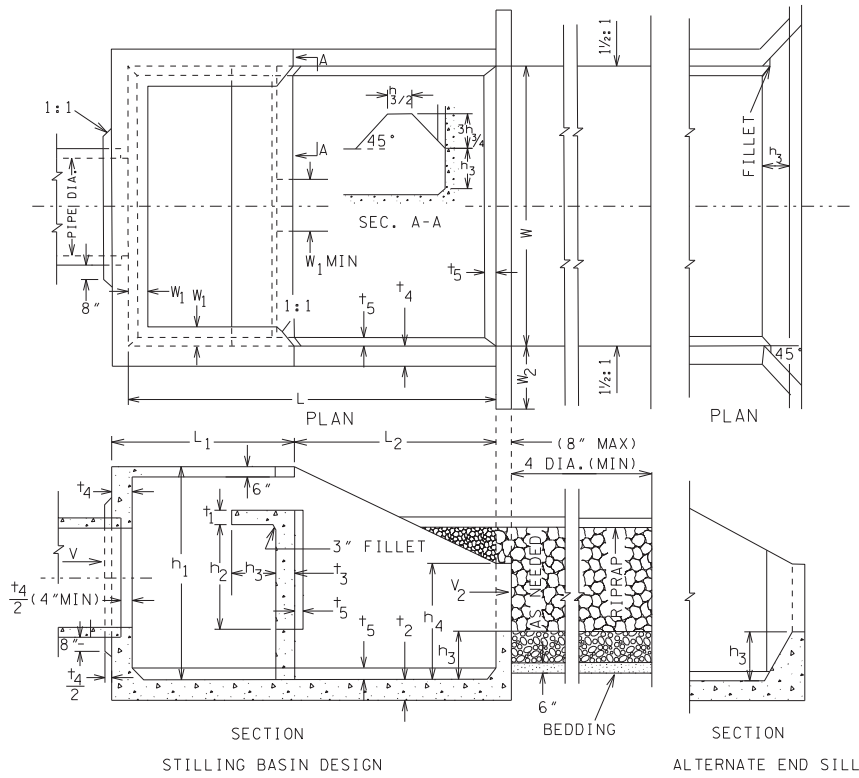
- (99) SEE PROJECT COMMITMENTS, SHEET 1D, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

SPECIAL PROJECT NOTES

- (100) THE CONTRACTOR SHALL COMPLETE THE WORK WITHIN THE DESIGNATED WORK ZONE (WHERE PRACTICAL) AS INDICATED ON THE PHASING PLAN AND PRIOR TO THE STARTING OF ANOTHER PHASE. THE CONTRACTOR SHALL HAVE ACCESS TO ALL WORK ZONES WITHIN THE PROJECT AREA AT ANY GIVEN TIME FOR THE PURPOSE OF STORING EQUIPMENT, STORING MATERIALS, STOCKPILING EARTHWORK, EXCAVATING AND/OR PLACEMENT OF MATERIAL AS NECESSARY FOR A SINGLE PHASE COMPLETION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES NEEDED IN EPSC AND TEMPORARY SIGNING WITHIN ANY SUB-PHASE OF THE PROJECT AND TO INCLUDE ADDITIONAL WORK ZONE(S) OR CONSTRUCTION STAGING AREAS NOT SHOWN ON THE PHASING PLANS.
- (101) CONSTRUCTION PHASING MUST BE PHASED WITHIN WORK ZONES TO KEEP THE TOTAL DISTURBED AREA LESS THAN 50 ACRES AT ANY ONE TIME. AREAS OF THE COMPLETED PHASE MUST BE STABILIZED WITHIN 14 DAYS. THIS INCLUDES OFF-SITE BORROW OR DISPOSAL AREAS.
- (102) THE PROPOSED SEDIMENT BASIN LOCATED AT APPROXIMATE STA. 430+00 RT. SHALL BE CONSTRUCTED DURING PHASE 1 CONSTRUCTION. THE BASIN SHALL BE LEFT IN-PLACE FOR A MINIMUM OF SIX MONTHS SO THAT RESEARCH CAN BE CONDUCTED BY THE UNIVERSITY OF TENNESSEE REGARDING EPSC. THE ROADWAY CONSTRUCTION WITHIN THE BASIN AREA SHALL BE COMPLETED JUST PRIOR TO THE SHIFTING OF TRAFFIC FOR PHASE 2 CONSTRUCTION. SEE EPSC PLANS FOR BASIN DETAILS AND ADDITIONAL NOTES

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BAFFLE--WALL ENERGY DISSIPATOR -- USBR TYPE VI

INTERNAL ENERGY DISSIPATOR 8'X8' BOX CULVERT STA. 526+83.08	
TYPE	INCREASED RESISTANCE ELEMENTS
DISTANCE TO FIRST ELEMENT	2.500 ft.
DISTANCE BETWEEN ELEMENTS	5.000 ft.
NUMBER OF ROWS	9
"H"	0.500 ft.
"W"	0.333 ft.
GAP	0.250 ft.

INTERNAL ENERGY DISSIPATOR 8'X6' BOX CULVERT STA. 456+00.37	
TYPE	INCREASED RESISTANCE ELEMENTS
DISTANCE TO FIRST ELEMENT	1.670 ft.
DISTANCE BETWEEN ELEMENTS	3.330 ft.
NUMBER OF ROWS	14
"H"	0.333 ft.
"W"	0.333 ft.
GAP	0.250 ft.

INTERNAL ENERGY DISSIPATOR 8'X6' BOX CULVERT STA. 427+49.73	
TYPE	INCREASED RESISTANCE ELEMENTS
DISTANCE TO FIRST ELEMENT	2.000 ft.
DISTANCE BETWEEN ELEMENTS	4.250 ft.
NUMBER OF ROWS	18
"H"	0.414 ft.
"W"	0.333 ft.
GAP	0.250 ft.

SEE TDOT STANDARD DRAWING STD-17-34 FOR
INTERNAL ENERGY DISSIPATOR DETAILS

60" RCP ENERGY DISSIPATOR OUTLET STA. 492+16.30 ITEM NO. 604-02.48		
W = 12.000 ft	W1 = 0.917 ft	W2 = 3.000 ft
L = 16.000 ft	L1 = 6.833 ft	L2 = 9.167 ft
H1 = 9.167 ft	H2 = 4.500 ft	H3 = 2.000 ft
H4 = 5.000 ft	T1 = 0.667 ft	T2 = 0.833 ft
T3 = 0.833 ft	T4 = 0.750 ft	T5 = 0.333 ft

30" RCP ENERGY DISSIPATOR OUTLET STA. 505+55.75 ITEM NO. 604-02.43		
W = 6.000 ft	W1 = 0.500 ft	W2 = 1.667 ft
L = 8.000 ft	L1 = 3.417 ft	L2 = 4.583 ft
H1 = 4.583 ft	H2 = 2.250 ft	H3 = 1.000 ft
H4 = 2.500 ft	T1 = 0.500 ft	T2 = 0.500 ft
T3 = 0.500 ft	T4 = 0.500 ft	T5 = 0.250 ft

30" RCP ENERGY DISSIPATOR OUTLET STA. 512+24.91 ITEM NO. 604-02.43		
W = 6.000 ft	W1 = 0.500 ft	W2 = 1.667 ft
L = 8.000 ft	L1 = 3.417 ft	L2 = 4.583 ft
H1 = 4.583 ft	H2 = 2.250 ft	H3 = 1.000 ft
H4 = 2.500 ft	T1 = 0.500 ft	T2 = 0.500 ft
T3 = 0.500 ft	T4 = 0.500 ft	T5 = 0.250 ft

36" RCP ENERGY DISSIPATOR OUTLET STA. 519+80.00 ITEM NO. 604-02.44		
W = 8.000 ft	W1 = 0.583 ft	W2 = 2.167 ft
L = 10.667 ft	L1 = 4.583 ft	L2 = 6.167 ft
H1 = 6.167 ft	H2 = 3.000 ft	H3 = 1.333 ft
H4 = 3.333 ft	T1 = 0.500 ft	T2 = 0.583 ft
T3 = 0.583 ft	T4 = 0.500 ft	T5 = 0.250 ft

48" RCP ENERGY DISSIPATOR OUTLET STA. 532+44.49 ITEM NO. 604-02.46		
W = 10.000 ft	W1 = 0.750 ft	W2 = 2.750 ft
L = 13.417 ft	L1 = 5.750 ft	L2 = 7.667 ft
H1 = 7.667 ft	H2 = 3.750 ft	H3 = 1.667 ft
H4 = 4.167 ft	T1 = 0.667 ft	T2 = 0.667 ft
T3 = 0.750 ft	T4 = 0.667 ft	T5 = 0.250 ft

18" RCP ENERGY DISSIPATOR OUTLET STA. 580+32.28 ITEM NO. 604-02.41		
W = 5.000 ft	W1 = 0.417 ft	W2 = 1.417 ft
L = 6.667 ft	L1 = 2.917 ft	L2 = 3.833 ft
H1 = 3.833 ft	H2 = 1.917 ft	H3 = 0.833 ft
H4 = 2.083 ft	T1 = 0.500 ft	T2 = 0.500 ft
T3 = 0.500 ft	T4 = 0.500 ft	T5 = 0.250 ft

36" RCP ENERGY DISSIPATOR OUTLET STA. 584+18.55 ITEM NO. 604-02.44		
W = 7.000 ft	W1 = 0.500 ft	W2 = 1.917 ft
L = 9.417 ft	L1 = 4.000 ft	L2 = 5.417 ft
H1 = 5.417 ft	H2 = 2.583 ft	H3 = 1.667 ft
H4 = 2.917 ft	T1 = 0.500 ft	T2 = 0.500 ft
T3 = 0.500 ft	T4 = 0.500 ft	T5 = 0.250 ft

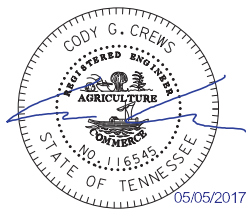
42" RCP ENERGY DISSIPATOR OUTLET STA. 590+40.19 ITEM NO. 604-02.45		
W = 10.000 ft	W1 = 0.750 ft	W2 = 2.750 ft
L = 13.417 ft	L1 = 5.750 ft	L2 = 7.667 ft
H1 = 7.667 ft	H2 = 3.750 ft	H3 = 1.667 ft
H4 = 4.167 ft	T1 = 0.667 ft	T2 = 0.667 ft
T3 = 0.750 ft	T4 = 0.667 ft	T5 = 0.250 ft

24" RCP ENERGY DISSIPATOR OUTLET STA. 598+43.52 ITEM NO. 604-02.42		
W = 5.000 ft	W1 = 0.417 ft	W2 = 1.417 ft
L = 6.667 ft	L1 = 2.917 ft	L2 = 3.833 ft
H1 = 3.833 ft	H2 = 1.917 ft	H3 = 0.833 ft
H4 = 2.083 ft	T1 = 0.500 ft	T2 = 0.500 ft
T3 = 0.500 ft	T4 = 0.500 ft	T5 = 0.250 ft

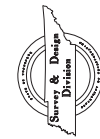
36" RCP ENERGY DISSIPATOR OUTLET STA. 133+15.94 WHITE SIDE HILL ITEM NO. 604-02.44		
W = 7.000 ft	W1 = 0.500 ft	W2 = 1.917 ft
L = 9.417 ft	L1 = 4.000 ft	L2 = 5.417 ft
H1 = 5.417 ft	H2 = 2.583 ft	H3 = 1.667 ft
H4 = 2.917 ft	T1 = 0.500 ft	T2 = 0.500 ft
T3 = 0.500 ft	T4 = 0.500 ft	T5 = 0.250 ft

30" RCP ENERGY DISSIPATOR OUTLET STA. 97+22.32 NORMANDY ROAD ITEM NO. 604-02.43		
W = 7.000 ft	W1 = 0.500 ft	W2 = 1.917 ft
L = 9.417 ft	L1 = 4.000 ft	L2 = 5.417 ft
H1 = 5.417 ft	H2 = 2.583 ft	H3 = 1.667 ft
H4 = 2.917 ft	T1 = 0.500 ft	T2 = 0.500 ft
T3 = 0.500 ft	T4 = 0.500 ft	T5 = 0.250 ft

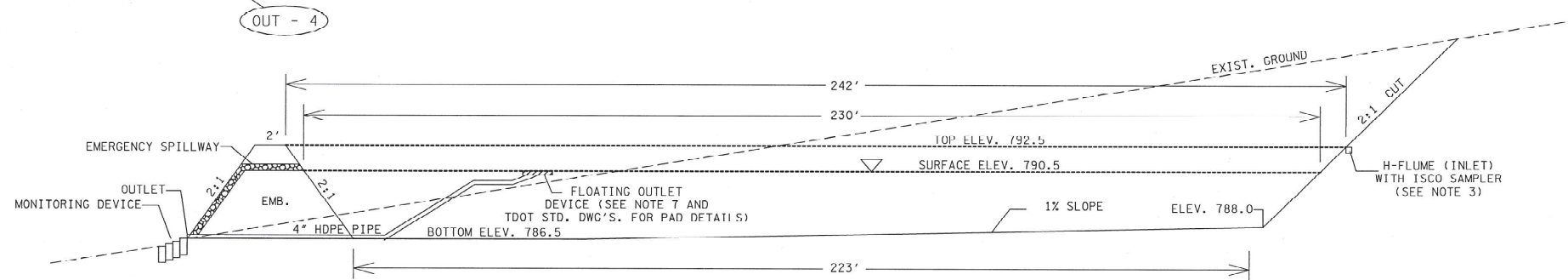
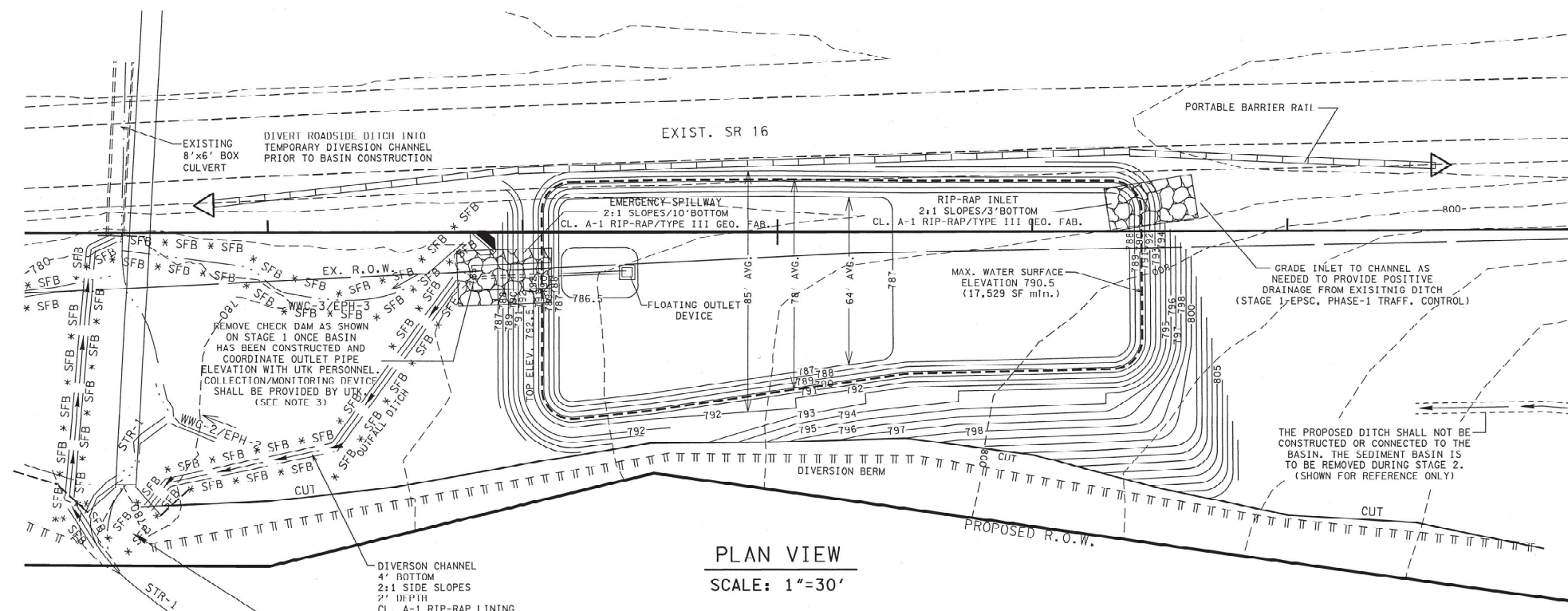
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**ENERGY
DISSIPATOR
DETAILS**
SCALE: N/A



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	2X



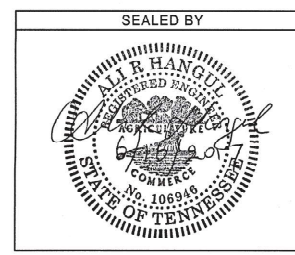
BASIN ELEVATION SECTION
N.T.S.

SEDIMENT BASIN (429+50 TO 432+00)

NOTES:

- ① SIZE AND VOLUME OF SEDIMENT BASIN PROVIDED BY UTK AND MODIFIED TO FIT EXISTING CONDITIONS.
- ② SEDIMENT BASIN SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBERS:

203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) PER C.Y.
209-05	SEDIMENT REMOVAL PER C.Y.
209-10.02	8" SKIMMER WITH 6" HEAD PER EACH
709-05.06	MACHINED RIP-RAP (CLASS A-1) PER TON
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL) PER S.Y.
801-01.07	TEMPORARY SEEDING (WITH MULCH) PER UNIT
- ③ COLLECTION/MONITORING DEVICE SYSTEM AND INLET H-FLUME TO BE PROVIDED BY UTK AND INSTALLED BY CONTRACTOR. COST OF INSTALLATION TO BE INCLUDED IN COST OF OTHER ITEMS.
- ④ SEE TDOT STANDARD DRAWINGS EC-STR-15 THROUGH EC-STR-18 FOR ADDITIONAL DETAILS.
- ⑤ THE EXPOSED SLOPES OF THE SEDIMENT BASIN SHOULD BE STABILIZED WITH TEMPORARY SEEDING WITH MULCH OR OTHER STABILIZATION METHODS.
- ⑥ PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR THE CONSTRUCTION, MAINTENANCE AND REMOVAL OF THE SEDIMENT BASIN.
- ⑦ PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR THE CONSTRUCTION, MAINTENANCE AND REMOVAL OF FLOATING OUTLET STRUCTURE AND PRINCIPAL SPILLWAY OUTLET PIPE, INCLUDING REPLACEMENT OF THE STONE PAD AS NECESSARY.
- ⑧ SEDIMENT BASIN DESIGN CALCULATIONS ARE AVAILABLE UPON REQUEST FROM THE UNIVERSITY OF TENNESSEE AT KNOXVILLE THROUGH THE TDOT PROJECT MANAGER.

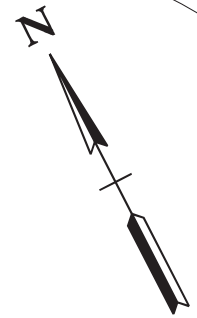


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

UT
SEDIMENT
BASIN
RESEARCH
DETAIL

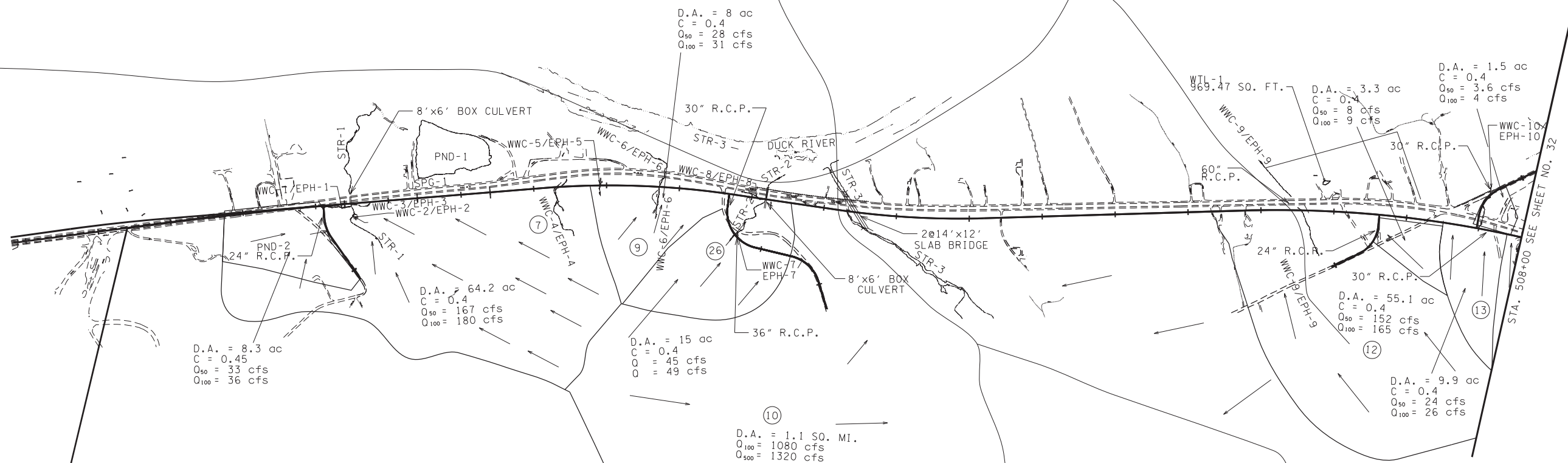
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	42
CONST.	2017	NH-16 (54)	31

REV. 2/15/13
UPDATED ENVIRONMENTAL FEATURES.
ADDED STR-4.5, WWC-5, WWC-6,
WWC-7, WWC-8, WWC-9, WWC-10,
WWC-11, WWC-13 AND SPG-1.
CHANGED WWC-2 TO WWC-12.



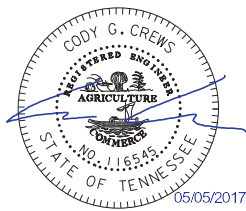
450+00

500+00



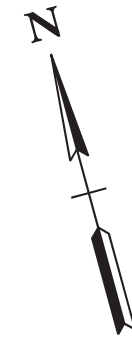
BEGIN PROJ. NO. NH-16(54) (CONST.)
STA. 200+00.00 S.R. 16 EASTERN TIE=
S.P. 02005-(1242)-14
STA. 412+00.00 & S.R. 16 (US 41A)
OFF. 2.53' RT.
N 412465.0425
E 1858557.9384

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**DRAINAGE
MAP**
B.O.P. TO STA. 508+00
SCALE: 1" = 400'

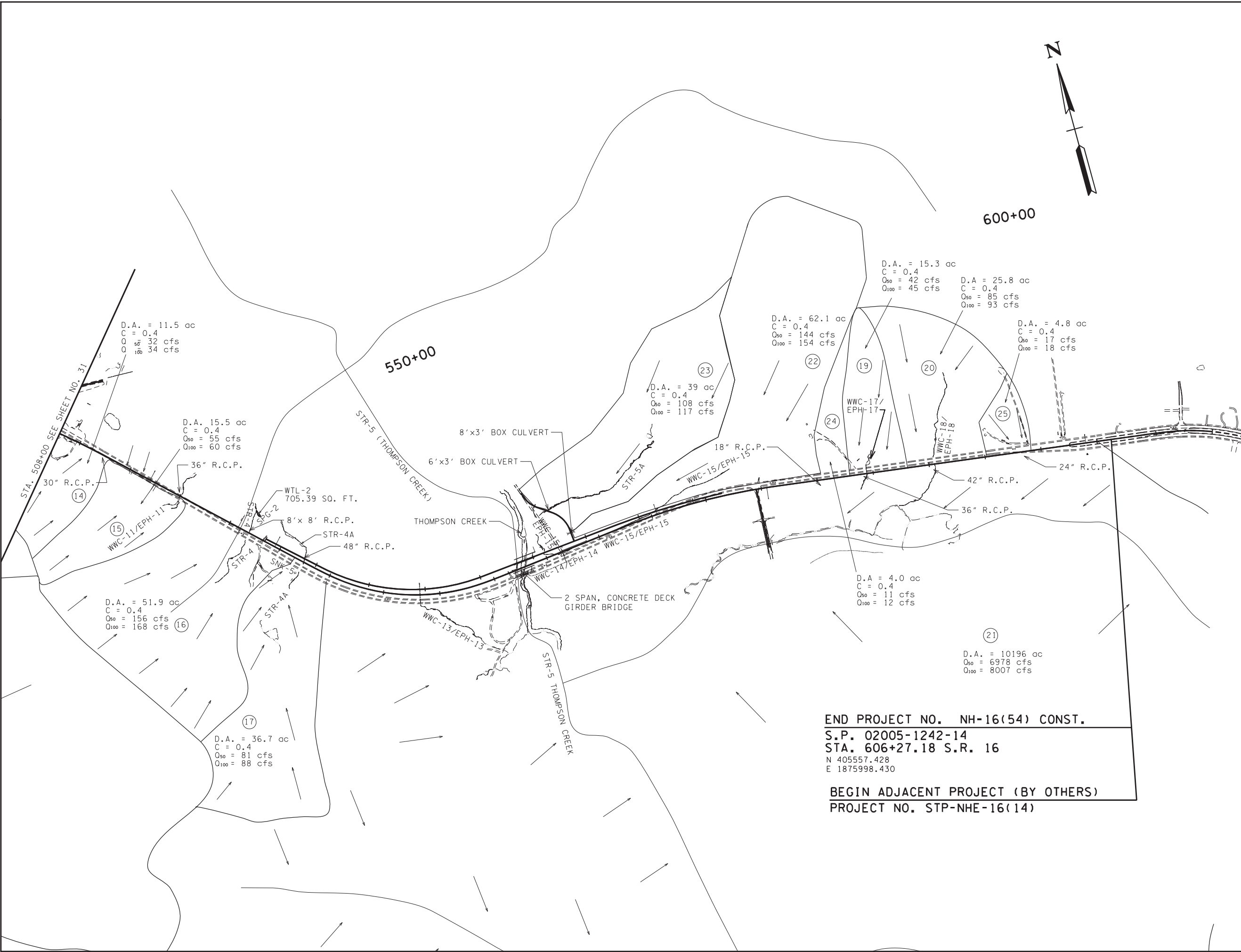
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	43
CONST.	2017	NH-16 (54)	32



REV. 01/20/10
MOVED 54" CULVERT FROM STA. 526+99.77 TO STA. 526+83.07 DUE TO ENVIRONMENTAL COMMENTS.

REV. 2/15/13
UPDATED ENVIRONMENTAL FEATURES. ADDED WWC-14, CHANGED STR-6A TO STR-6.5, CHANGED SPG-1 TO SPG-2, CHANGED WWC-3 TO STR-7, CHANGED WWC-4 TO WWC-15, CHANGED WWC-5 TO WWC-18, CHANGED WWC-6 TO WWC-19, CHANGED STR-7 TO STR-8, ADDED WWC-16, WWC-17, WWC-17.5, SNK-6, AND SNK-7

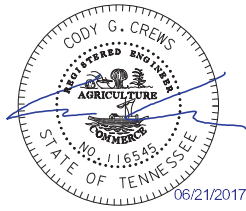
REV. 06/21/17
CHANGED WWC-16/EPH-16 TO STR-5A AND CHANGED WWC-12/EPH12 TO STR-4A AS PER EB UPDATES.



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Q:\21009\T02\BDSR632.sht



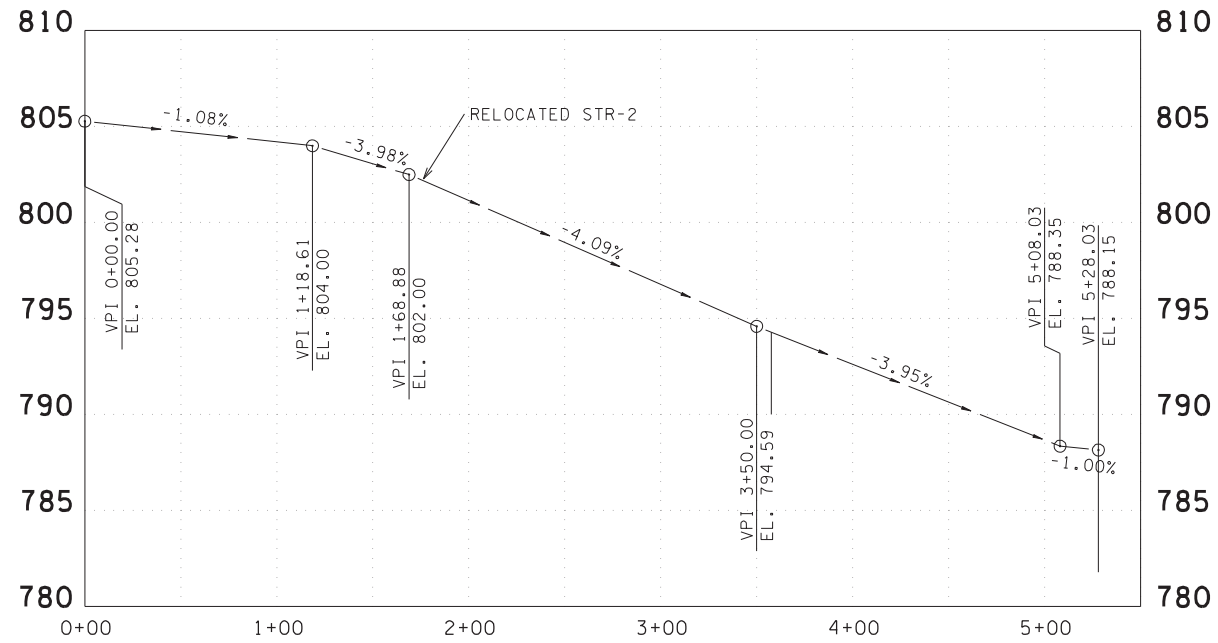
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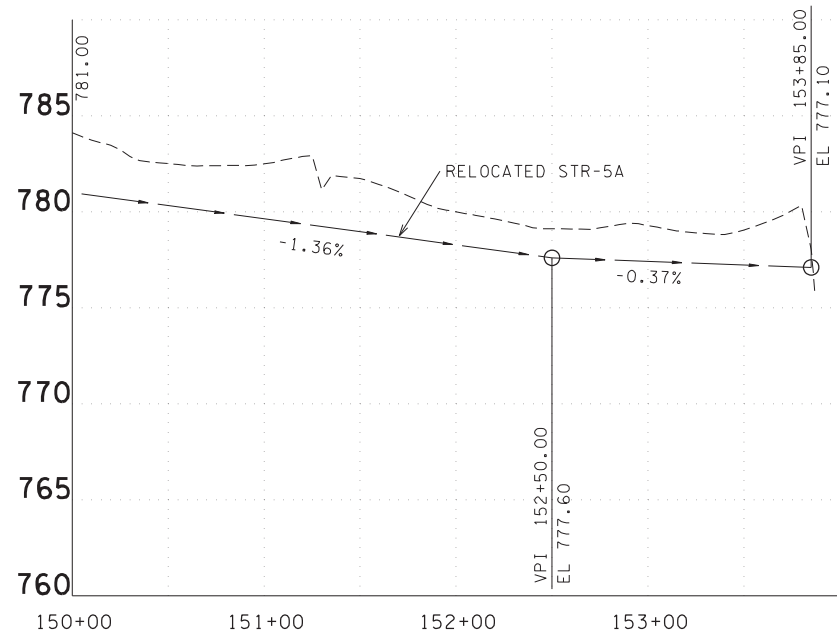
END PROJECT NO. NH-16(54) CONST.
S.P. 02005-1242-14
STA. 606+27.18 S.R. 16
N 405557.428
E 1875998.430
BEGIN ADJACENT PROJECT (BY OTHERS)
PROJECT NO. STP-NHE-16(14)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
DRAINAGE MAP
STA. 508+00 TO E.O.P.
SCALE: 1" = 400'

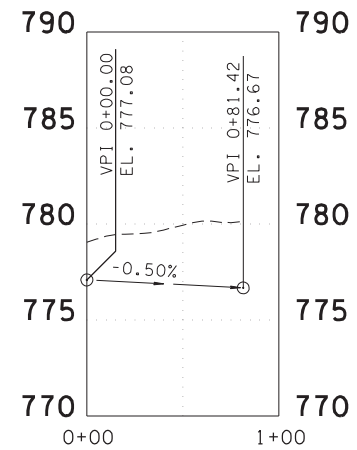
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	44
CONST.	2017	NH-16 (54)	33



PROPOSED RELOCATED STR-2
STA. 133+08 LT. WHITESIDE RD.
TO
STA. 455+98.93 RT. S.R.16



PROPOSED RELOCATED STR-5A
STA. 554+70.32 TO 558+57.94 LT.



PROPOSED SPECIAL "V" DITCH
STA. 555+41.11 TO 555+51.89 RT.

REV. 1/18/08
REVISED DITCH STA. 367+19.39
TO STA. 370+91.78.

REV. 9/06/11
ADDED DITCH STA. 555+41.11
TO STA. 555+51.89.

REV. 2/15/13
CHANGED SP. DITCH STA. 454+53.09
TO 455+98.60 RT FROM 3' "T" TO 4' "T"
ADDED STR-2 AND STR-4.5 LABEL.

REV. 06/21/17
REVISED SPECIAL 3' "T" DITCH TO
BE STR-5A.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

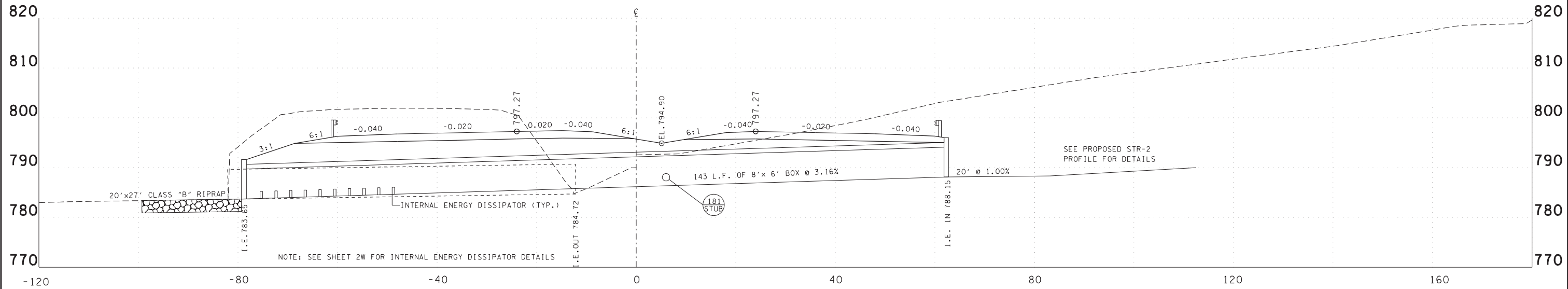
SPECIAL
DITCH
PROFILES

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	47
CONST.	2017	NH-16 (54)	34

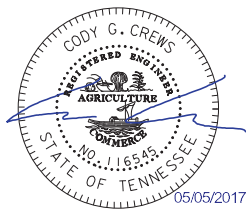
REVISION 09/06/11
ADDED CROSS DRAIN STA. 404+50.00.
REMOVED CROSS DRAIN STA. 432+60.00.



S.R. 16
456+00.37

STATION	456+00.37	STR-2
STRUCTURE	143' OF 8' X 6' BOX CULVERT	
	70' OF EX. 8' X 6' ARCH CULVERT (TO BE REMOVED)	
SKEW	90 DEGREE	
DRAINAGE AREA	23 AC.	
DESIGN DISCHARGE (050)	82 CFS	
DESIGN DISCHARGE (0100)	88 CFS	
OVERTOPPING ELEV.	796.31	
ALLOWABLE HEADWATER ELEV.	794.81	
050 HEADWATER ELEV.	790.36	
0100 HEADWATER ELEV.	790.47	
VELOCITY (050)	7.00 FT/S	
VELOCITY (0100)	7.16 FT/S	
INLET ELEVATION	788.15	
OUTLET ELEVATION	783.65	
STANDARD DRAWING NUMBERS	STD-17-7, STD-17-10, STD-17-11, STD-17-17, STD-17-34, STD-17-53	
CLASS "A" CONCRETE	138 C.Y.	
STEEL BAR REINFORCING	31055 LB.	
FOUNDATION FILL MATERIAL	36 C.Y.	
BACKFILLING	1080 TON	

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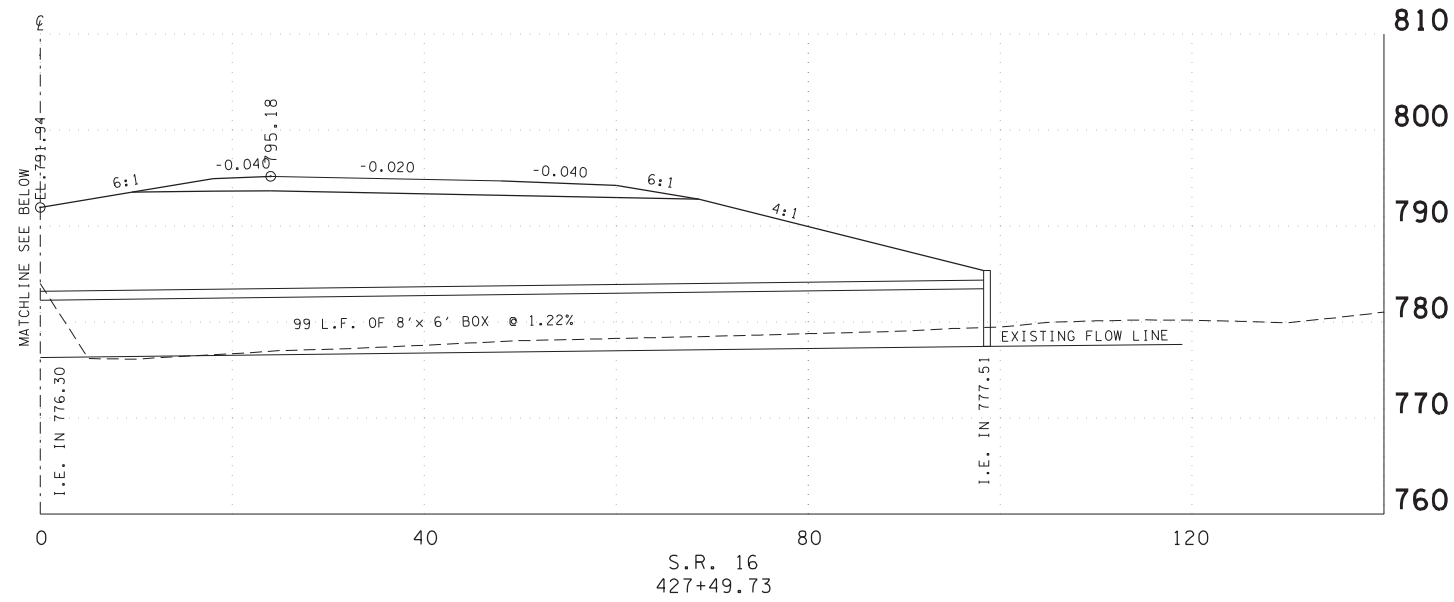
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

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

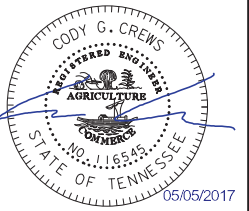
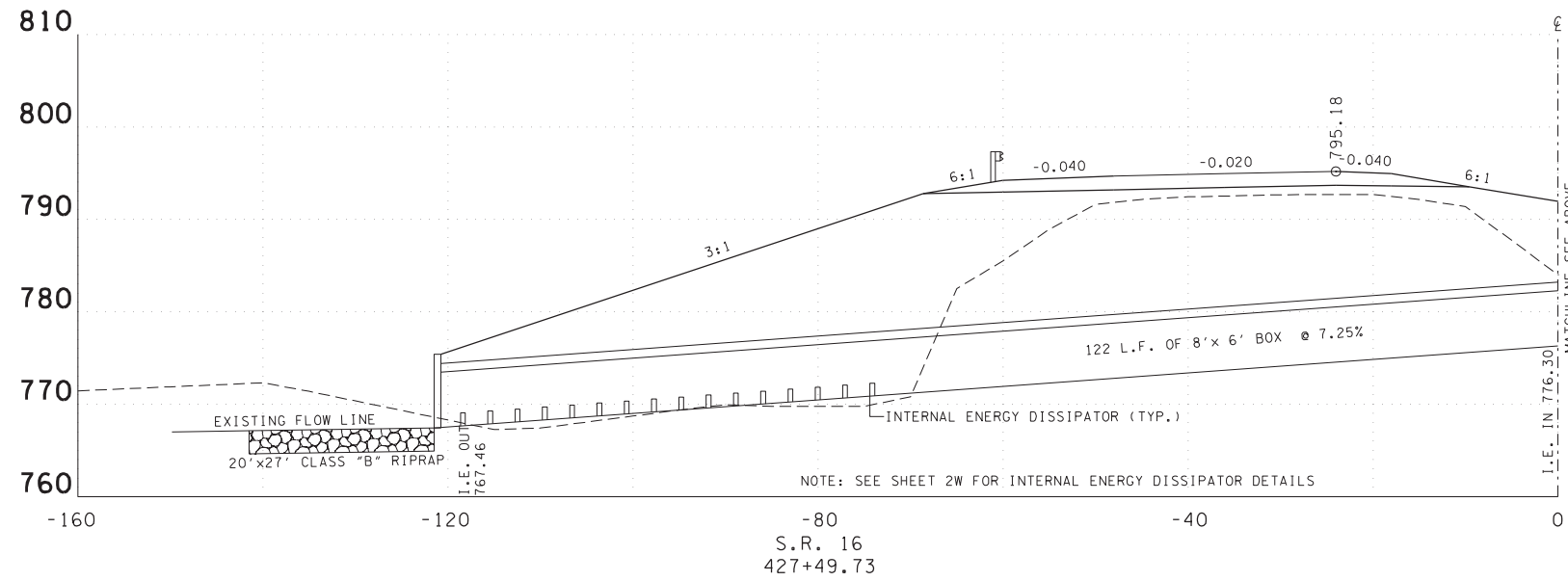


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	48
CONST.	2017	NH-16 (54)	35



STATION	427+49.73 (STR-1)
STRUCTURE	221' OF 8' X 6' BOX CULVERT 68' OF EX. 8' X 6' ARCH CULVERT (TO BE REMOVED)
SKEW	86.6°RT
DRAINAGE AREA	64.2 AC.
DESIGN DISCHARGE (Q50)	167 CFS
DESIGN DISCHARGE (Q100)	180 CFS
OVERTOPPING ELEV.	794.45
ALLOWABLE HEADWATER ELEV.	792.95
Q50 HEADWATER ELEV.	781.05
Q100 HEADWATER ELEV.	781.24
VELOCITY (Q50)	9.92 FT/S
VELOCITY (Q100)	10.15 FT/S
INLET ELEVATION	777.51
OUTLET ELEVATION	767.46
STANDARD DRAWING NUMBERS	STD-17-7, STD-17-10, STD-17-11, STD-17-17, STD-17-34, STD-17-53
CLASS "A" CONCRETE	225 C.Y.
STEEL BAR REINFORCING	48722 LB.
FOUNDATION FILL MATERIAL	55 C.Y.
BACKFILLING	1647 TON

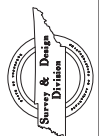
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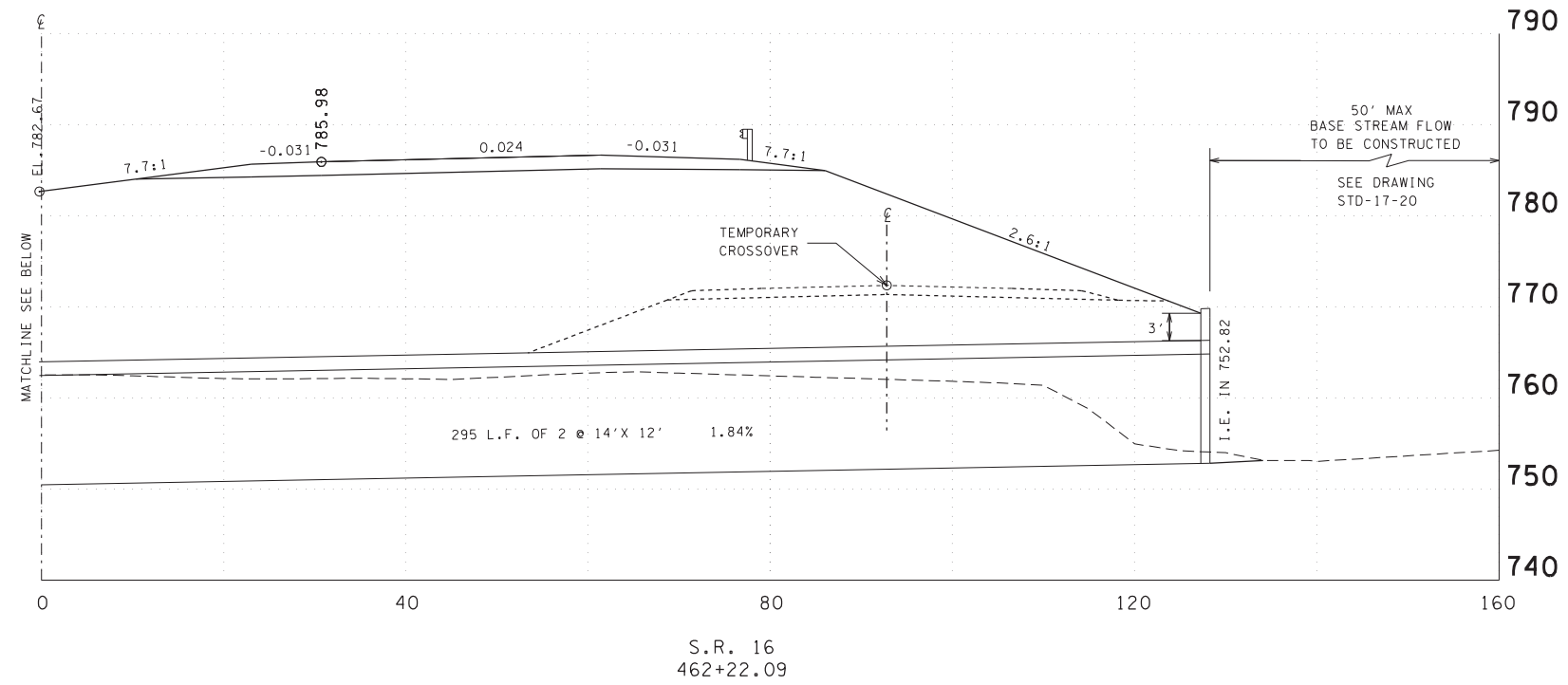
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
SECTIONS**

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

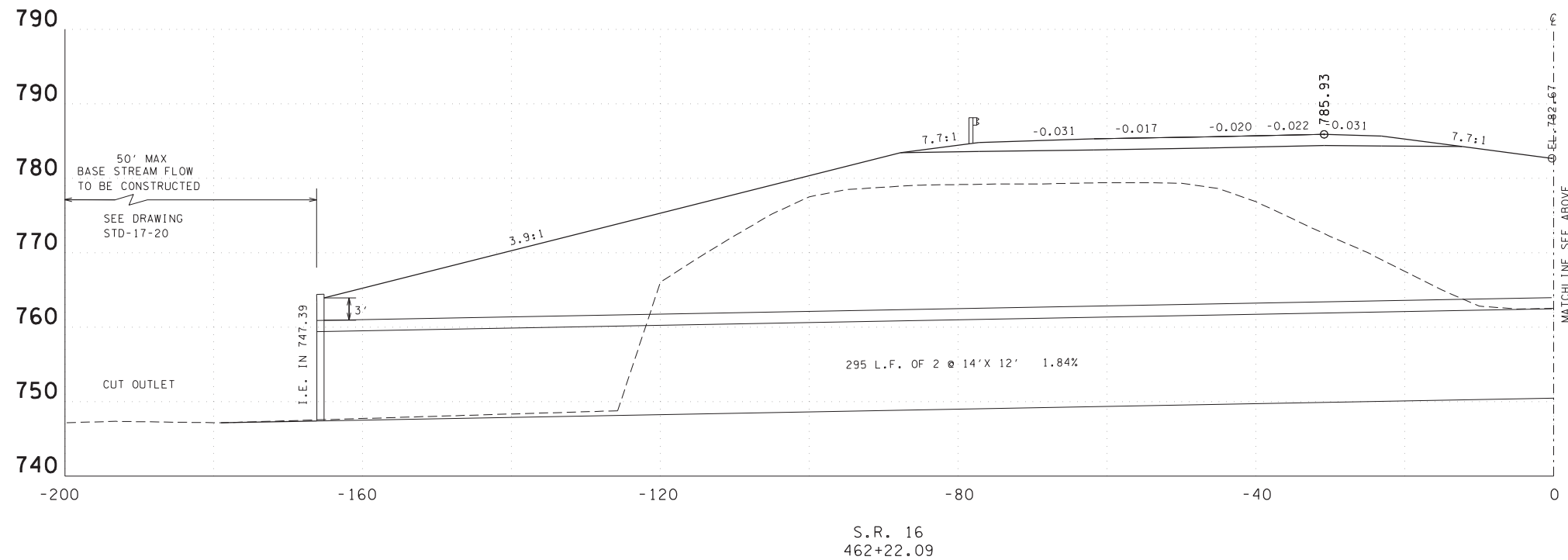


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	49
CONST.	2017	NH-16 (54)	36



