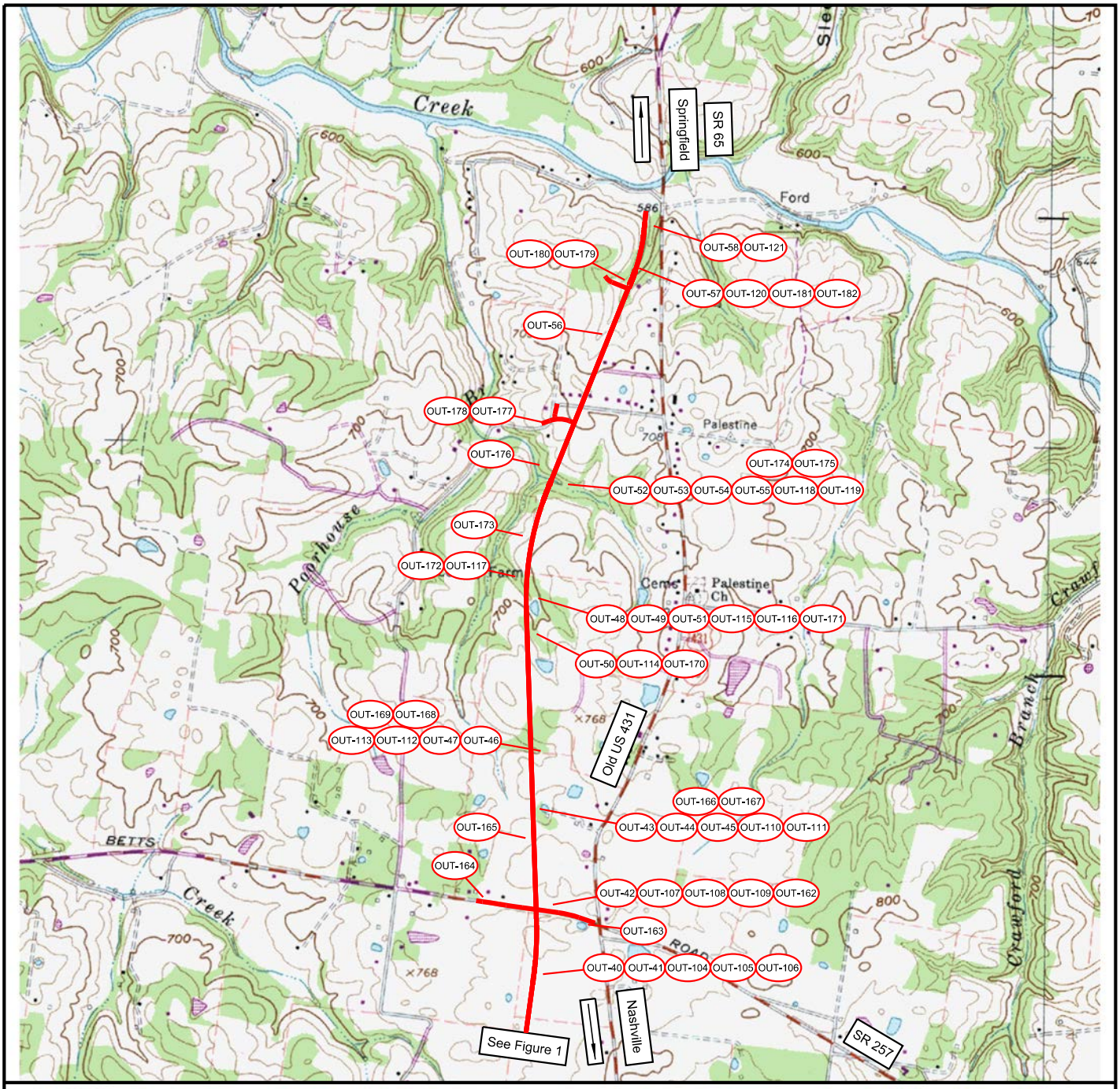

TOPOGRAPHIC MAP

N

OUT-1 Approximate Outfall Location

0 2000 4000

SCALE FEET

SOURCE: USGS Quad Map, U.S. Geological Survey 7.5 Minute Topographic Map, Springfield South & Greenbrier Tennessee Quadrangles

TN TDOT Department of Transportation

Tennessee Department of Transportation

Nashville, Tennessee

Stormwater Pollution Prevention Plan

State Route 65 (US 431)