STATION	462+22.09 (STR-3)
STRUCTURE	2 @ 14' X 12' 295' SLAB BRIDGE
SKREW	45' RT
DRAINAGE AREA	1.1 SQ. MI.
DESIGN DISCHARGE (0100)	1080 CFS
0100 BACKWATER	0.04 ft. at EL. 758.83
0100 VELOCITY	10.75 ft/s
DESIGN DISCHARGE (0500)	1320 cfs at EL. 759.42
OVERTOPPING ELEV.	786.50
ALLOWABLE HEADWATER ELEV.	782.00
INLET ELEVATION	752.82
OUTLET ELEVATION	747.39
STANDARD DRAWING NUMBERS	STD-17-7, 10, 14, 17, & 114 STD-17-20
CLASS "A" CONCRETE	1203 C.Y.
STEEL BAR REINFORCING	174145 LB.
BACKFILLING	6243 TON

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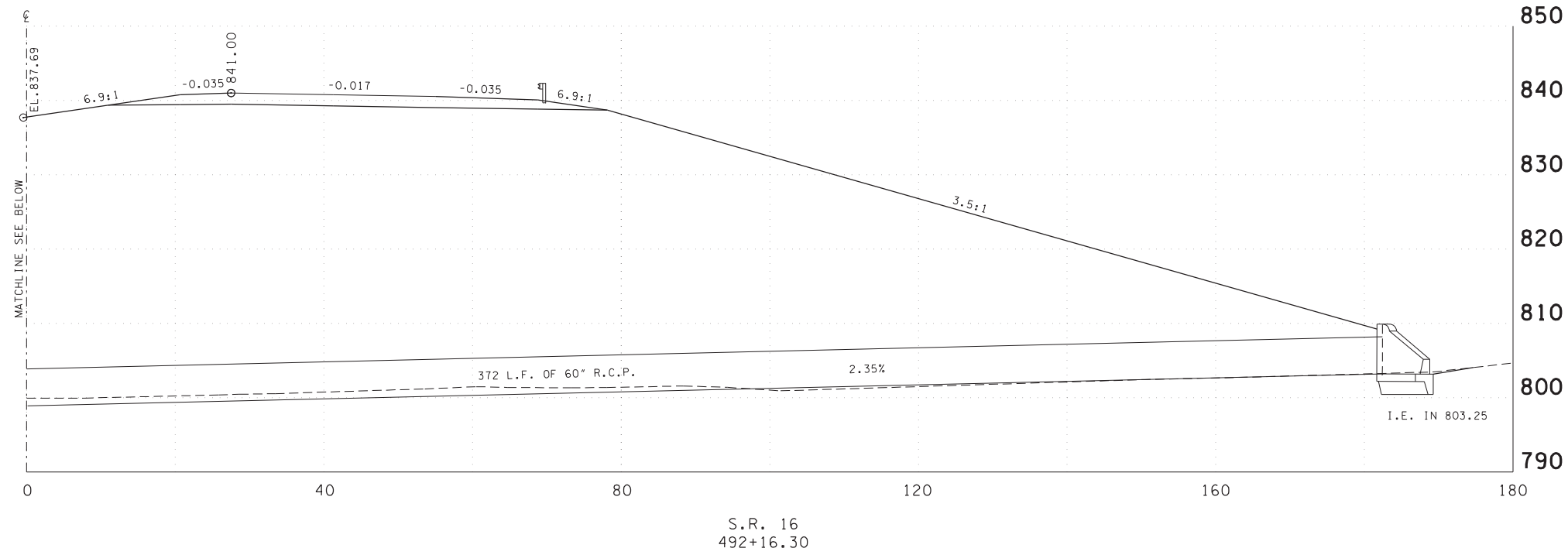
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
SECTIONS**

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

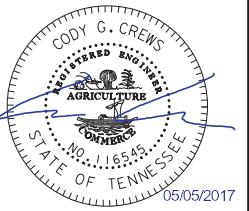
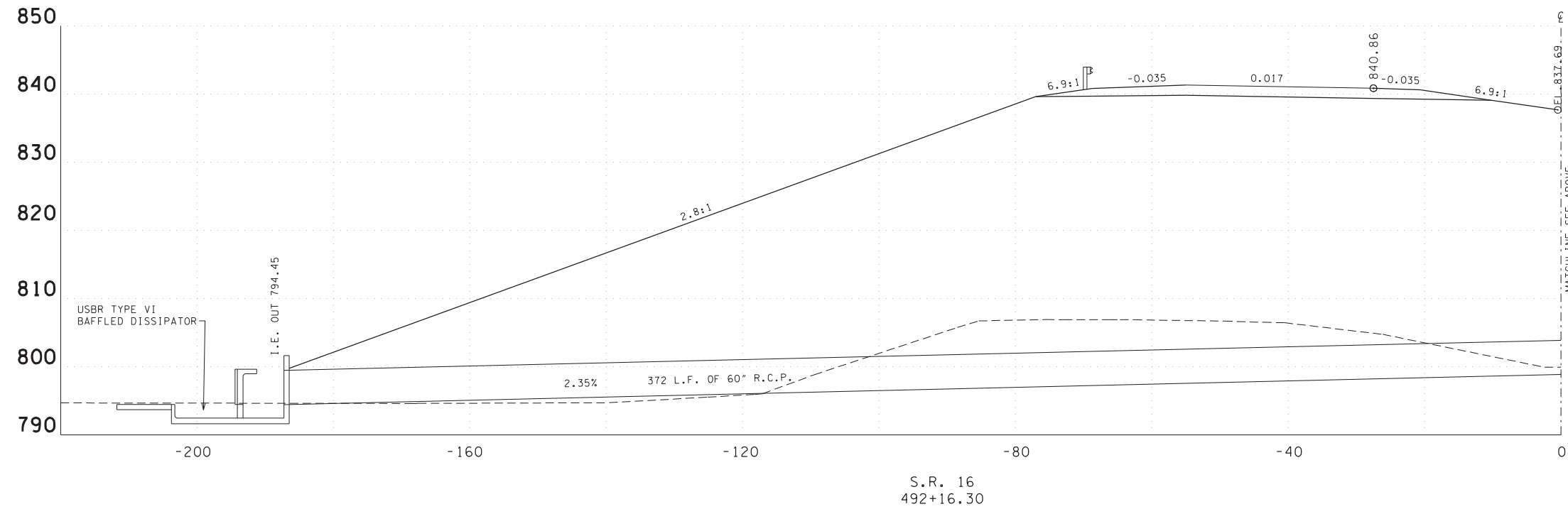


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	50
CONST.	2017	NH-16 (54)	37



STATION	492+16.30
STRUCTURE	372' OF 60" R.C.P. (CLASS V)
SKEW	61' RT
DRAINAGE AREA	55.1 AC.
DESIGN DISCHARGE (050)	152 CFS
DESIGN DISCHARGE (0100)	165 CFS
OVERTOPPING ELEV.	840.06
ALLOWABLE HEADWATER ELEV.	810.00
050 HEADWATER ELEV.	807.75
0100 HEADWATER ELEV.	808.19
VELOCITY (050)	19.3 FT/S
VELOCITY (0100)	19.7 FT/S
INLET ELEVATION	803.25
OUTLET ELEVATION	794.45
STANDARD DRAWING NUMBERS	D-PE-1 & SHT. NO. 2W
CLASS "A" CONCRETE	9.33 C.Y.
STEEL BAR REINFORCING	123.00 LB.
OUTLET ENERGY DISSIPATOR	1

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
SECTIONS**

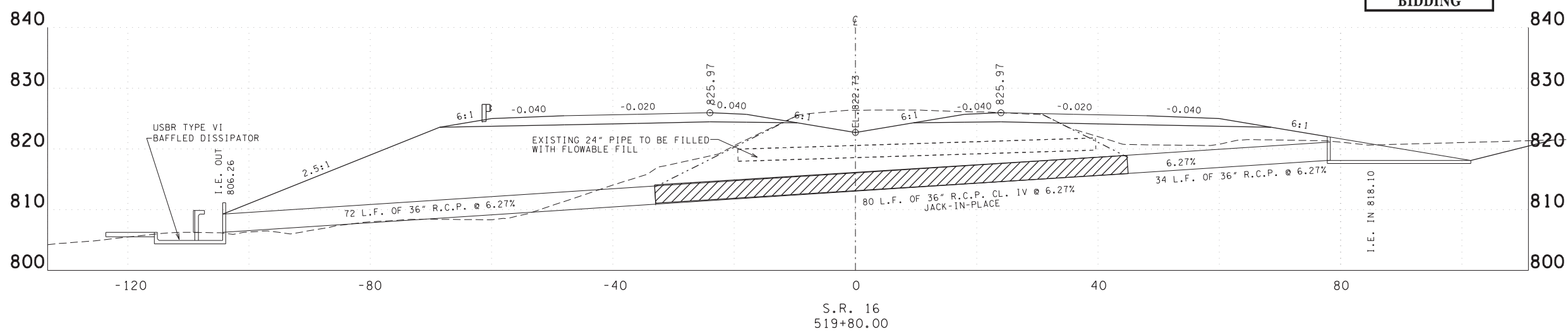
SCALE: 1"=10' HORIZ.
1"=10' VERT.



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BIDDING**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	51
CONST.	2017	NH-16 (54)	38

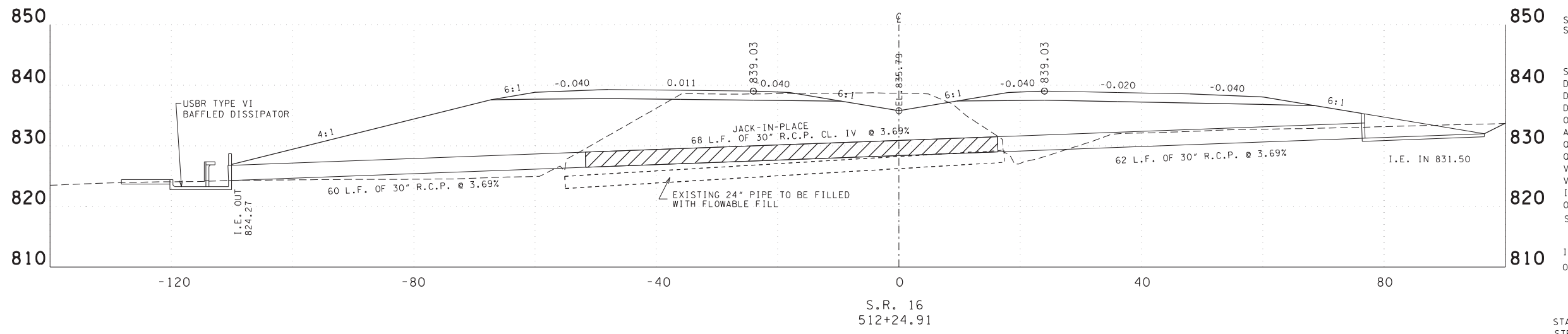
REVISION 09/06/11
MOVED CROSS DRAIN STA. 519+45.35 TO STA. 519+80.00.
REVISED HYD. DATA AND INVERTS.
EXTENDED CROSS DRAIN.
REVISED PIPE DIAMETER STA. 512+24.91.



STATION STRUCTURE 519+80.00
186' OF 36" R.C.P.
106' OF 36" RCP (CLASS III)
80' OF 36" RCP (CLASS IV)
JACKED-IN-PLACE
90 DEGREE

SKIEW
DRAINAGE AREA 15.5 AC.
DESIGN DISCHARGE (050) 55 CFS
DESIGN DISCHARGE (0100) 60 CFS
OVERTOPPING ELEV. 825.01
ALLOWABLE HEADWATER ELEV. 823.28
050 HEADWATER ELEV. 821.97
0100 HEADWATER ELEV. 822.42
VELOCITY (050) 13.7 FT/S
VELOCITY (0100) 14.0 FT/S
INLET ELEVATION 818.10
OUTLET ELEVATION 806.26
STANDARD DRAWING NUMBERS D-PE-36A, 36B & SHT. NO. 2W

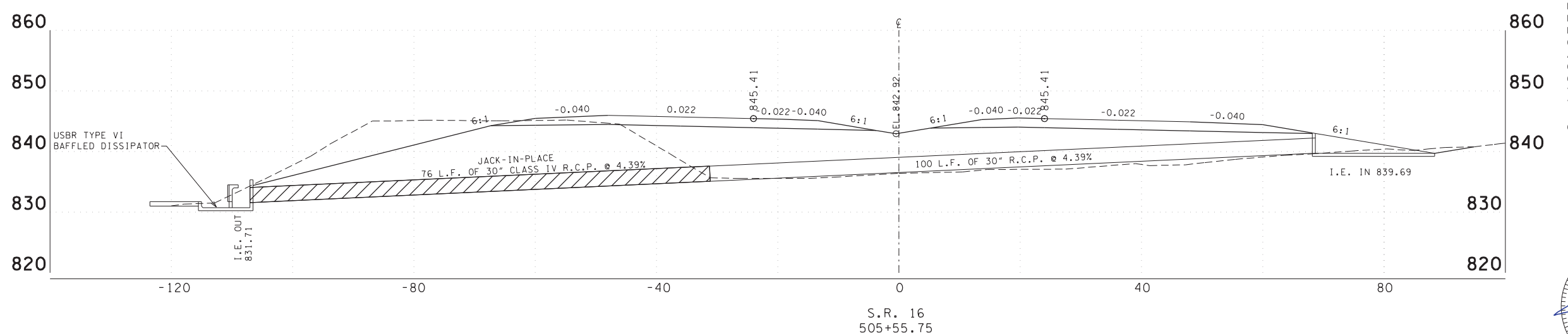
INLET ENDWALL 1
OUTLET ENERGY DISSIPATOR 1



STATION STRUCTURE 512+24.91
190' OF 30" R.C.P. INCLUDING
122' 30" RCP (CLASS III)
68' OF 30" RCP (CLASS IV)
JACKED-IN-PLACE
90 DEGREE

SKIEW
DRAINAGE AREA 11.5 AC.
DESIGN DISCHARGE (050) 32 CFS
DESIGN DISCHARGE (0100) 34 CFS
OVERTOPPING ELEV. 838.08
ALLOWABLE HEADWATER ELEV. 836.58
050 HEADWATER ELEV. 835.75
0100 HEADWATER ELEV. 836.45
VELOCITY (050) 15.9 FT/S
VELOCITY (0100) 16.3 FT/S
INLET ELEVATION 831.50
OUTLET ELEVATION 824.27
STANDARD DRAWING NUMBERS D-PE-30A, 30B & SHT. NO. 2W

INLET ENDWALL 1
OUTLET ENERGY DISSIPATOR 1

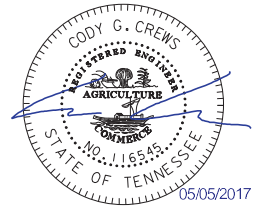
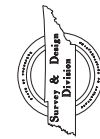


STATION STRUCTURE 505+55.75
100' OF 30" R.C.P. (CLASS III)
76' OF 30" RCP (CLASS IV)
JACKED-IN-PLACE
90 DEGREE

SKIEW
DRAINAGE AREA 9.9 AC.
DESIGN DISCHARGE (050) 24 CFS
DESIGN DISCHARGE (0100) 26 CFS
OVERTOPPING ELEV. 844.45
ALLOWABLE HEADWATER ELEV. 842.45
050 HEADWATER ELEV. 842.11
0100 HEADWATER ELEV. 842.38
VELOCITY (050) 18.9 FT/S
VELOCITY (0100) 16.2 FT/S
INLET ELEVATION 839.69
OUTLET ELEVATION 831.71
STANDARD DRAWING NUMBERS D-PE-30A, 30B & SHT. NO. 2W

INLET ENDWALL 1
OUTLET ENERGY DISSIPATOR 1

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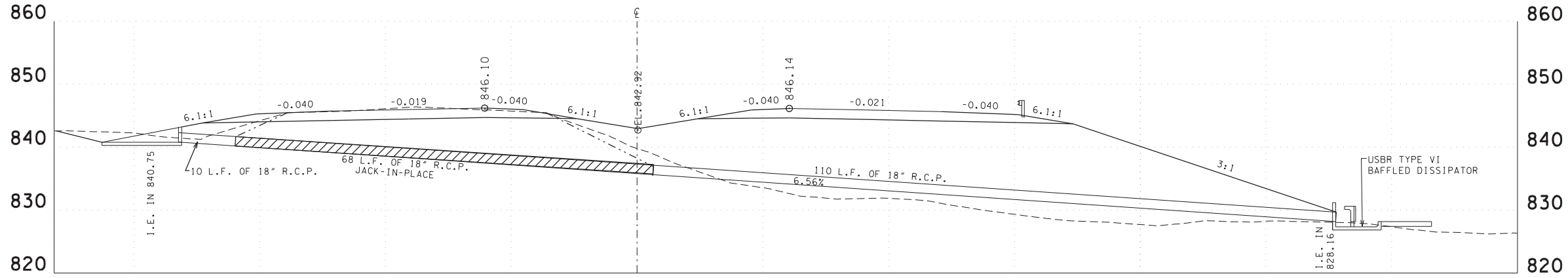


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

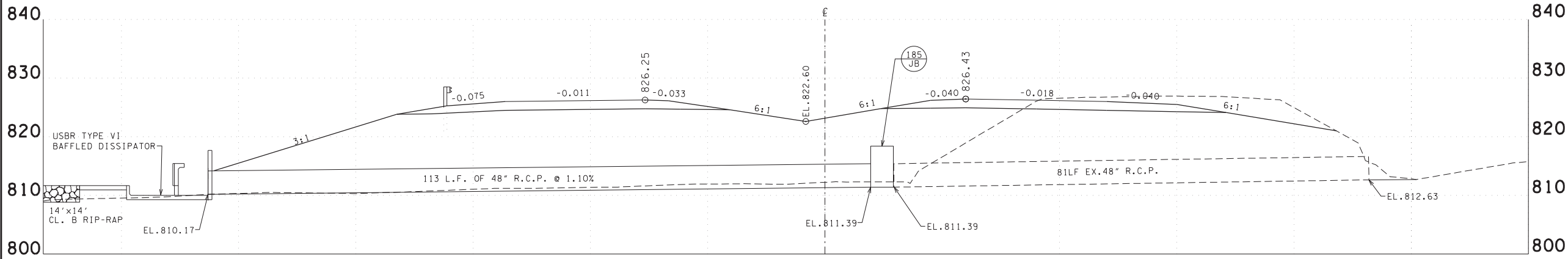
**CULVERT
SECTIONS**
SCALE: 1"=10' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	52
CONST.	2017	NH-16 (54)	39

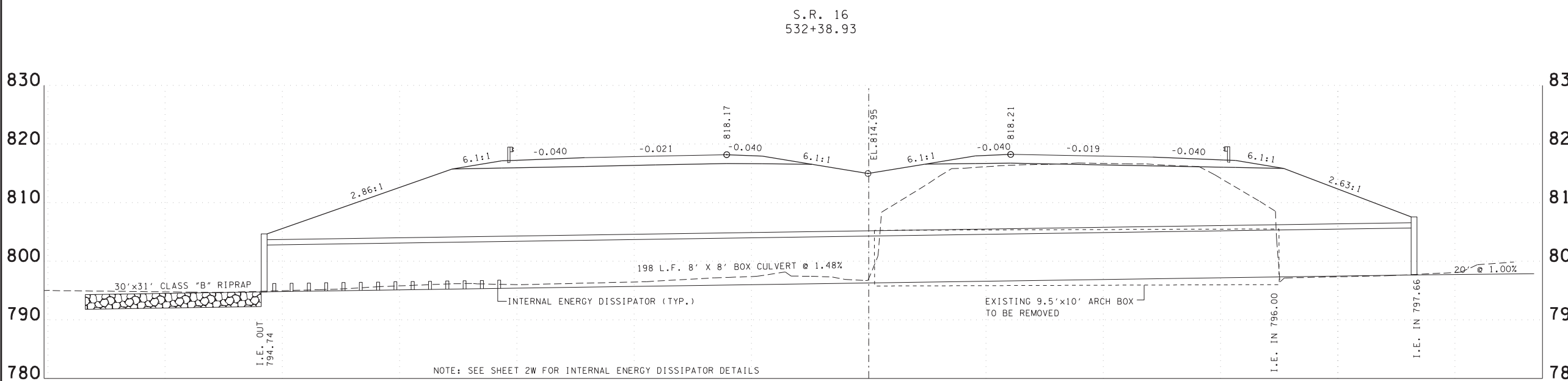
REV. 01/20/10
MOVED CULVERT SECTION
STA. 526+99.77 TO STA. 526+83.08
DUE TO ENVIRONMENTAL COMMENTS.
REV. 09/06/11
MOVED CULVERT SECTION
STA. 580+05.10 TO
STA. 580+32.28.



STATION	580+32.28	40	ALLOWABLE HEADWATER ELEV.	843.52	80
STRUCTURE	188' OF 18" R.C.P. INCLUDING 120' OF 18" RCP (CLASS III) 68' OF 18" RCP (CLASS IV) JACKED-IN-PLACE	S.R. 16 580+32.28	050 HEADWATER ELEV.	842.79	
SKEW	82° LT		0100 HEADWATER ELEV.	843.41	
DRAINAGE AREA	4.0 AC.		VELOCITY (050)	18.2 FT/S	
DESIGN DISCHARGE (050)	11 CFS		VELOCITY (0100)	16.2 FT/S	
DESIGN DISCHARGE (0100)	12 CFS		INLET ELEVATION	840.75	
OVERTOPPING ELEV.	845.02		OUTLET ELEVATION	828.16	
			STANDARD DRAWING NUMBERS	D-PB-1,D-PE-18A & 18B	
			INLET ENDWALL	1	
			OUTLET ENERGY DISSIPATOR	1	

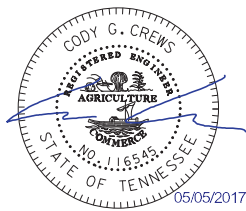


STATION	532+38.93
STRUCTURE	113' OF 48" R.C.P.
SKEW	90 DEGREE
DRAINAGE AREA	36.7 AC.
DESIGN DISCHARGE (050)	81 CFS
DESIGN DISCHARGE (0100)	88 CFS
OVERTOPPING ELEV.	825.51
ALLOWABLE HEADWATER ELEV.	824.01
050 HEADWATER ELEV.	816.68
0100 HEADWATER ELEV.	817.02
VELOCITY (050)	12.0 FT/S
VELOCITY (0100)	12.3 FT/S
INLET ELEVATION	812.63
OUTLET ELEVATION	810.17
STANDARD DWG.	D-JBS-3,SHT. NO. 2W
OUTLET ENERGY DISSIPATOR	



STATION	526+76.17_(STR-4)	050 HEADWATER ELEV.	801.11	S.R. 16	252 C.Y.
STRUCTURE	198' OF 8' X 8' BOX CULVERT	0100 HEADWATER ELEV.	801.29	526+76.17	51826 LB.
SKEW	85.57° RT	VELOCITY (050)	6.93 FT/S		50 C.Y.
DRAINAGE AREA	52 AC.	VELOCITY (0100)	7.07 FT/S		
DESIGN DISCHARGE (050)	156 CFS	INLET ELEVATION	797.66		
DESIGN DISCHARGE (0100)	168 CFS	OUTLET ELEVATION	794.74		
OVERTOPPING ELEV.	818.17	STANDARD DRAWING NUMBERS			
ALLOWABLE HEADWATER ELEV.	815.83	STD-17-7, STD-17-10, STD-17-11, STD-17-17, STD-17-34, STD-17-53			

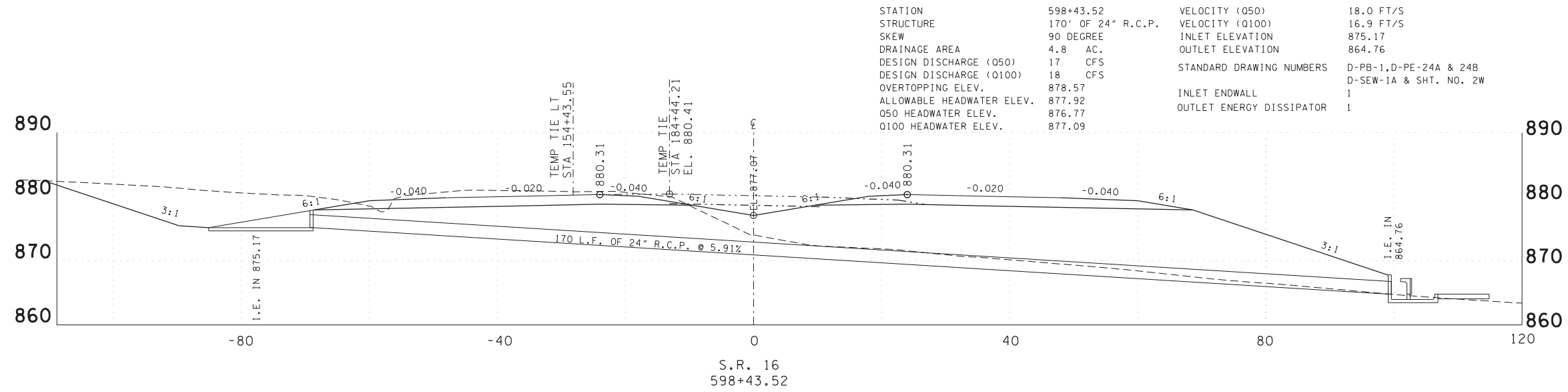
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**CULVERT
SECTIONS**
SCALE: 1"=10' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	53
CONST.	2017	NH-16 (54)	40

REVISION 09/06/11
REVISED INLET STA. 598+43.52.

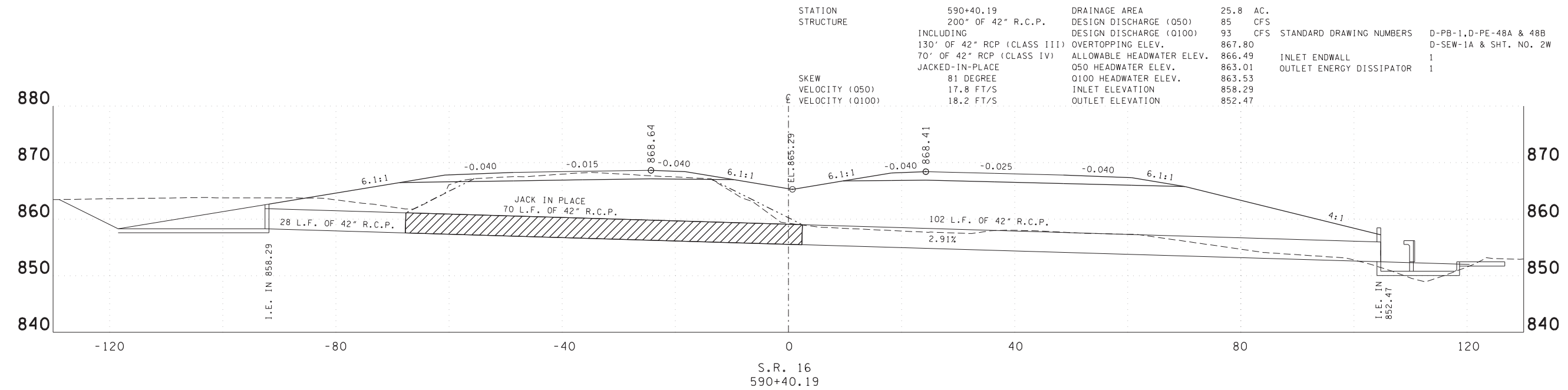


STATION 598+43.52
STRUCTURE 170' OF 24" R.C.P.
SKEW 90 DEGREE
DRAINAGE AREA 4.8 AC.
DESIGN DISCHARGE (050) 17 CFS
DESIGN DISCHARGE (0100) 18 CFS
OVERTOPPING ELEV. 878.57
ALLOWABLE HEADWATER ELEV. 877.92
050 HEADWATER ELEV. 876.77
0100 HEADWATER ELEV. 877.09

VELOCITY (050) 18.0 FT/S
VELOCITY (0100) 16.9 FT/S
INLET ELEVATION 875.17
OUTLET ELEVATION 864.76

STANDARD DRAWING NUMBERS D-PB-1,D-PE-24A & 24B
D-SEW-1A & SHT. NO. 2W

INLET ENDWALL 1
OUTLET ENERGY DISSIPATOR 1



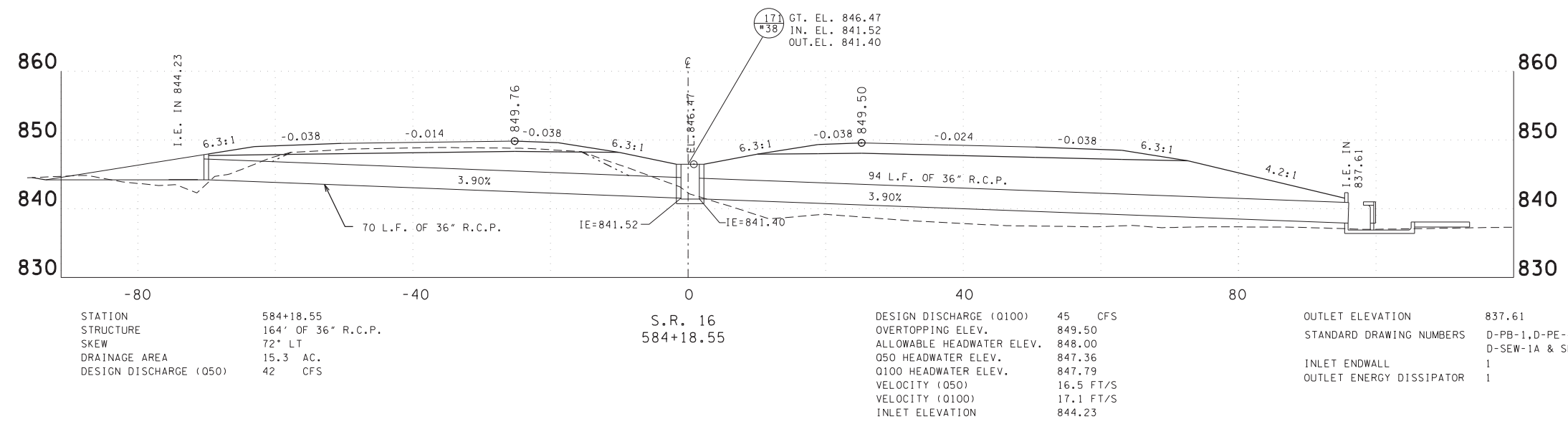
STATION 590+40.19
STRUCTURE 200' OF 42" R.C.P.
INCLUDING 130' OF 42" RCP (CLASS III)
70' OF 42" RCP (CLASS IV)
JACKED-IN-PLACE
SKEW 81 DEGREE
VELOCITY (050) 17.8 FT/S
VELOCITY (0100) 18.2 FT/S

DRAINAGE AREA 25.8 AC.
DESIGN DISCHARGE (050) 85 CFS
DESIGN DISCHARGE (0100) 93 CFS
OVERTOPPING ELEV. 867.80
ALLOWABLE HEADWATER ELEV. 866.49
050 HEADWATER ELEV. 863.01
0100 HEADWATER ELEV. 863.53
INLET ELEVATION 858.29
OUTLET ELEVATION 852.47

STANDARD DRAWING NUMBERS D-PB-1,D-PE-48A & 48B
D-SEW-1A & SHT. NO. 2W

INLET ENDWALL 1
OUTLET ENERGY DISSIPATOR 1

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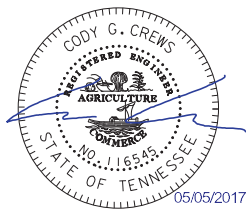


STATION 584+18.55
STRUCTURE 164' OF 36" R.C.P.
SKEW 72' LT
DRAINAGE AREA 15.3 AC.
DESIGN DISCHARGE (050) 42 CFS

DESIGN DISCHARGE (0100) 45 CFS
OVERTOPPING ELEV. 849.50
ALLOWABLE HEADWATER ELEV. 848.00
050 HEADWATER ELEV. 847.36
0100 HEADWATER ELEV. 847.79
VELOCITY (050) 16.5 FT/S
VELOCITY (0100) 17.1 FT/S
INLET ELEVATION 844.23

OUTLET ELEVATION 837.61
STANDARD DRAWING NUMBERS D-PB-1,D-PE-42A & 42B
D-SEW-1A & SHT. NO. 2W

INLET ENDWALL 1
OUTLET ENERGY DISSIPATOR 1

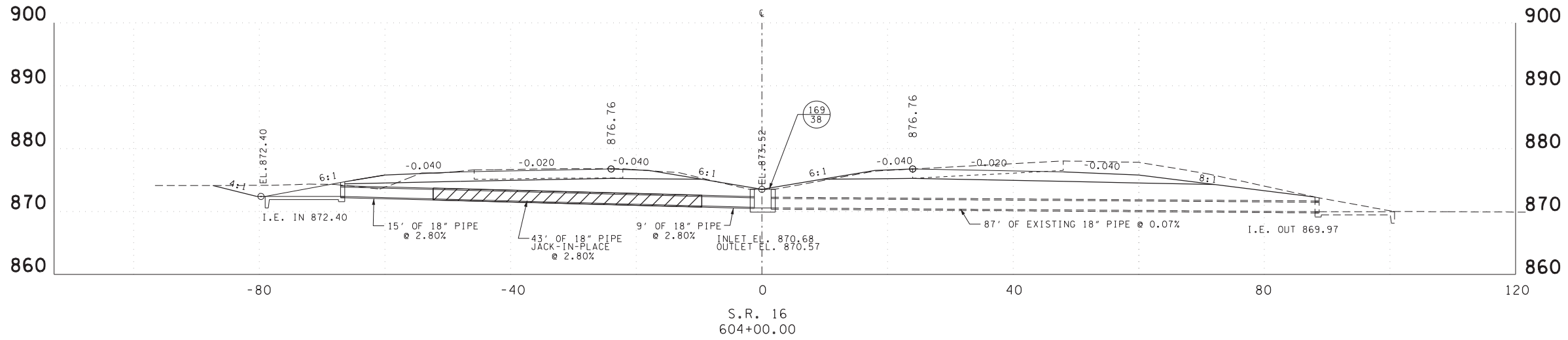


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	53A
CONST.	2017	NH-16 (54)	41



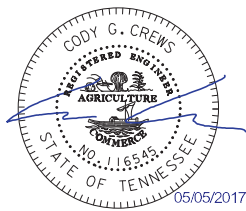
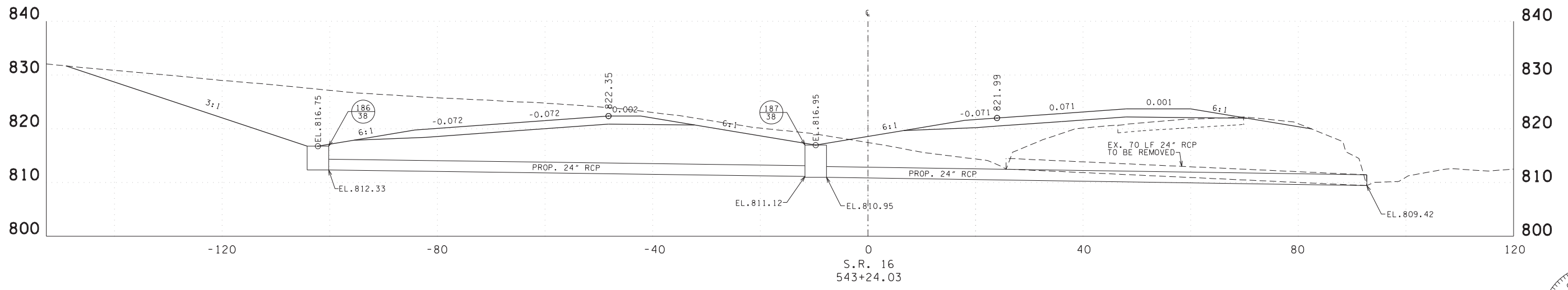
STATION STRUCTURE 604+00.00

67' OF 18" R.C.P. INCLUDING:
24' OF 18" RCP (CLASS III)
43' OF 18" RCP (CLASS IV)
JACKED-IN-PLACE

SKEW 90° LT

DRAINAGE AREA 4.37 AC.
DESIGN DISCHARGE (050) 10.51 CFS
DESIGN DISCHARGE (0100) 11.32 CFS
OVERTOPPING ELEV. 876.76
ALLOWABLE HEADWATER ELEV. 875.80
050 HEADWATER ELEV. 874.84
0100 HEADWATER ELEV. 875.06
VELOCITY (050) 8.84 FT/S
VELOCITY (0100) 8.95 FT/S
INLET ELEVATION 872.40
OUTLET ELEVATION 869.94
STANDARD DRAWING NUMBERS D-PB-1, D-PE-18A & 18B

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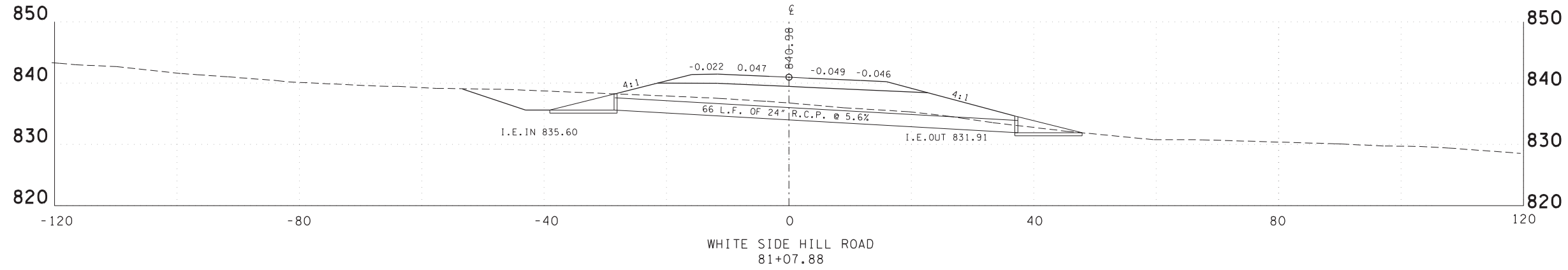


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DEPARTMENT OF TRANSPORTATION

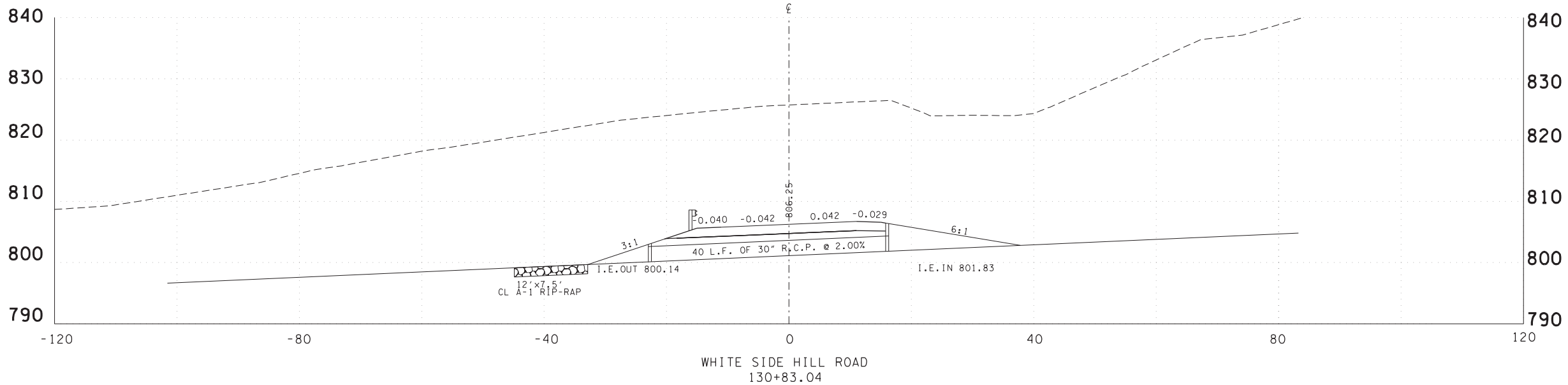
CULVERT SECTIONS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	53C
CONST.	2017	NH-16 (54)	42

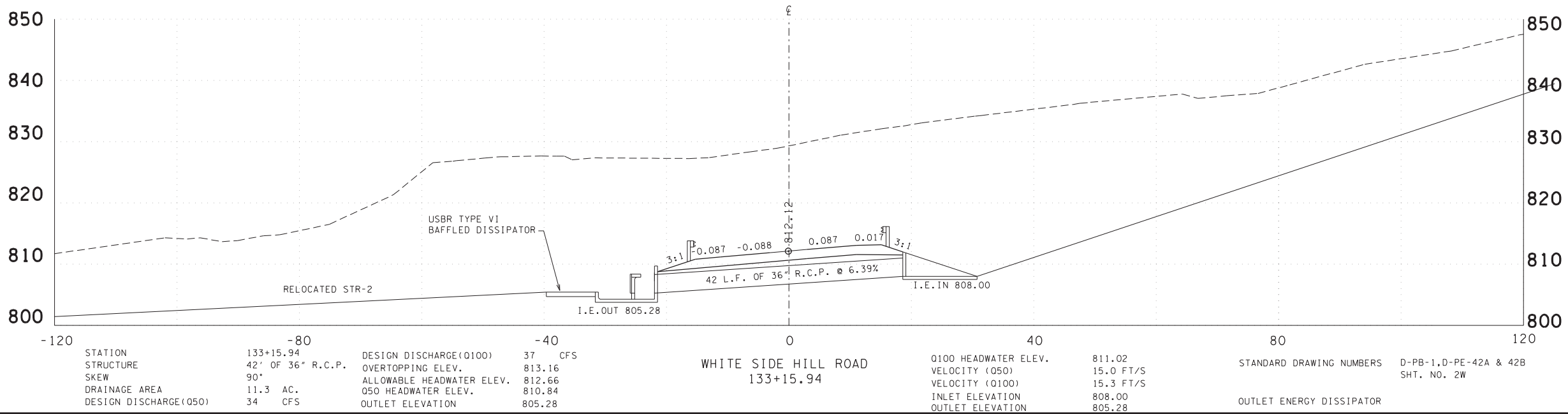


STATION	81+07.88
STRUCTURE	66' OF 24" R.C.P.
SKEW	19.4° LT.
DRAINAGE AREA	3.3 AC.
DESIGN DISCHARGE (050)	8 CFS
DESIGN DISCHARGE (0100)	9 CFS
OVERTOPPING ELEV.	840.98
ALLOWABLE HEADWATER ELEV.	838.00
050 HEADWATER ELEV.	837.18
0100 HEADWATER ELEV.	837.29
VELOCITY (050)	5.05 FT/S
VELOCITY (0100)	5.28 FT/S
INLET ELEVATION	835.60
OUTLET ELEVATION	831.91
STANDARD DRAWING NUMBERS	D-PB-1,D-PE-24A & 24B

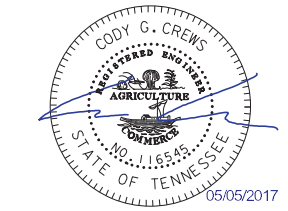


STATION	130+83.04
STRUCTURE	40' OF 30" R.C.P.
SKEW	90°
DRAINAGE AREA	8.0 AC.
DESIGN DISCHARGE (050)	28 CFS
DESIGN DISCHARGE (0100)	31 CFS
OVERTOPPING ELEV.	806.58
ALLOWABLE HEADWATER ELEV.	806.08
050 HEADWATER ELEV.	804.84
0100 HEADWATER ELEV.	805.12
VELOCITY (050)	10.6 FT/S
VELOCITY (0100)	10.8 FT/S
INLET ELEVATION	801.83
OUTLET ELEVATION	800.14
STANDARD DRAWING NUMBERS	D-PB-1,D-PE-30A & 30B

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STATION	133+15.94	DESIGN DISCHARGE (0100)	37 CFS	0100 HEADWATER ELEV.	811.02	STANDARD DRAWING NUMBERS	D-PB-1,D-PE-42A & 42B
STRUCTURE	42' OF 36" R.C.P.	OVERTOPPING ELEV.	813.16	VELOCITY (050)	15.0 FT/S	SHT. NO.	2W
SKEW	90°	ALLOWABLE HEADWATER ELEV.	812.66	VELOCITY (0100)	15.3 FT/S		
DRAINAGE AREA	11.3 AC.	050 HEADWATER ELEV.	810.84	INLET ELEVATION	808.00		
DESIGN DISCHARGE (050)	34 CFS	OUTLET ELEVATION	805.28	OUTLET ELEVATION	805.28		



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

**SIDE ROAD
CULVERT
SECTIONS**

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

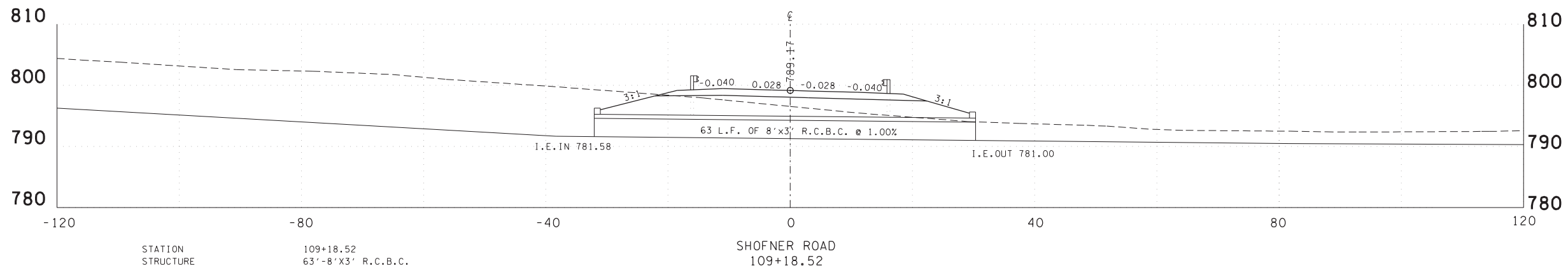
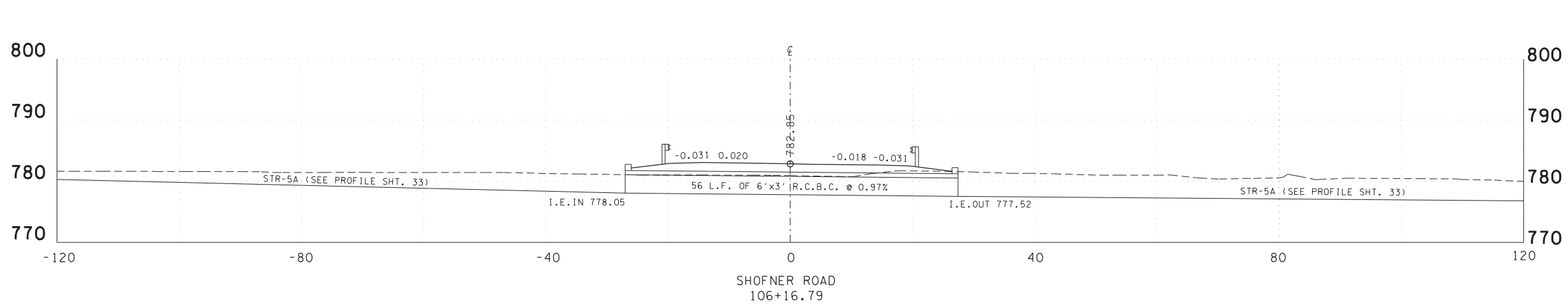
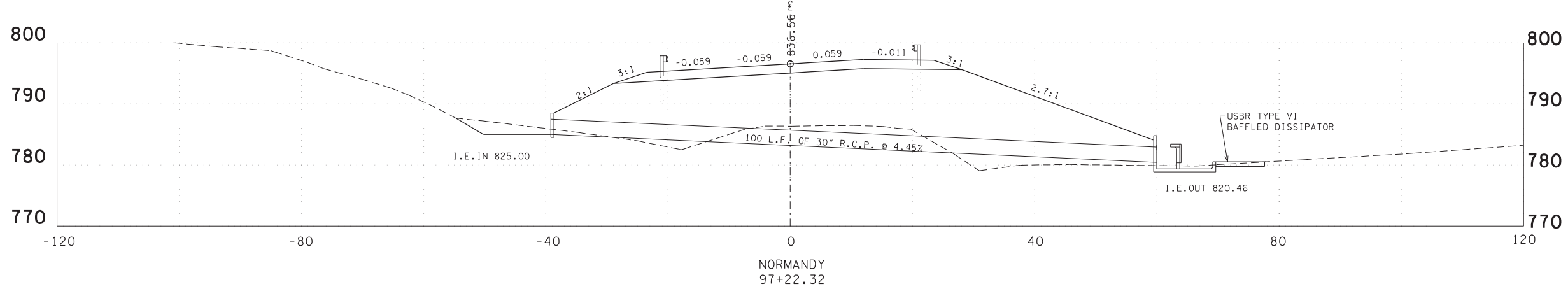


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2006	NHE-16 (29)	53D
CONST.	2017	NH-16 (54)	43

REV. 06/21/17
CHANGED SPECIAL DITCH ON
STA. 106+16.79 TO BE STR-5A.