From Old Highway 431 to Walling Road

Robertson County, Tennessee

Drawn By:	Checked By:
DAH	JBL
TDOT P.E. No.	TDOT PIN
74010-1231-14	105765.00
FED. No.	Figure
STP-65(10)	2 of 2

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-1

SWPPP INDEX OF SHEETS

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

1. SWPPP REQUIREMENTS (3.0)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (3.1.1)?

☒ YES (CHECK ALL THAT APPLY BELOW) OR ☐ NO

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

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

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

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

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

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

☐ YES (CHECK ALL THAT APPLY BELOW) ☐ NO

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

2. SITE DESCRIPTION (3.5.1)

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

2.2. PROJECT DESCRIPTION (3.5.1.a):

TITLE: STATE ROUTE 65 (US431), FROM OLD HIGHWAY 431 TO WALLING ROAD
COUNTY: ROBERTSON
PIN: 105765.00

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

2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): REFER TO EXISTING CONTOURS SHEET(S) 68-86, DRAINAGE MAP SHEET(S) 48-52, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.3.

2.5. MAJOR SOIL DISTURBING ACTIVITIES (3.5.1.b) (CHECK ALL THAT APPLY):

- ☒ CLEARING AND GRUBBING
- ☒ EXCAVATION
- ☒ CUTTING AND FILLING
- ☒ FINAL GRADING AND SHAPING
- ☒ UTILITIES
- ☐ OTHER (DESCRIBE): _____

2.6. TOTAL PROJECT AREA (3.5.1.c): 186.09 ACRES

2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 156.47 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)
BaE - BAXTER CHERTY SILT LOAM	B	1.7	0.28
BcC3 - BAXTER CHERTY SILTY CLAY LOAM	B	5.9	0.24
BcD3 - BAXTER CHERTY SILTY CLAY LOAM	B	4.4	0.24
BoD - BODINE CHERTY SILT LOAM	B	3.9	0.28
BoF - BODINE CHERTY SILT LOAM	B	5.1	0.28
CrC2 - CRIDER SILT LOAM	B	0.5	0.32
DlC2 - DEWEY SILT LOAM	B	0.1	0.32
DmC3 - DEWEY SILTY CLAY LOAM	B	1.5	0.28
DmD3 - DEWEY SILTY CLAY LOAM	B	0.3	0.28
DsB - DICKSON SILT LOAM	C	11.5	0.43
DsC2 - DICKSON SILT LOAM	C	3.1	0.43
Gu - GUTHRIE SILT LOAM	D	0.3	0.43
Hb - HAMBLEN SILT LOAM	C	2.6	0.32
MoB - MOUNTVIEW SILT LOAM	B	7.2	0.43
MoC2 - MOUNTVIEW SILT LOAM	B	9.5	0.43
MoC3 - MOUNTVIEW SILT LOAM	B	1.1	0.43
Ne - NEWARK SILT LOAM	C	0.1	0.43
NxB - NIXA CHERTY SILT LOAM	C	0.5	0.32
NxC - NIXA CHERTY SILT LOAM	C	1	0.32
PeB - PEMBROKE SILT LOAM	B	1	0.32
PeC2 - PEMBROKE SILT LOAM	B	2.4	0.32
PkC3 - PICKWICK SILTY CLAY LOAM	B	2.6	0.37
Sa - SANGO SILT LOAM	C	1.4	0.43
Sc - STASER CHERTY SILT LOAM	B	1	0.24
SeC - SENGTOWN GRAVELLY SILT LOAM	B	18	0.17
SeD - SENGTOWN GRAVELLY SILT LOAM	B	12.1	0.17
Ss - STASER SILT LOAM	B	1.1	0.37
Ta - TAFT SILT LOAM	C	0.1	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	31.9	17.2		0.9
PERVIOUS(GRASS, FORESTS, ETC.)	154.2	82.8		0.37
WEIGHTED C-FACTOR =				0.46

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	54.2	29.1		0.9
PERVIOUS(GRASS, FORESTS, ETC.)	131.9	70.9		0.4
WEIGHTED C-FACTOR =				0.54

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 2"O")

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.