STATION	97+22.32
STRUCTURE	100' OF 30" R.C.P.
SKEW	90°
DRAINAGE AREA	11.4 AC.
DESIGN DISCHARGE (050)	28 CFS
DESIGN DISCHARGE (0100)	30 CFS
OVERTOPPING ELEV.	835.38
ALLOWABLE HEADWATER ELEV.	834.88
050 HEADWATER ELEV.	827.93
0100 HEADWATER ELEV.	828.11
VELOCITY (050)	15.5 FT/S
VELOCITY (0100)	15.8 FT/S
INLET ELEVATION	825.00
OUTLET ELEVATION	820.46
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-4
CLASS "A" CONCRETE	2.0 C.Y.
STEEL BAR REINFORCING	93 LB.

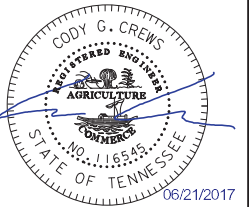
STATION	106+16.79
STRUCTURE	56'-6"X3' R.C.B.C.
SKEW	45°
DRAINAGE AREA	39 AC.
DESIGN DISCHARGE (050)	108 CFS
DESIGN DISCHARGE (0100)	117 CFS
OVERTOPPING ELEV.	783.07
ALLOWABLE HEADWATER ELEV.	782.77
050 HEADWATER ELEV.	782.89
0100 HEADWATER ELEV.	783.14
VELOCITY (050)	6.0 FT/S
VELOCITY (0100)	6.4 FT/S
INLET ELEVATION	778.05
OUTLET ELEVATION	777.52
STANDARD DRAWING NUMBERS	STD-17-7, 17-10, 17-14, 17-17, 17-51
CLASS "A" CONCRETE	62 C.Y.
STEEL BAR REINFORCING	10699 LB.
FOUNDATION FILL MATERIAL	12 C.Y.
BACKFILLING MATERIAL	145 TON



STATION	109+18.52
STRUCTURE	63'-8"X3' R.C.B.C.
SKEW	90°
DRAINAGE AREA	62.1 AC.
DESIGN DISCHARGE (050)	144 CFS
DESIGN DISCHARGE (0100)	154 CFS
OVERTOPPING ELEV.	789.32
ALLOWABLE HEADWATER ELEV.	788.32
050 HEADWATER ELEV.	786.68
0100 HEADWATER ELEV.	786.94
VELOCITY (050)	6.0 FT/S
VELOCITY (0100)	6.4 FT/S
INLET ELEVATION	781.58
OUTLET ELEVATION	781.00

STANDARD DRAWING NUMBERS	STD-17-7, 17-10, 17-11, 17-17, 17-52
INLET DRAWING NUMBERS	
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	51 C.Y.
STEEL BAR REINFORCING	12432 LB.
FOUNDATION FILL MATERIAL	16 C.Y.
BACKFILLING MATERIAL	286 TON

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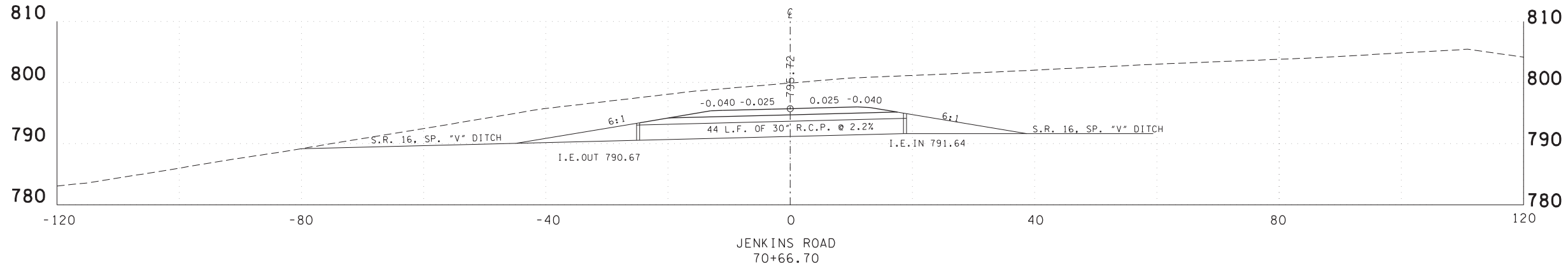
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

**SIDE ROAD
CULVERT
SECTIONS**

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

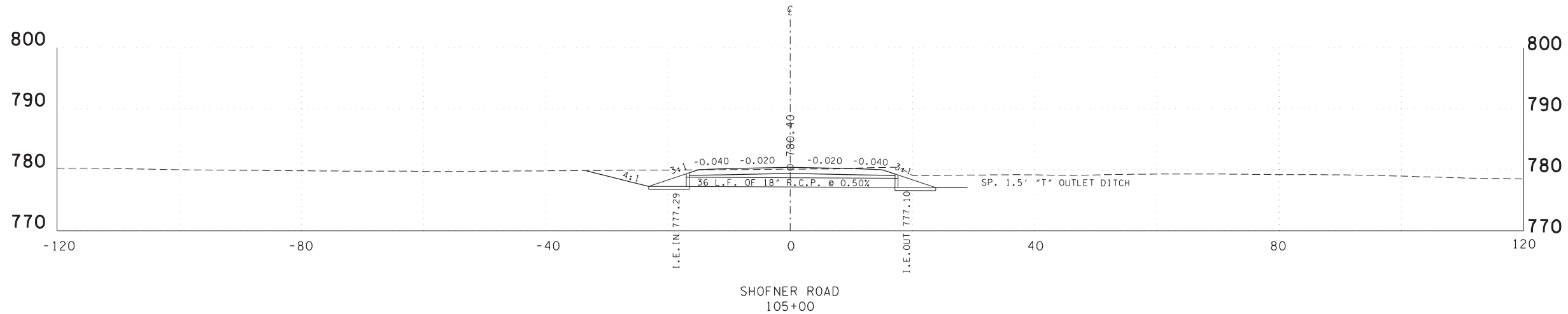


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-16 (29)	53E
CONST.	2017	NH-16 (54)	44



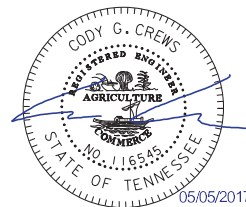
STATION	70+66.70
STRUCTURE	44' OF 30" R.C.P.
SKEW	90°
DRAINAGE AREA	8.3 AC.
DESIGN DISCHARGE (050)	33 CFS
DESIGN DISCHARGE (0100)	36 CFS
OVERTOPPING ELEV.	796.20
ALLOWABLE HEADWATER ELEV.	795.70
050 HEADWATER ELEV.	794.96
0100 HEADWATER ELEV.	795.30
VELOCITY (050)	10.8 FT/S
VELOCITY (0100)	11.0 FT/S
INLET ELEVATION	791.64
OUTLET ELEVATION	790.67
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-30(A) & 30(B)

**UNOFFICIAL
SET
NOT FOR
BIDDING**



STATION	105+00.00
STRUCTURE	36' OF 18" R.C.P.
SKEW	90°
DRAINAGE AREA	0.49 AC.
DESIGN DISCHARGE (050)	1.65 CFS
DESIGN DISCHARGE (0100)	1.82 CFS
OVERTOPPING ELEV.	780.40
ALLOWABLE HEADWATER ELEV.	779.04
050 HEADWATER ELEV.	778.12
0100 HEADWATER ELEV.	778.16
VELOCITY (050)	1.40 FT/S
VELOCITY (0100)	1.49 FT/S
INLET ELEVATION	777.29
OUTLET ELEVATION	777.10
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-18A & 18B
CLASS "A" CONCRETE	2.10 C.Y.
STEEL BAR REINFORCING	264.00 LB.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

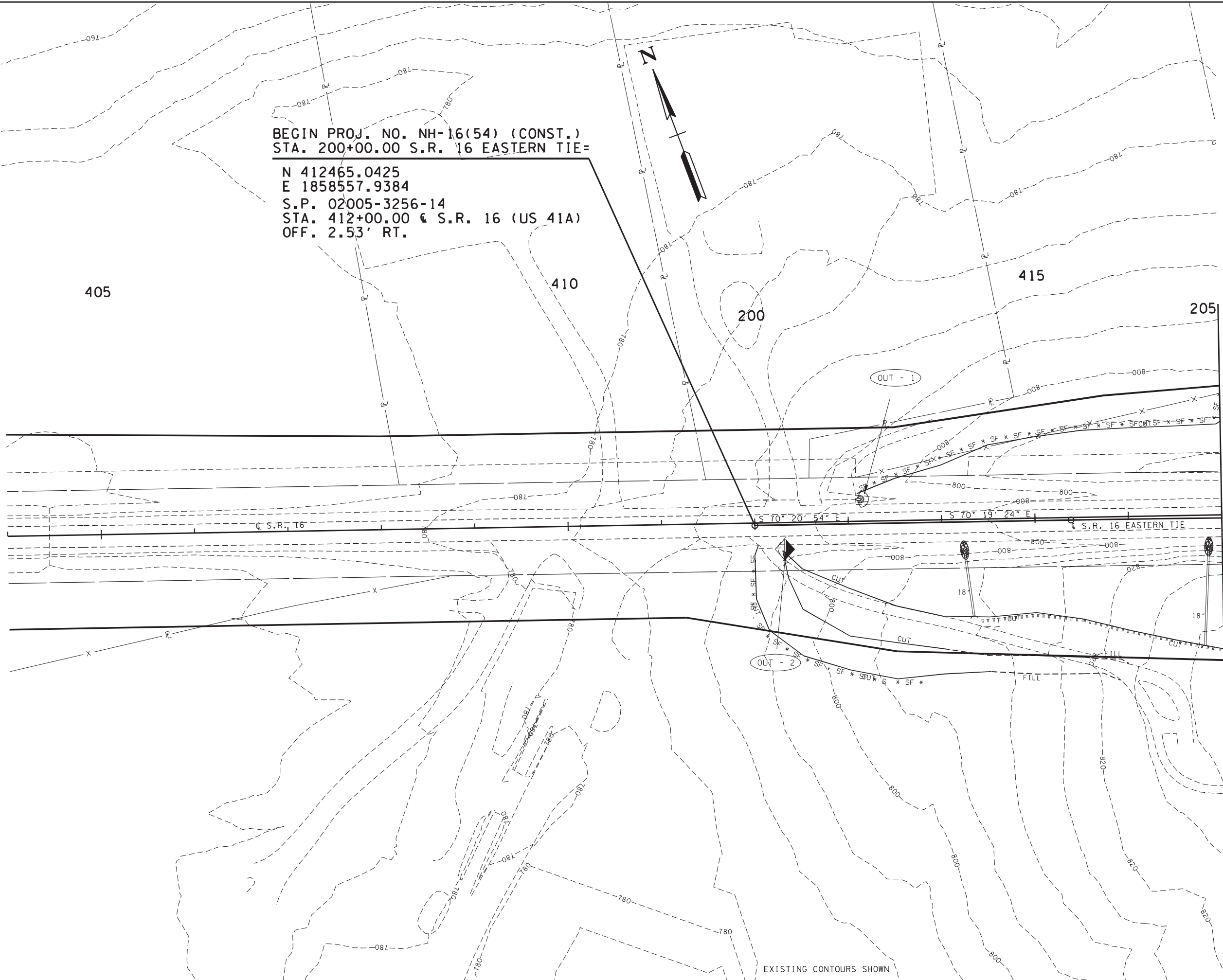
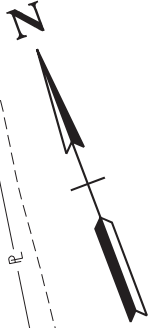
**SIDE ROAD
CULVERT
SECTIONS**

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45A

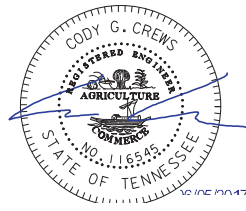
BEGIN PROJ. NO. NH-16(54) (CONST.)
STA. 200+00.00 S.R. 16 EASTERN TIE=

N 412465.0425
E 1858557.9384
S.P. 02005-3256-14
STA. 412+00.00 @ S.R. 16 (US 41A)
OFF. 2.53' RT.



STA. 417+00 SEE SHEET NO. 45B

**UNOFFICIAL
SET
NOT FOR
BIDDING**

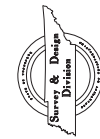


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1
B.O.P. TO STA. 417+00
SCALE: 1" = 50'

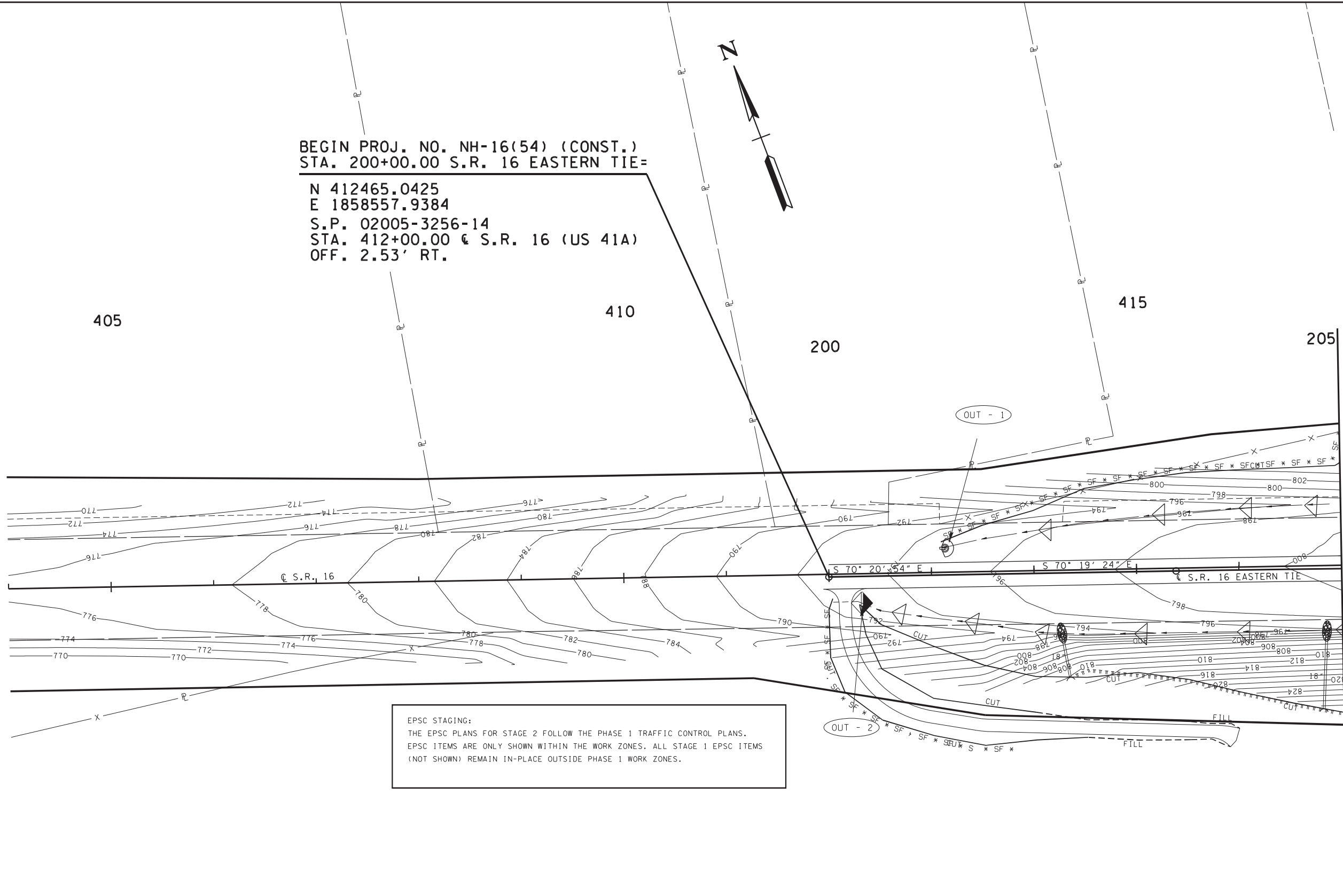
EXISTING CONTOURS SHOWN



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45A1

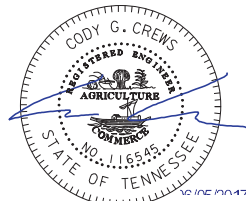
BEGIN PROJ. NO. NH-16(54) (CONST.)
STA. 200+00.00 S.R. 16 EASTERN TIE=

N 412465.0425
E 1858557.9384
S.P. 02005-3256-14
STA. 412+00.00 @ S.R. 16 (US 41A)
OFF. 2.53' RT.



EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

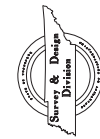


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ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2
B.O.P. TO STA. 417+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

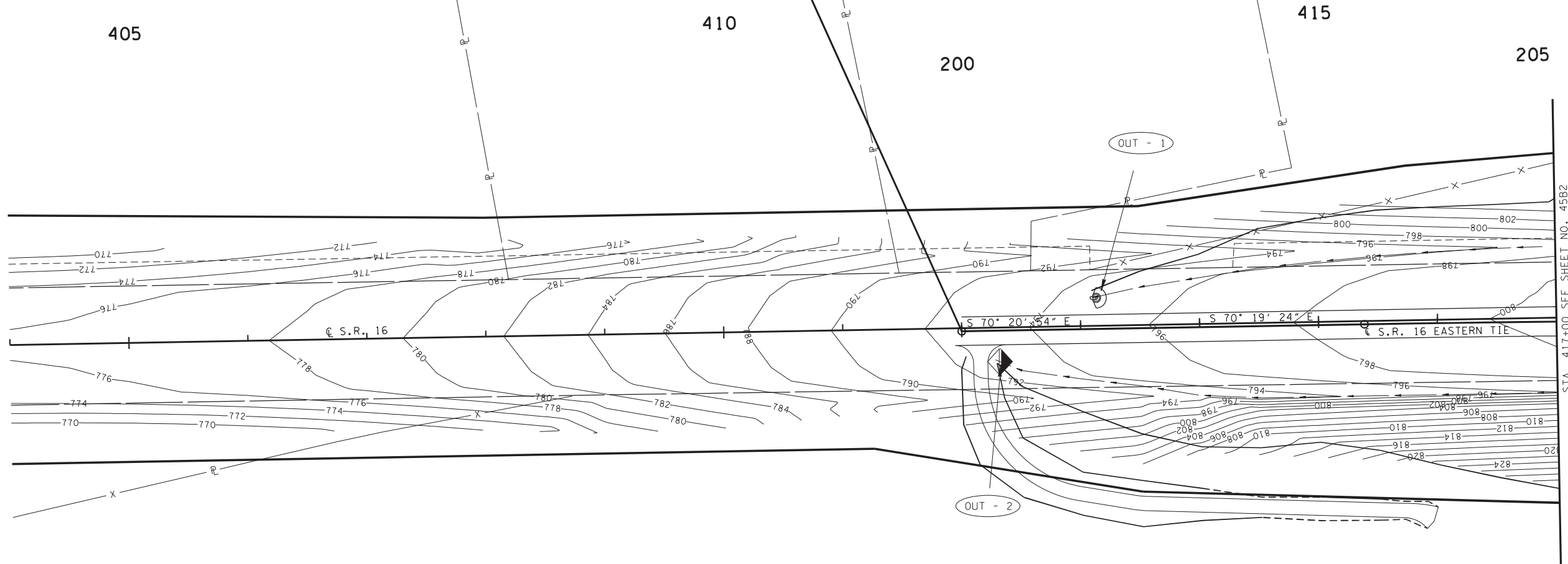
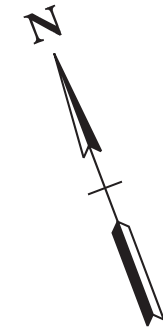
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45A2

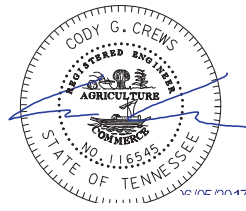
BEGIN PROJ. NO. NH-16(54) (CONST.)
STA. 200+00.00 S.R. 16 EASTERN TIE=

N 412465.0425
E 1858557.9384
S.P. 02005-3256-14
STA. 412+00.00 @ S.R. 16 (US 41A)
OFF. 2.53' RT.



STA. 417+00 SEE SHEET NO. 45B2

**UNOFFICIAL
SET
NOT FOR
BIDDING**



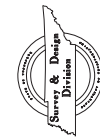
EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

COORDINATE VALUES ARE NAD/83 (1995),
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
B.O.P. TO STA. 417+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

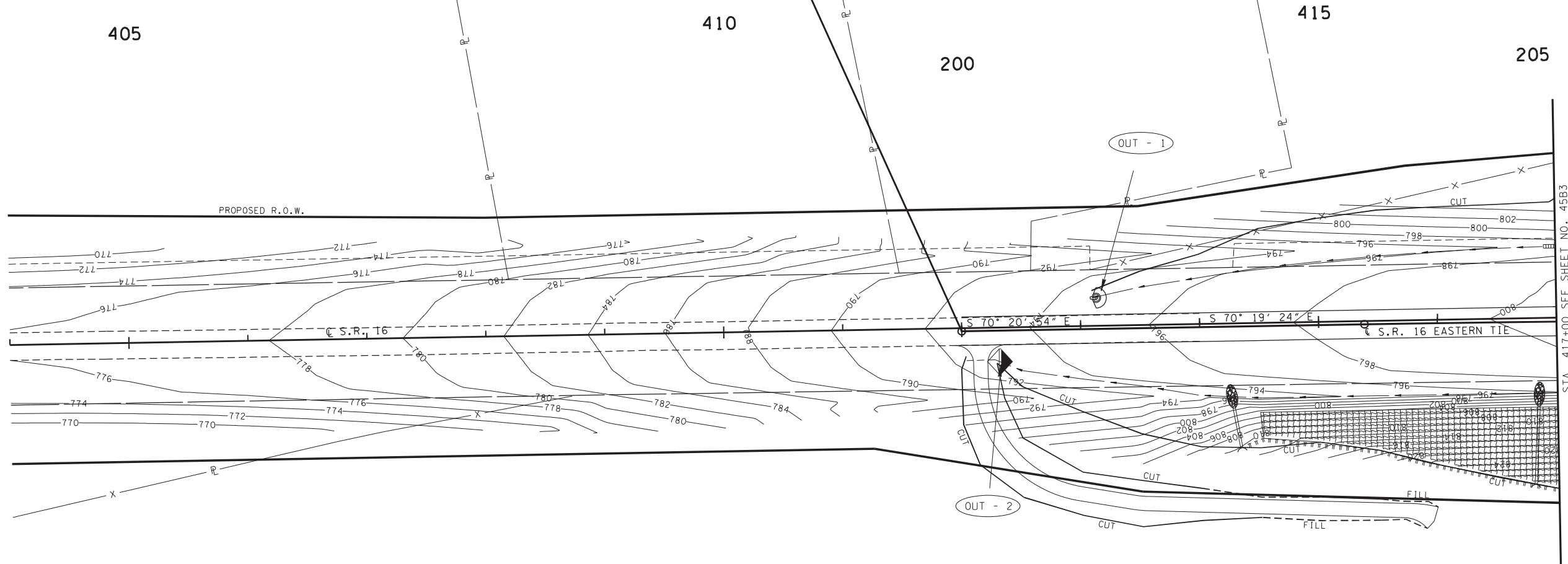
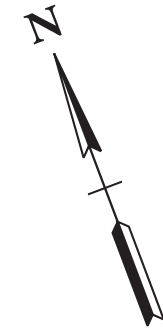
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45A3

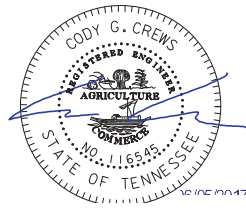
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STA. 200+00.00 S.R. 16 EASTERN TIE=

N 412465.0425
E 1858557.9384
S.P. 02005-3256-14
STA. 412+00.00 @ S.R. 16 (US 41A)
OFF. 2.53' RT.



STA. 417+00 SEE SHEET NO. 45B3

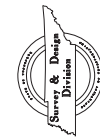
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SET
NOT FOR
BIDDING**



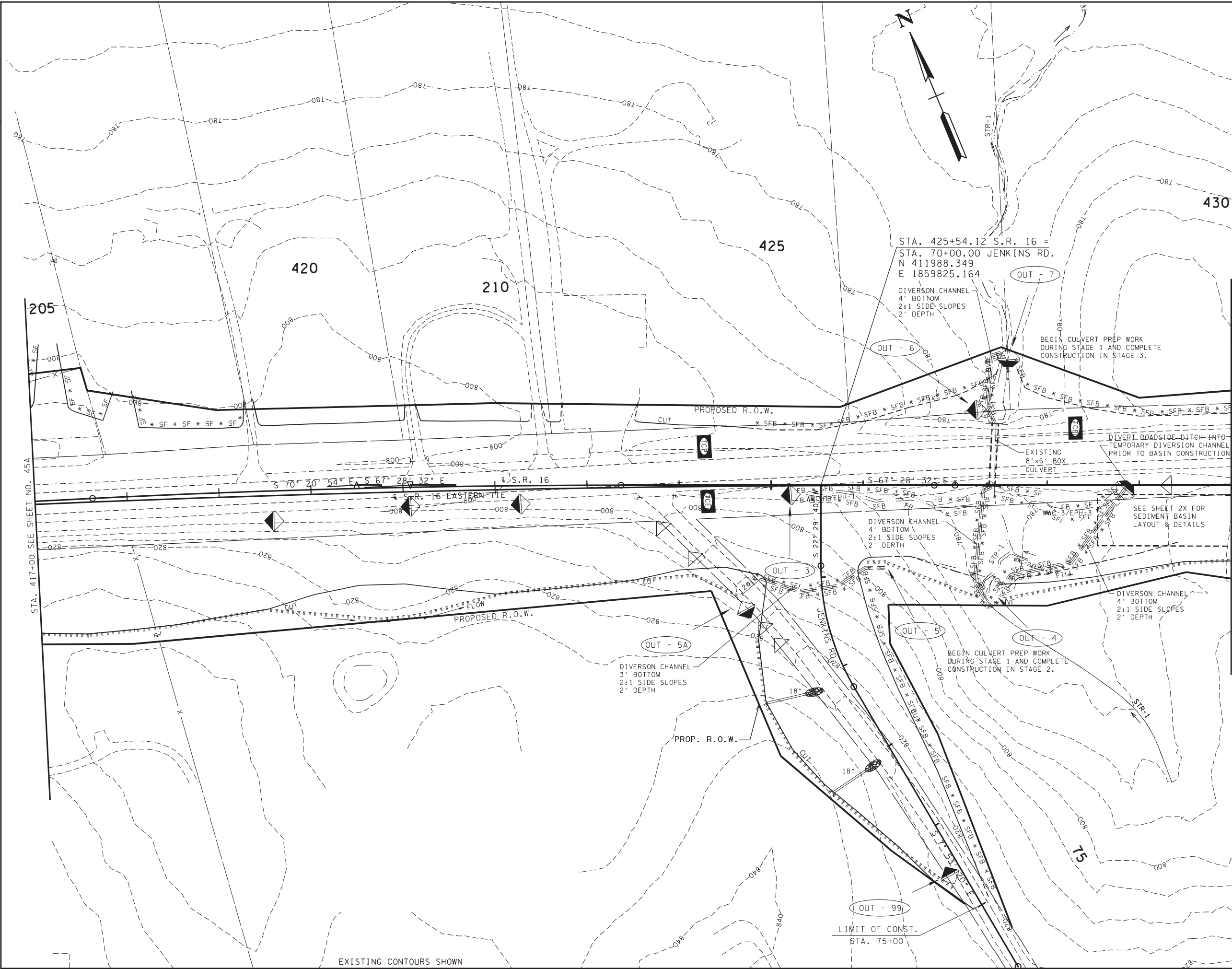
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4
B.O.P. TO STA. 417+00
SCALE: 1" = 50'

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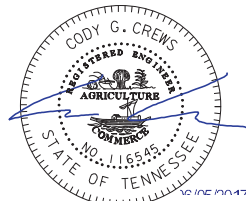


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45B



STA. 417+00 SEE SHEET NO. 45A
STA. 430+00 SEE SHEET NO. 45C

UNOFFICIAL SET
NOT FOR BIDDING



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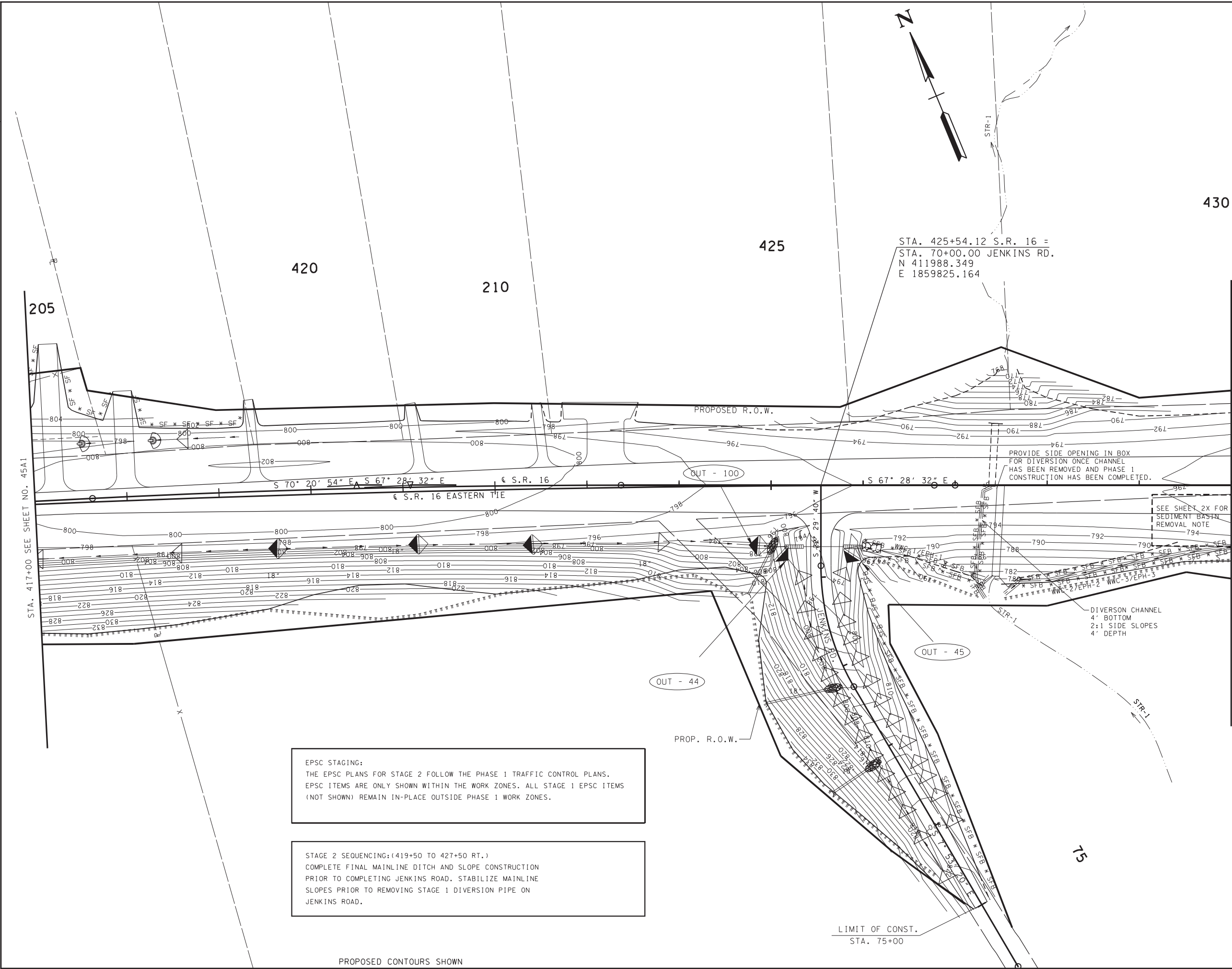
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 1
STA. 417+00 TO STA. 430+00
SCALE: 1" = 50'

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EXISTING CONTOURS SHOWN

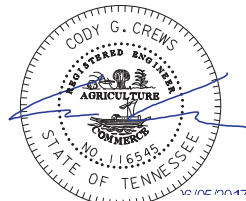
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45B1



EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS. EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

STAGE 2 SEQUENCING: (419+50 TO 427+50 RT.)
COMPLETE FINAL MAINLINE DITCH AND SLOPE CONSTRUCTION PRIOR TO COMPLETING JENKINS ROAD. STABILIZE MAINLINE SLOPES PRIOR TO REMOVING STAGE 1 DIVERSION PIPE ON JENKINS ROAD.

UNOFFICIAL SET
NOT FOR BIDDING

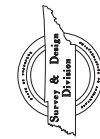


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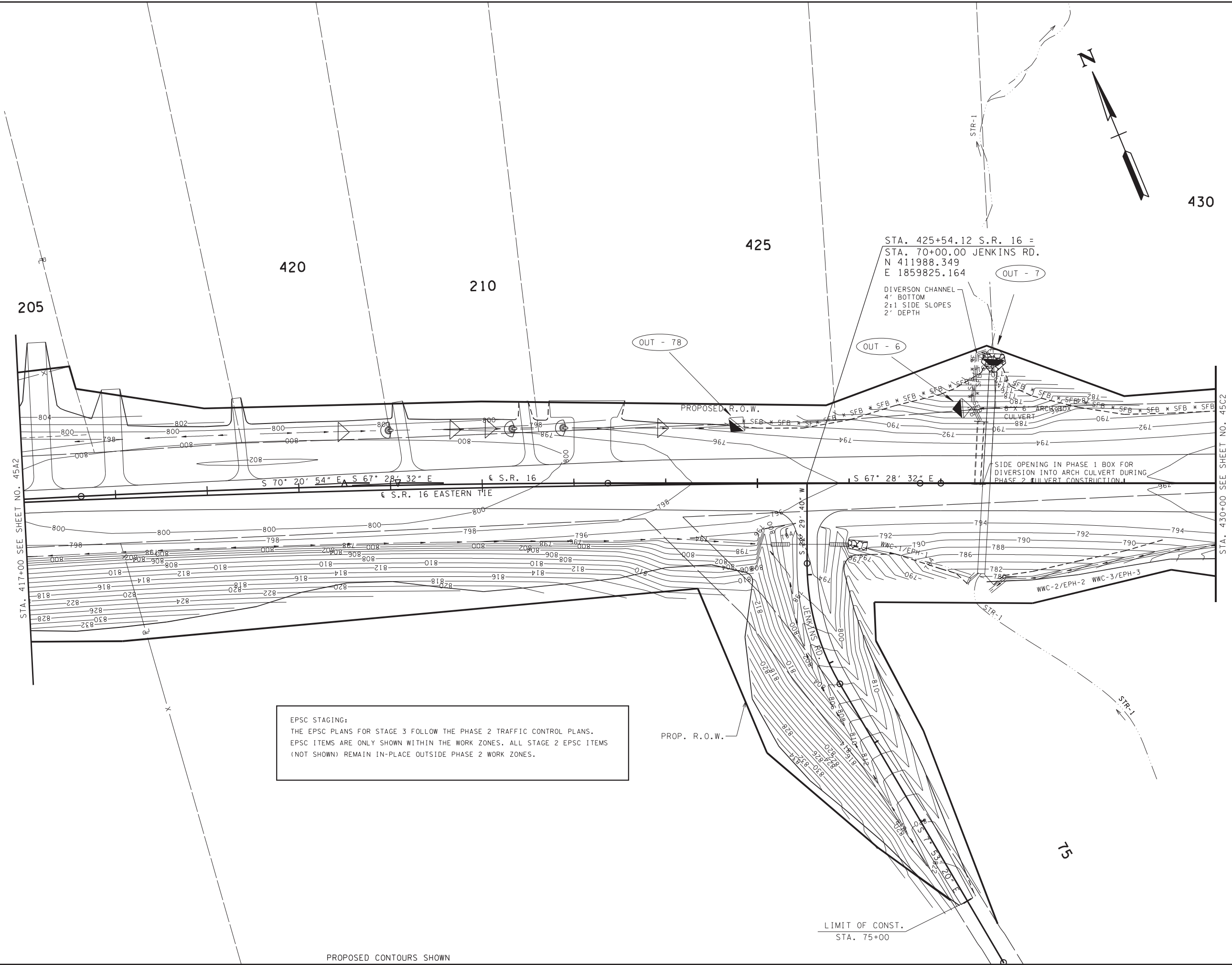
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 2
STA. 417+00 TO STA. 430+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45B2



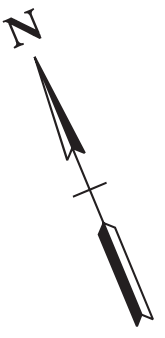
430

425

420

210

205



STA. 425+54.12 S.R. 16 =
STA. 70+00.00 JENKINS RD.
N 411988.349
E 1859825.164

DIVERSION CHANNEL
4' BOTTOM
2:1 SIDE SLOPES
2' DEPTH

OUT - 7

OUT - 6

OUT - 78

PROPOSED R.O.W.

SIDE OPENING IN PHASE 1 BOX FOR
DIVERSION INTO ARCH CULVERT DURING
PHASE 2 CULVERT CONSTRUCTION

STA. 430+00 SEE SHEET NO. 45C2

STA. 417+00 SEE SHEET NO. 45A2

S 70° 20' 54" E S 67° 28' 32" E
S.R. 16 EASTERN TIE

S 67° 28' 32" E

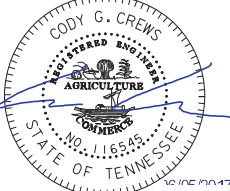
**UNOFFICIAL
SET
NOT FOR
BIDDING**

EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

PROP. R.O.W.

15

LIMIT OF CONST.
STA. 75+00



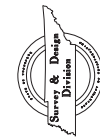
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

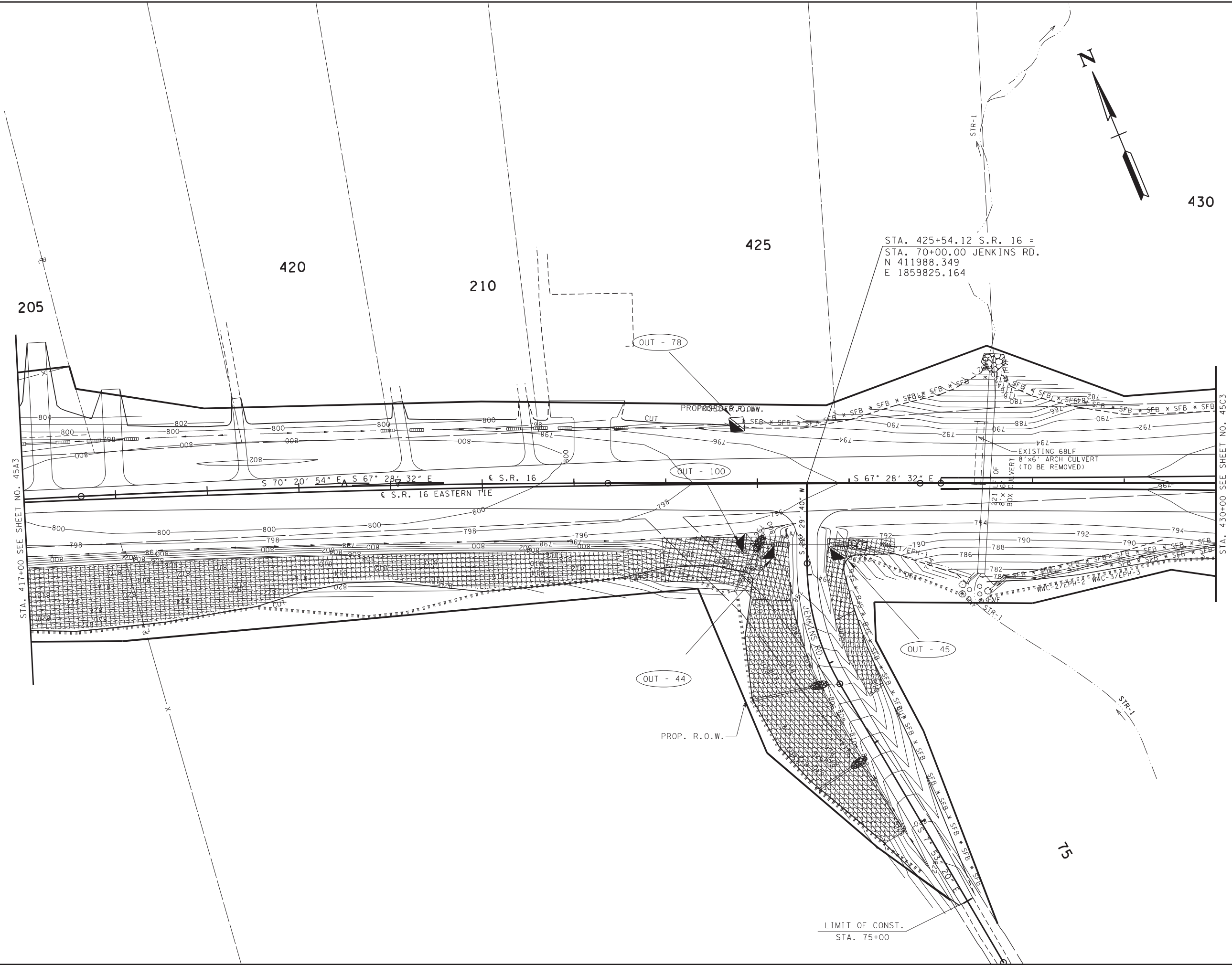
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 417+00 TO STA. 430+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:01:39 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45B3



430

425

420

210

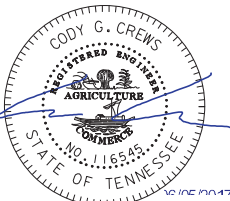
205

STA. 425+54.12 S.R. 16 =
STA. 70+00.00 JENKINS RD.
N 411988.349
E 1859825.164

STA. 417+00 SEE SHEET NO. 45A3

STA. 430+00 SEE SHEET NO. 45C3

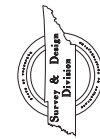
**UNOFFICIAL
SET
NOT FOR
BIDDING**



COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4
STA. 417+00 TO STA. 430+00
SCALE: 1" = 50'

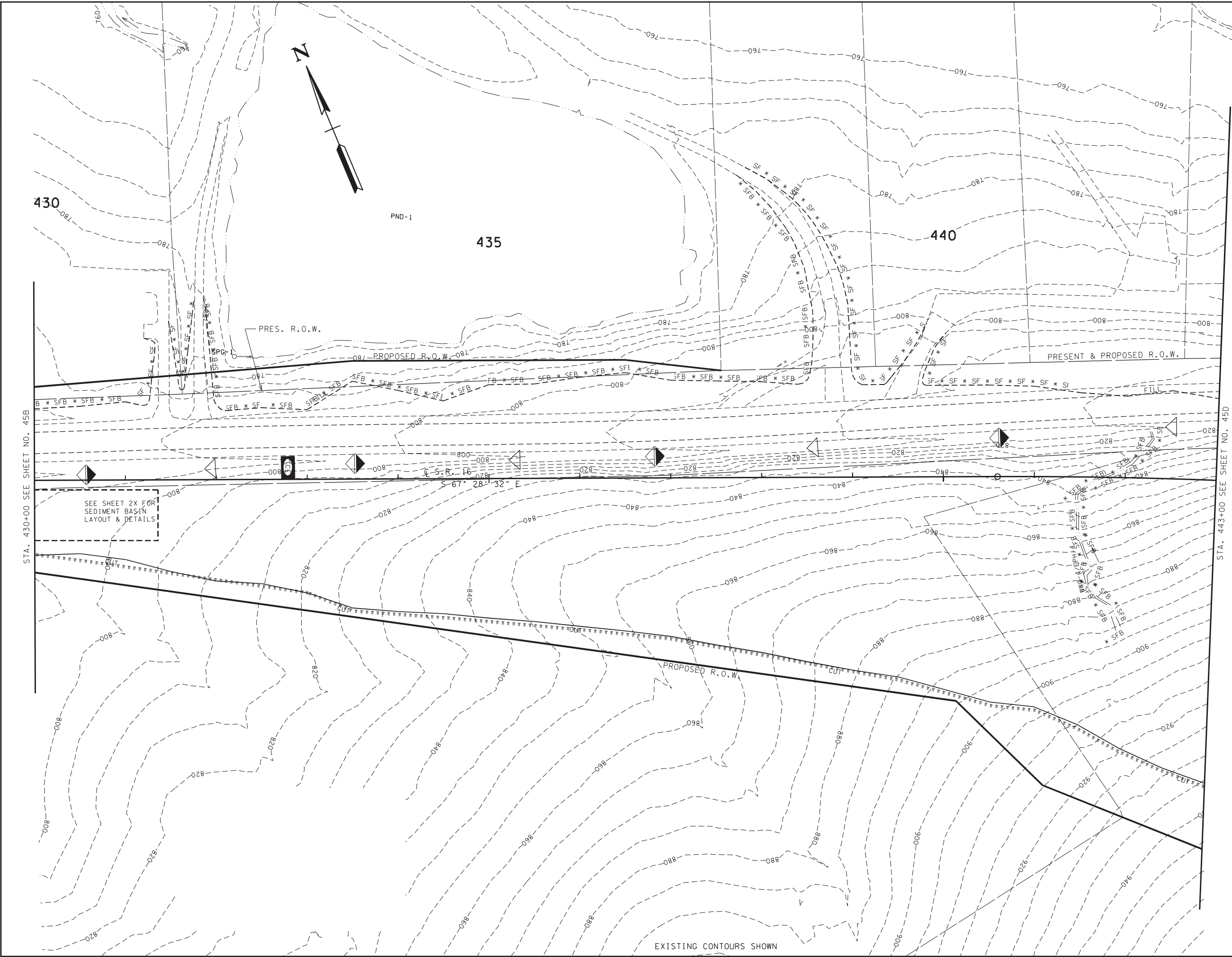
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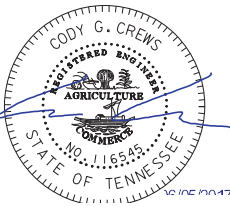
LIMIT OF CONST.
STA. 75+00

75

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45C



**UNOFFICIAL
SET
NOT FOR
BIDDING**



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1

STA. 430+00 TO STA. 443+00
SCALE: 1" = 50'

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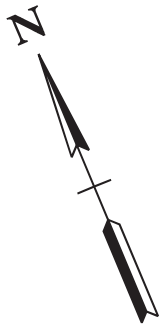


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45C1

430

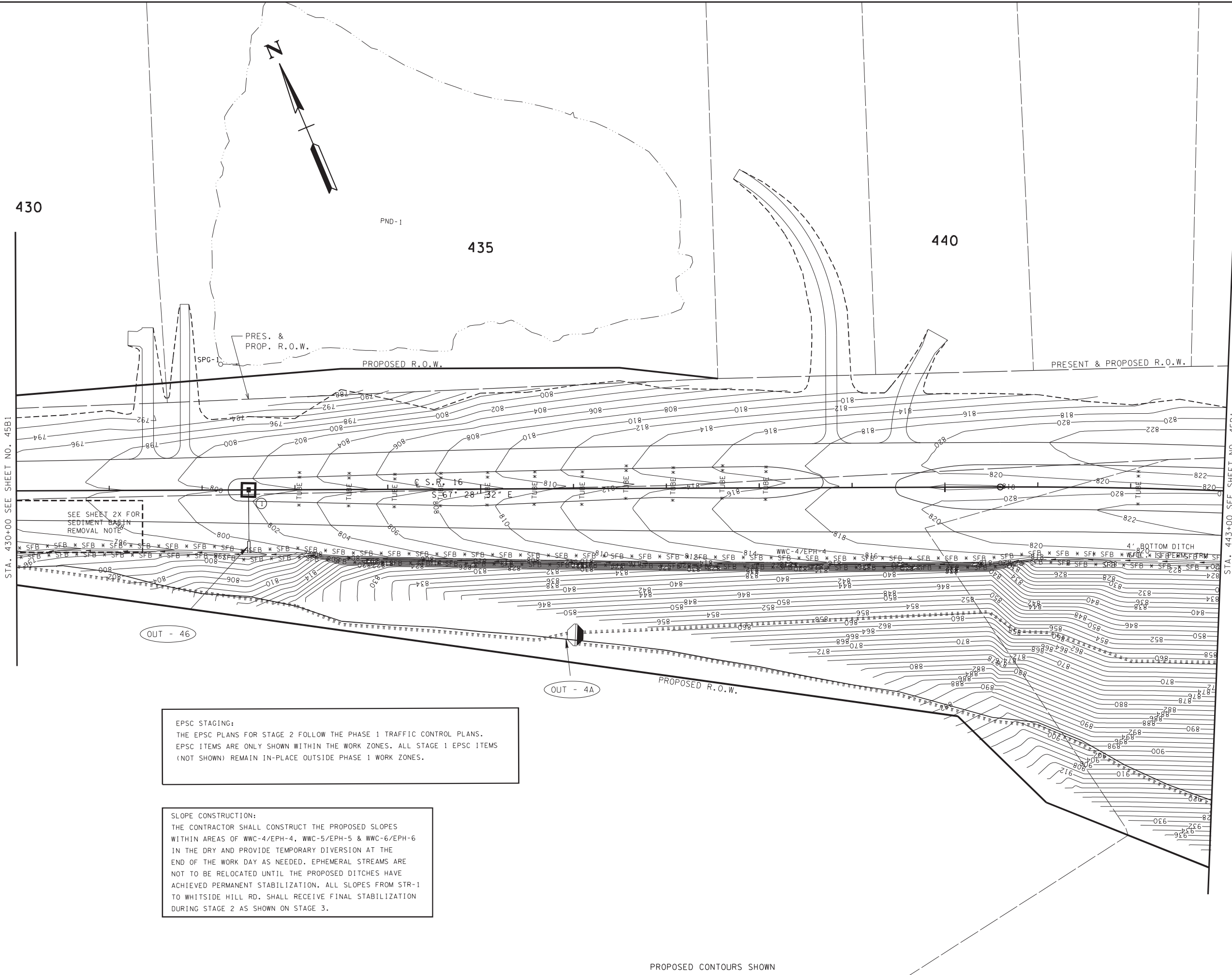
435

440



STA. 430+00 SEE SHEET NO. 45B1

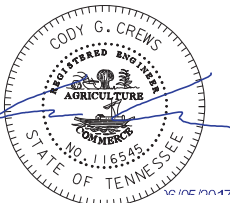
STA. 443+00 SEE SHEET NO. 45D1



EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS. EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

SLOPE CONSTRUCTION:
THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED SLOPES WITHIN AREAS OF WWC-4/EPH-4, WWC-5/EPH-5 & WWC-6/EPH-6 IN THE DRY AND PROVIDE TEMPORARY DIVERSION AT THE END OF THE WORK DAY AS NEEDED. EPHEMERAL STREAMS ARE NOT TO BE RELOCATED UNTIL THE PROPOSED DITCHES HAVE ACHIEVED PERMANENT STABILIZATION. ALL SLOPES FROM STR-1 TO WHITESIDE HILL RD. SHALL RECEIVE FINAL STABILIZATION DURING STAGE 2 AS SHOWN ON STAGE 3.