3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

3.6. REMOVE AND STORE TOPSOIL.

3.7. STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY.

3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

3.13. COMPLETE FINAL STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)

3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

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P.E.	2005	74010-1231-14	
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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 TRIB TO BEDNIGO BRANCH	NO	NO	YES	YES
STR-2	UNNAMED TRIB TO BEDNIGO BRANCH	NO	NO	YES	YES
STR-3	UNNAMED TRIB TO BEDNIGO BRANCH	NO	NO	YES	YES
SPG-1/STR-4	UNNAMED TRIB TO BEDNIGO BRANCH	NO	NO	YES	YES
STR-5	BEDNIGO BRANCH	NO	NO	YES	YES
STR-10A	UNNAMED TRIB TO CARR CREEK	NO	NO	YES	YES
STR-7	UNNAMED TRIB TO BEDNIGO BRANCH	NO	NO	YES	YES
STR-8	UNNAMED TRIB TO BEDNIGO BRANCH	NO	NO	YES	YES
STR-9	UNNAMED TRIB TO BEDNIGO BRANCH	NO	NO	YES	YES
STR-10	UNNAMED TRIB TO CARR CREEK	NO	NO	YES	YES
STR-11	UNNAMED TRIB TO CARR CREEK	NO	NO	YES	YES
STR-12	UNNAMED TRIB TO CARR CREEK	NO	NO	YES	YES
STR-13	UNNAMED TRIB TO CARR CREEK	NO	NO	YES	YES
STR-14	UNNAMED TRIB TO CARR CREEK	NO	NO	YES	YES
STR-15	UNNAMED TRIB TO CARR CREEK	NO	NO	YES	YES
	CARR CREEK	NO	NO	NO	YES

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

☐ YES ☒ NO

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

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

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-9/EPH-9	YES	YES	
~~WWC-10/EPH-10~~	~~YES~~	~~YES~~	WWC-10/EPH-10 changed to STR-10A
WWC-11/EPH-11	YES	YES	
WWC-12/EPH-12	YES	YES	
WWC-13/EPH-13	YES	YES	
WWC-14/EPH-14	YES	YES	
WWC-15/EPH-15	YES	YES	

4.2.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? ☐ YES ☒ NO

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

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

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

☒ YES ☐ NO

4.3. OUTFALL INFORMATION

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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	460+20 RT	462+50 RT	N/A	N/A
WTL-2	55+20 LT MT SHARON RD	57+30 LT MT SHARON RD	0.037	N/A
WTL-3	475+70 RT	476+50 RT	N/A	0.046
WTL-4	487+10 RT	487+90 RT	0.02	0.02
WTL-5	500+80 RT	501+90 RT	0.08	0.04
WTL-6	103+40 LT SR-257	105+00 LT SR-257	N/A	N/A
WTL-7	543+70 RT	547+20 RT	0.12	0.36
WTL-8	552+70 RT	553+40 RT	N/A	0.117

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) 1C.

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 2-2A 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, 2A (3.5.3.1.n).

5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.4).

5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.

5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (4.1.7).

5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.

5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.

5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1.h).

5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (3.5.3.2).

5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE

5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

5.30. A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO THE APPLICATION OF FERTILIZERS TO ANY PORTION OF THE STE. SOILS SHOULD BE ANALYZED FOR pH, BUFFER VALUE, PHOSPHOROUS, POTASSIUM, CALCIUM AND MAGNESIUM. SOIL SAMPLES SHOULD BE REPRESENTATIVE OF THE AREA FOR WHICH FERTILIZER WILL BE APPLIED. SAMPLE TYPE SHOULD BE COLLECTED AND ANALYZED IN ACCORDANCE WITH THE UT EXTENSION "SOIL TESTING" BROCHURE PB1061. (4.1.5.)

5.31. FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED FROM THE ANALYSES. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.

5.32. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

6. FLOCCULANTS (3.5.3.1.b)

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

IF YES, THE FOLLOWING NOTES APPLY:

6.1. POLYACRYLAMIDES (PAM) SHALL BE OF THE ANIONIC OR NEUTRALLY CHARGED TYPE ONLY. PAM REQUIREMENTS ARE AS FOLLOWS:

6.1.1. CATIONIC PAM IS NOT ALLOWED BECAUSE OF ITS TOXICITY TO FISH AND AQUATIC LIFE.

6.1.2. ANIONIC AND NEUTRALLY CHARGED PAM SHALL MEET THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR LESS THAN 0.05% BY WEIGHT ACRYLAMIDE MONOMER.

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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

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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): CLASS "A" , "B", AND "C" RIP-RIP USED FOR ROADSIDE DITCH, AND INLET/OUTLET DITCH SLOPE STABILIZATION.

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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

12.3. PRODUCT SPECIFIC PRACTICES

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

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

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

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

12.4. SPILL MANAGEMENT

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

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

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

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

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

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

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

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

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

12.5. SPILL NOTIFICATION (5.1)

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

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

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

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

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

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

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

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

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

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

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

13.1.7. COPY OF REQUIRED SOIL ANALYSIS

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

13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):

13.2.1. EQUIPMENT

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

13.2.2. LOCATION

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

13.2.3. METHODS

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

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

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

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

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

13.3. KEEPING PLANS CURRENT (3.4)

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

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-7

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

13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;

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

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

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

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

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

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

13.4. MAKING PLANS ACCESSIBLE

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

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

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

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

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

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

13.5. NOTICE OF TERMINATION (8.0)

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

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

13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND

13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND

13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND

13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND

13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND

13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND

13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (6.2)

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

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (7.7.5)

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

John L. Hewitt

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

JOHN HEWITT

PRINTED NAME

CE MANAGER 2

TITLE

09/06/2017

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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-8

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1	OUT-1		399+95 RT	4.2	0.5			N/A	WWC-1/EPH-1	
1	OUT-2		407+20 RT	9.6	0.6			N/A	WWC-2/EPH-2	
1	OUT-3		411+35 RT	18.7	1.7			N/A	STR-2	
1	OUT-4		411+80 RT	15.8	1.8			N/A	STR-2	
1	OUT-5		411+20 RT	25.8	0.6			N/A	STR-2	
1	OUT-6		412+70 RT	20.7	0.8			N/A	STR-2	
1	OUT-7		411+20 LT	9.5	2.1			N/A	WWC-4/EPH-4	
1	OUT-8		411+50 LT	9.1	0.9			N/A	WWC-4/EPH-4	
1	OUT-9		426+20 RT	4.5	4.0			N/A	STR-3	
1	OUT-10		426+70 RT	5.7	0.7			N/A	STR-3	
1	OUT-11		425+30 RT	2.5	2.9			N/A	STR-3	
1	OUT-12		424+25 LT	4.9	3.8			N/A	STR-3	
1	OUT-13		424+85 LT	6.7	0.7			N/A	STR-3	
1	OUT-14		437+35 RT	11.7	1.5			N/A	STR-5	
1	OUT-15		437+90 RT	14.8	0.6			N/A	STR-5	
1	OUT-16		438+90 RT	5.7	2.9			N/A	STR-5	
1	OUT-17		439+40 RT	6.2	4.2			N/A	STR-5	
1	OUT-18		439+75 LT	7.3	4.6			N/A	STR-5	
1	OUT-19		441+10 LT	5.8	1.5			N/A	STR-5	
1	OUT-20		450+80 RT	2.3	0.5			N/A	WWC-6/EPH-6	
1	OUT-21		450+85 RT	2.8	3.2			N/A	WWC-6/EPH-6	
1	OUT-22		451+15 RT	2.8	2.1			N/A	WWC-6/EPH-6	
1	OUT-23		452+95 RT	14.4	0.1			N/A	WWC-6/EPH-6	
1	OUT-24		472+25 RT	7.0	0.9			N/A	STR-7	
1	OUT-25		472+70 LT	3.3	1.7			N/A	STR-7	
1	OUT-26		57+60 LT MT SHARON RD	3.9	3.3			N/A	STR-7	
1	OUT-27		476+05 RT	6.6	0.4			N/A	STR-8	
1	OUT-28		476+65 RT	2.1	3.6			N/A	STR-8	
1	OUT-29		488+05 RT	3.0	1.3			N/A	STR-9	
1	OUT-30		489+60 RT	5.0	0.1			N/A	STR-9	
1	OUT-31		489+95 RT	2.0	1.2			N/A	STR-9	
1	OUT-32		502+80 RT	0.8	2.6			N/A	WWC-9/EPH-9	
1	OUT-33		503+05 RT	0.8	1.4			N/A	WWC-9/EPH-9	
1	OUT-34		504+00 LT	1.1	1.8			N/A	WWC-9/EPH-9	
1	OUT-35		504+15 LT	1.0	0.1			N/A	WWC-9/EPH-9	
1	OUT-36		505+20 LT	1.4	1.6			N/A	WWC-9/EPH-9	