**UNOFFICIAL
SET
NOT FOR
BIDDING**



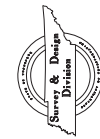
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

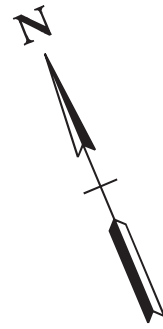
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2
STA. 430+00 TO STA. 443+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45C2



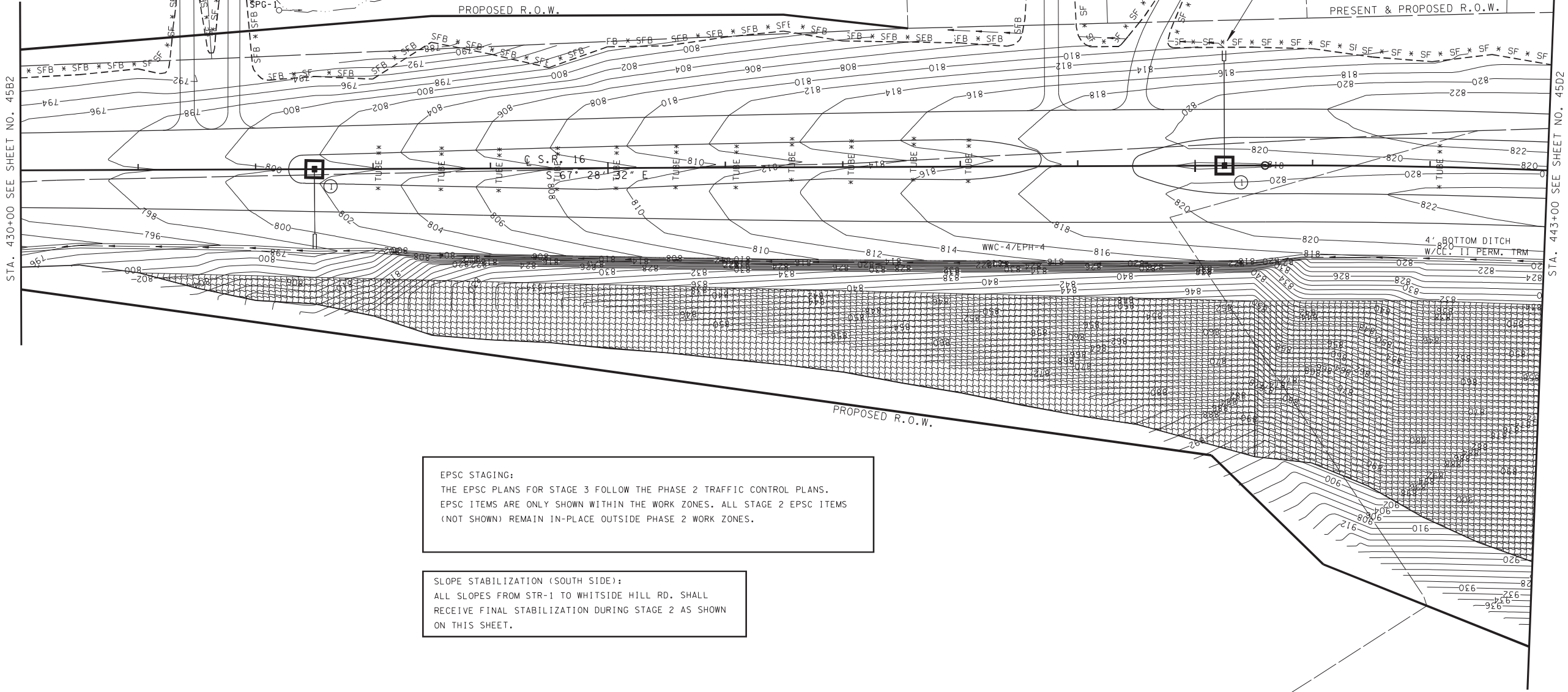
430

PND-1

435

440

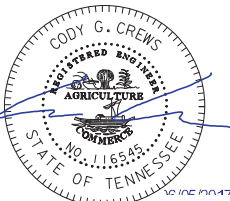
OUT - 79



EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS. EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

SLOPE STABILIZATION (SOUTH SIDE):
ALL SLOPES FROM STR-1 TO WHITSIDE HILL RD. SHALL RECEIVE FINAL STABILIZATION DURING STAGE 2 AS SHOWN ON THIS SHEET.

UNOFFICIAL SET
NOT FOR BIDDING



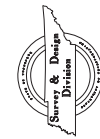
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

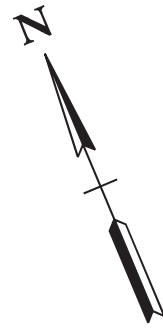
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 3
STA. 430+00 TO STA. 443+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45C3



430

435

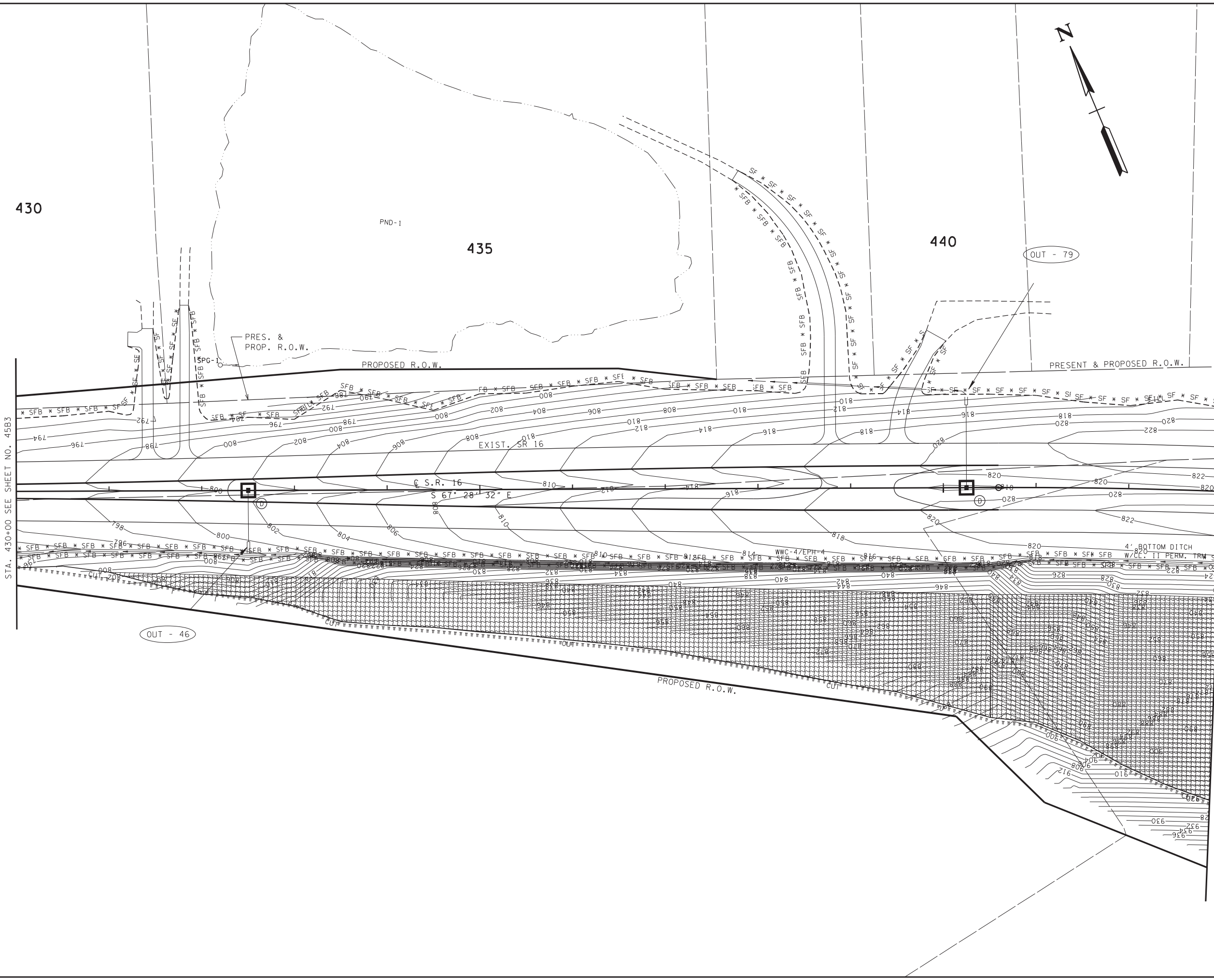
440

OUT - 79

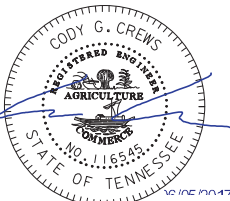
OUT - 46

STA. 430+00 SEE SHEET NO. 45B3

STA. 443+00 SEE SHEET NO. 45D3



**UNOFFICIAL
SET
NOT FOR
BIDDING**



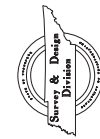
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

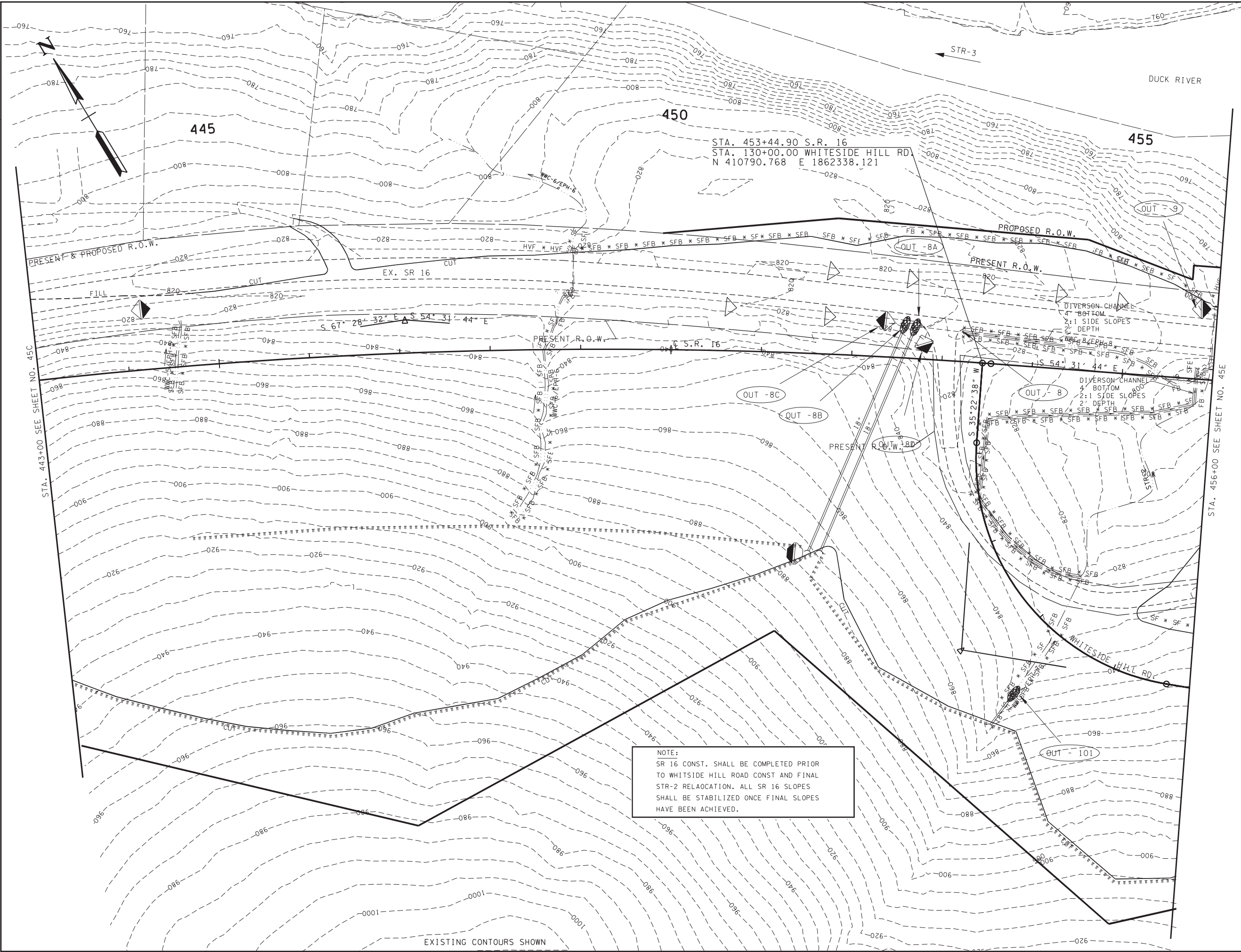
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4

STA. 430+00 TO STA. 443+00
SCALE: 1" = 50'

6/5/2017 8:01:47 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45D

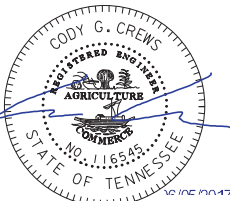


STA. 443+00 SEE SHEET NO. 45C

STA. 456+00 SEE SHEET NO. 45E

NOTE:
SR 16 CONST. SHALL BE COMPLETED PRIOR TO WHITESIDE HILL ROAD CONST AND FINAL STR-2 RELOCATION. ALL SR 16 SLOPES SHALL BE STABILIZED ONCE FINAL SLOPES HAVE BEEN ACHIEVED.

UNOFFICIAL SET
NOT FOR BIDDING



COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

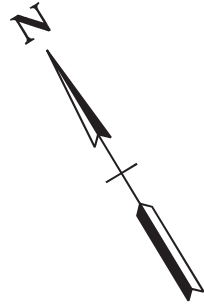
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 1
STA. 443+00 TO STA. 456+00
SCALE: 1" = 50'

6/5/2017 8:01:49 AM
0:21009\T02\BDSR1645D.sht



EXISTING CONTOURS SHOWN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45D1



445

450

455

STA. 453+44.90 S.R. 16
STA. 130+00.00 WHITESIDE HILL RD.
N 410790.768 E 1862338.121

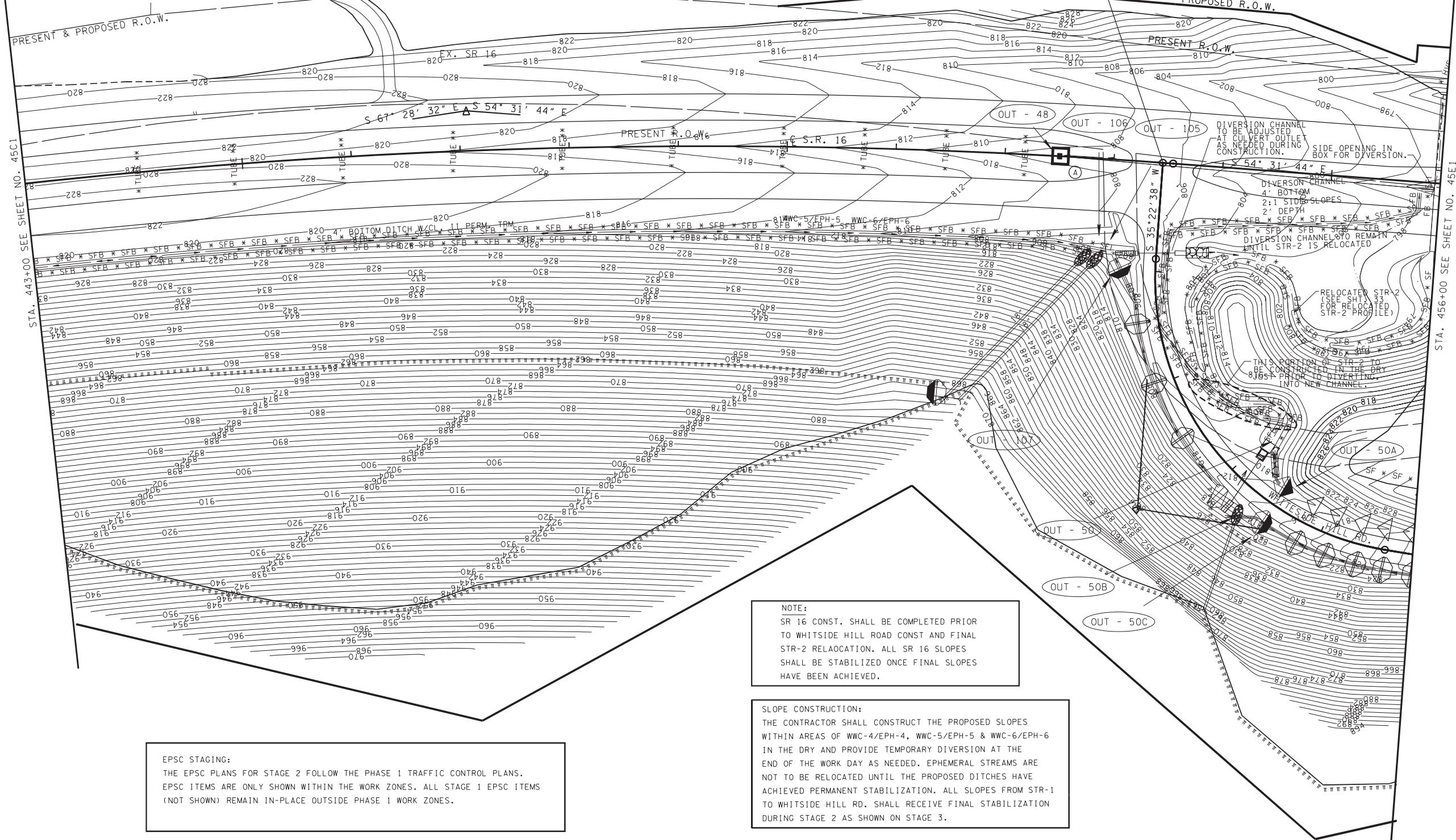
PRESENT & PROPOSED R.O.W.

PROPOSED R.O.W.

PRESENT R.O.W.

STA. 443+00 SEE SHEET NO. 45C1

STA. 456+00 SEE SHEET NO. 45E1

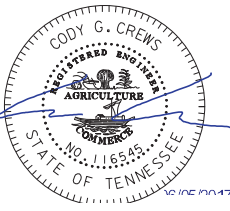


EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS. EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

NOTE:
SR 16 CONST. SHALL BE COMPLETED PRIOR TO WHITESIDE HILL ROAD CONST AND FINAL STR-2 RELOCATION. ALL SR 16 SLOPES SHALL BE STABILIZED ONCE FINAL SLOPES HAVE BEEN ACHIEVED.

SLOPE CONSTRUCTION:
THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED SLOPES WITHIN AREAS OF WWC-4/EPH-4, WWC-5/EPH-5 & WWC-6/EPH-6 IN THE DRY AND PROVIDE TEMPORARY DIVERSION AT THE END OF THE WORK DAY AS NEEDED. EPHEMERAL STREAMS ARE NOT TO BE RELOCATED UNTIL THE PROPOSED DITCHES HAVE ACHIEVED PERMANENT STABILIZATION. ALL SLOPES FROM STR-1 TO WHITESIDE HILL RD. SHALL RECEIVE FINAL STABILIZATION DURING STAGE 2 AS SHOWN ON STAGE 3.

UNOFFICIAL SET
NOT FOR BIDDING

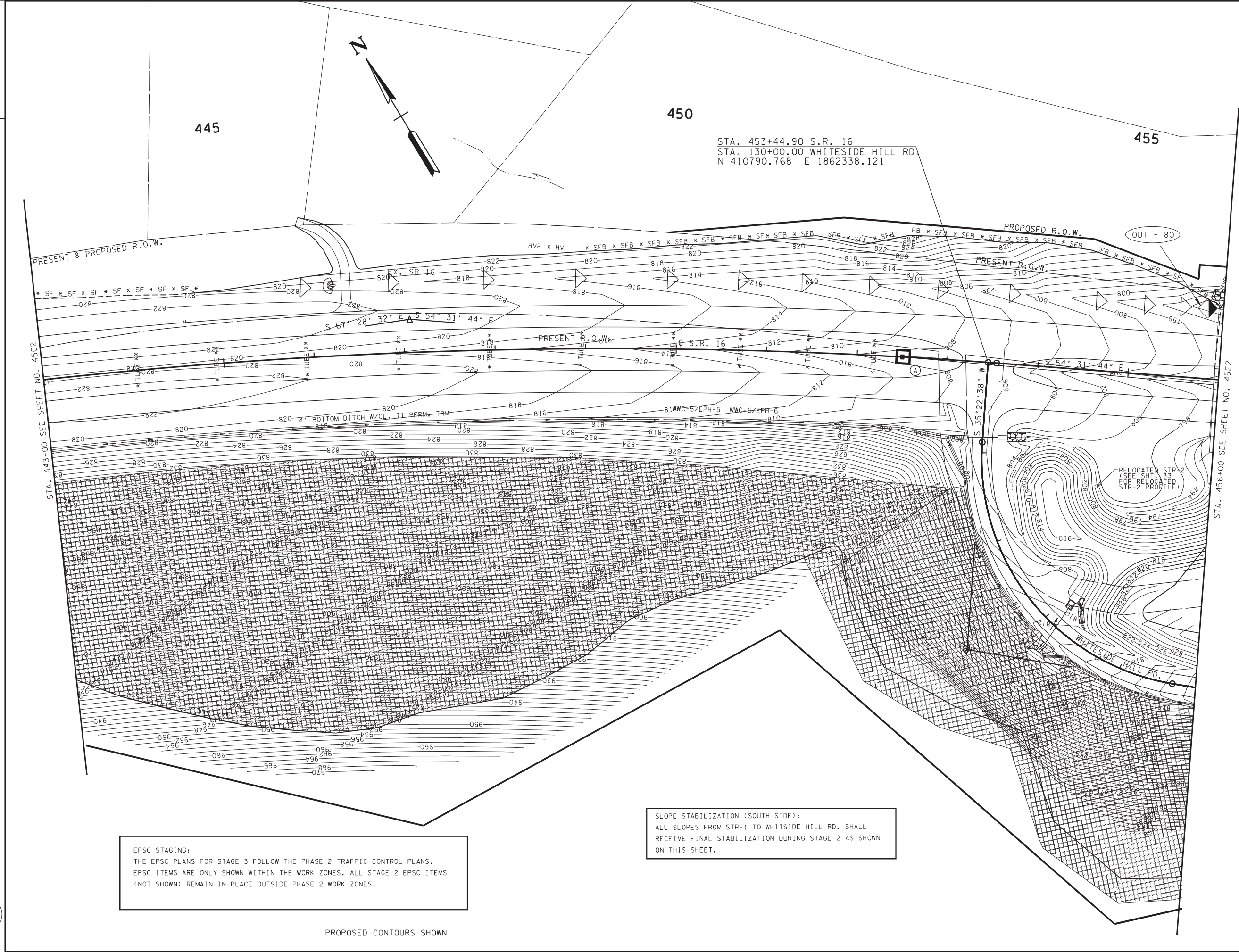


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 2
STA. 443+00 TO STA. 456+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

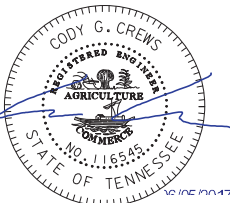
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45D2



EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

SLOPE STABILIZATION (SOUTH SIDE):
ALL SLOPES FROM STR-1 TO WHITESIDE HILL RD. SHALL
RECEIVE FINAL STABILIZATION DURING STAGE 2 AS SHOWN
ON THIS SHEET.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

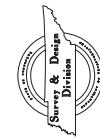


COORDINATE VALUES ARE NAD/83 (1995),
AND ARE DATUM ADJUSTED BY THE FACTOR
OF 1.0000675, AND ARE TIED TO THE
TENNESSEE GEODETIC REFERENCE NETWORK.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988.

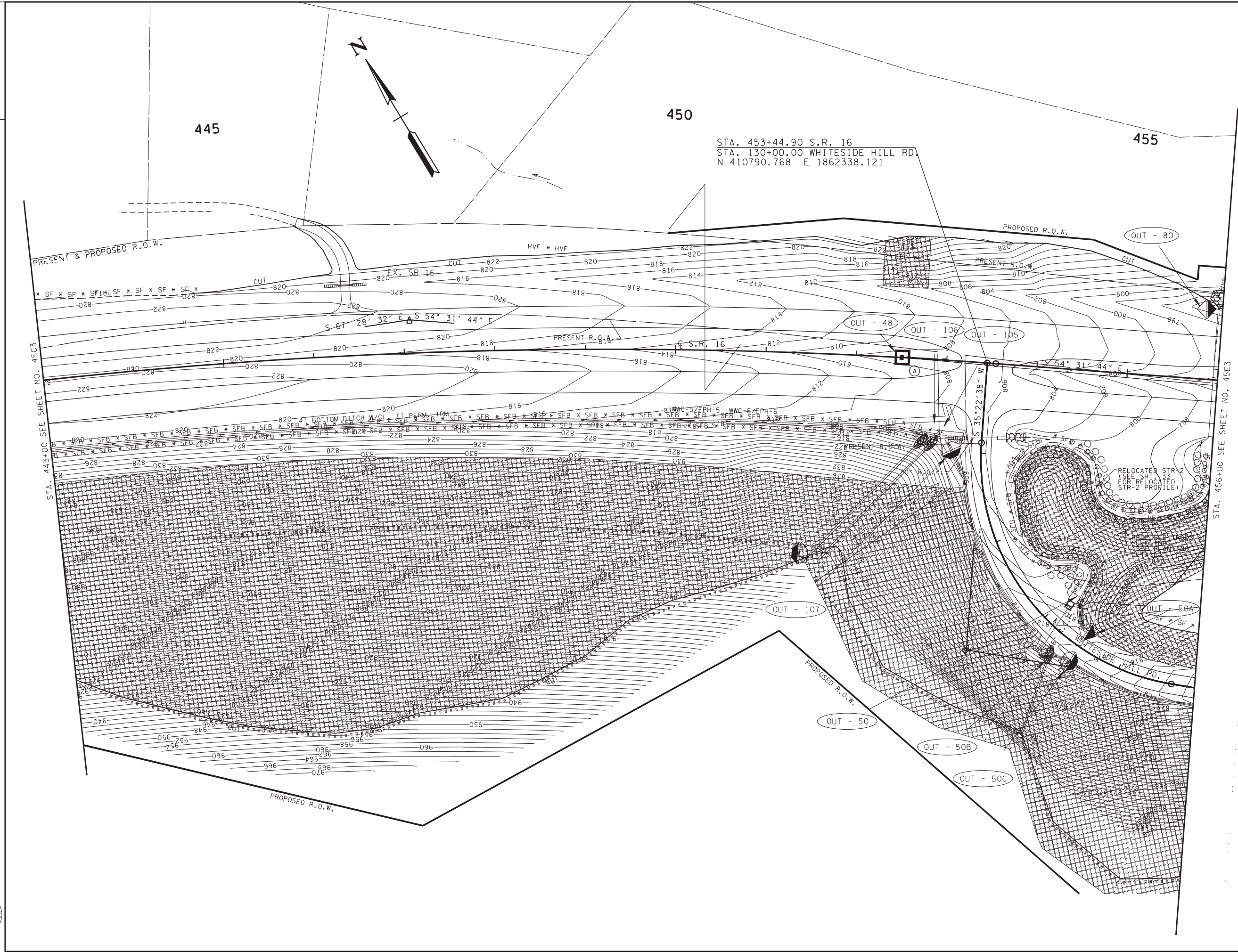
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 443+00 TO STA. 456+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:04:52 AM
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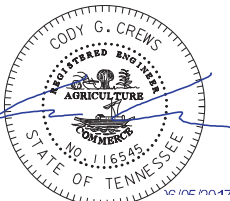
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45D3



STA. 443+00 SEE SHEET NO. 45C3

STA. 456+00 SEE SHEET NO. 45E3

**UNOFFICIAL
SET
NOT FOR
BIDDING**



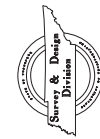
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

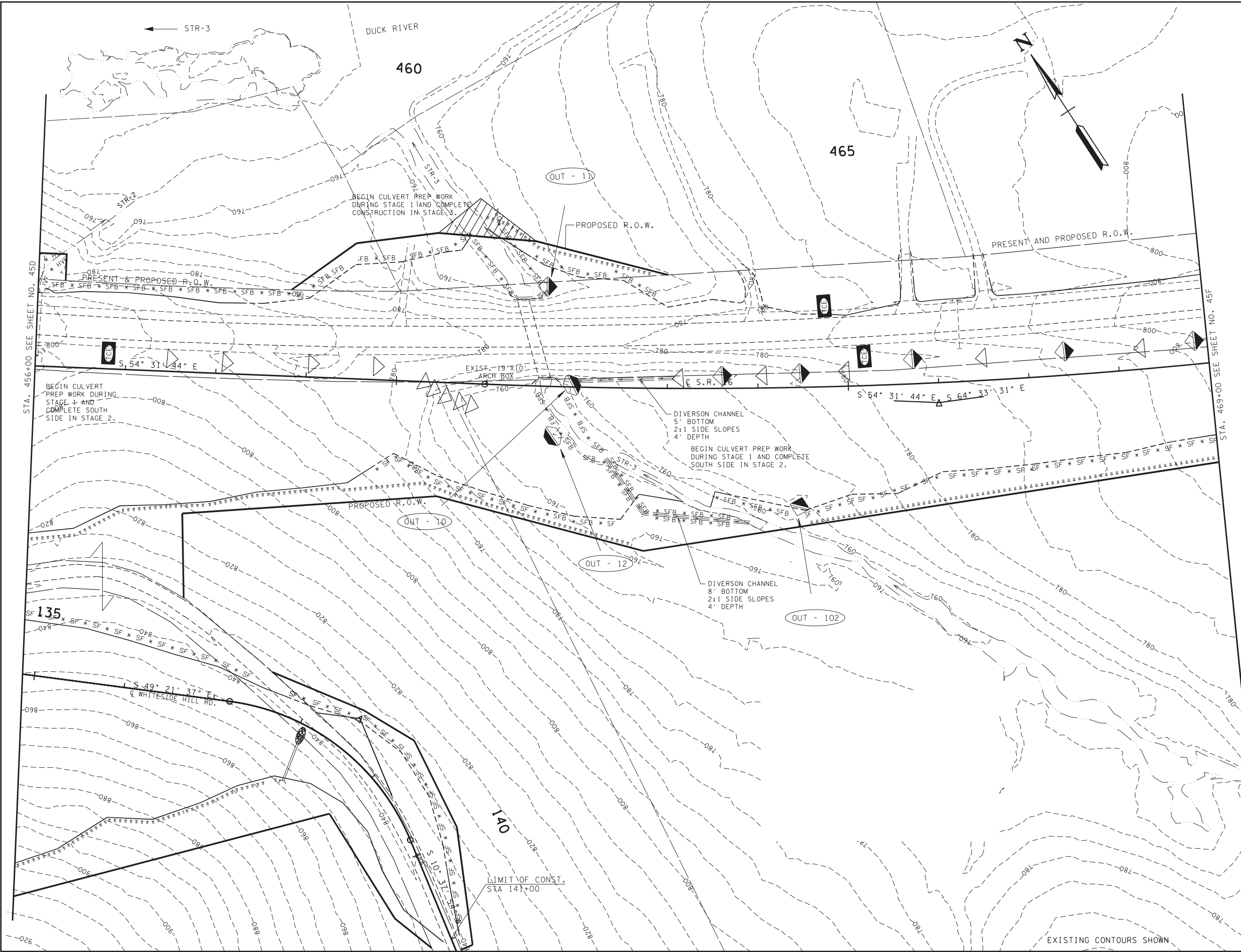
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4

STA. 443+00 TO STA. 456+00
SCALE: 1" = 50'

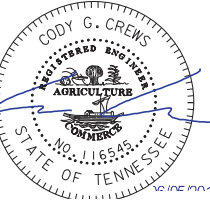
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45E



UNOFFICIAL SET
NOT FOR BIDDING



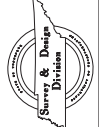
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

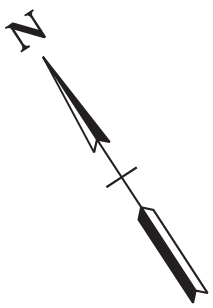
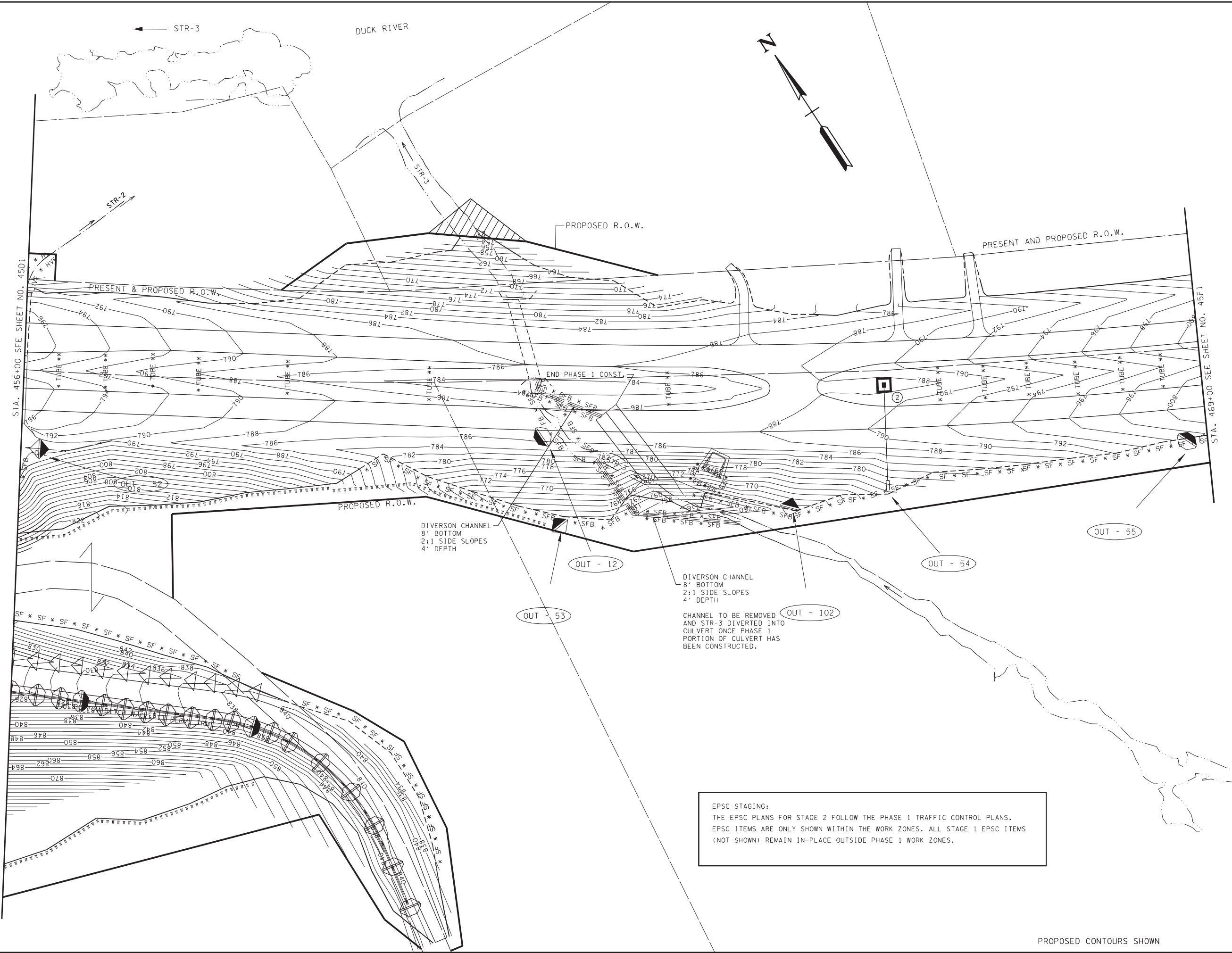
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 1

STA. 456+00 TO STA. 469+00
SCALE: 1" = 50'

6/5/2017 8:04:56 AM
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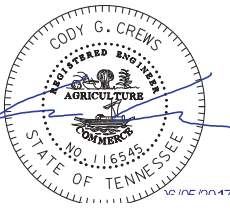
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45E1



STA. 456+00 SEE SHEET NO. 45D1

STA. 469+00 SEE SHEET NO. 45F1

UNOFFICIAL SET
NOT FOR BIDDING



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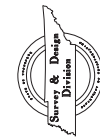
EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS. EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

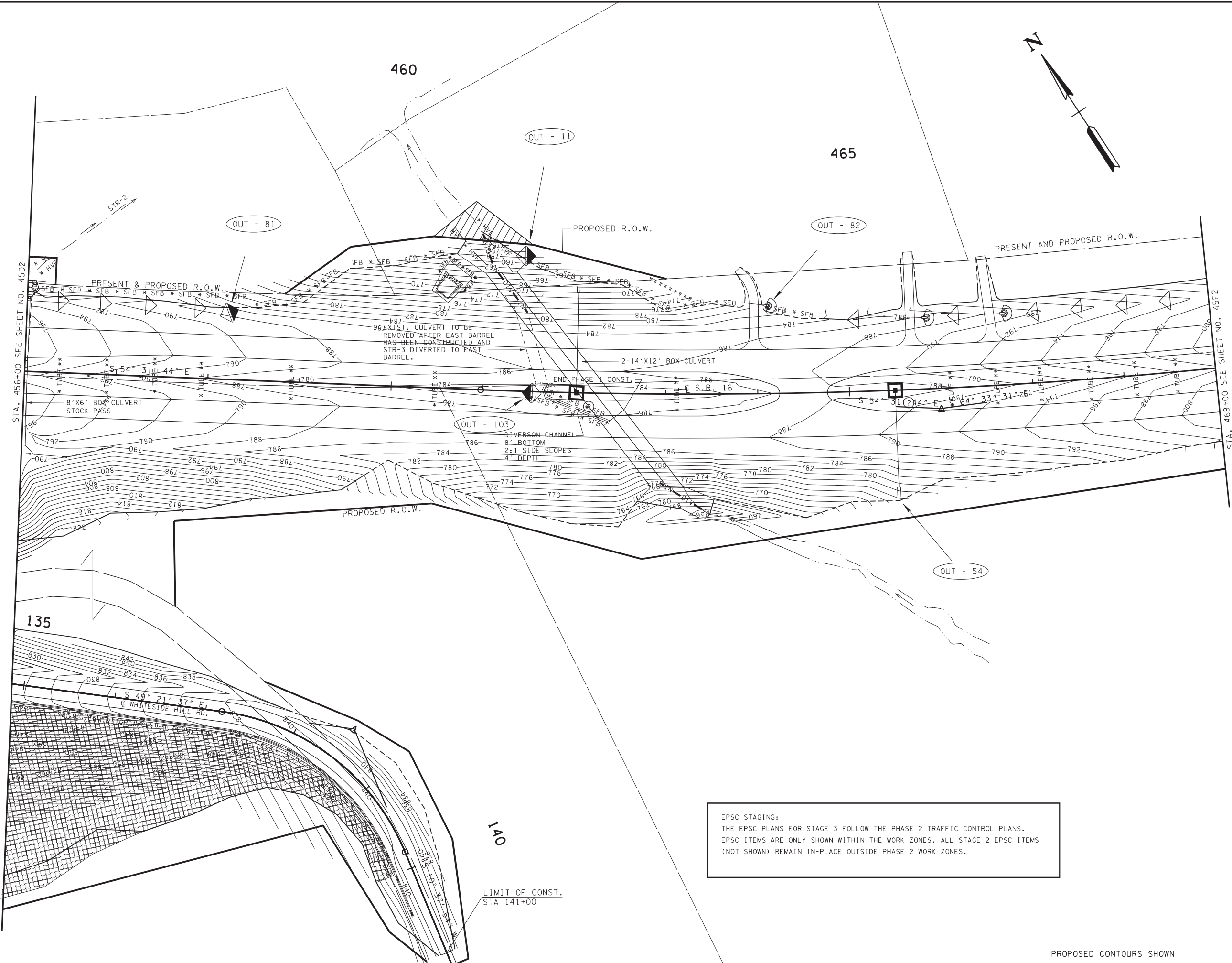
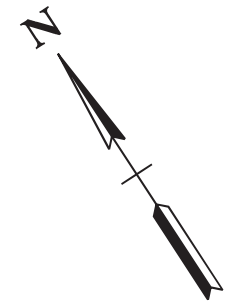
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 2
STA. 456+00 TO STA. 469+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:04:57 AM
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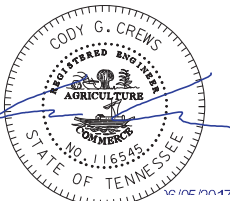
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45E2



STA. 456+00 SEE SHEET NO. 45D2

STA. 469+00 SEE SHEET NO. 45F2

UNOFFICIAL SET
NOT FOR BIDDING



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EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS. EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

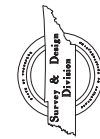
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 3
STA. 456+00 TO STA. 469+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

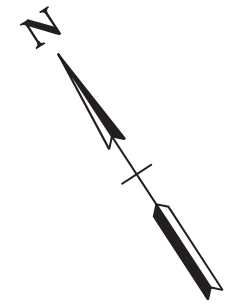
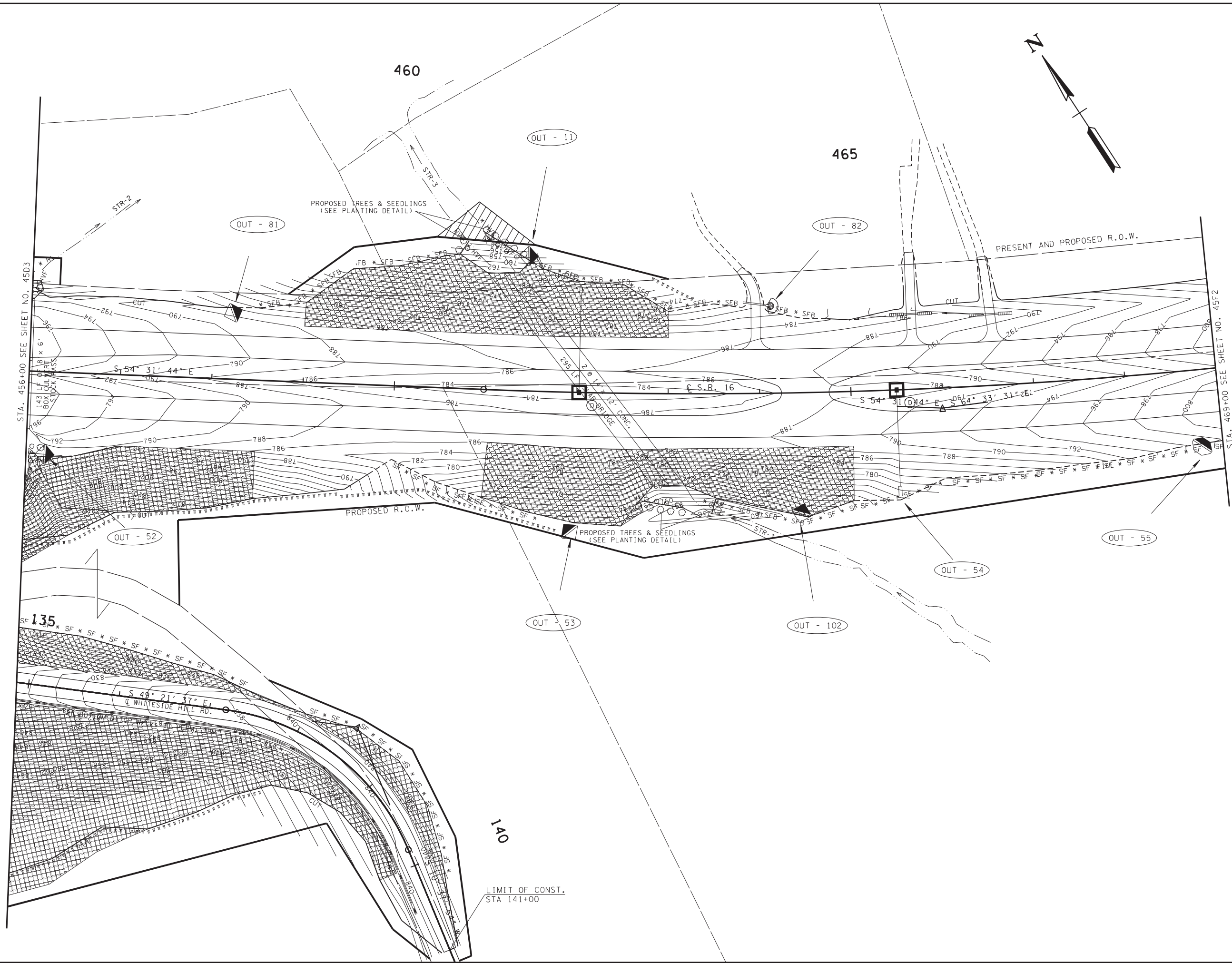
140