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-9

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1	OUT-37		510+90 RT	1.5	1.4			N/A		
1	OUT-38		511+05 RT	1.0	3.8			N/A		
1	OUT-39		510+95 LT	1.0	2.8			N/A		
1	OUT-40		523+45 RT	1.5	1.0			N/A		
1	OUT-41		523+55 RT	4.0	0.7			N/A		
1	OUT-42		102+10 LT S.R. 257	6.7	3.8			N/A	WTL-6	
1	OUT-43		543+50 RT	11.1	0.3			N/A	WTL-3	
1	OUT-44		546+60 RT	4.6	0.4			N/A	WTL-3	
1	OUT-45		544+30 RT	2.6	2.6			N/A	WTL-3	
1	OUT-46		552+45 RT	3.3	1.6			N/A		
1	OUT-47		553+15 RT	4.0	1.8			N/A		
1	OUT-48		572+65 RT	6.2	1.6			N/A	WWC-6/EPH-6	
1	OUT-49		573+05 RT	5.7	0.5			N/A	WWC-6/EPH-6	
1	OUT-50		568+30 RT	5.6	2.2			N/A	WTL-5	
1	OUT-51		573+75 RT	4.5	4.1			N/A	WWC-6/EPH-6	
1	OUT-52		589+40 RT	6.5	3.9			N/A	STR-14	
1	OUT-53		589+10 RT	25.9	0.4			N/A	STR-14	
1	OUT-54		589+20 RT	6.6	7.0			N/A	STR-14	
1	OUT-55		590+15 RT	9.0	2.2			N/A	STR-14	
1	OUT-56		609+55 LT	3.2	4.9			N/A	WWC-15/UDF-1	
1	OUT-57		619+40 RT	4.9	4.3			N/A	STR-15	
1	OUT-58		625+10 RT	5.0	3.6			N/A	STR-9	
2	OUT-59		394+05 LT	1.9		0.4		N/A		
2	OUT-60		393+75 RT	2.8		0.2		N/A		
2	OUT-61		394+10 RT	1.8		0.1		N/A		
2	OUT-62		398+80 RT	22.3		0.4		N/A	WWC-1/EPH-1	
2	OUT-63		399+45 RT	5.6		0.7		N/A	WWC-1/EPH-1	
2	OUT-64		400+00 RT	5.1		0.5		N/A	WWC-1/EPH-1	
2	OUT-65		411+30 RT	21.6		1.7		N/A	STR-2	
2	OUT-66		411+75 RT	27.9		1.9		N/A	STR-2	
2	OUT-67		411+75 RT	16.3		1.5		N/A	STR-2	
2	OUT-68		411+20 RT	27.8		0.6		N/A	STR-2	
2	OUT-69		408+20 RT	15.0		2.0		N/A	WWC-2/EPH-2	
2	OUT-70		426+25 RT	3.8		3.8		N/A	STR-3	
2	OUT-71		426+70 RT	7.1		1.4		N/A	STR-3	
2	OUT-72		423+55 LT	2.9		2.5		N/A	STR-3	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-10