LIMIT OF CONST.
STA 141+00

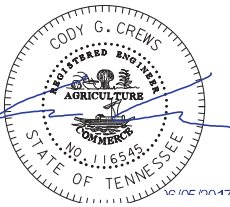
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45E3



**UNOFFICIAL
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NOT FOR
BIDDING**



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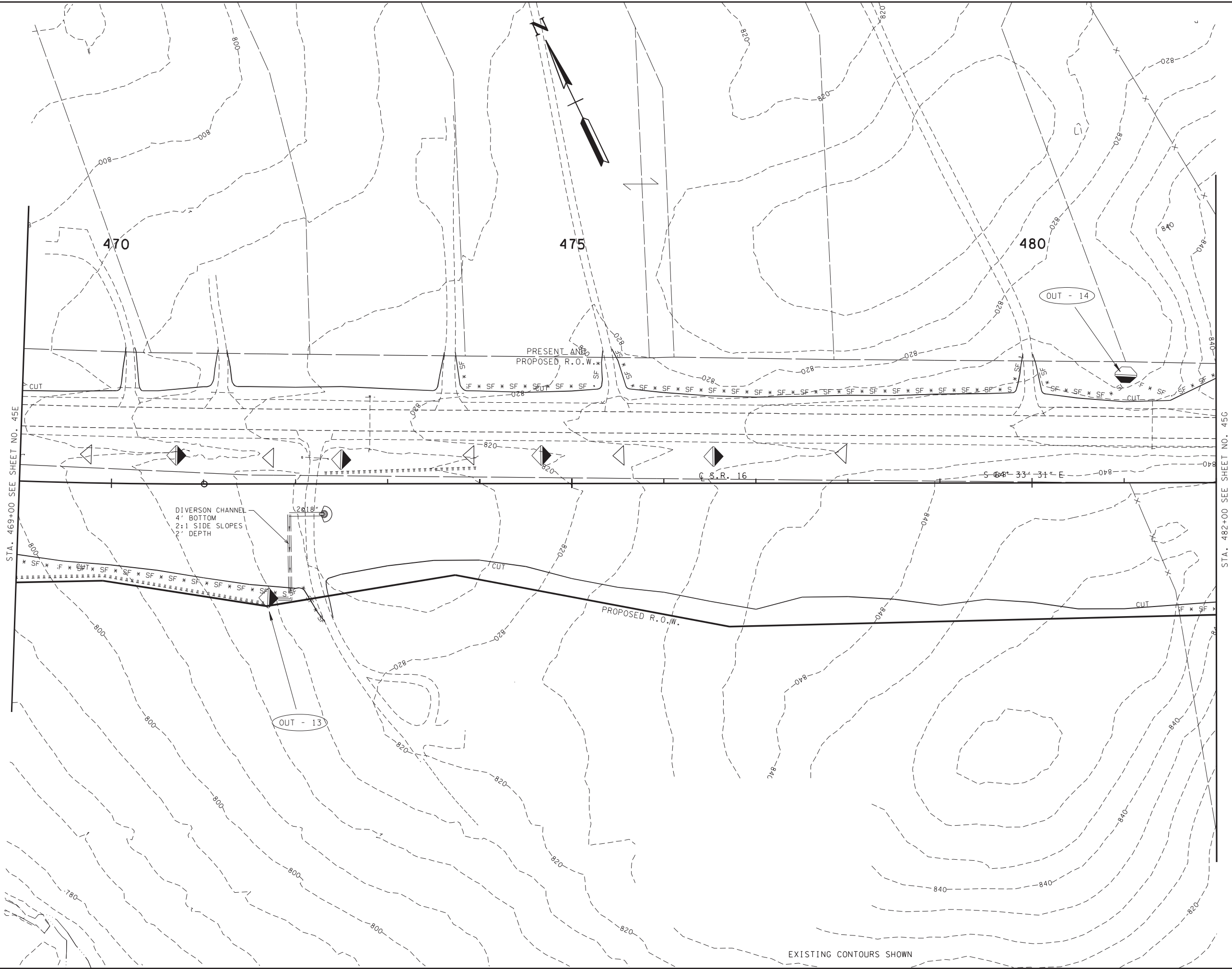
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4
STA. 456+00 TO STA. 469+00
SCALE: 1" = 50'

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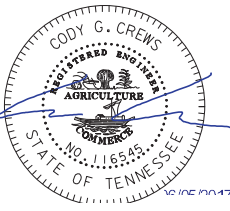
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45F



STA. 469+00 SEE SHEET NO. 45E

STA. 482+00 SEE SHEET NO. 45G

**UNOFFICIAL
SET
NOT FOR
BIDDING**



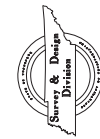
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

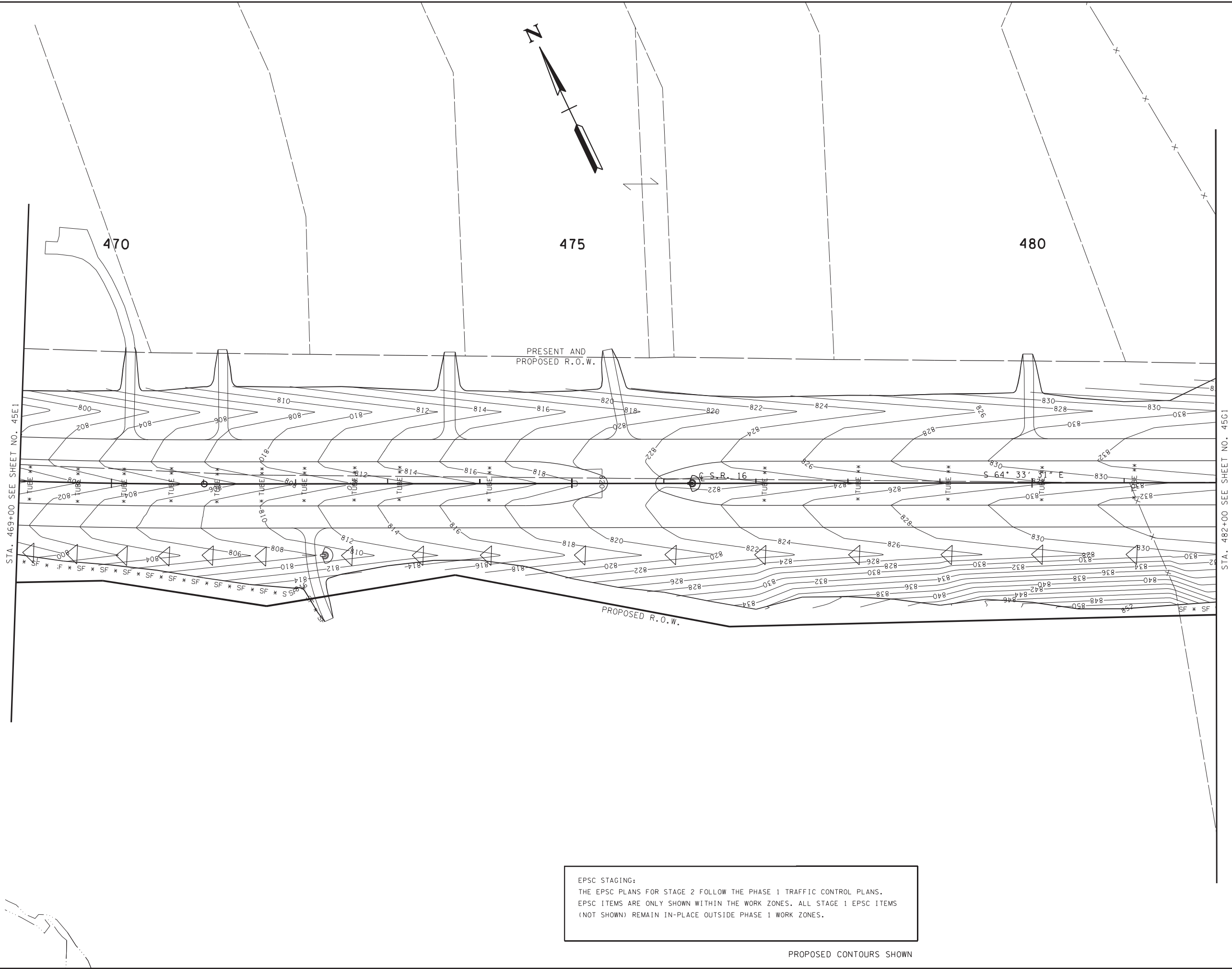
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1

STA. 469+00 TO STA. 482+00
SCALE: 1" = 50'

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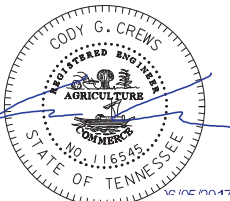


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45F1



STA. 469+00 SEE SHEET NO. 45E1
STA. 482+00 SEE SHEET NO. 45G1

**UNOFFICIAL
SET
NOT FOR
BIDDING**



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EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

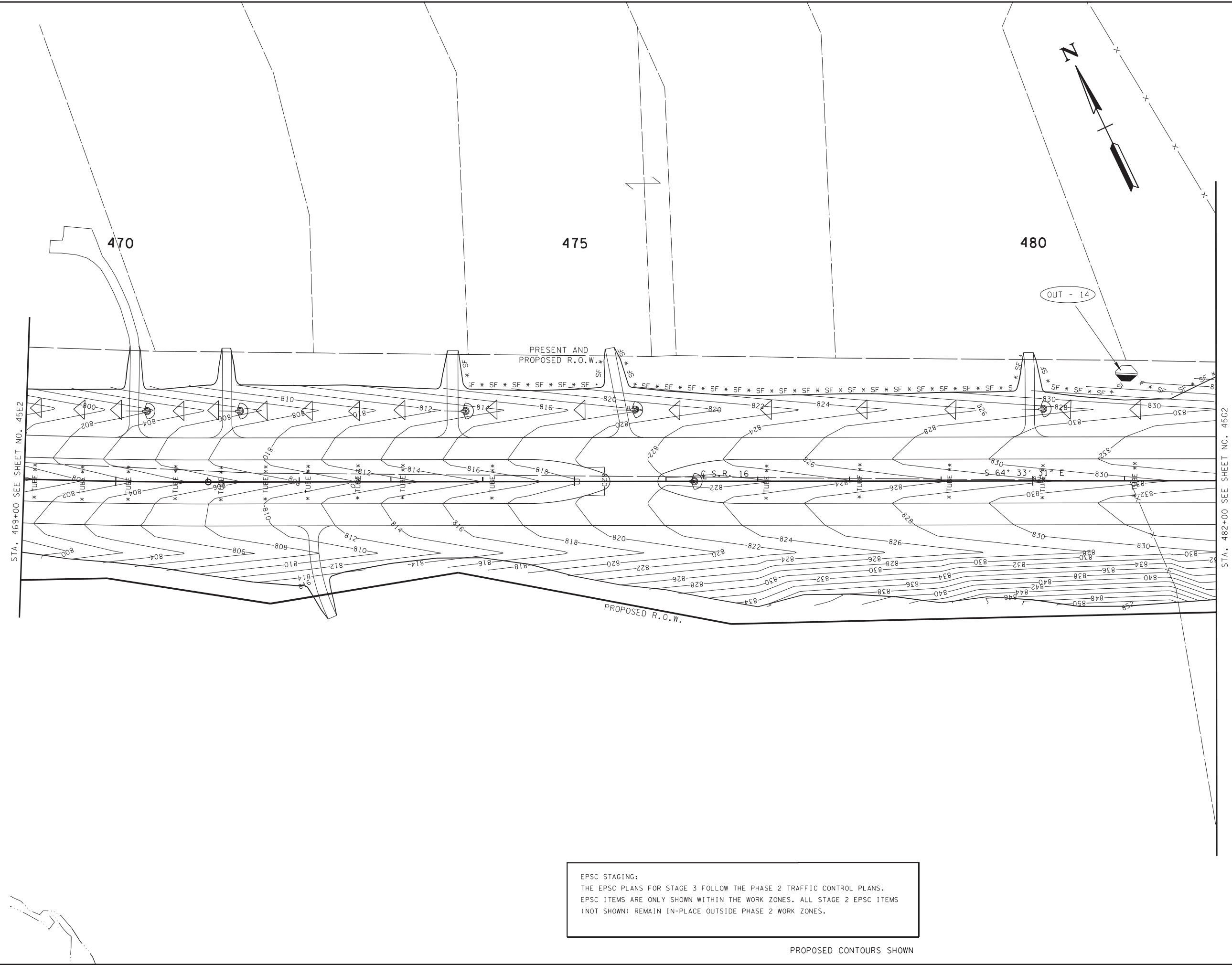
PROPOSED CONTOURS SHOWN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2
STA. 469+00 TO STA. 482+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45F2



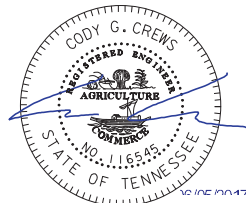
STA. 469+00 SEE SHEET NO. 45E2

STA. 482+00 SEE SHEET NO. 45G2

EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

PROPOSED CONTOURS SHOWN

**UNOFFICIAL
SET
NOT FOR
BIDDING**

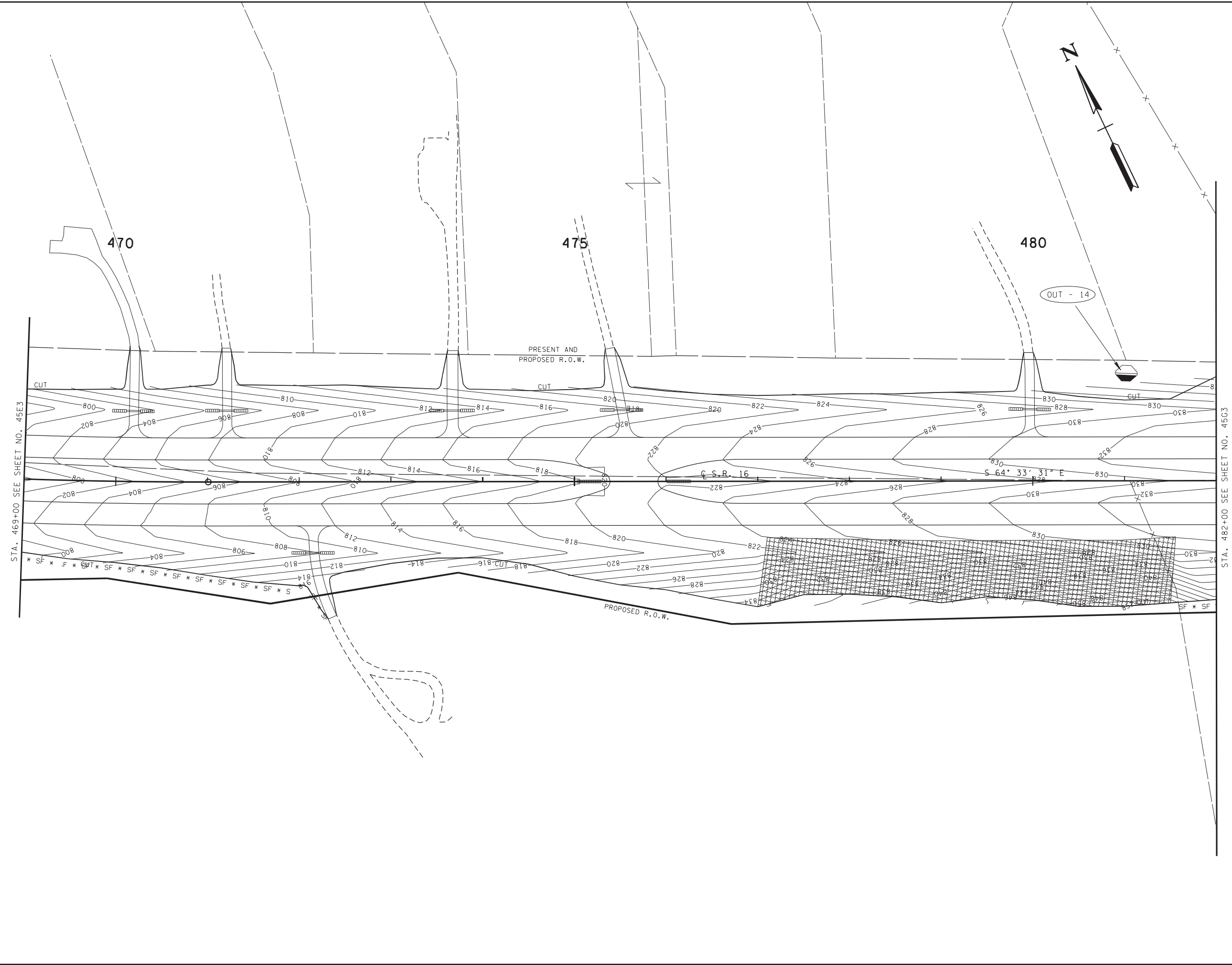


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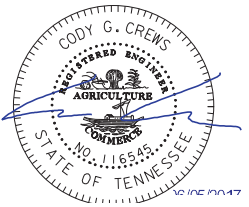
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 469+00 TO STA. 482+00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45F3



**UNOFFICIAL
SET
NOT FOR
BIDDING**



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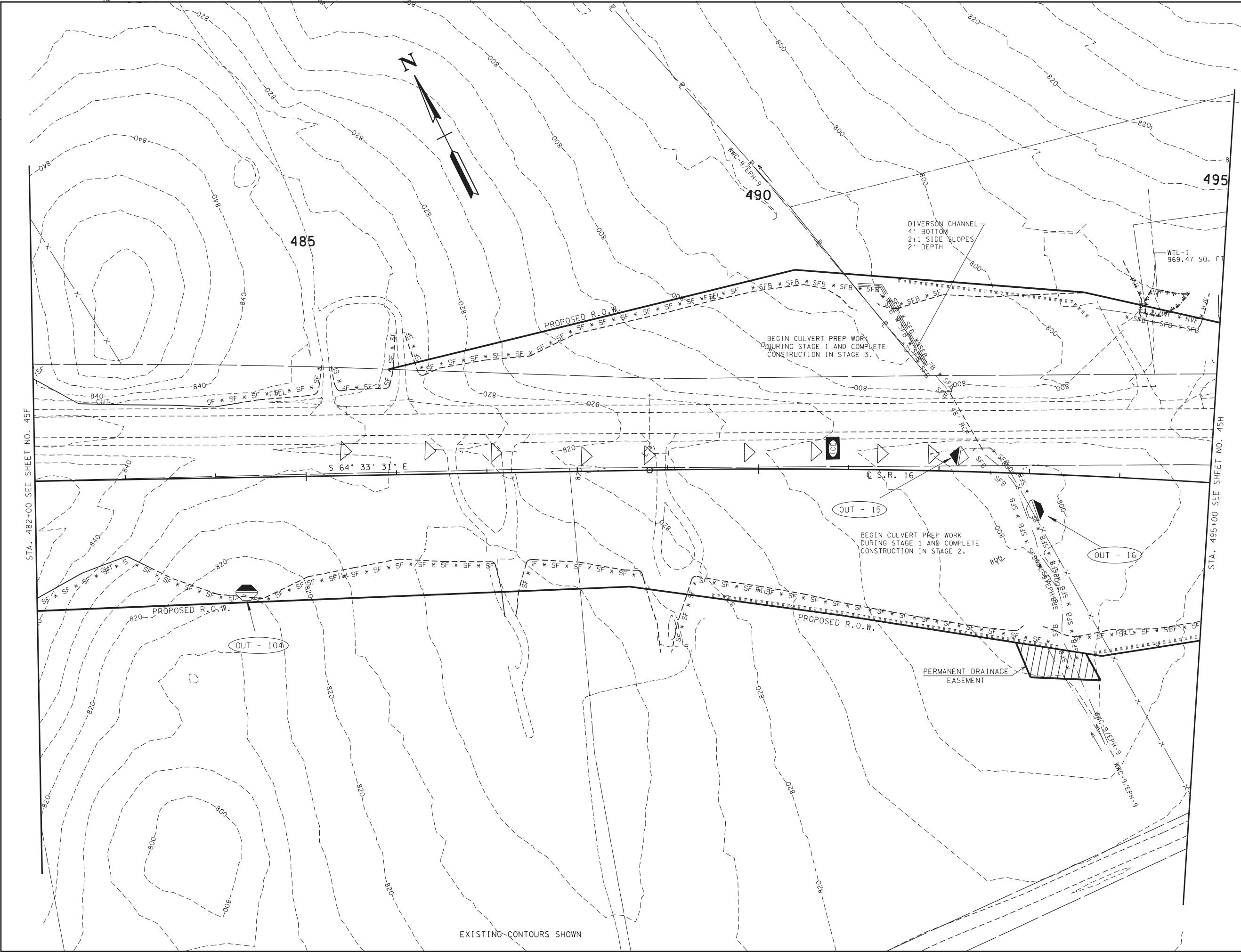
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4

STA. 469+00 TO STA. 482+00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45G



495

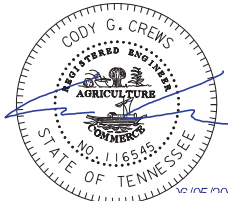
490

485

STA. 482+00 SEE SHEET NO. 45F

STA. 495+00 SEE SHEET NO. 45H

**UNOFFICIAL
SET
NOT FOR
BIDDING**



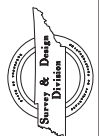
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1

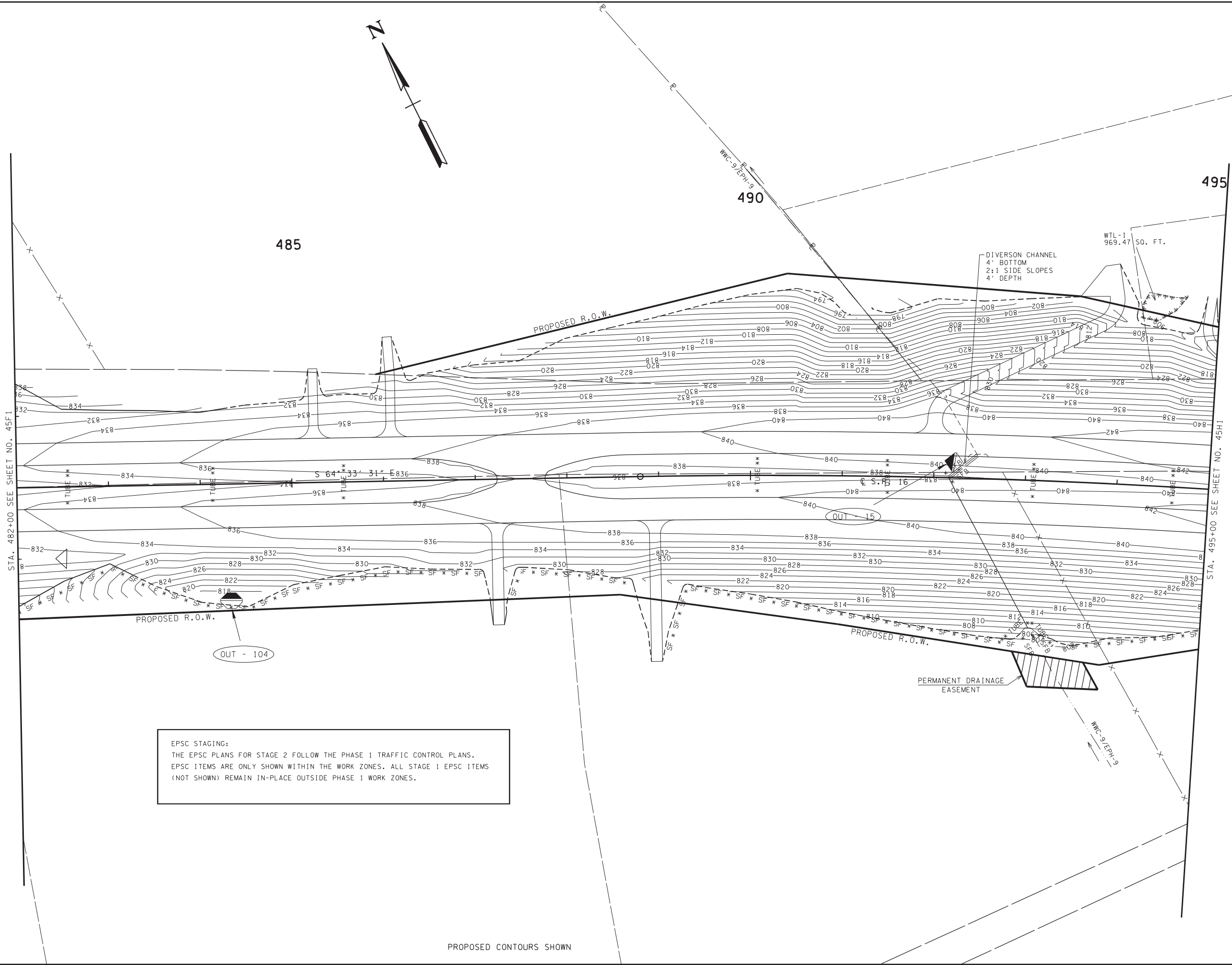
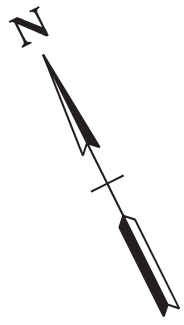
STA. 482+00 TO STA. 495+00
SCALE: 1" = 50'

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EXISTING-CONTOURS SHOWN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45G1

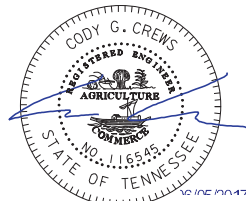


STA. 482+00 SEE SHEET NO. 45F1

STA. 495+00 SEE SHEET NO. 45H1

EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

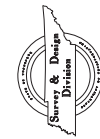


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

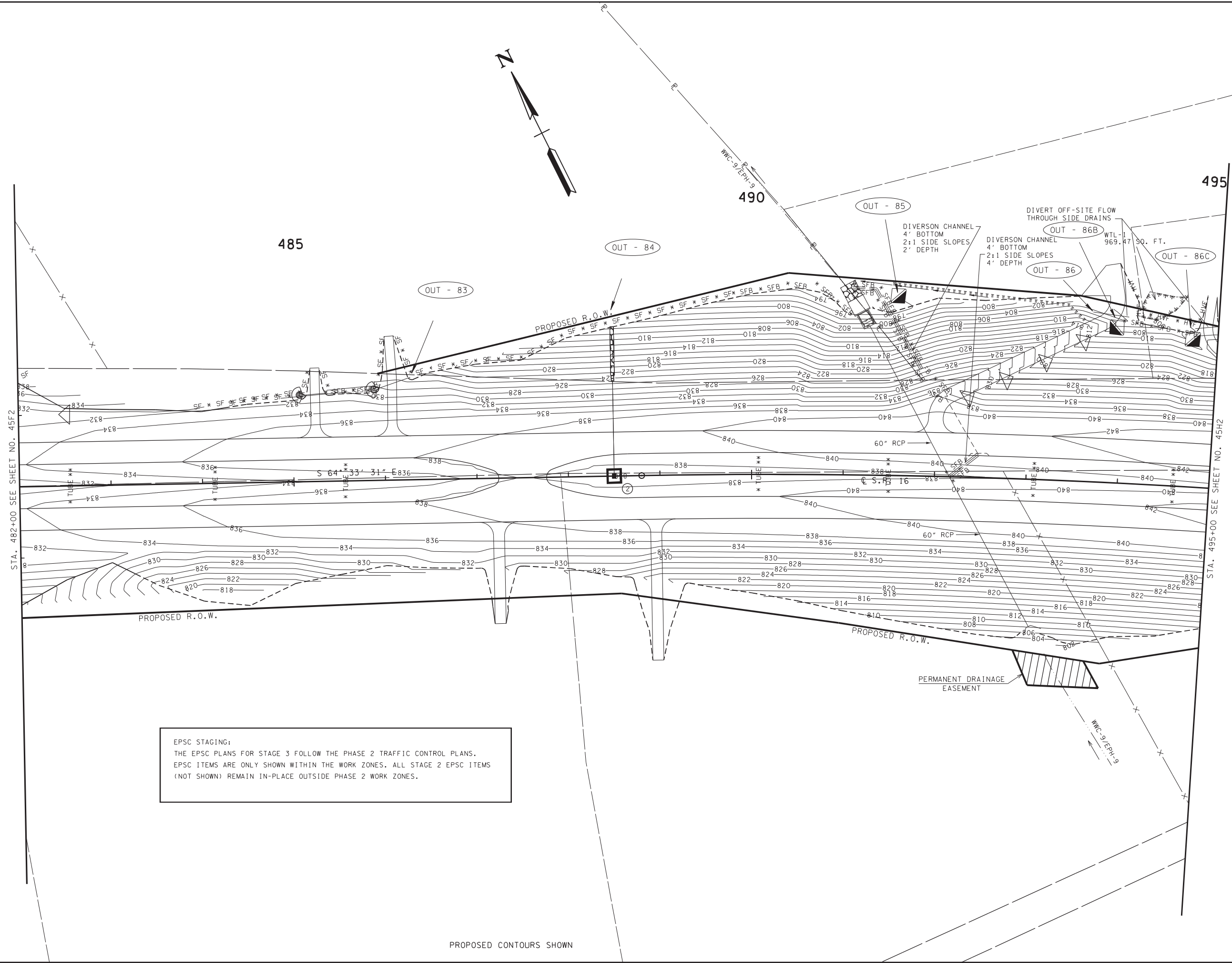
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2
STA. 482+00 TO STA. 495+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:02:07 AM
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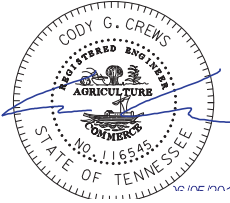


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45G2



EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

**UNOFFICIAL
SET
NOT FOR
BIDDING**



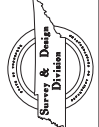
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

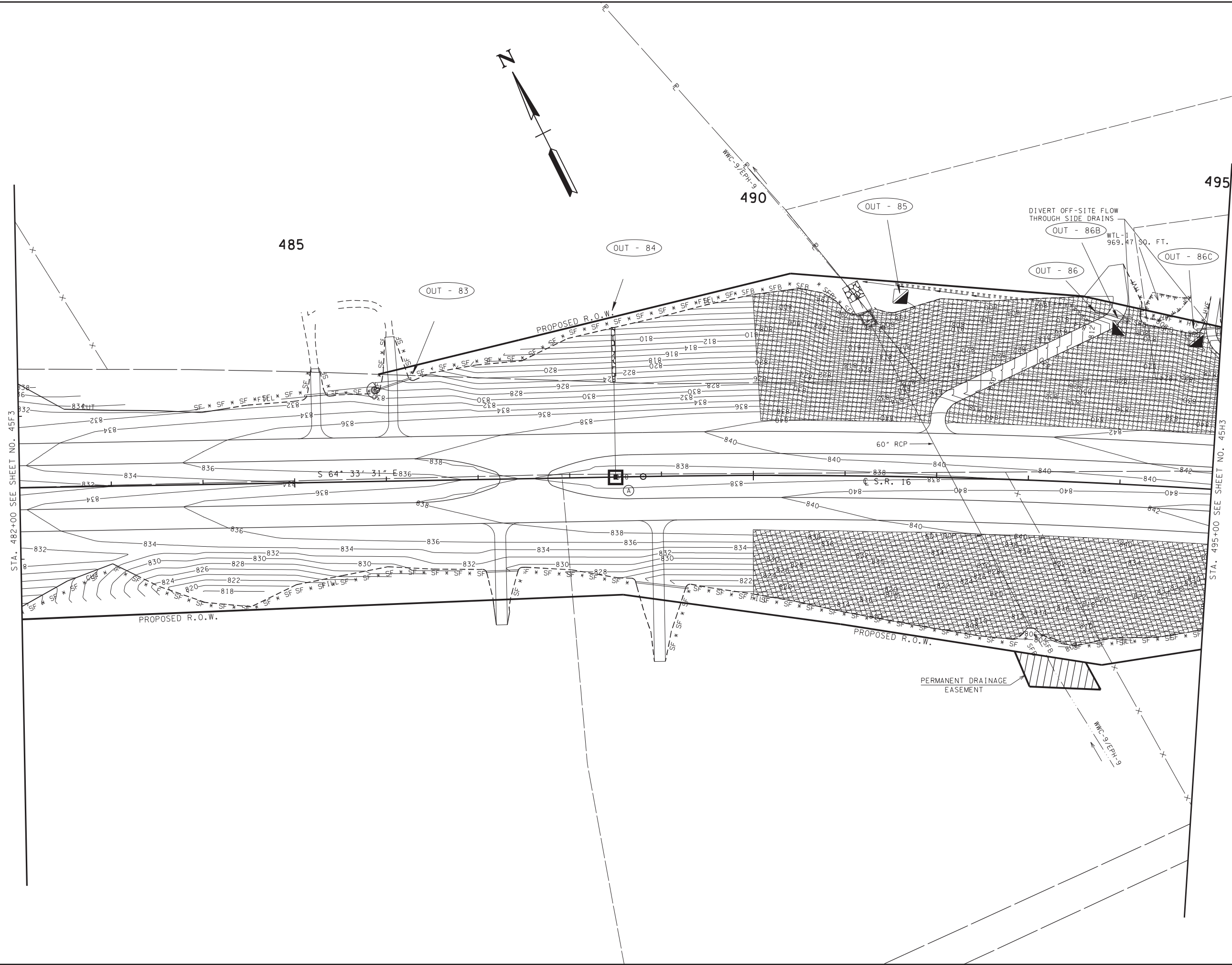
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 482+00 TO STA. 495+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:02:08 AM
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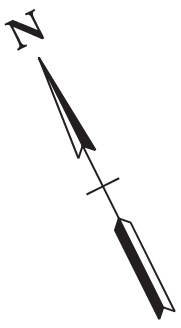


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45G3

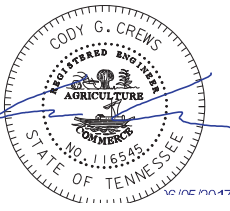


STA. 482+00 SEE SHEET NO. 45F3

STA. 495+00 SEE SHEET NO. 45H3



**UNOFFICIAL
SET
NOT FOR
BIDDING**



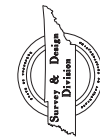
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

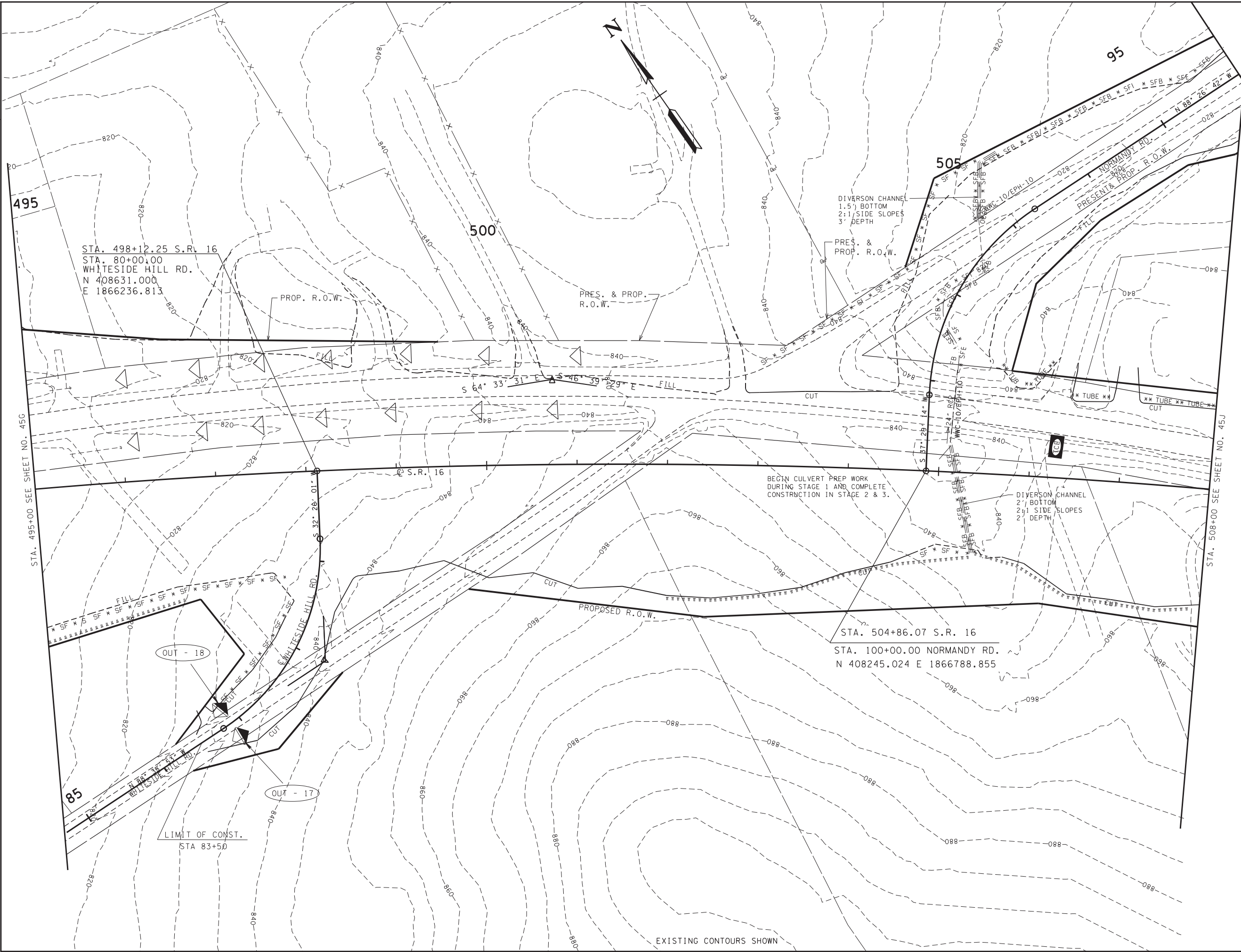
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4

STA. 482+00 TO STA. 495+00
SCALE: 1" = 50'

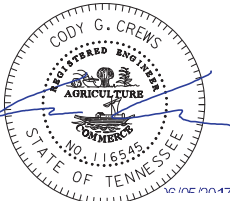
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45H



**UNOFFICIAL
SET
NOT FOR
BIDDING**



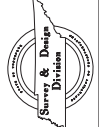
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

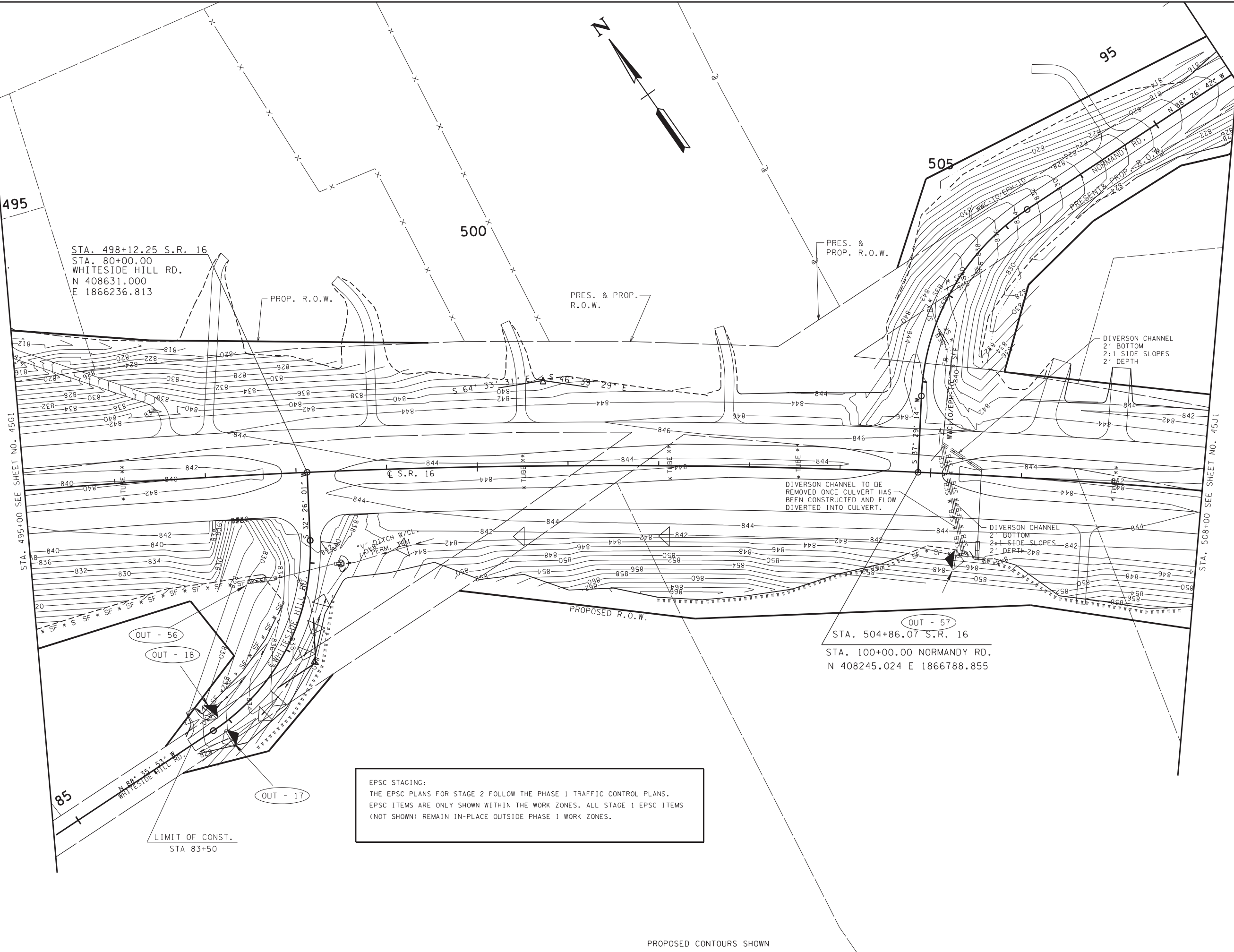
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1

STA. 495+00 TO STA. 508+00
SCALE: 1" = 50'

6/5/2017 8:02:11 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45H1



STA. 498+12.25 S.R. 16
STA. 80+00.00
WHITESIDE HILL RD.
N 408631.000
E 1866236.813

PROP. R.O.W.

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

DIVERSION CHANNEL
2' BOTTOM
2:1 SIDE SLOPES
2' DEPTH

DIVERSION CHANNEL TO BE
REMOVED ONCE CULVERT HAS
BEEN CONSTRUCTED AND FLOW
DIVERTED INTO CULVERT.

DIVERSION CHANNEL
2' BOTTOM
2:1 SIDE SLOPES
2' DEPTH

OUT - 56
OUT - 18

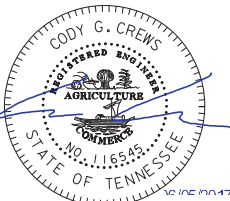
OUT - 57
STA. 504+86.07 S.R. 16
STA. 100+00.00 NORMANDY RD.
N 408245.024 E 1866788.855

LIMIT OF CONST.
STA 83+50

EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

PROPOSED CONTOURS SHOWN

**UNOFFICIAL
SET
NOT FOR
BIDDING**

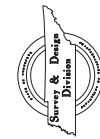


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ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988.

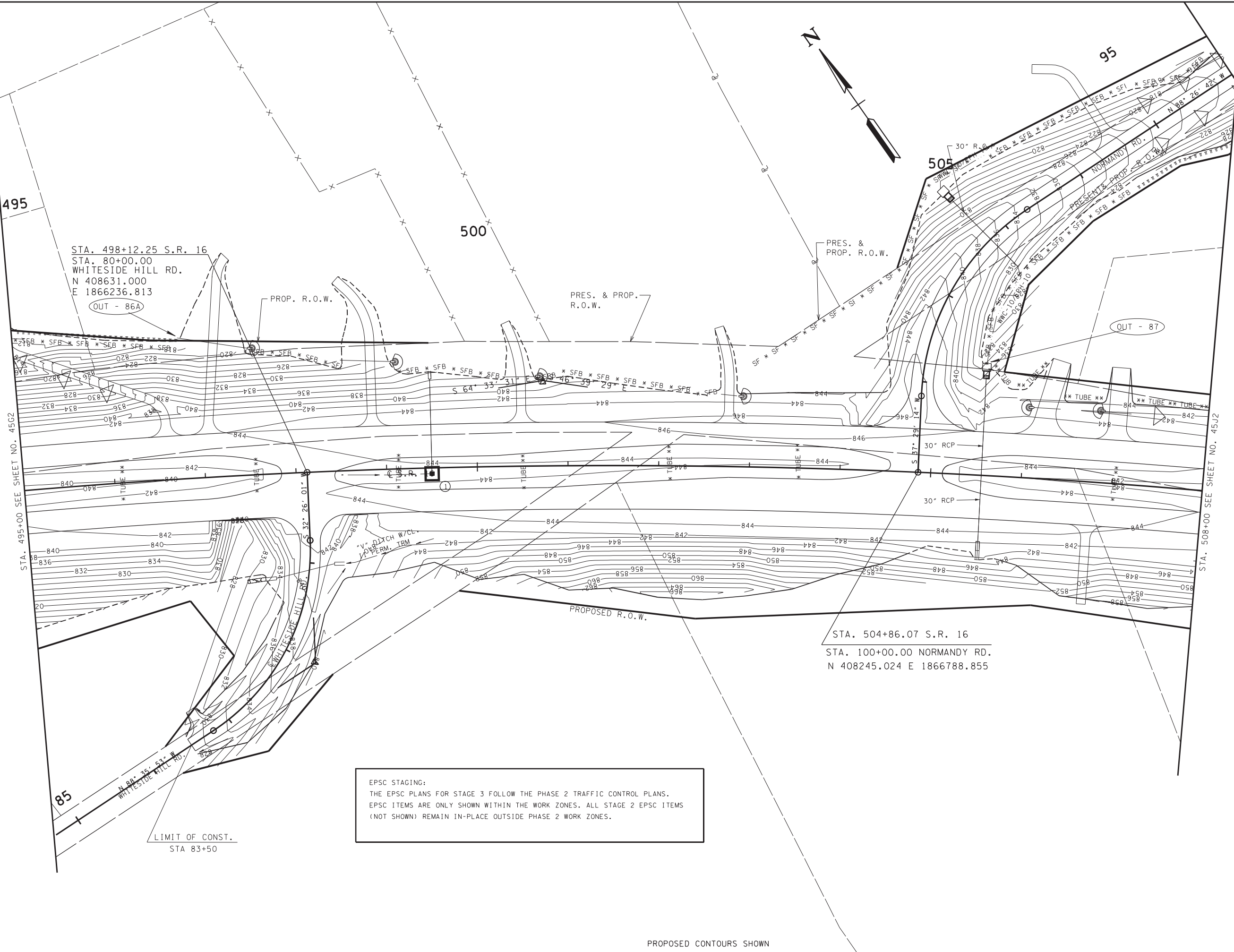
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2

STA. 495+00 TO STA. 508+00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45H2



STA. 498+12.25 S.R. 16
STA. 80+00.00
WHITESIDE HILL RD.
N 408631.000
E 1866236.813
OUT - 86A

PRES. & PROP.
R.O.W.

PRES. &
PROP. R.O.W.

OUT - 87

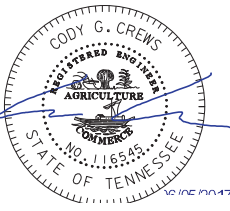
STA. 504+86.07 S.R. 16
STA. 100+00.00 NORMANDY RD.
N 408245.024 E 1866788.855

LIMIT OF CONST.
STA 83+50

EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

PROPOSED CONTOURS SHOWN

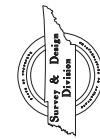
**UNOFFICIAL
SET
NOT FOR
BIDDING**



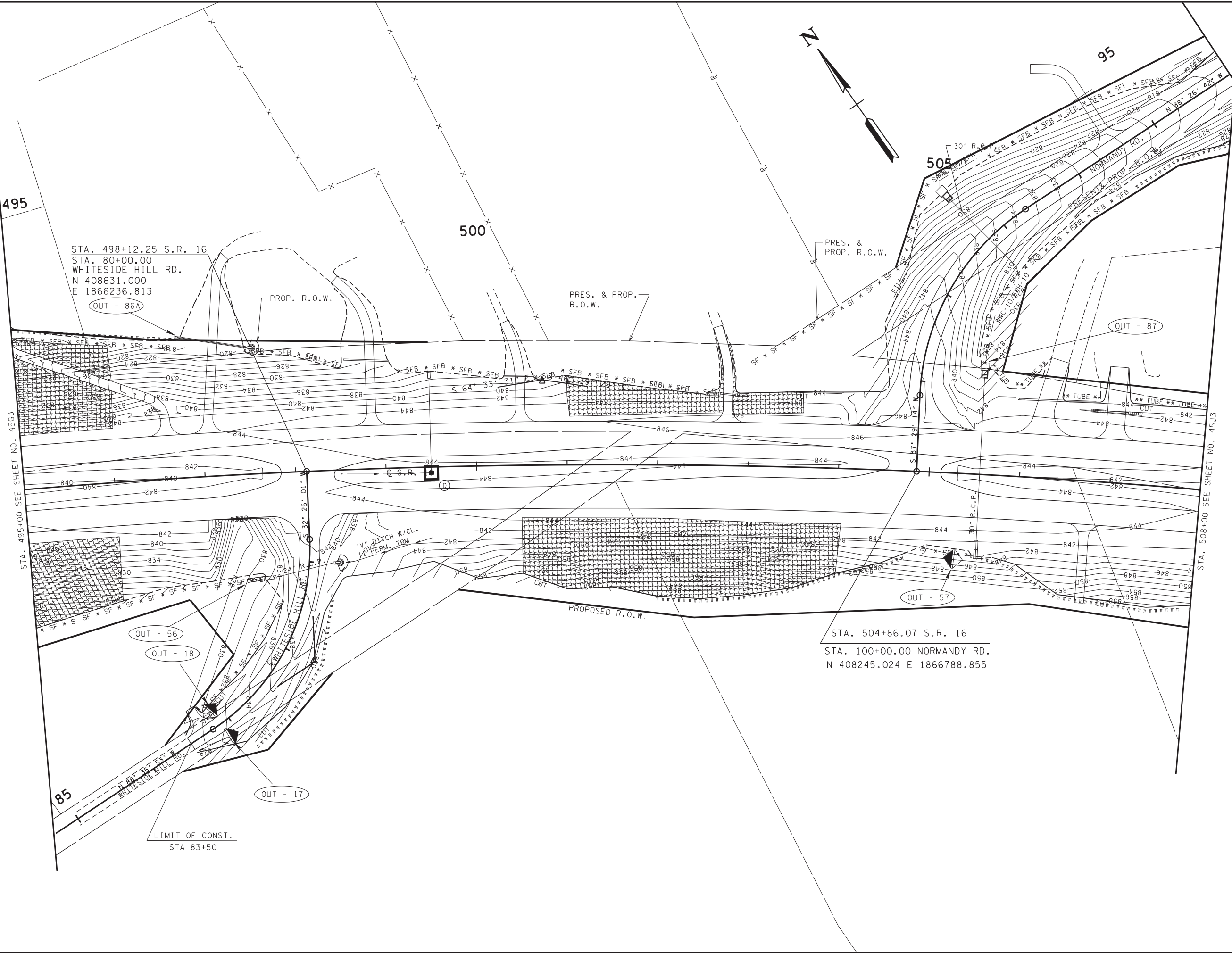
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TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

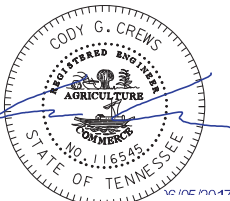
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 495+00 TO STA. 508+00
SCALE: 1"= 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45H3



**UNOFFICIAL
SET
NOT FOR
BIDDING**



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

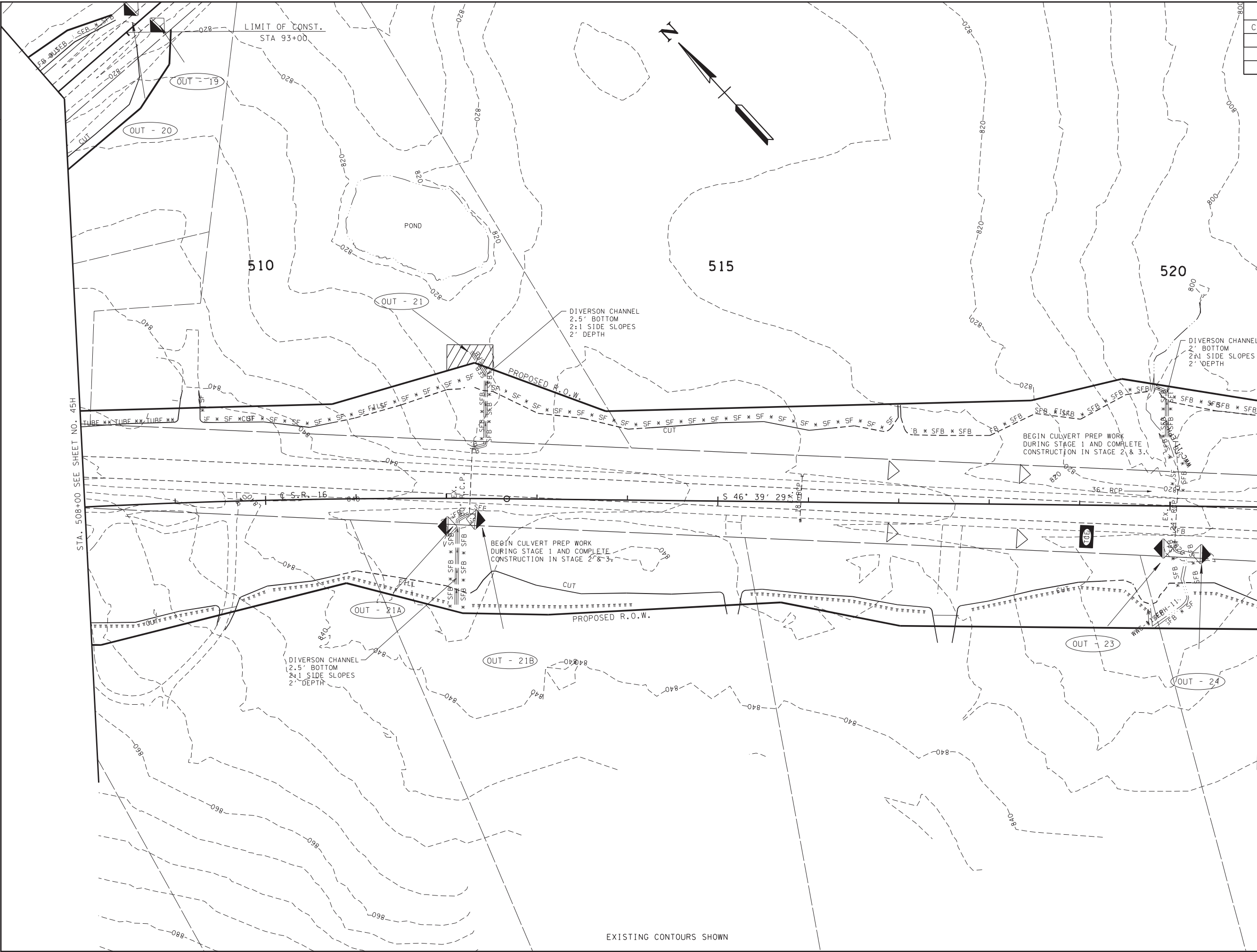
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4

STA. 495+00 TO STA. 508+00
SCALE: 1" = 50'

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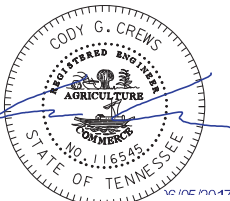
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45J



STA. 508+00 SEE SHEET NO. 45H

STA. 521+00 SEE SHEET NO. 45K

**UNOFFICIAL
SET
NOT FOR
BIDDING**



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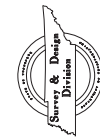
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1

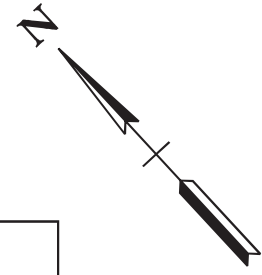
STA. 508+00 TO STA. 521+00
SCALE: 1" = 50'

EXISTING CONTOURS SHOWN

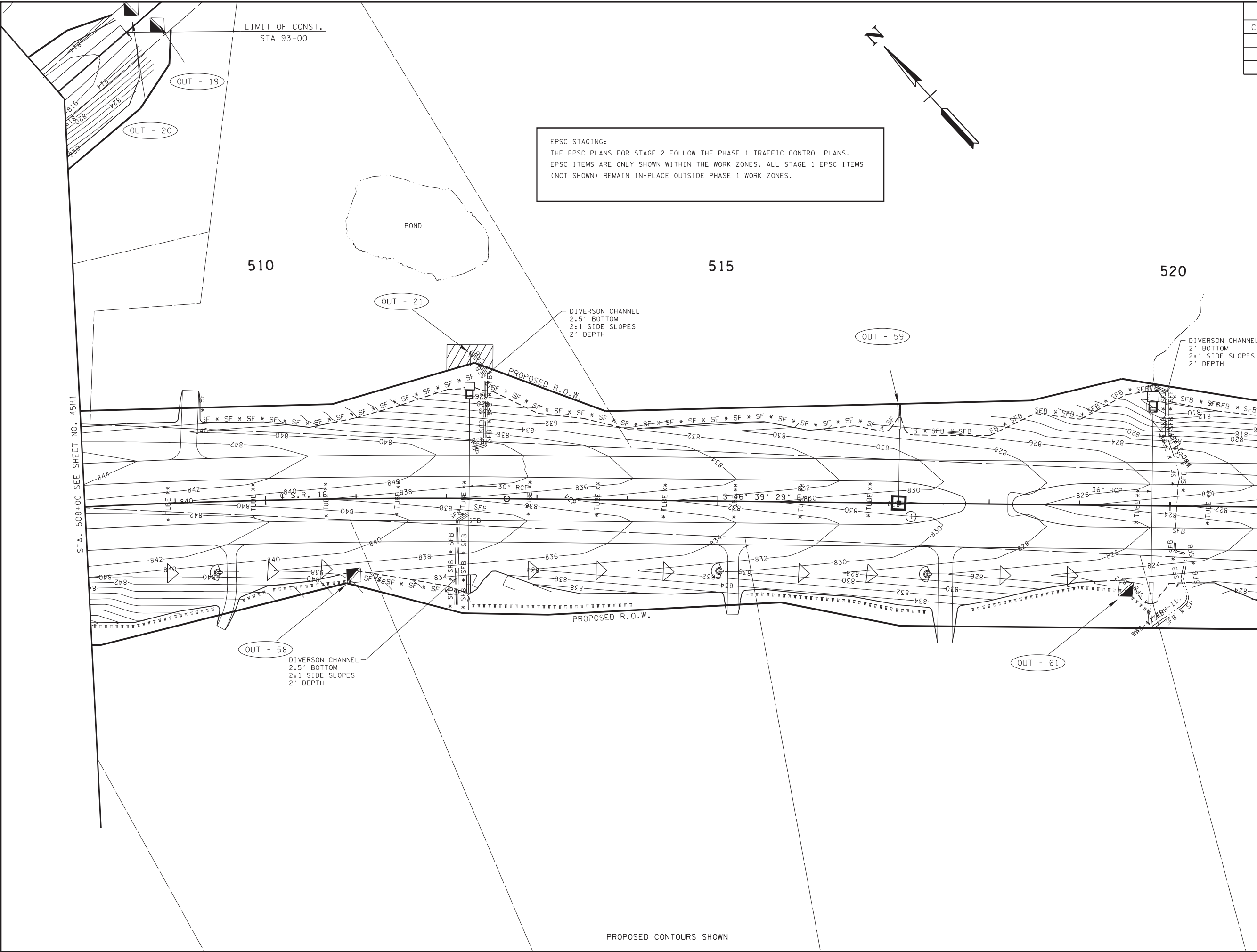
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45J1



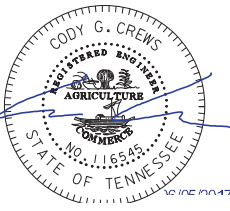
EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.



STA. 508+00 SEE SHEET NO. 45H1

STA. 521+00 SEE SHEET NO. 45K1

UNOFFICIAL SET
NOT FOR BIDDING

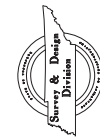


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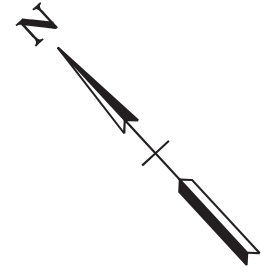
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 2
STA. 508+00 TO STA. 521+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

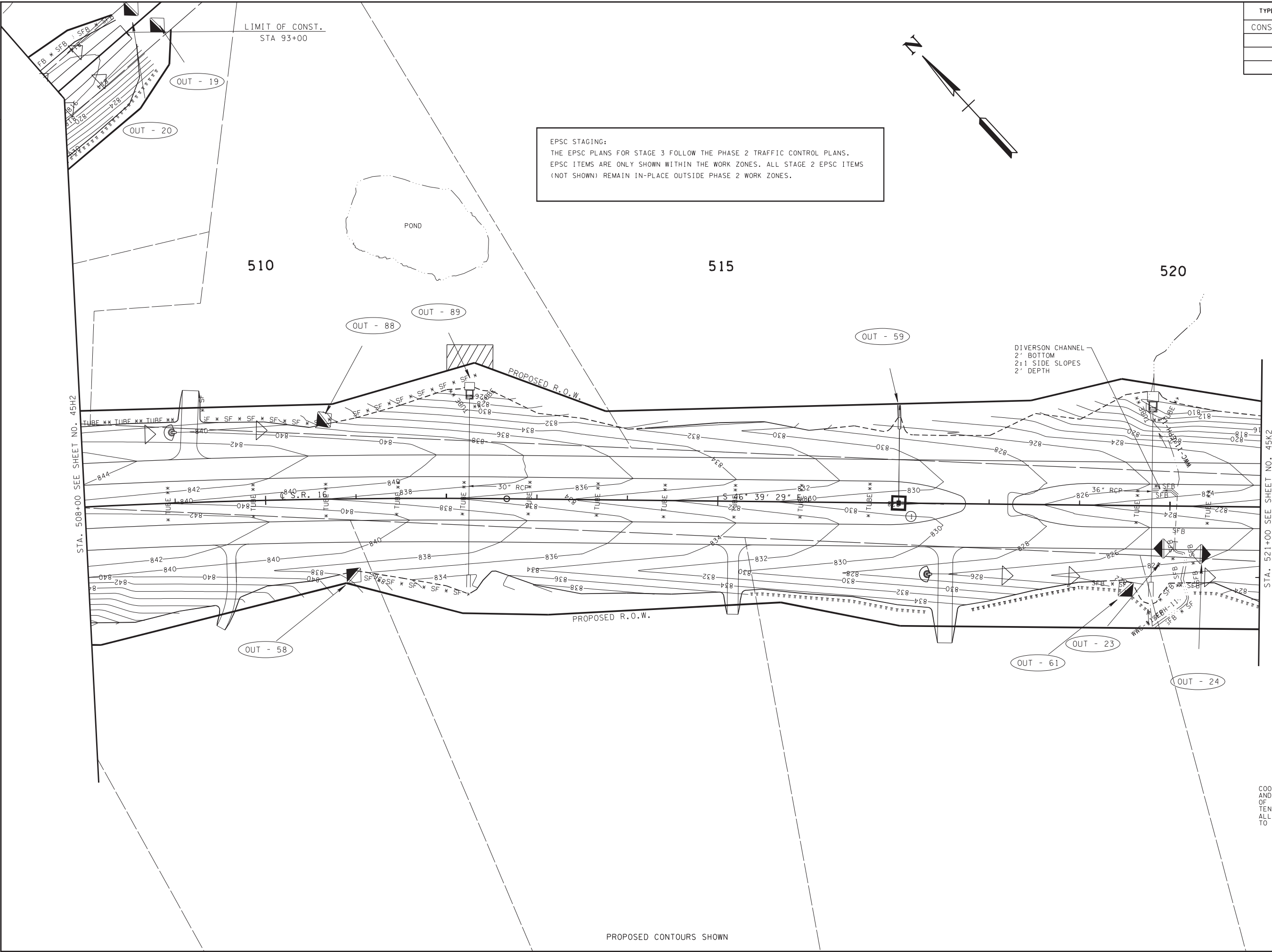
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45J2



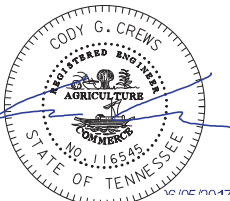
EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.



STA. 508+00 SEE SHEET NO. 45H2

STA. 521+00 SEE SHEET NO. 45K2

UNOFFICIAL SET
NOT FOR BIDDING

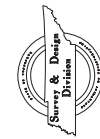


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 3
STA. 508+00 TO STA. 521+00
SCALE: 1" = 50'

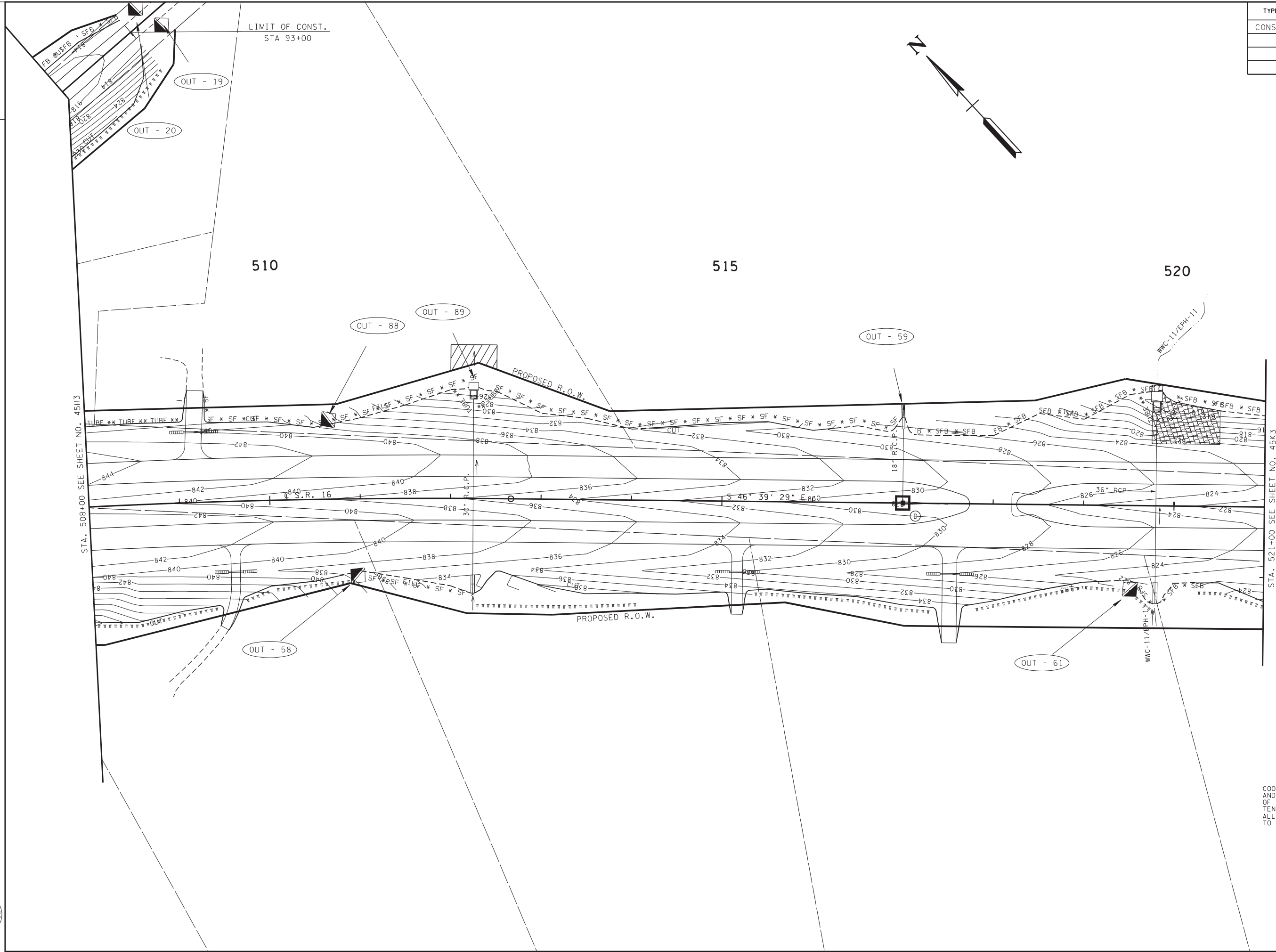
PROPOSED CONTOURS SHOWN

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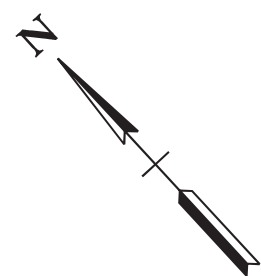
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45J3

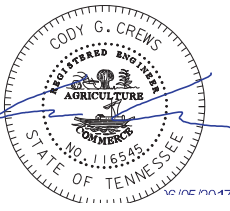


STA. 508+00 SEE SHEET NO. 45H3

STA. 521+00 SEE SHEET NO. 45K3



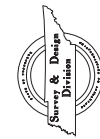
UNOFFICIAL SET
NOT FOR BIDDING



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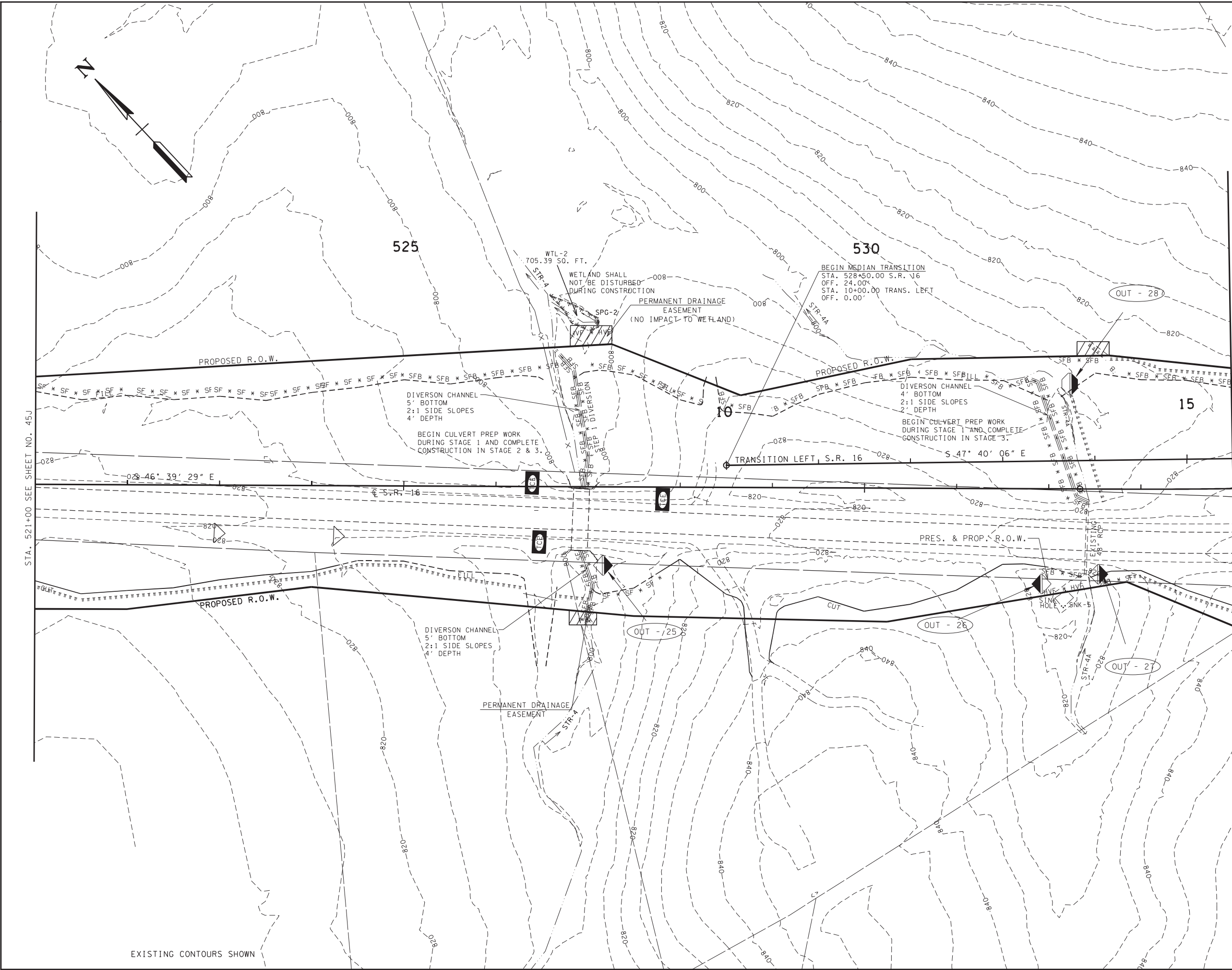
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 4
STA. 508+00 TO STA. 521+00
SCALE: 1" = 50'

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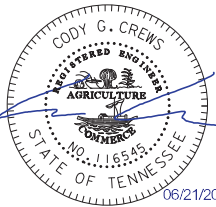
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45K

REV. 06/21/17
CHANGED WWC-12/EPH-12 TO
STR-4A AS PER EB UPDATE.



STA. 521+00 SEE SHEET NO. 45J
STA. 534+00 SEE SHEET NO. 45L

**UNOFFICIAL
SET
NOT FOR
BIDDING**



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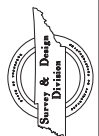
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1

STA. 521+00 TO STA. 534+00
SCALE: 1" = 50'

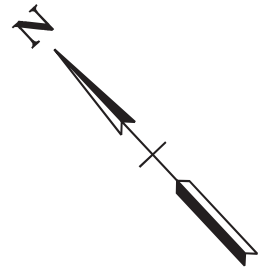
EXISTING CONTOURS SHOWN

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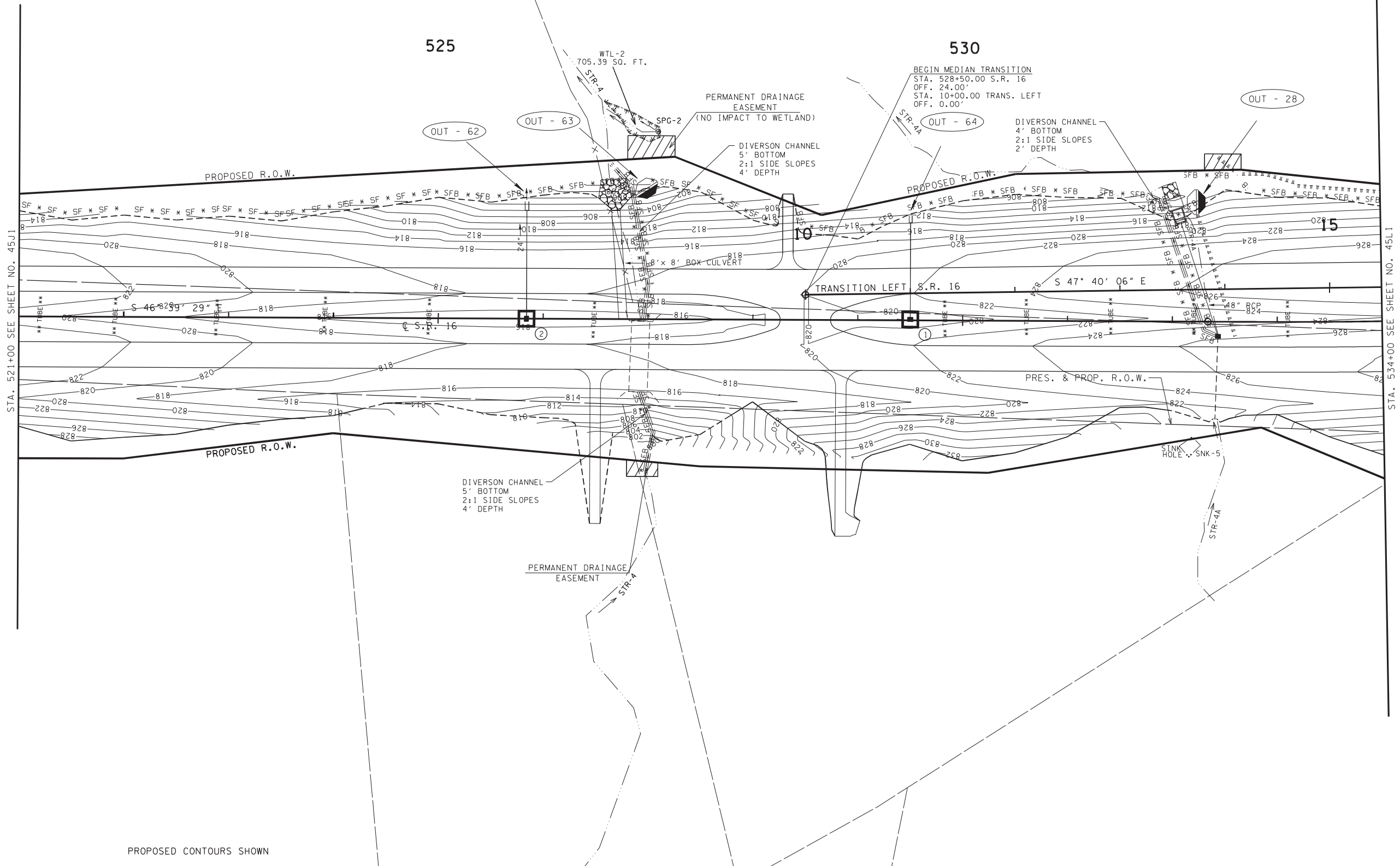


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45K1

REV. 06/21/17
CHANGED WWC-12/EPH-12 TO
STR-4A AS PER EB UPDATE.



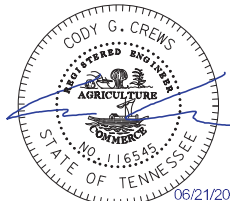
EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.



STA. 521+00 SEE SHEET NO. 45J1

STA. 534+00 SEE SHEET NO. 45L1

**UNOFFICIAL
SET
NOT FOR
BIDDING**

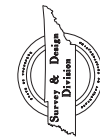


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2
STA. 521+00 TO STA. 534+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

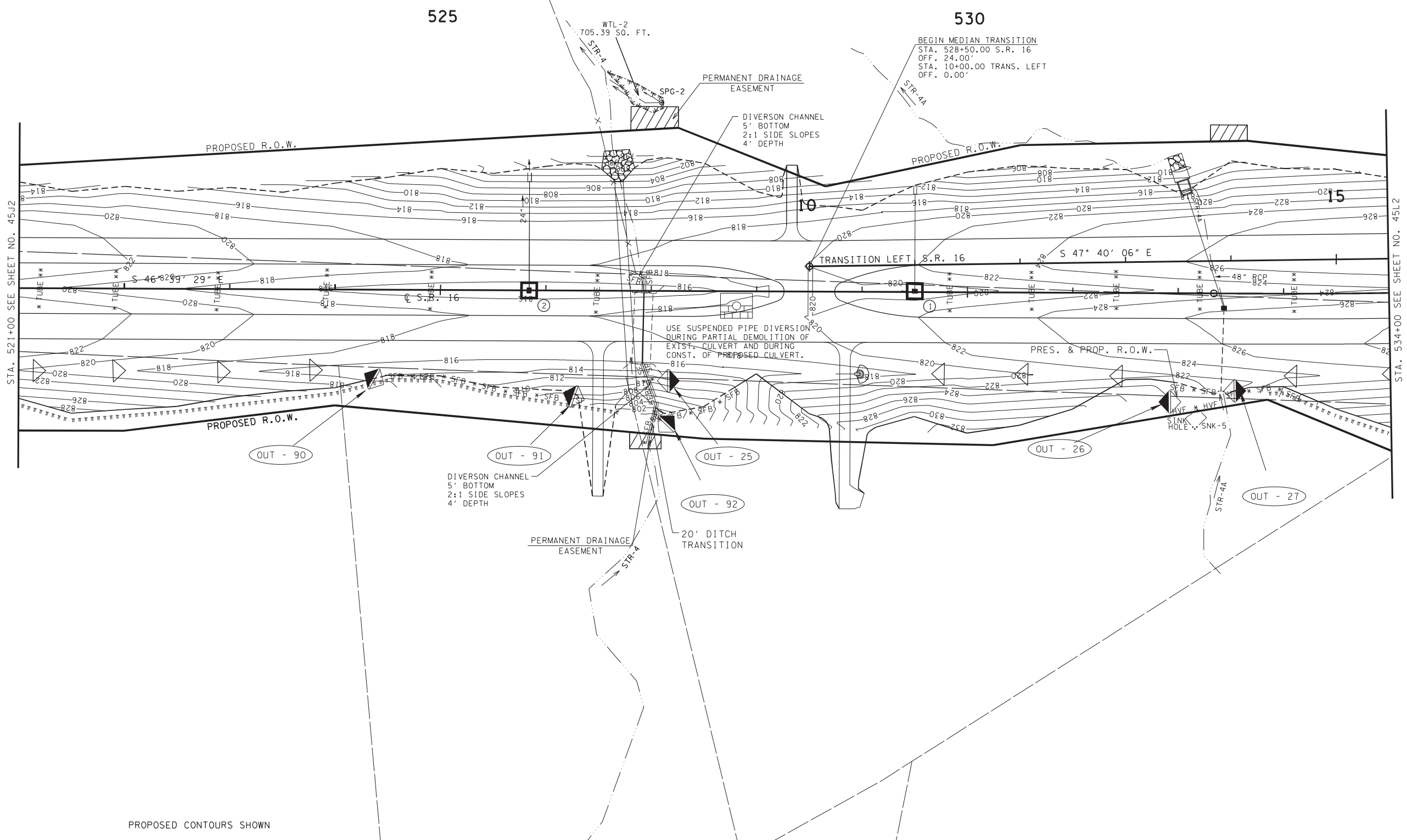
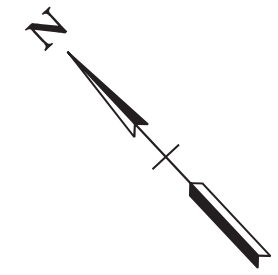
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45K2

REV. 06/21/17
CHANGED WWC-12/EPH-12 TO
STR-4A AS PER EB UPDATE.

EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.



**UNOFFICIAL
SET
NOT FOR
BIDDING**



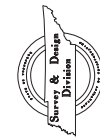
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 521+00 TO STA. 534+00
SCALE: 1" = 50'

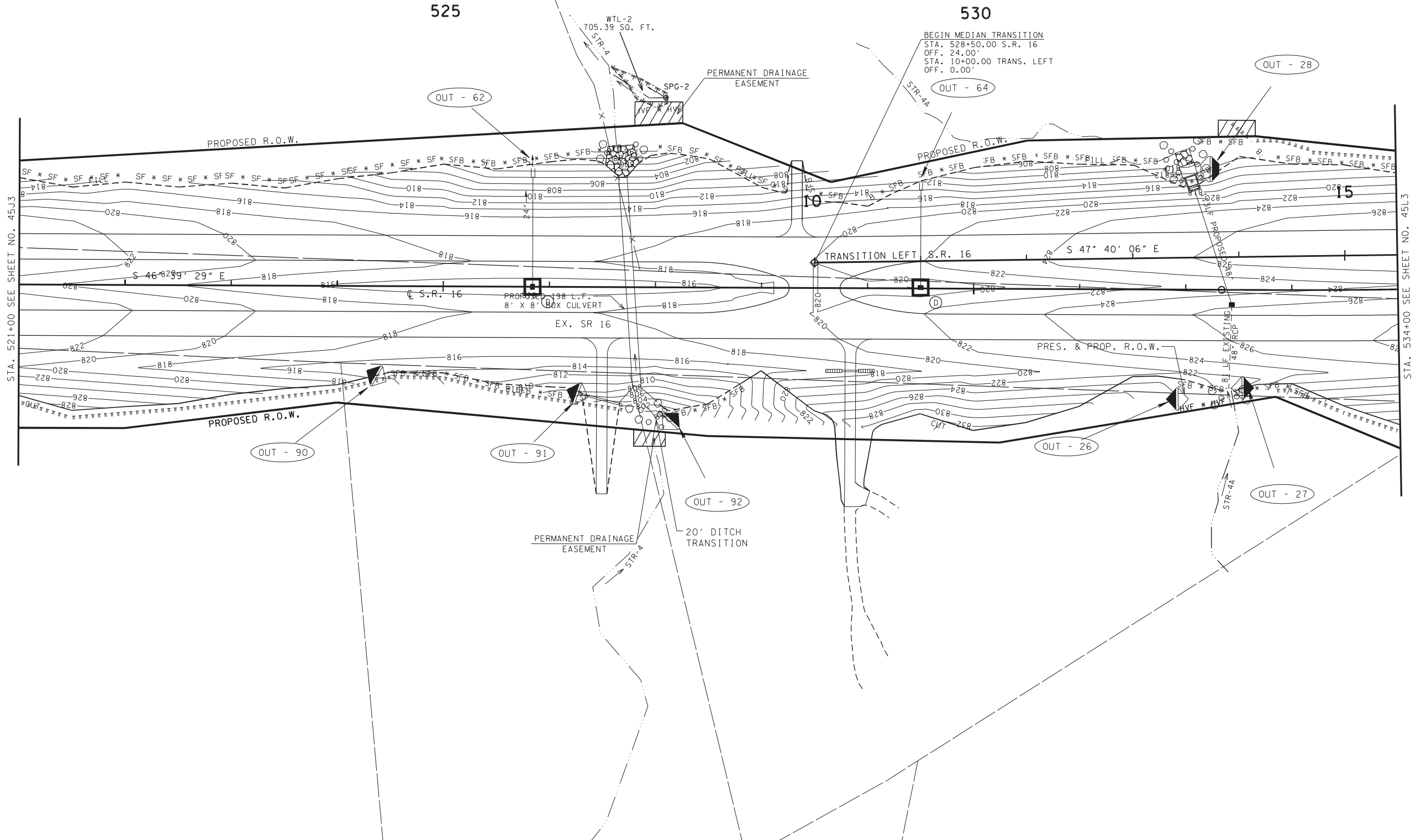
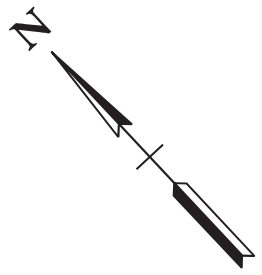
PROPOSED CONTOURS SHOWN

6/21/2017 4:06:27 PM
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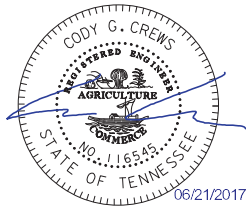


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45K3

REV. 06/21/17
 CHANGED WWC-12/EPH-12 TO
 STR-4A AS PER EB UPDATE.



**UNOFFICIAL
 SET
 NOT FOR
 BIDDING**

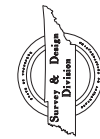


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

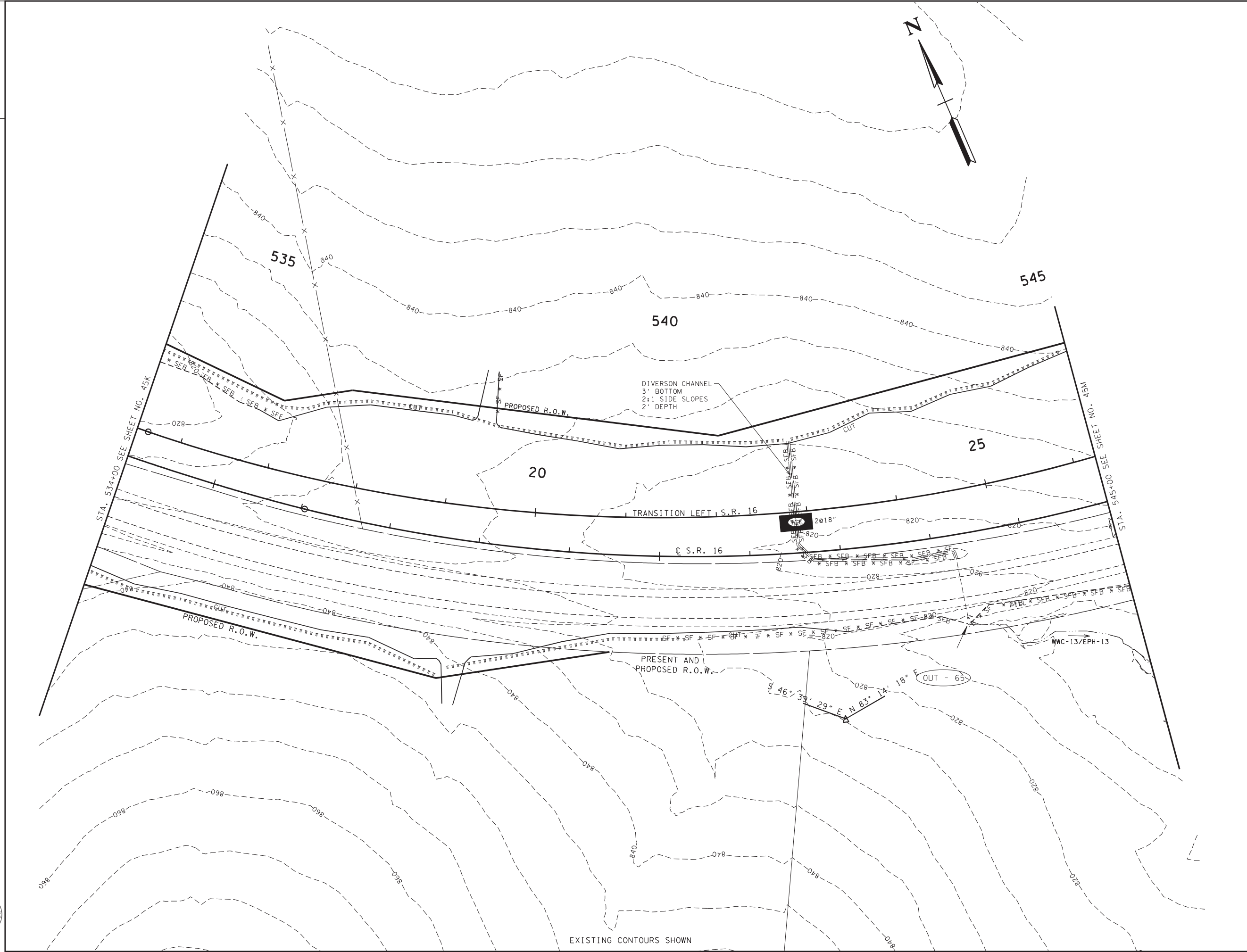
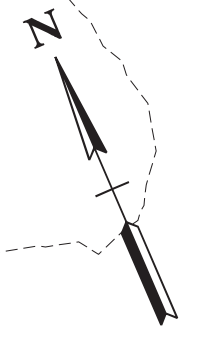
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

**EROSION
 PREVENTION
 AND SEDIMENT
 CONTROL PLAN**
 STAGE 4
 STA. 521+00 TO STA. 534+00
 SCALE: 1" = 50'

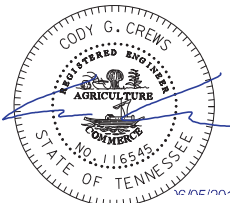
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45L



UNOFFICIAL SET
NOT FOR BIDDING



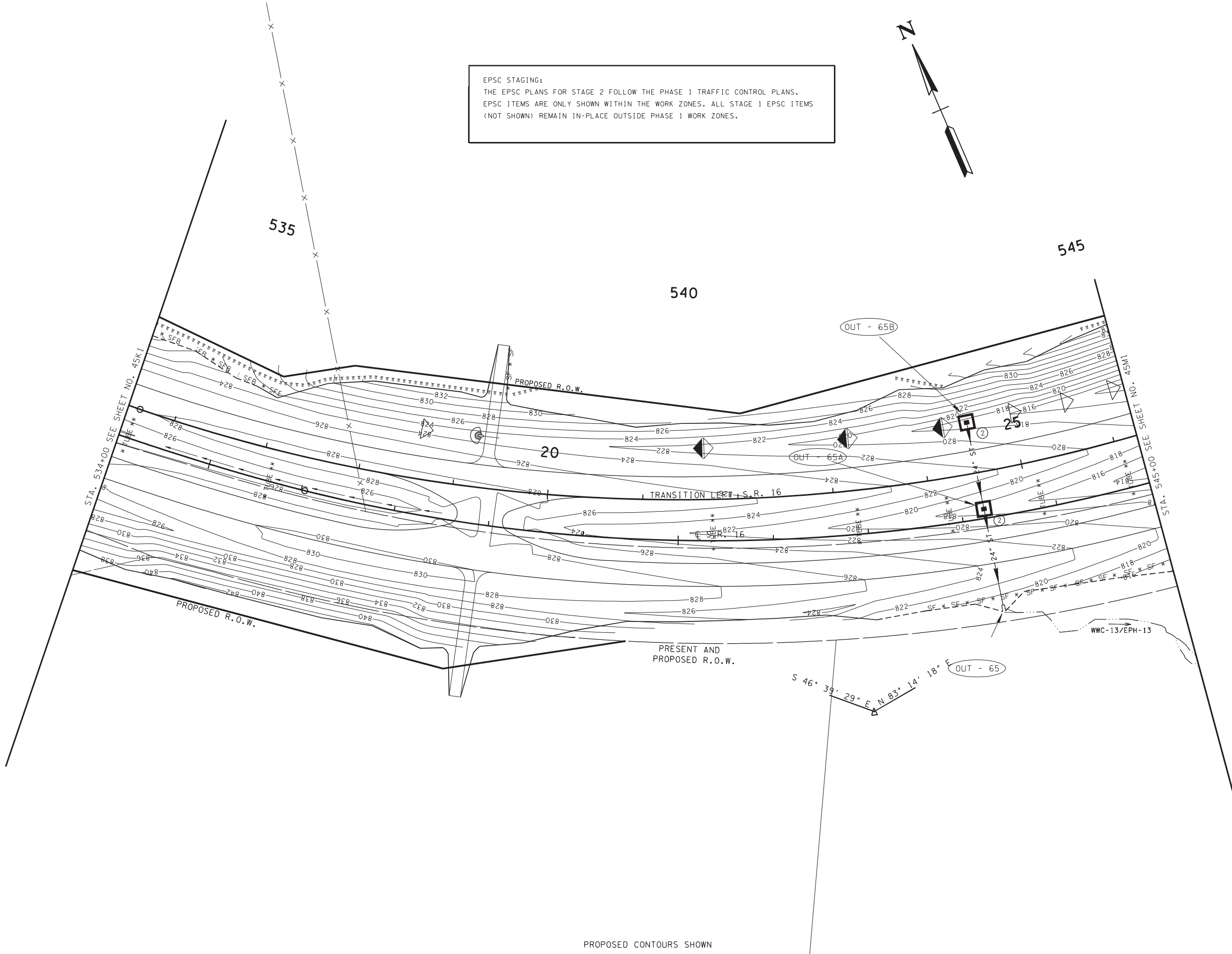
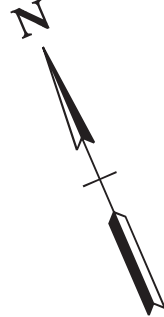
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
 STAGE 1
 STA. 534+00 TO STA. 545+00
 SCALE: 1" = 50'

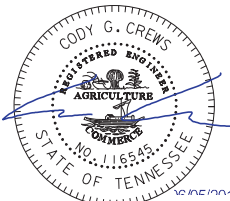
EXISTING CONTOURS SHOWN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45L1

EPSC STAGING:
 THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
 EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
 (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.