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
2	OUT-73		437+15 RT	11.9		1.0		N/A	STR-5	
2	OUT-74		437+85 RT	5.4		4.7		N/A	STR-5	
2	OUT-75		439+45 RT	18.8		4.1		N/A	STR-5	
2	OUT-76		438+80 RT	14.1		0.4		N/A	STR-5	
2	OUT-77		440+75 RT	9.6		0.8		N/A	STR-5	
2	OUT-78		442+10 LT	2.4		2.8		N/A	STR-5	
2	OUT-79		437+55 RT	14.1		0.3		N/A	STR-5	
2	OUT-80		436+15 LT	4.3		0.1		N/A	STR-5	
2	OUT-81		435+45 LT	2.7		0.6		N/A	STR-5	
2	OUT-82		433+50 LT	3.5		1.3		N/A	STR-5	
2	OUT-83		450+85 RT	3.2		0.5		N/A	WWC-6/EPH-6	
2	OUT-84		451+50 RT	8.0		0.1		N/A	WWC-6/EPH-6	
2	OUT-85		452+25 LT	3.3		1.9		N/A	WWC-6/EPH-6	
2	OUT-86		452+90 RT	12.5		0.2		N/A	WWC-6/EPH-6	
2	OUT-87		458+20 RT	2.1		0.8		N/A	WWC-6/EPH-6	
2	OUT-88		461+15 LT	2.0		5.4		N/A		
2	OUT-89		463+85 LT	4.0		0.1		N/A		
2	OUT-90		51+00 LT OLD US 431	4.0		1.7		N/A		
2	OUT-91		464+60 LT	2.1		2.4		N/A		
2	OUT-92		472+45 RT	8.9		0.9		N/A	STR-7	
2	OUT-93		476+70 RT	2.7		3.3		N/A	STR-8	
2	OUT-94		477+75 RT	1.3		1.5		N/A	STR-8	
2	OUT-95		485+15 RT	10.6		0.8		N/A	STR-9	
2	OUT-96		487+40 RT	7.0		1.3		N/A	STR-9	
2	OUT-97		488+20 RT	5.1		0.1		N/A	STR-9	
2	OUT-98		490+15 RT	3.2		1.2		N/A	STR-9	
2	OUT-99		83+00 RT CAVE SPRINGS RD	6.0		0.3		N/A		
2	OUT-100		83+00 LT CAVE SPRINGS RD	5.8		0.4		N/A		
2	OUT-101		502+85 RT	1.6		2.6		N/A	WWC-9/EPH-9	
2	OUT-102		502+95 RT	2.6		1.4		N/A	WWC-9/EPH-9	
2	OUT-103		511+00 LT	1.1		3.6		N/A		
2	OUT-104		523+40 RT	3.6		1.0		N/A		
2	OUT-105		523+50 RT	4.5		0.7		N/A		
2	OUT-106		525+35 RT	2.3		0.4		N/A		
2	OUT-107		101+50 RT S.R. 257	7.5		0.7		N/A		
2	OUT-108		531+40 RT	1.0		1.3		N/A		

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DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-11

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
2	OUT-109		102+15 LT S.R. 257	1.3		3.4		N/A		
2	OUT-110		544+30 RT	3.5		3.2		N/A	WTL-7	
2	OUT-111		544+45 RT	3.6		1.7		N/A	WTL-7	
2	OUT-112		552+65 RT	4.3		1.6		N/A	STR-10	
2	OUT-113		552+95 RT	4.8		1.8		N/A	STR-10	
2	OUT-114		568+30 RT	5.3		2.2		N/A	STR-12	
2	OUT-115		572+85 RT	10.1		0.5		N/A	STR-12	
2	OUT-116		572+80 RT	4.2		7.9		N/A	STR-12	
2	OUT-117		576+30 LT	4.3		4.1		N/A	STR-12	
2	OUT-118		589+15 RT	4.7		7.5		N/A	STR-14	
2	OUT-119		589+45 RT	8.7		3.9		N/A	STR-14	
2	OUT-120		618+35 RT	1.4		2.4		N/A	STR-15	
2	OUT-121		625+60 RT	3.7		39.2		YES	STR-15	
3	OUT-122		393+85 RT	3.5			0.6	N/A		
3	OUT-123		393+60 LT	4.1			0.4	N/A		
3	OUT-124		399+70 RT	6.8			1.0	N/A	WWC-1/EPH-1	
3	OUT-125		411+40 RT	32.6			1.5	N/A	STR-2	
3	OUT-126		411+65 RT	13.7			2.4	N/A	STR-2	
3	OUT-127		408+15 RT	33.0			1.0	N/A	WWC-2/EPH-2	
3	OUT-128		411+20 LT	8.3			2.0	N/A	WWC-4/EPH-4	
3	OUT-129		411+45 LT	13.1			1.0	N/A	WWC-4/EPH-4	
3	OUT-130		426+30 RT	4.5			2.8	N/A	STR-3	
3	OUT-131		426+70 RT	11.5			0.8	N/A	STR-3	
3	OUT-132		424+40 LT	4.0			3.2	N/A	STR-3	
3	OUT-133		424+65 LT	9.3			0.2	N/A	STR-3	
3	OUT-134		436+95 RT	7.4			2.9	N/A	STR-5	
3	OUT-135		437+50 RT	6.2			6.8	N/A	STR-5	
3	OUT-136		440+40 CL	2.3			1.8	N/A		
3	OUT-137		442+05 CL	6.7			1.2	N/A		
3	OUT-138		437+15 LT	3.7			7.9	N/A	PND-1	
3	OUT-139		442+20 LT	2.9			0.6	N/A	STR-5	
3	OUT-140		453+00 RT	3.7			1.8	N/A	WWC-6/EPH-6	
3	OUT-141		449+85 LT	2.6			0.3	N/A	WWC-6/EPH-6	
3	OUT-142		449+25 LT	4.7			1.3	N/A	WWC-6/EPH-6	
3	OUT-143		461+15 LT	4.7			5.4	N/A		
3	OUT-144		461+25 LT	2.8			2.3	N/A		