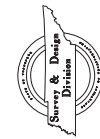
**UNOFFICIAL
 SET
 NOT FOR
 BIDDING**



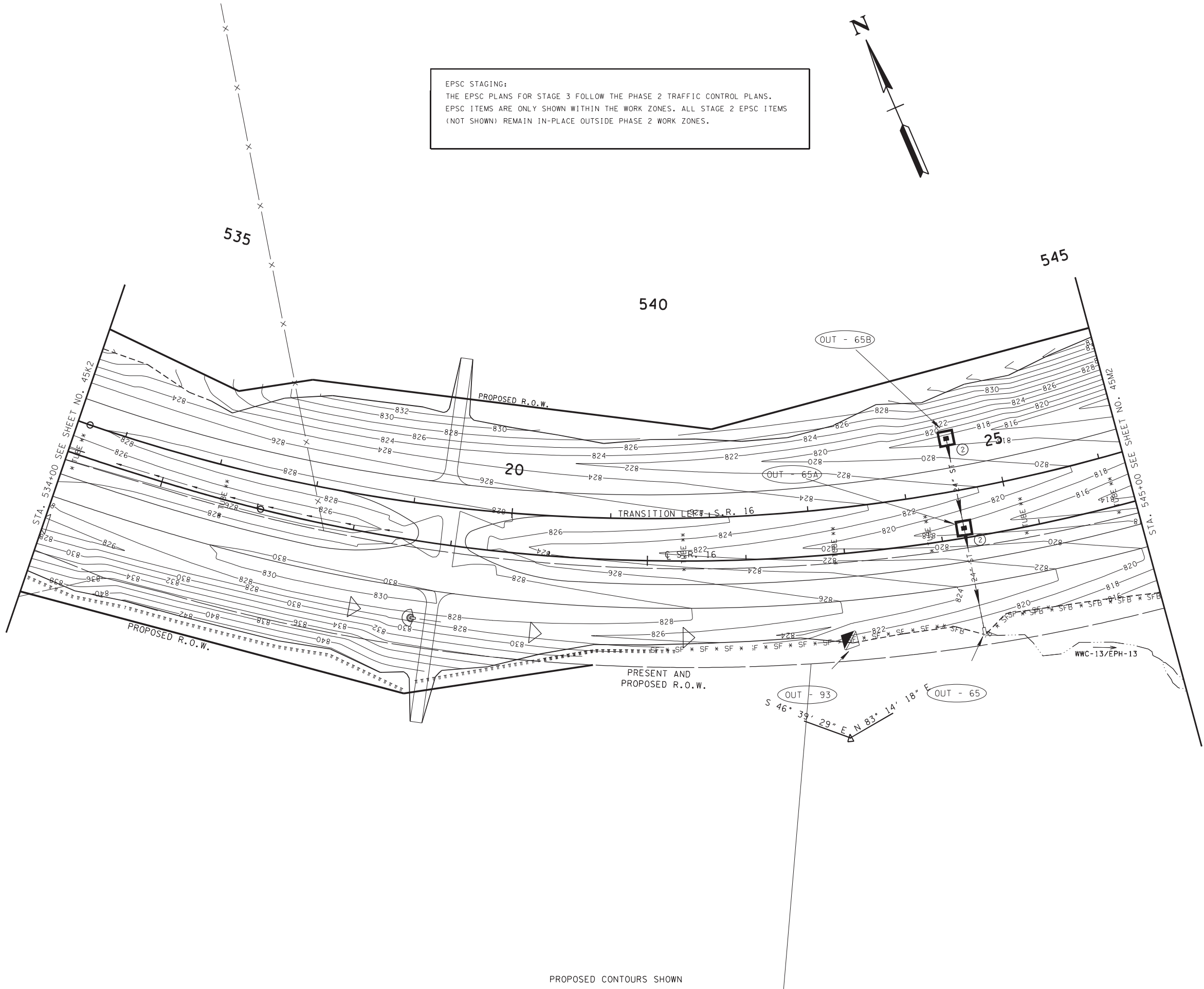
COORDINATE VALUES ARE NAD/83 (1995),
 AND ARE DATUM ADJUSTED BY THE FACTOR
 OF 1.0000675, AND ARE TIED TO THE
 TENNESSEE GEODETIC REFERENCE NETWORK.
 ALL ELEVATIONS ARE REFERENCED
 TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
**EROSION
 PREVENTION
 AND SEDIMENT
 CONTROL PLAN**
 STAGE 2
 STA. 534+00 TO STA. 545+00
 SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45L2



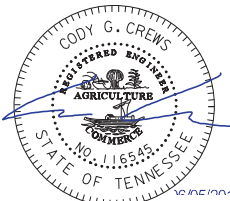
EPSC STAGING:
 THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
 EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
 (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

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PROPOSED CONTOURS SHOWN

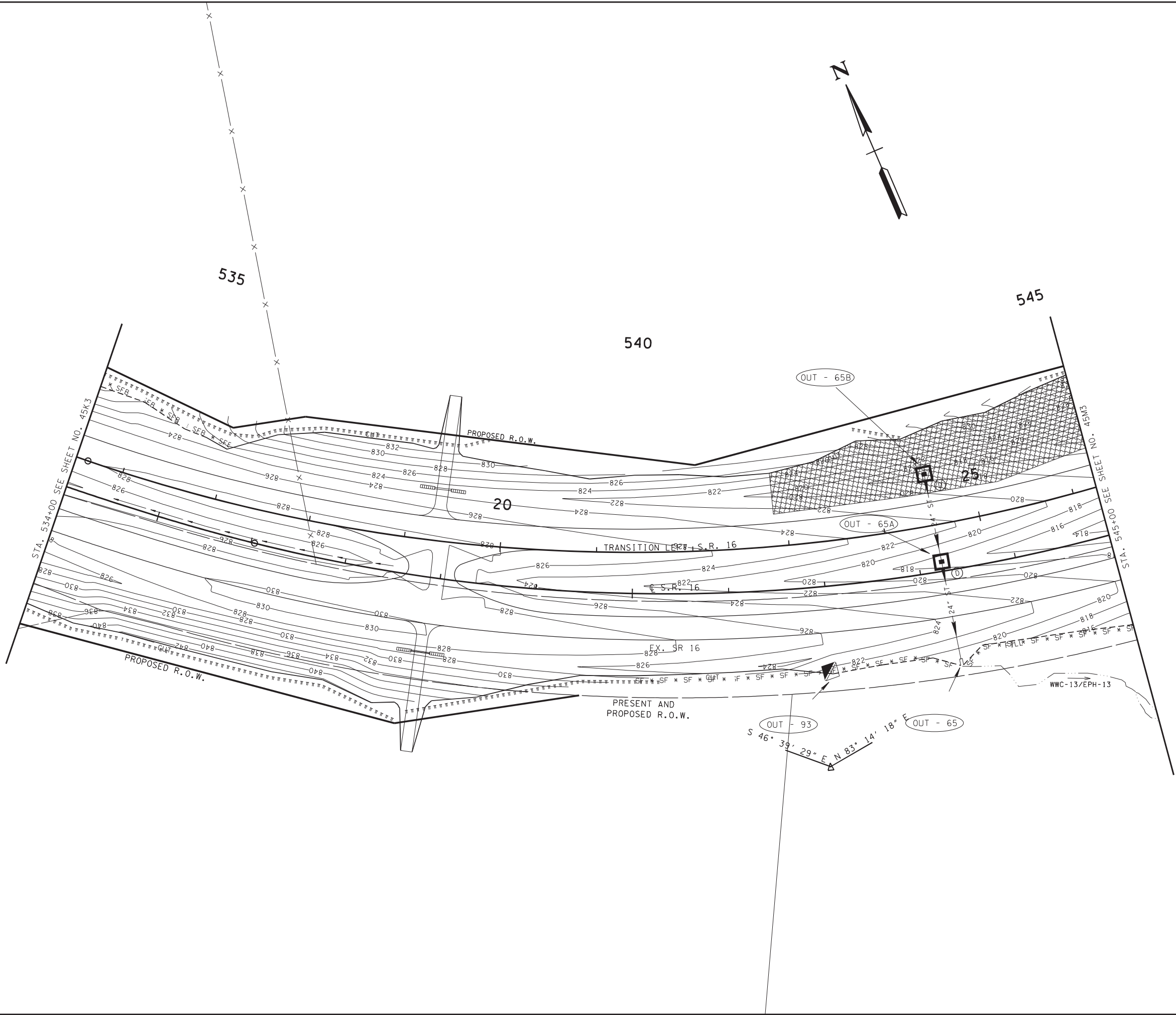
UNOFFICIAL SET
NOT FOR BIDDING



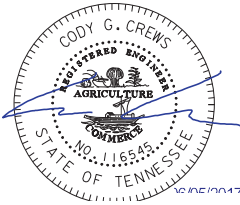
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
 STAGE 3
 STA. 534+00 TO STA. 545+00
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45L3



**UNOFFICIAL
SET
NOT FOR
BIDDING**

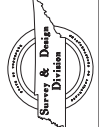


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

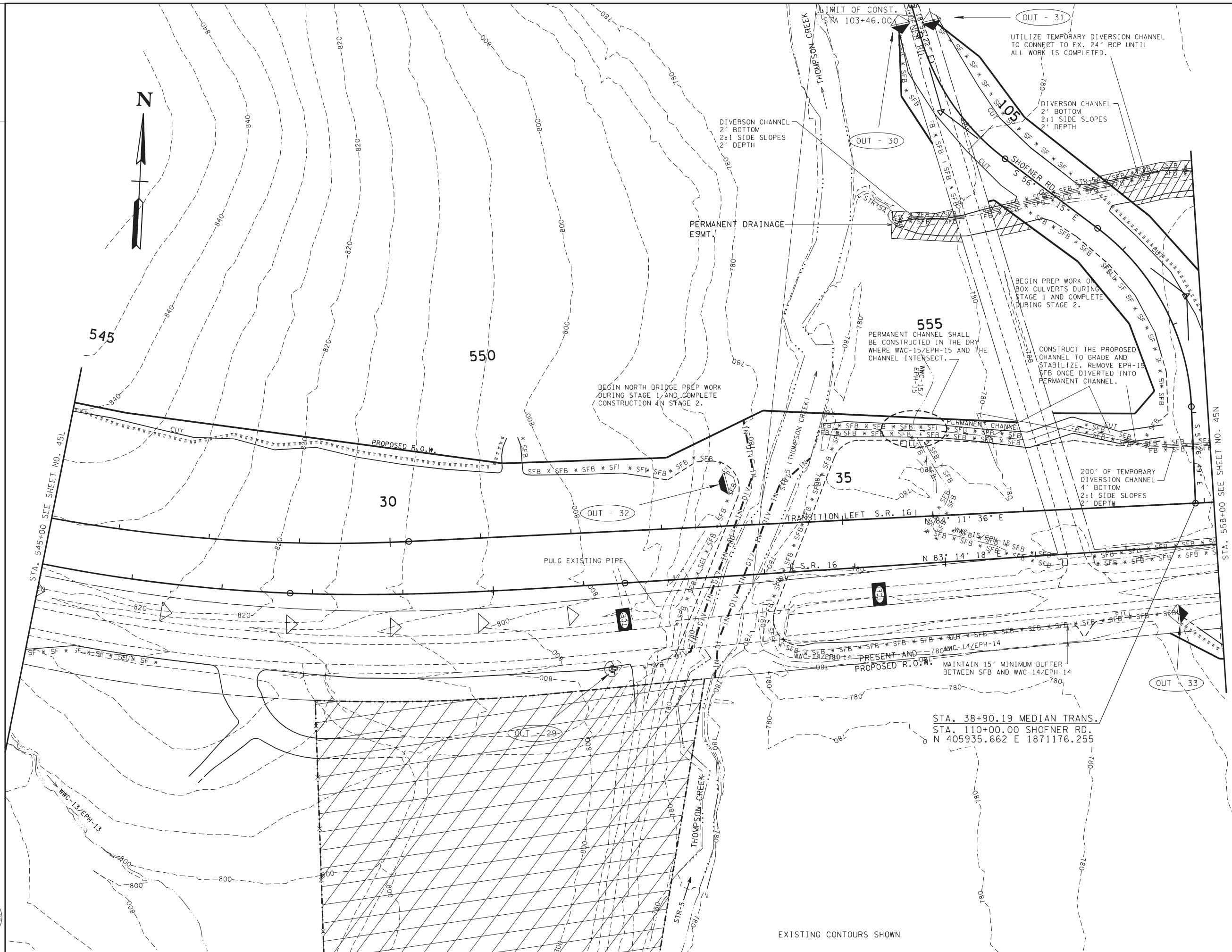
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4

STA. 534+00 TO STA. 545+00
SCALE: 1" = 50'

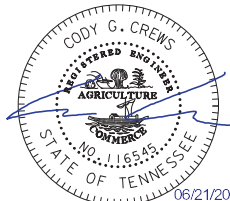


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45M

REV. 06/21/17
CHANGED WWC-16/EPH-16 TO STR-5A AS PER EB UPDATE.



UNOFFICIAL SET
NOT FOR BIDDING



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 1

STA. 545+00 TO STA. 558+00
SCALE: 1" = 50'

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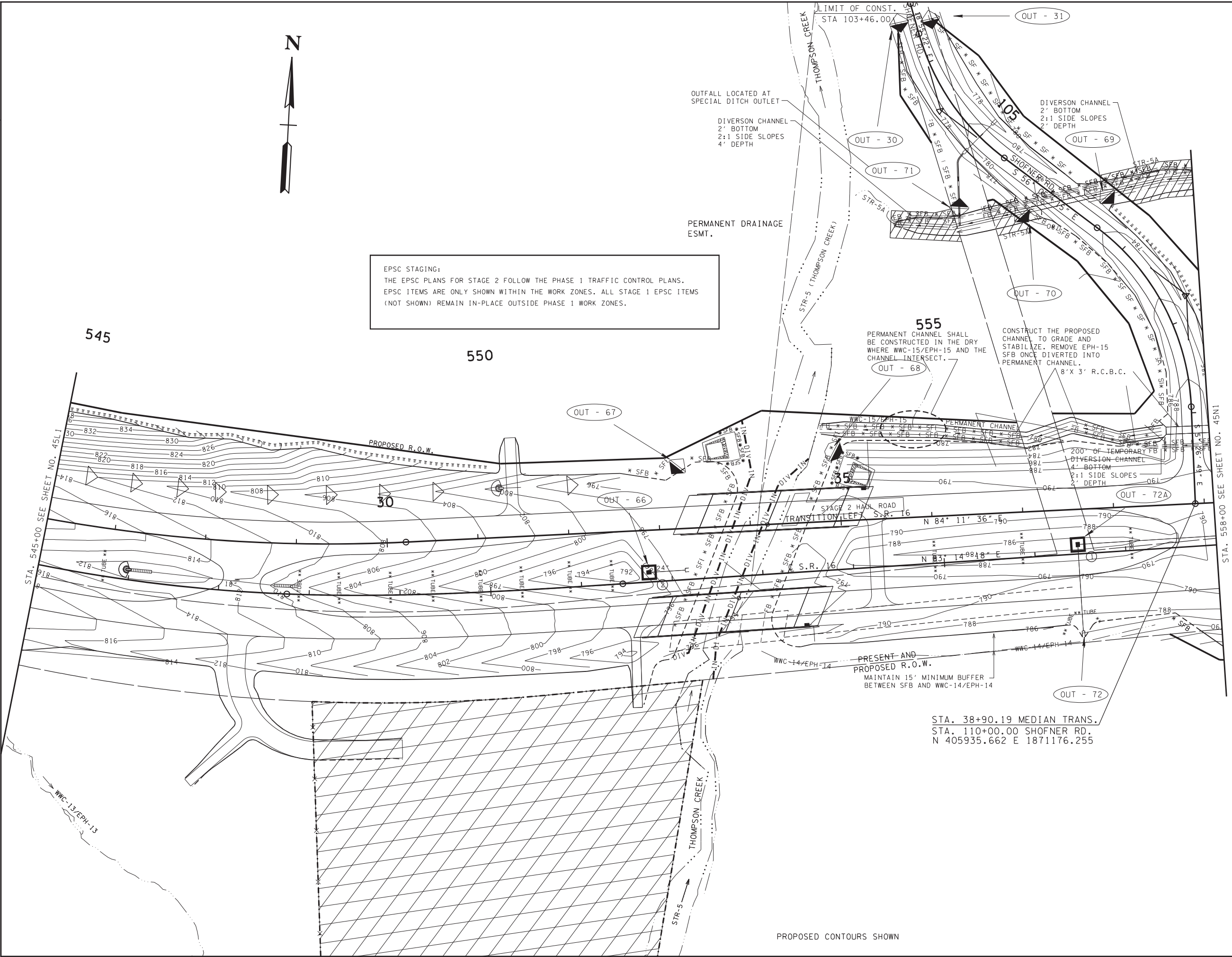
EXISTING CONTOURS SHOWN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45M1

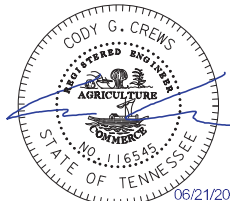
REV. 06/21/17
CHANGED WWC-16/EPH-16 TO
STR-5A AS PER EB UPDATE.



EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.



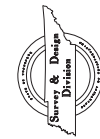
**UNOFFICIAL
SET
NOT FOR
BIDDING**



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2
STA. 545+00 TO STA. 558+00
SCALE: 1" = 50'

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PROPOSED CONTOURS SHOWN

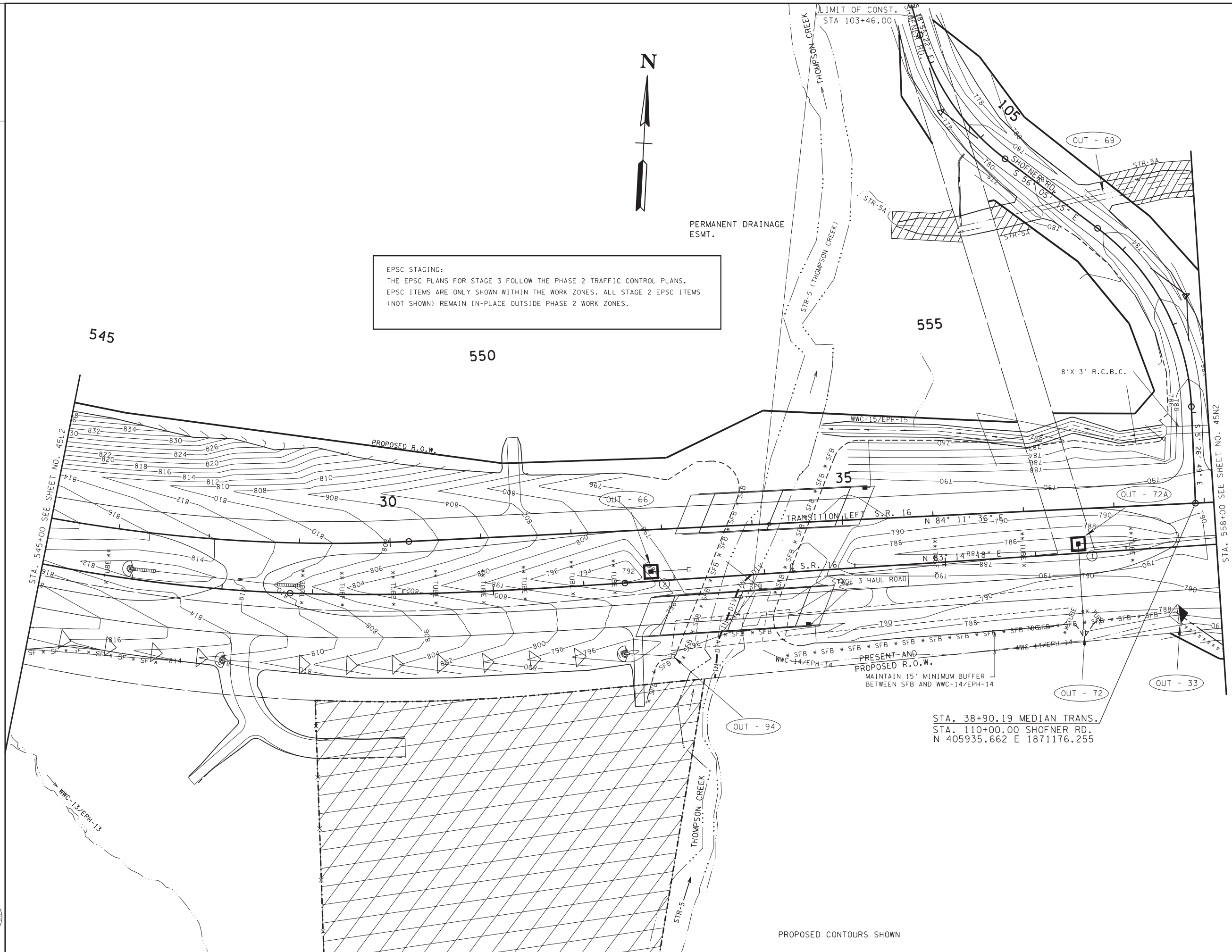
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45M2

REV. 06/21/17
CHANGED WWC-16/EPH-16 TO
STR-5A AS PER EB UPDATE.

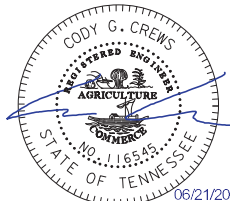


EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

PERMANENT DRAINAGE
ESMT.



**UNOFFICIAL
SET
NOT FOR
BIDDING**



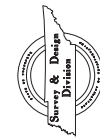
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3

STA. 545+00 TO STA. 558+00
SCALE: 1" = 50'

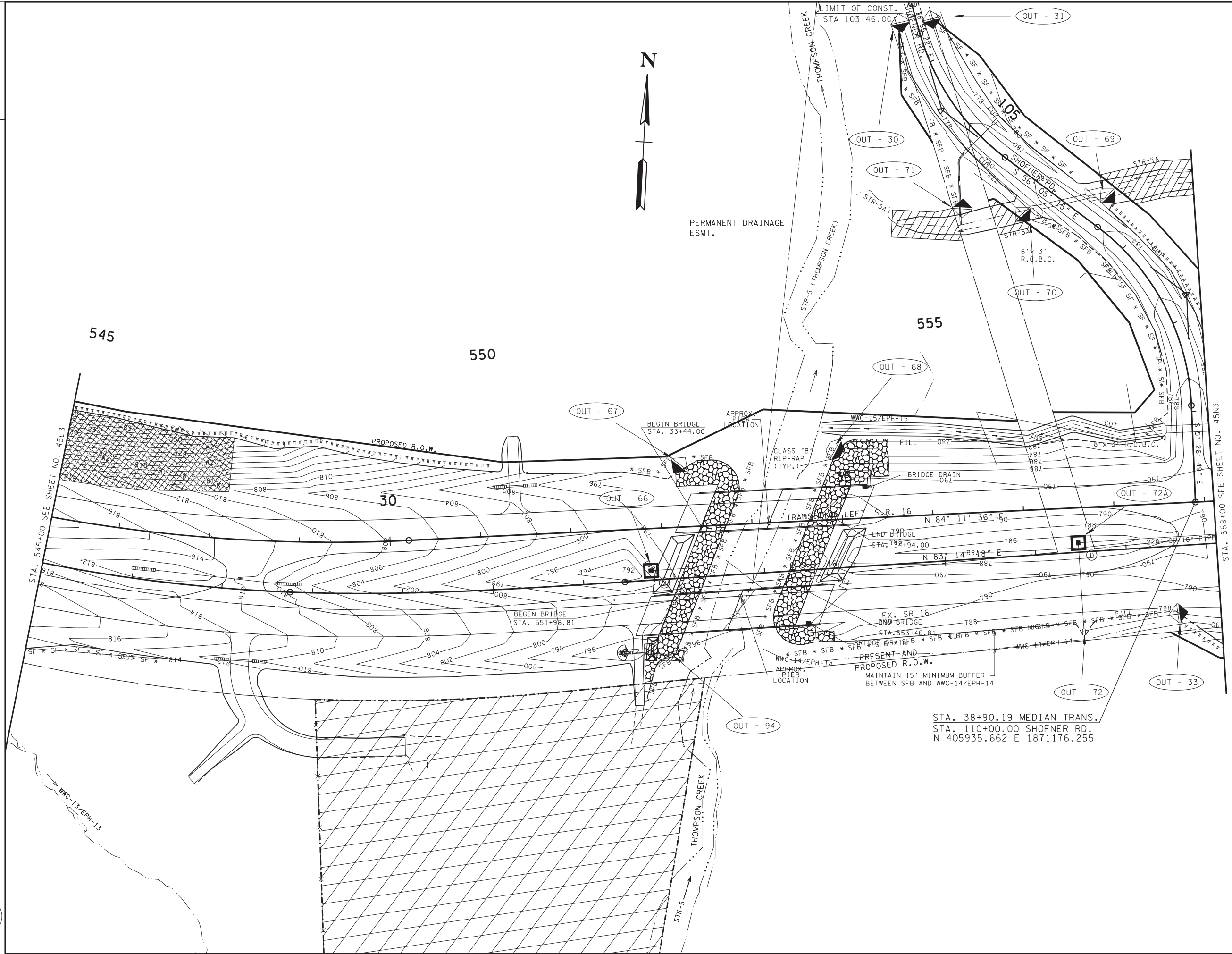
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PROPOSED CONTOURS SHOWN

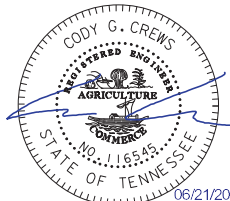
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45M3

REV. 06/21/17
CHANGED WWC-16/EPH-16 TO
STR-5A AS PER EB UPDATE.



STA. 558+00 SEE SHEET NO. 45N3

**UNOFFICIAL
SET
NOT FOR
BIDDING**



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

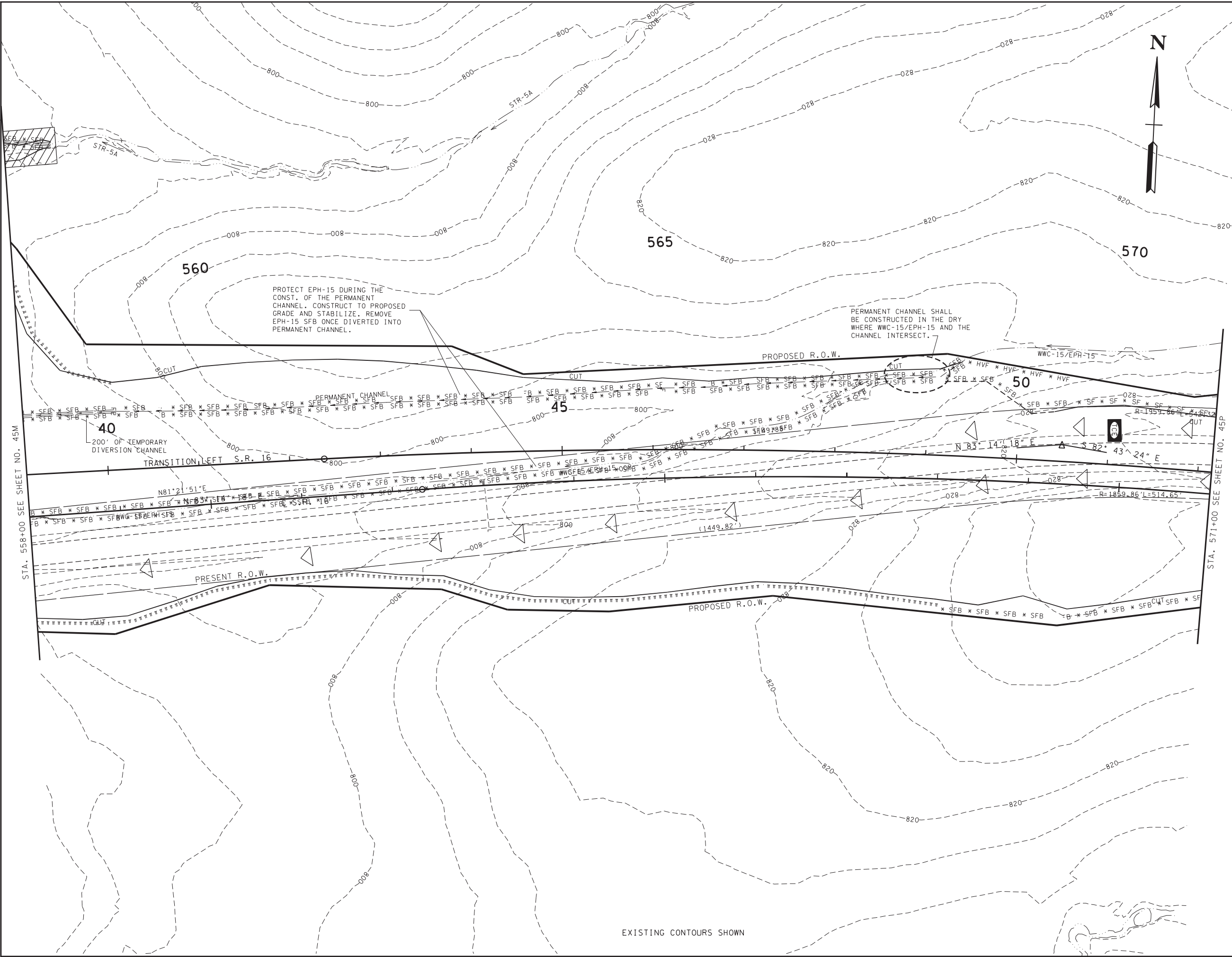
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4

STA. 545+00 TO STA. 558+00
SCALE: 1" = 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45N

REV. 06/21/17
CHANGED WWC-16/EPH-16 TO
STR-5A AS PER EB UPDATE.

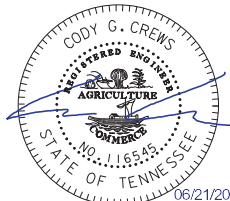


STA. 558+00 SEE SHEET NO. 45M

STA. 571+00 SEE SHEET NO. 45P

EXISTING CONTOURS SHOWN

**UNOFFICIAL
SET
NOT FOR
BIDDING**



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1

STA. 558+00 TO STA. 571+00
SCALE: 1" = 50'

6/21/2017 4:06:44 PM
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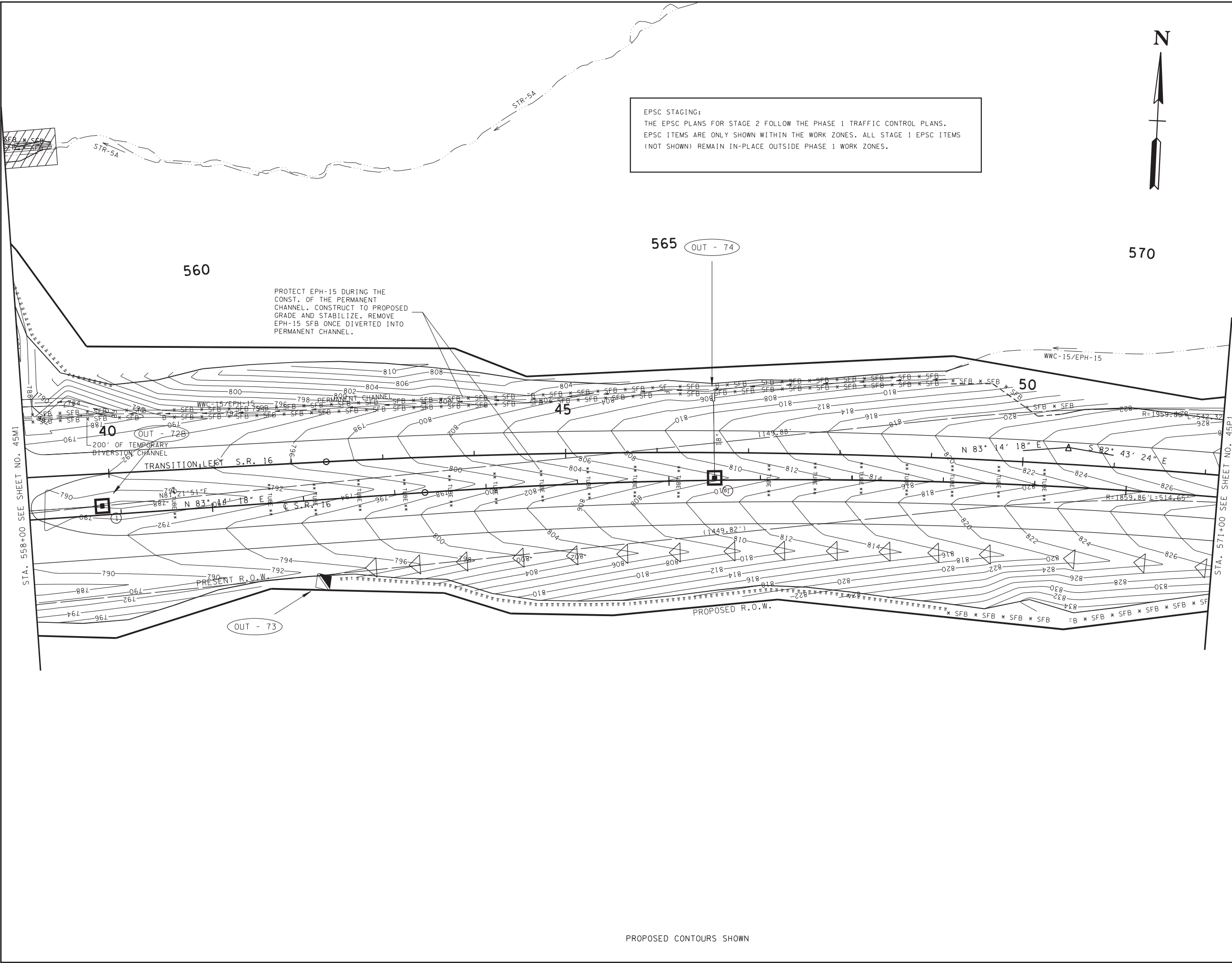


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45N1

REV. 06/21/17
CHANGED WWC-16/EPH-16 TO
STR-5A AS PER EB UPDATE.

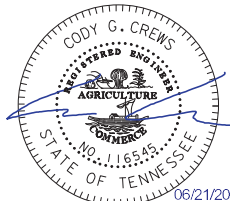


EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.



PROTECT EPH-15 DURING THE
CONST. OF THE PERMANENT
CHANNEL. CONSTRUCT TO PROPOSED
GRADE AND STABILIZE. REMOVE
EPH-15 SFB ONCE DIVERTED INTO
PERMANENT CHANNEL.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

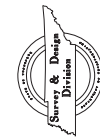


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 2
STA. 558+00 TO STA. 571+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/21/2017 4:06:46 PM
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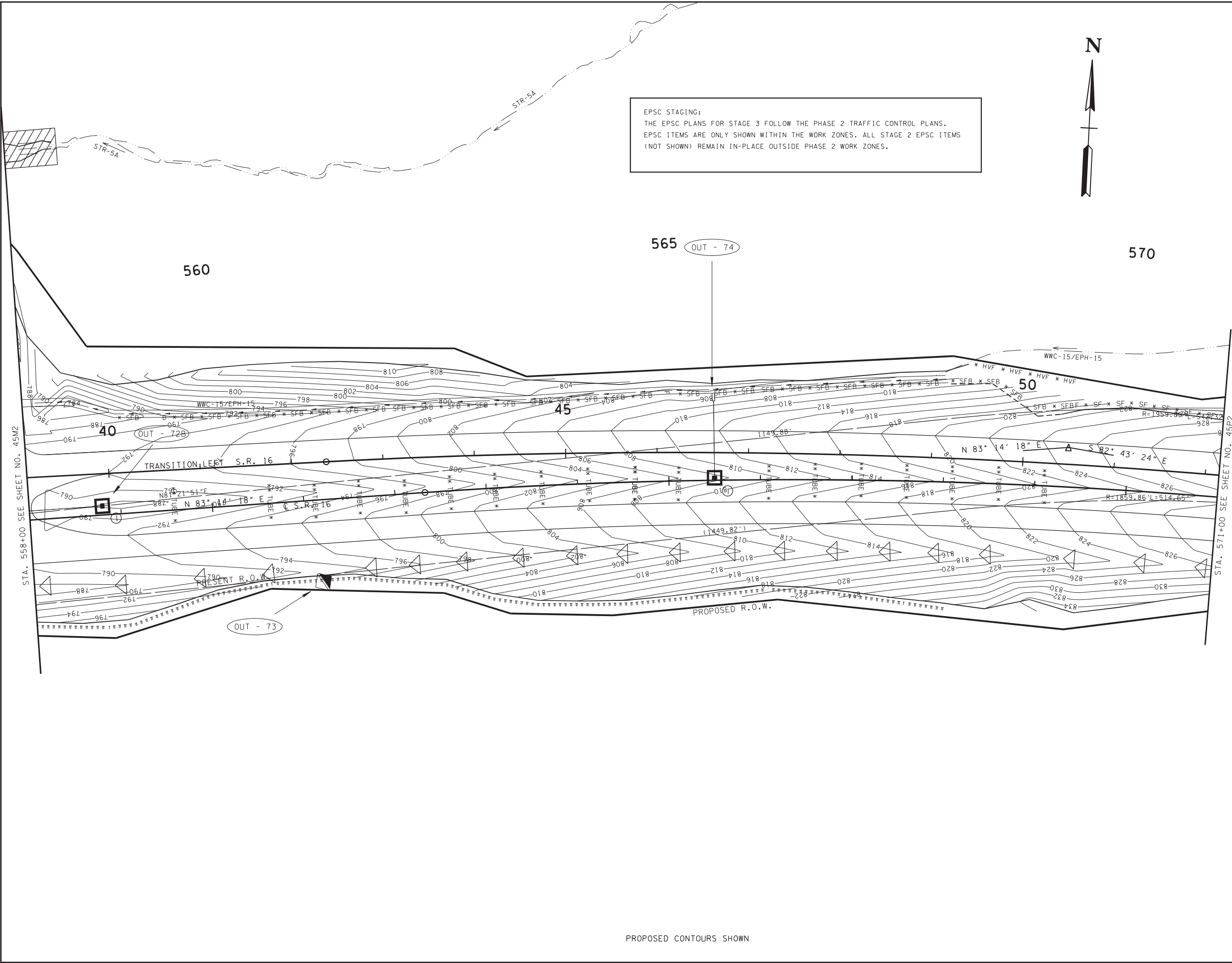


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45N2

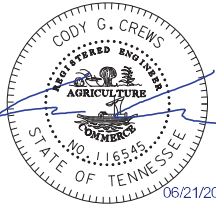
REV. 06/21/17
CHANGED WWC-16/EPH-16 TO
STR-5A AS PER EB UPDATE.



EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.



**UNOFFICIAL
SET
NOT FOR
BIDDING**



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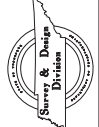
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3

STA. 558+00 TO STA. 571+00
SCALE: 1" = 50'

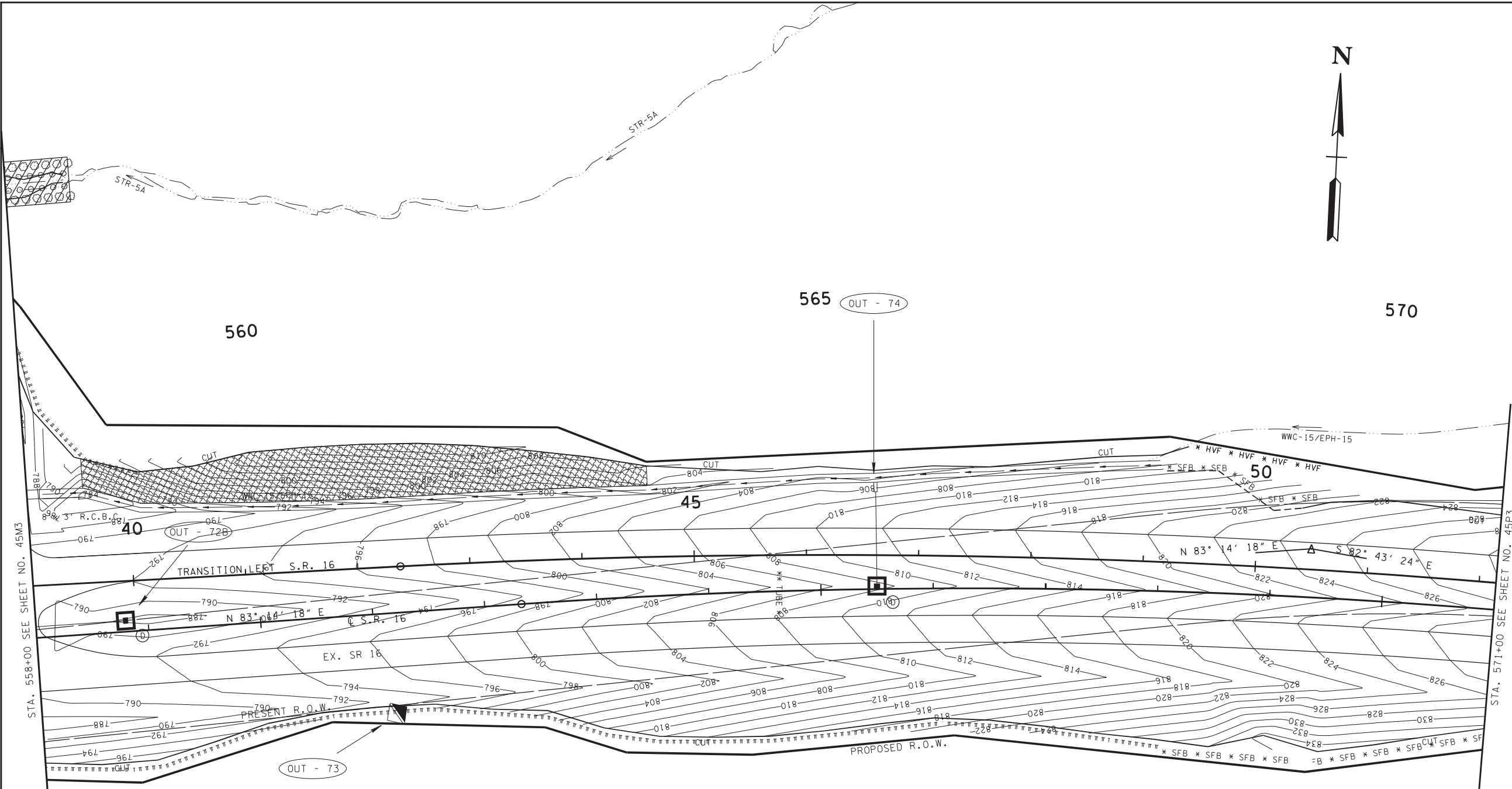
PROPOSED CONTOURS SHOWN

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45N3

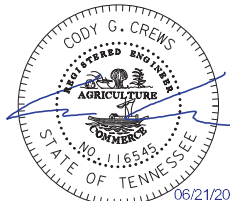
REV. 06/21/17
CHANGED WWC-16/EPH-16 TO
STR-5A AS PER EB UPDATE.