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-12

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
3	OUT-145		472+40 RT	18.9			0.6	N/A	STR-7	
3	OUT-146		476+75 RT	4.1			3.0	N/A	STR-8	
3	OUT-147		472+70 CL	1.5			0.6	N/A	STR-7	
3	OUT-148		477+65 CL	1.7			1.4	N/A	STR-8	
3	OUT-149		476+95 LT	3.2			3.6	N/A	WWC-7/EPH-7	
3	OUT-150		476+80 LT	5.4			0.7	N/A		
3	OUT-151		57+55 LT MT. SHARON RD	1.0			1.3	N/A	STR-7	
3	OUT-152		485+10 RT	9.3			0.7	N/A		
3	OUT-153		487+75 RT	8.1			4.7	N/A	WTL-4	
3	OUT-154		83+00 RT CAVE SPRINGS RD	2.7			0.3	N/A		
3	OUT-155		83+00 LT CAVE SPRINGS RD	2.4			0.4	N/A		
3	OUT-156		502+80 RT	2.5			1.4	N/A	WWC-9/EPH-9	
3	OUT-157		502+90 RT	5.9			1.0	N/A	WWC-9/EPH-9	
3	OUT-158		505+30 LT	1.9			2.0	N/A	WWC-9/EPH-9	
3	OUT-159		85+70 RT CHELSEA DR.	7.6			1.1	N/A		
3	OUT-160		85+70 LT CHELSEA DR.	7.4			1.0	N/A		
3	OUT-161		511+00 LT	2.4			5.2	N/A		
3	OUT-162		102+15 LT SR-257	5.1			2.5	N/A	WTL-6	
3	OUT-163		105+80 RT SR-257	2.8			0.9	N/A	PND-2	
3	OUT-164		94+20 LT SR-257	3.1			0.5	N/A		
3	OUT-165		541+50 RT	6.2			3.6	N/A		
3	OUT-166		544+40 RT	2.1			2.6	N/A	WTL-7	
3	OUT-167		544+50 RT	10.6			0.9	N/A	WTL-7	
3	OUT-168		552+75 RT	3.9			0.9	N/A	STR-10	
3	OUT-169		552+90 RT	4.6			2.3	N/A	STR-10	
3	OUT-170		568+40 RT	7.3			0.9	N/A	STR-11	
3	OUT-171		573+00 RT	9.4			2.9	N/A	STR-12	
3	OUT-172		575+80 LT	5.0			4.9	N/A	STR-12	
3	OUT-173		581+05 LT	5.5			0.3	N/A		
3	OUT-174		589+15 RT	5.4			9.4	N/A	STR-14	
3	OUT-175		589+35 RT	8.9			4.4	N/A	STR-14	
3	OUT-176		590+40 LT	7.5			0.5	N/A	STR-14	
3	OUT-177		105+65 RT W. COUNTY FARM RD.	7.9			1.2	N/A	STR-13	
3	OUT-178		105+65 LT W. COUNTY FARM RD.							
3	OUT-179		128+90 LT MARIVIEW DR	4.4			1.6	N/A	WWC-14/EPH-14	

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2005	74010-1231-14	
CONST.	2017	STP-65 (10)	S-13

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
3	OUT-180		617+90 CL	3.8			0.1	N/A	STR-9	
3	OUT-181		618+30 RT	18.6			2.1	N/A	STR-9	
3	OUT-182		622+00 RT	8.7			0.5	N/A	STR-9	

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

Index Of Sheets

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

ROBERTSON COUNTY

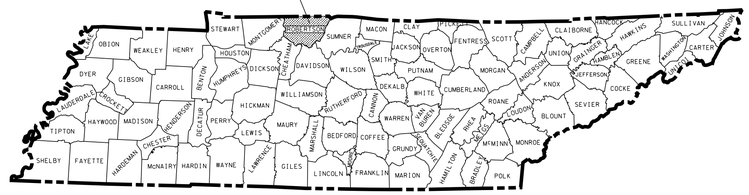
State Route 65 (US 431), from Old Highway 431 to Walling Road

RIGHT-OF-WAY

STATE HIGHWAY NO. 65 F.A.H.S. NO. 65

TENN.	YEAR	SHEET NO.
	2012	1
FED. AID PROJ. NO.	STP-65(10)	
STATE PROJ. NO.	74010-1231-14	

STP-65(10)
74101-1231-14



END ADJ. PROJ. STP/DEMO-65(8)
NO. 74010-2230-14 R.O.W.