STA. 558+00 SEE SHEET NO. 45M3

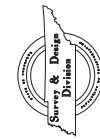
STA. 571+00 SEE SHEET NO. 45P3

**UNOFFICIAL
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NOT FOR
BIDDING**

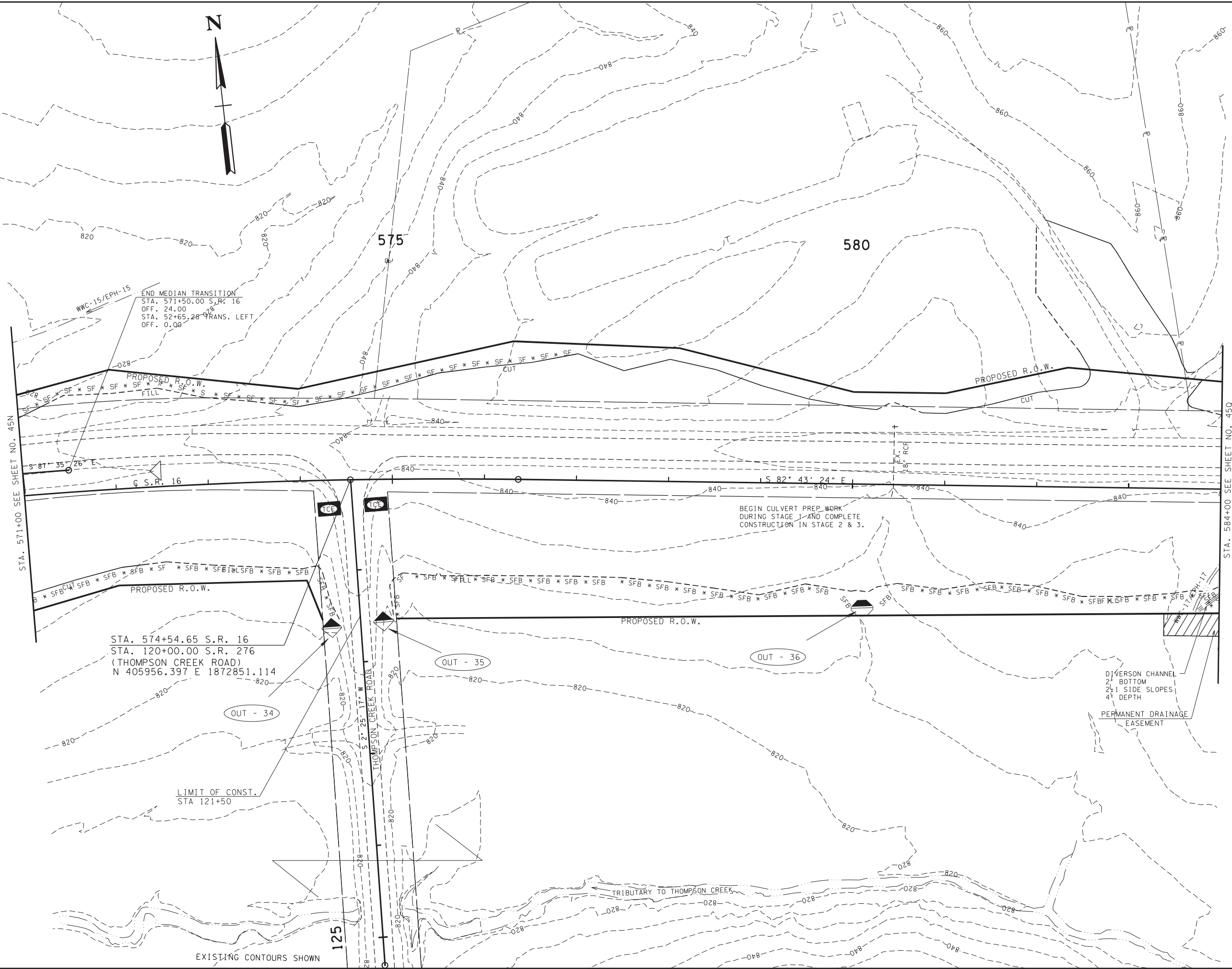


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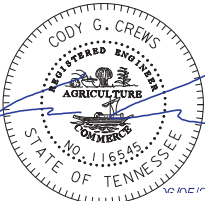
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4
STA. 558+00 TO STA. 571+00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45P



UNOFFICIAL SET
NOT FOR BIDDING



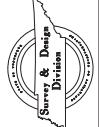
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

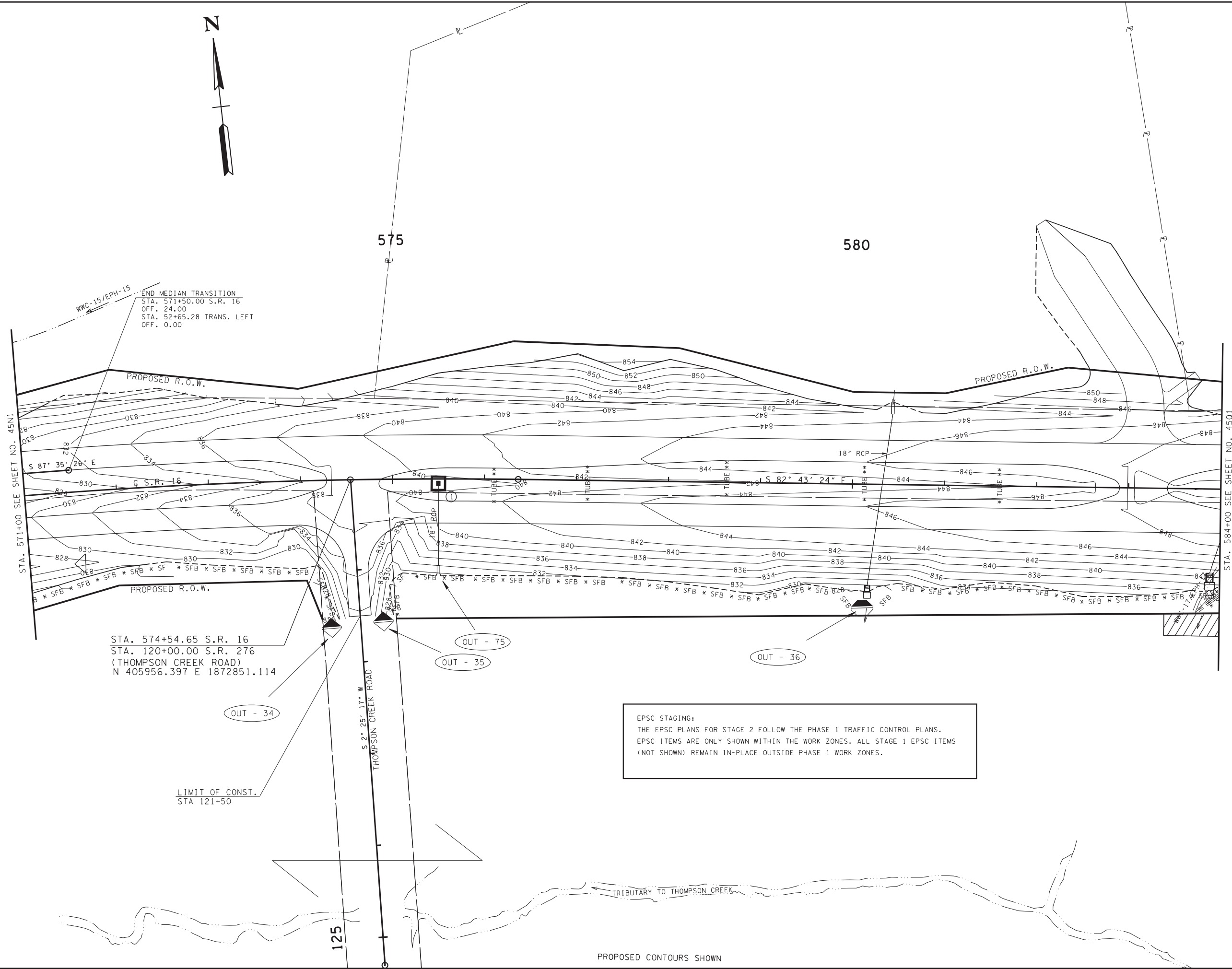
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 1

STA. 571+00 TO STA. 584+00
SCALE: 1" = 50'

6/5/2017 8:02:39 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45P1



STA. 574+54.65 S.R. 16
STA. 120+00.00 S.R. 276
(THOMPSON CREEK ROAD)
N 405956.397 E 1872851.114

OUT - 75
OUT - 35

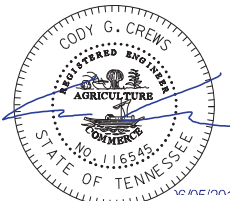
OUT - 36

OUT - 34

LIMIT OF CONST.
STA 121+50

EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

UNOFFICIAL SET
NOT FOR BIDDING



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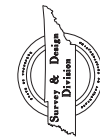
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 2

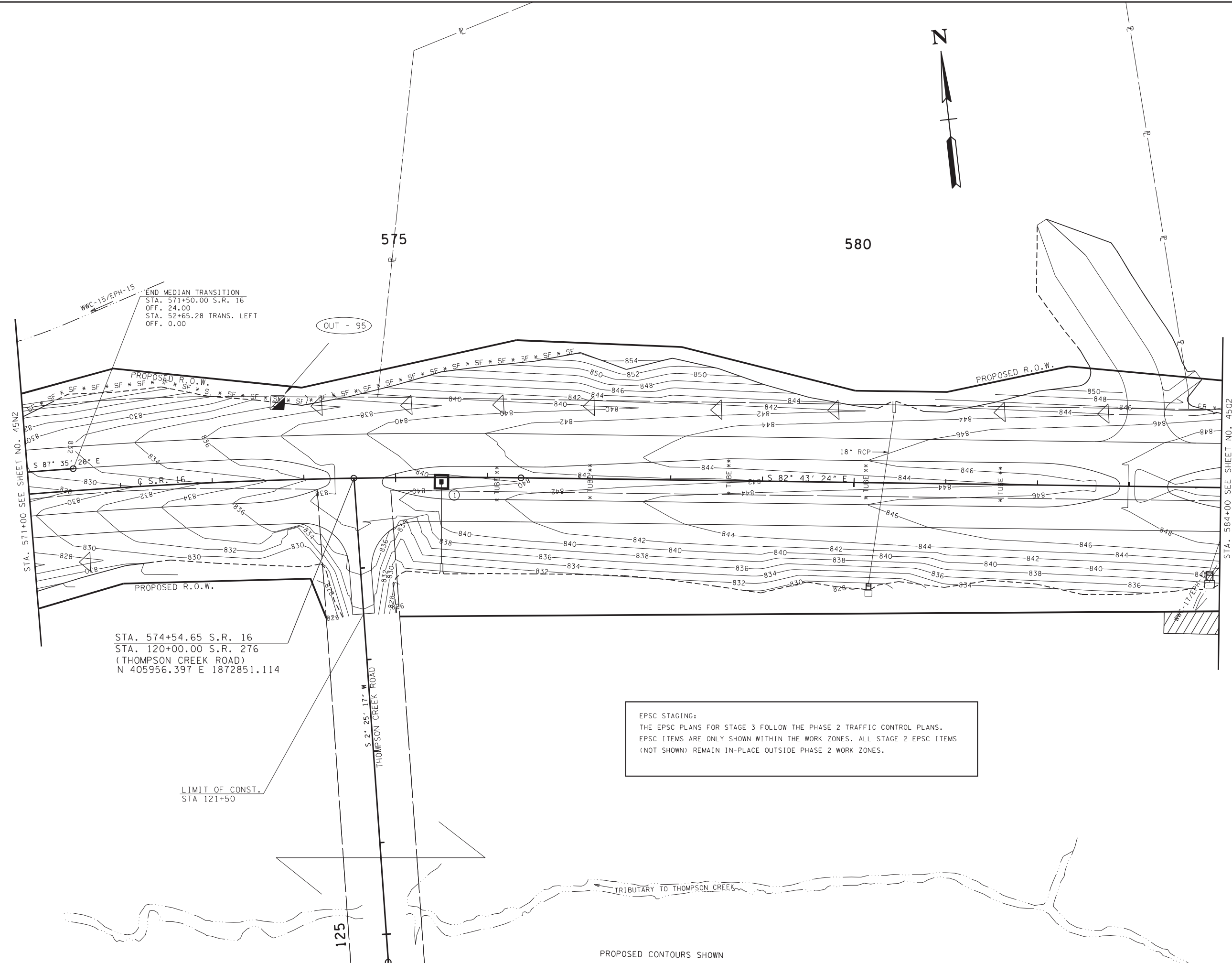
STA. 571+00 TO STA. 584+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:02:40 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45P2



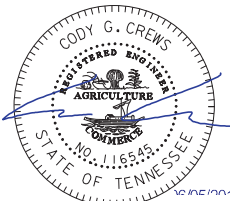
WVC-15/EPH-15
END MEDIAN TRANSITION
STA. 571+50.00 S.R. 16
OFF. 24.00
STA. 52+65.28 TRANS. LEFT
OFF. 0.00

STA. 574+54.65 S.R. 16
STA. 120+00.00 S.R. 276
(THOMPSON CREEK ROAD)
N 405956.397 E 1872851.114

LIMIT OF CONST.
STA 121+50

EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

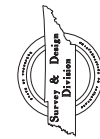


COORDINATE VALUES ARE NAD/83 (1995),
AND ARE DATUM ADJUSTED BY THE FACTOR
OF 1.0000675, AND ARE TIED TO THE
TENNESSEE GEODETIC REFERENCE NETWORK.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988.

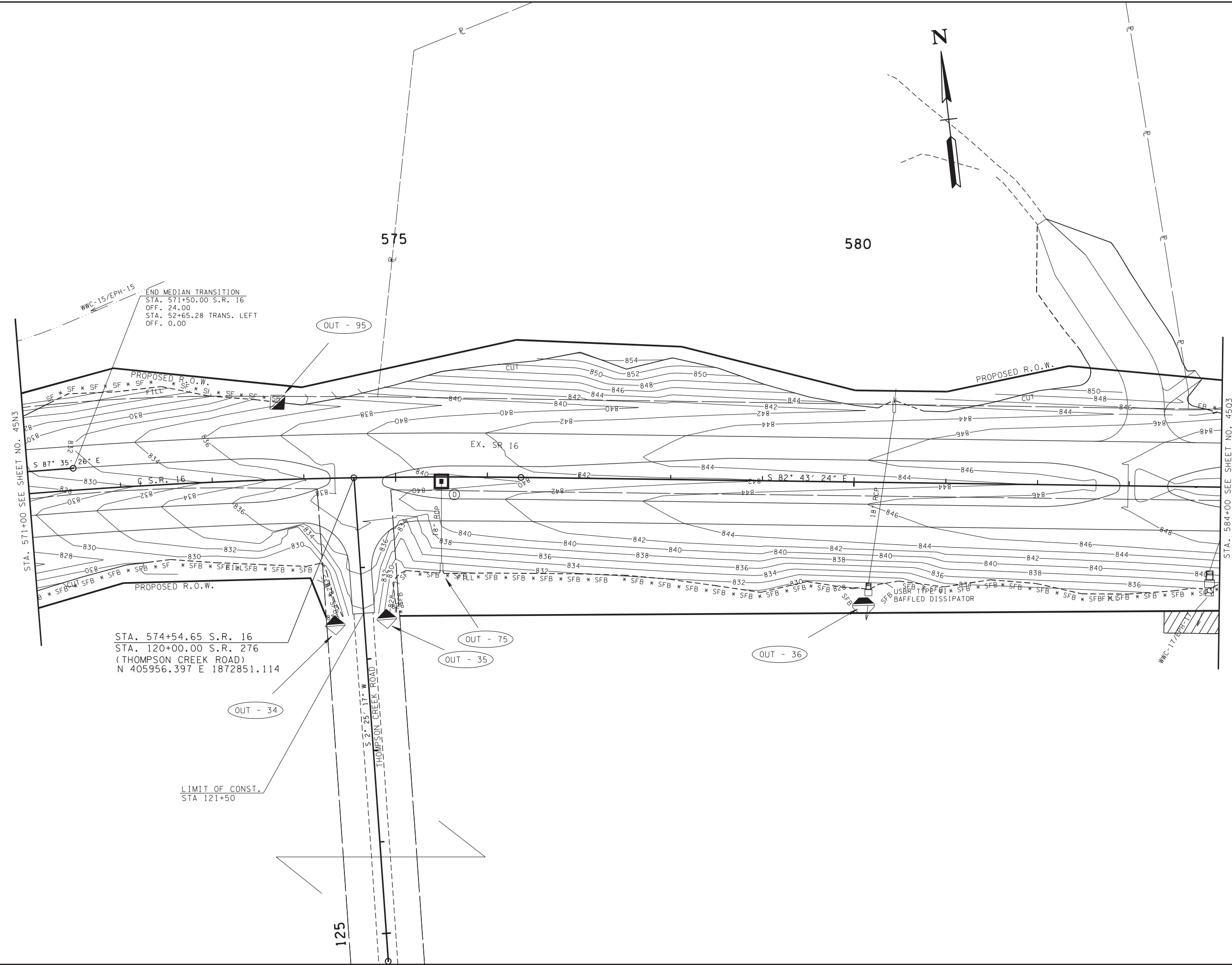
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 571+00 TO STA. 584+00
SCALE: 1"= 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:02:41 AM
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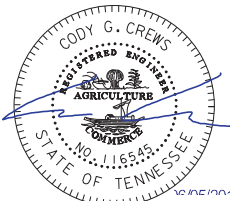
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45P3



STA. 574+54.65 S.R. 16
STA. 120+00.00 S.R. 276
(THOMPSON CREEK ROAD)
N 405956.397 E 1872851.114

LIMIT OF CONST.
STA 121+50

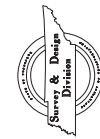
**UNOFFICIAL
SET
NOT FOR
BIDDING**



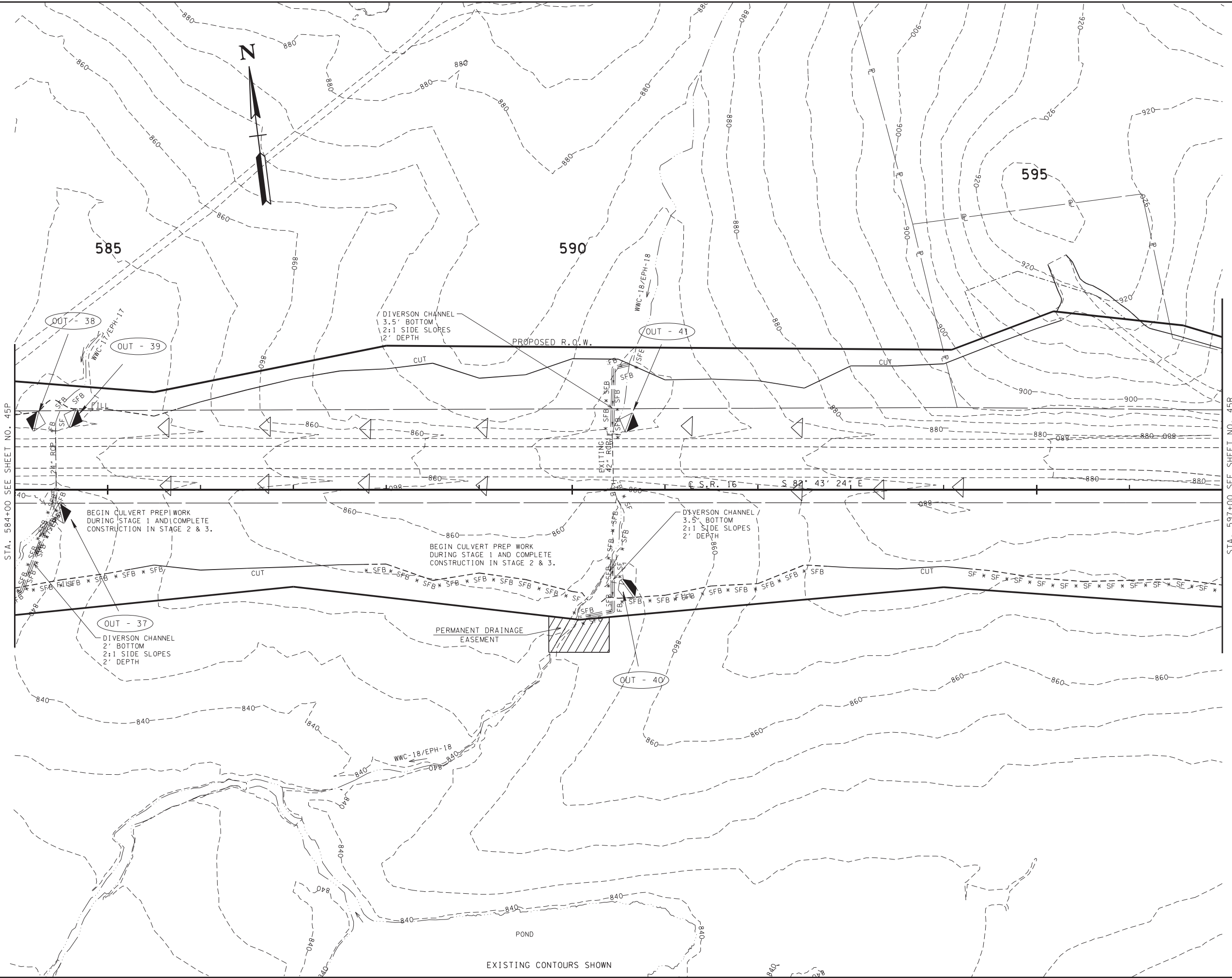
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4
STA. 571+00 TO STA. 584+00
SCALE: 1" = 50'

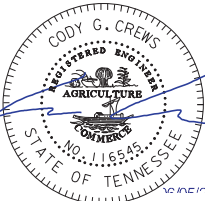
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	450



UNOFFICIAL SET
NOT FOR BIDDING

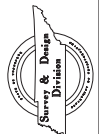


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

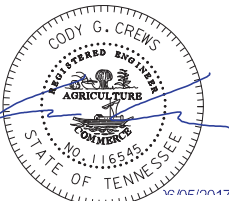
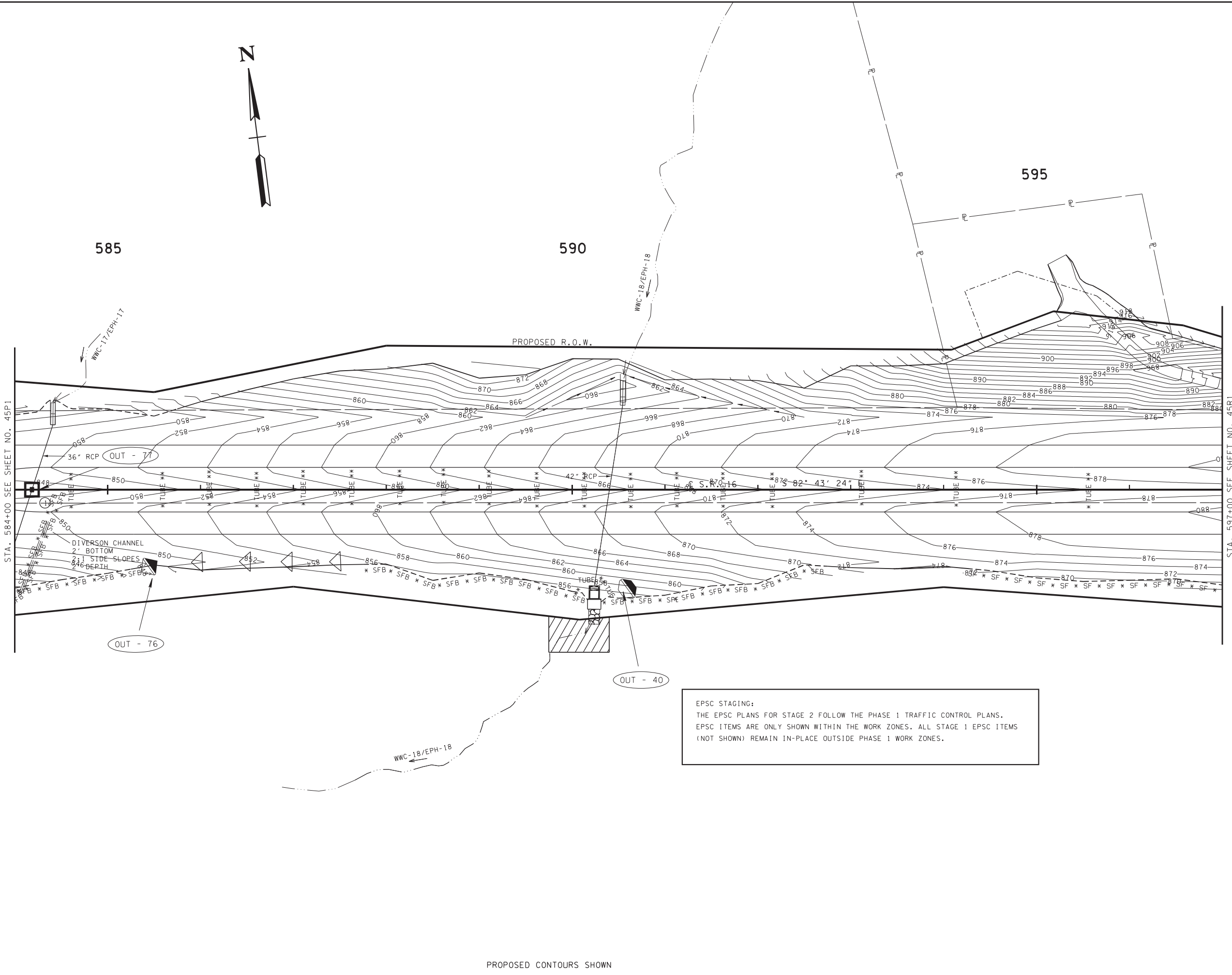
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 1

STA. 584+00 TO STA. 597+00
SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	4501



EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE PHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

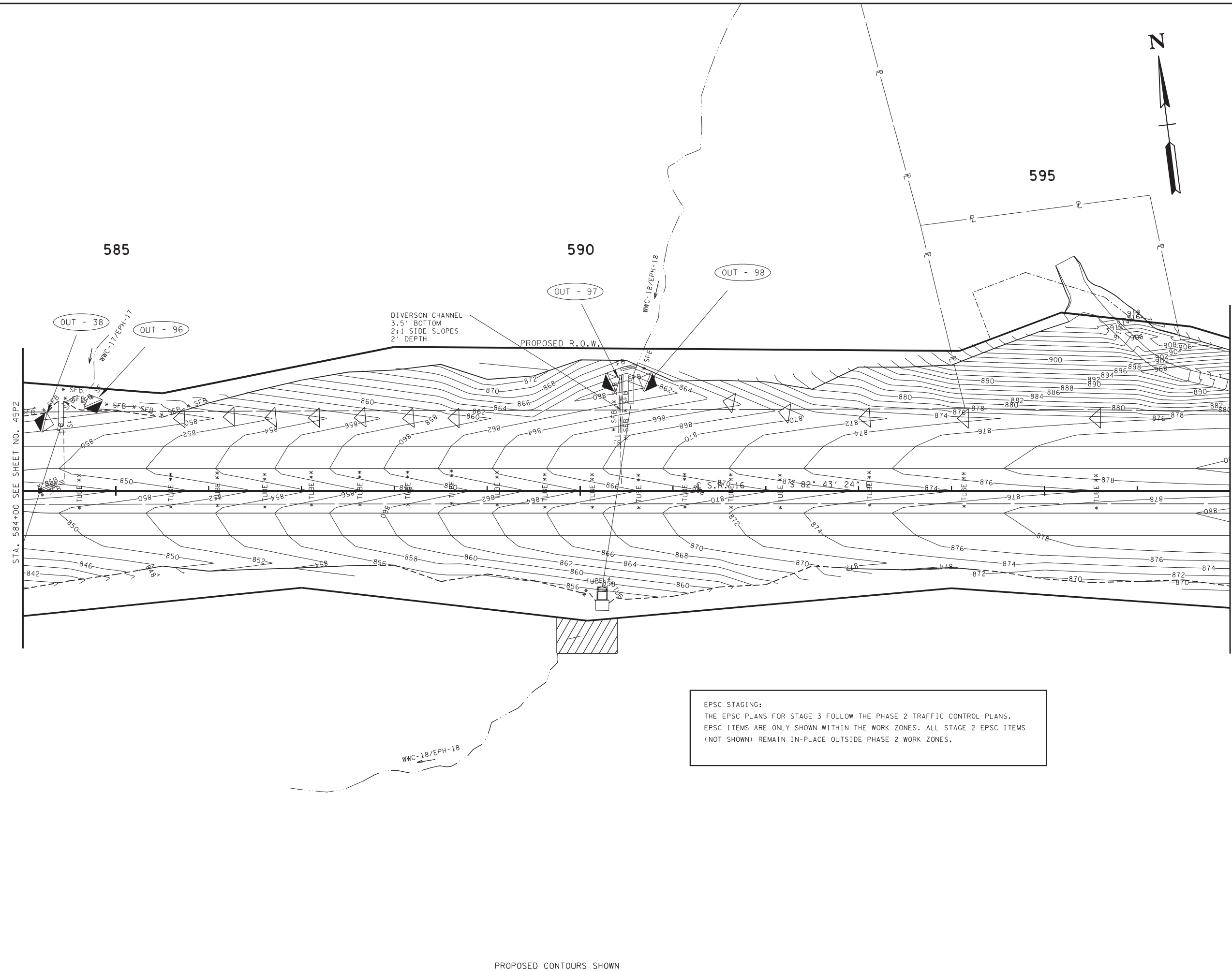
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 2

STA. 584+00 TO STA. 597+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

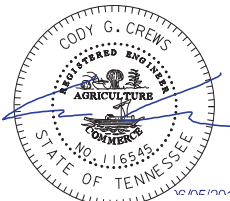


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	4502



EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE PHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

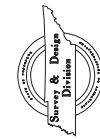
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BIDDING**



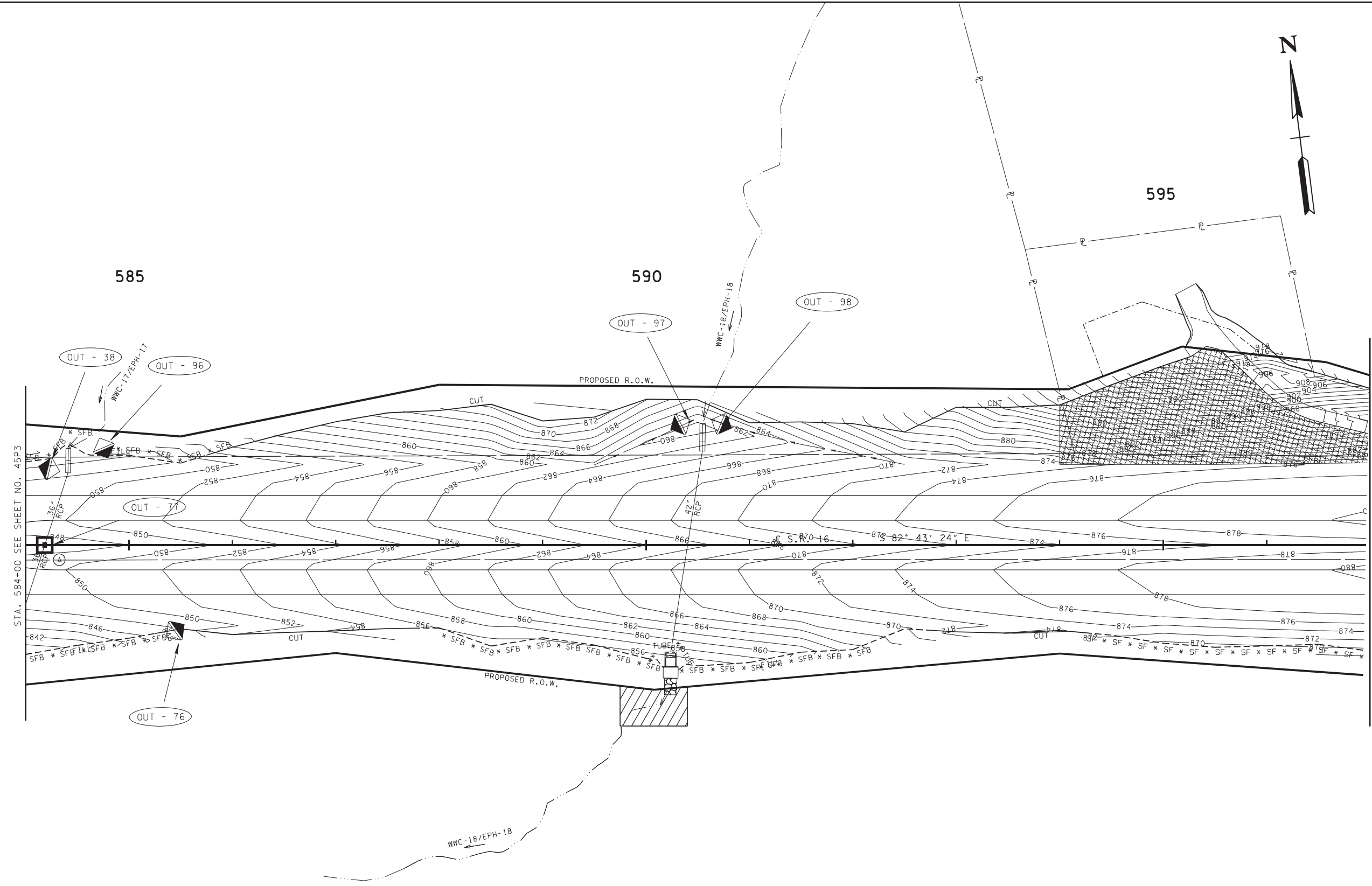
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 584+00 TO STA. 597+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

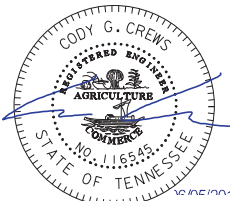


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	4503



STA. 584+00 SEE SHEET NO. 45P3
STA. 597+00 SEE SHEET NO. 45R3

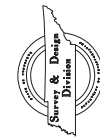
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SET
NOT FOR
BIDDING**



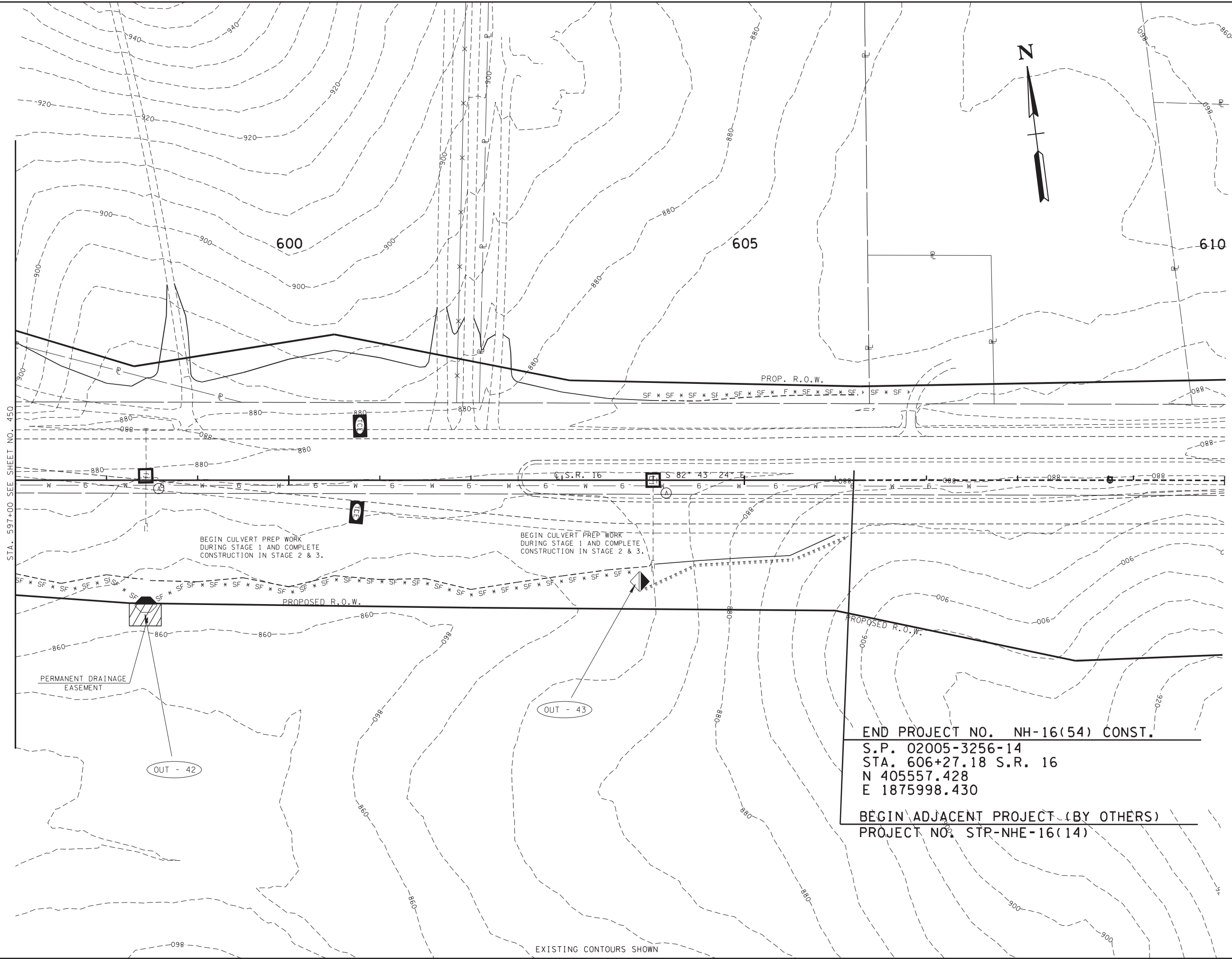
COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4
STA. 584+00 TO STA. 597+00
SCALE: 1" = 50'

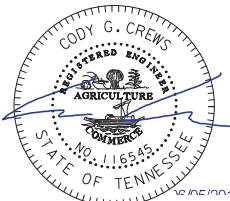
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45R



**UNOFFICIAL
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NOT FOR
BIDDING**



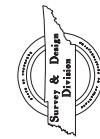
END PROJECT NO. NH-16(54) CONST.
S.P. 02005-3256-14
STA. 606+27.18 S.R. 16
N 405557.428
E 1875998.430

BEGIN ADJACENT PROJECT (BY OTHERS)
PROJECT NO. STP-NHE-16(14)

COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

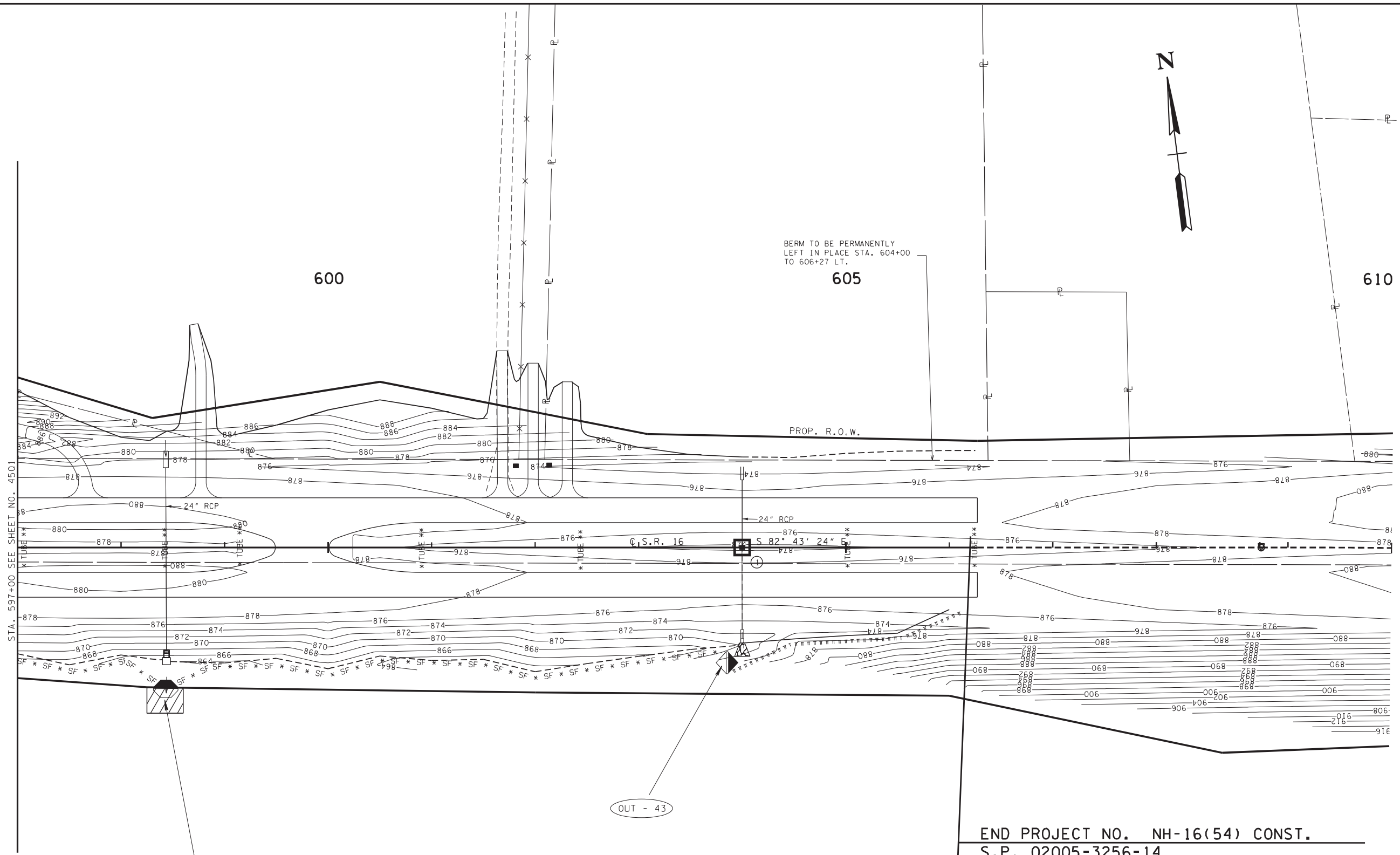
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 1
STA. 597+00 TO STA. 610+00
SCALE: 1" = 50'

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EXISTING CONTOURS SHOWN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45R1



STA. 597+00 SEE SHEET NO. 4501

BERM TO BE PERMANENTLY LEFT IN PLACE STA. 604+00 TO 606+27 LT.

PROP. R.O.W.

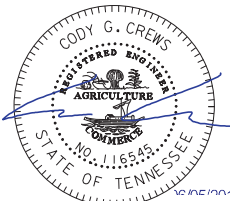
OUT - 43

OUT - 42

EPSC STAGING:
THE EPSC PLANS FOR STAGE 2 FOLLOW THE SPHASE 1 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 1 EPSC ITEMS (NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 1 WORK ZONES.

END PROJECT NO. NH-16(54) CONST.
S.P. 02005-3256-14
STA. 606+27.18 S.R. 16
N 405557.428
E 1875998.430
BEGIN ADJACENT PROJECT (BY OTHERS)
PROJECT NO. STP-NHE-16(14)

UNOFFICIAL SET
NOT FOR BIDDING

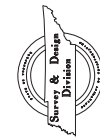


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

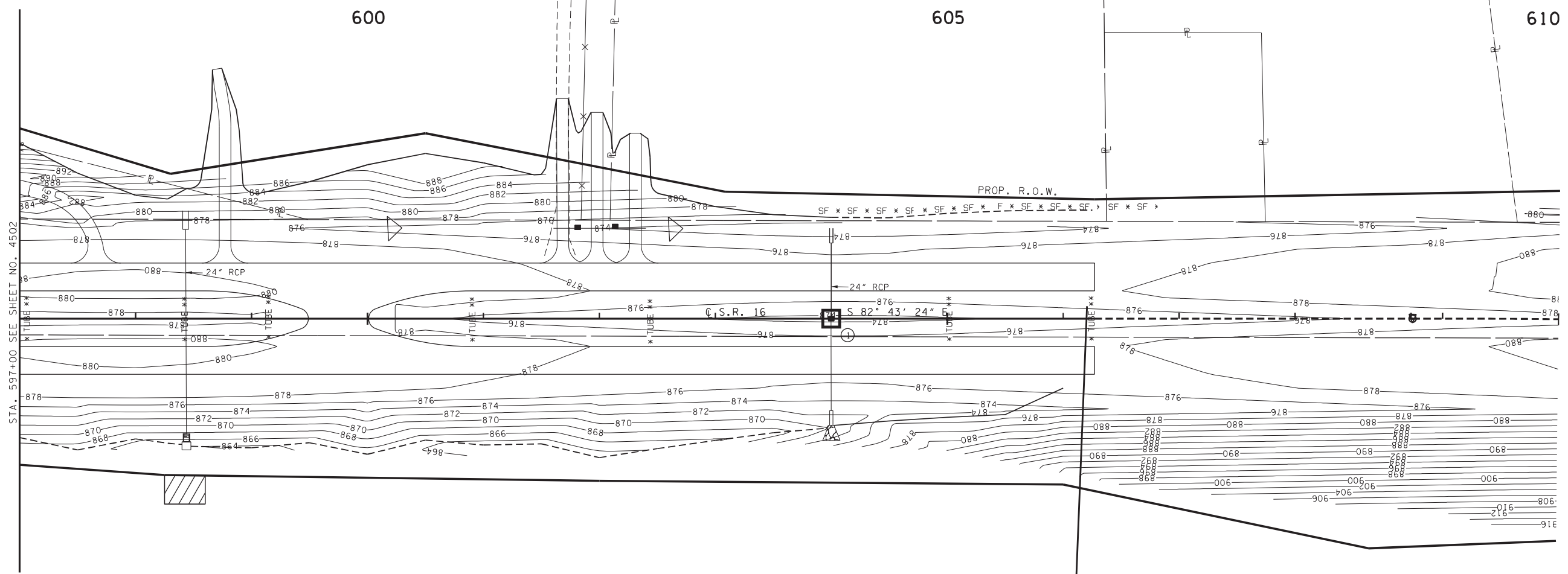
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STAGE 2
STA. 597+00 TO STA. 610+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

6/5/2017 8:02:50 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45R2

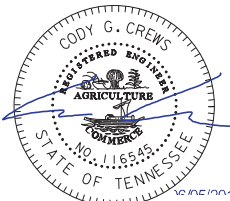


STA. 597+00 SEE SHEET NO. 4502

EPSC STAGING:
THE EPSC PLANS FOR STAGE 3 FOLLOW THE SPHASE 2 TRAFFIC CONTROL PLANS.
EPSC ITEMS ARE ONLY SHOWN WITHIN THE WORK ZONES. ALL STAGE 2 EPSC ITEMS
(NOT SHOWN) REMAIN IN-PLACE OUTSIDE PHASE 2 WORK ZONES.

END PROJECT NO. NH-16(54) CONST.
S.P. 02005-3256-14
STA. 606+27.18 S.R. 16
N 405557.428
E 1875998.430
BEGIN ADJACENT PROJECT (BY OTHERS)
PROJECT NO. STP-NHE-16(14)

**UNOFFICIAL
SET
NOT FOR
BIDDING**

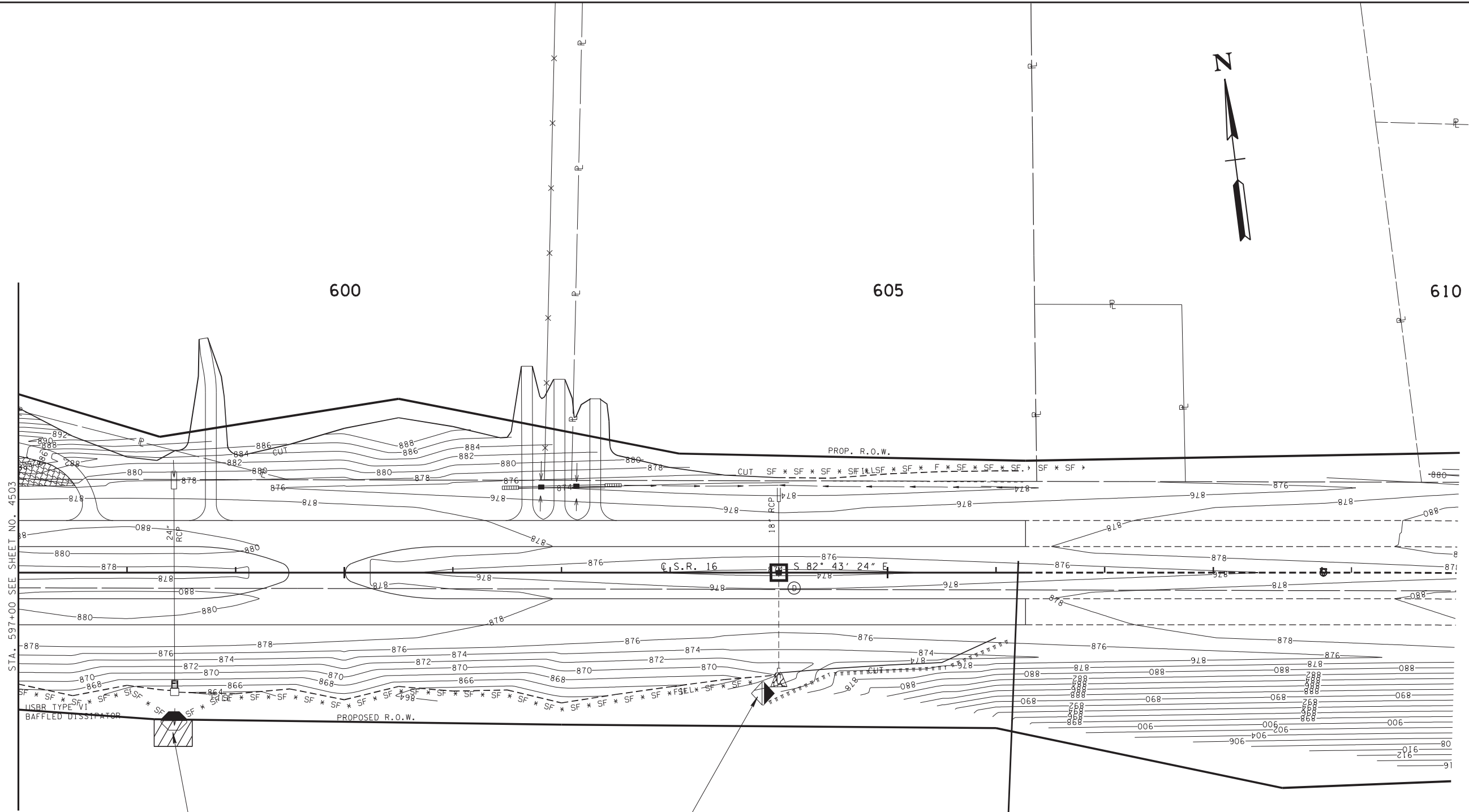


COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 3
STA. 597+00 TO STA. 610+00
SCALE: 1" = 50'

PROPOSED CONTOURS SHOWN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-16 (54)	45R3

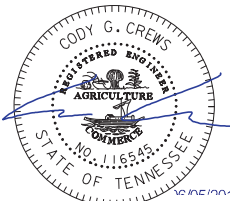


STA. 597+00 SEE SHEET NO. 4503

OUT - 42

OUT - 43

**UNOFFICIAL
SET
NOT FOR
BIDDING**



END PROJECT NO. NH-16(54) CONST.
S.P. 02005-3256-14
STA. 606+27.18 S.R. 16
N 405557.428
E 1875998.430
BEGIN ADJACENT PROJECT (BY OTHERS)
PROJECT NO. STP-NHE-16(14)

COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000675, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**EROSION
PREVENTION
AND SEDIMENT
CONTROL PLAN**
STAGE 4
STA. 597+00 TO STA. 610+00
SCALE: 1" = 50'

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