END PROJ. NO. STP-65(10),74010-1231-14 R.O.W.
STA. 624+17.73

SURVEY DATE: 12/20/2007

R.O.W. FIELD REVIEW

NO EXCLUSIONS
NO EQUATIONS

BEGIN PROJ. NO. STP-65(10),74010-1231-14 R.O.W.
STA. 402+11.16

SCALE: 1"= 5280'

R.O.W. LENGTH 4.206 MILES

TRAFFIC DATA	
ADT (2013)	14,230
ADT (2033)	25,610
DHV (2033)	2,561
D	70 - 30
T (ADT)	9 %
T (DHV)	6 %
V	70 MPH

ROAD TO BE CLOSED DURING CONSTRUCTION

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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 TRANS. MANAGER 1: LARRY JORDAN

DESIGNED BY: DBS & ASSOCIATES ENGINEERING

DESIGNER: MICHAEL W. MORRIS, PE CHECKED BY

P.E. NO.: 74010-1231-14

PIN: 105765.00

4/23/2012
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Index Of Sheets
SEE SHEET NO. 1A

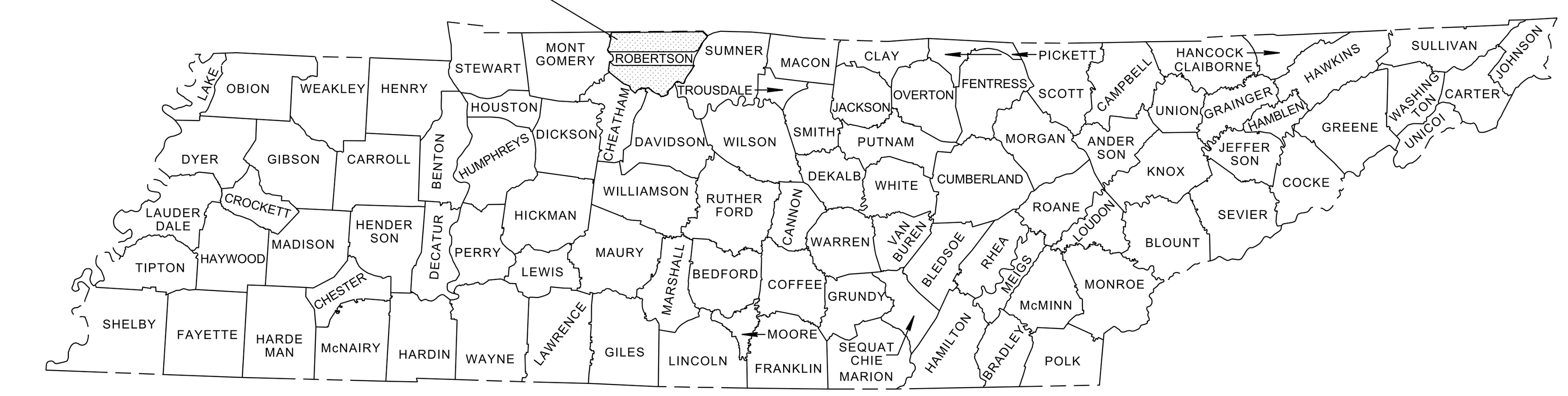
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	STP-65 (10)	
STATE PROJ. NO.	74010-3231-14	

ROBERTSON COUNTY

STATE ROUTE 65 (US431). FROM
OLD HIGHWAY 431 TO WALLING ROAD
GRADE, DRAIN, PAVE, SIGN, STRIPING AND SIGNALIZATION

PROJECT LOCATION



CONSTRUCTION

STATE HIGHWAY NO. 65 F.A.H.S. NO. 431

ADJ. PROJ. STP/DEMO-65(8)
NO. 74010-2230-14 R.O.W.

END PROJ. NO. STP-65(10),74010-3231-14 CONST.
STA. 626+50.00

END PROJ. NO. STP-65(10),74010-2231-14 R.O.W.
STA. 624+17.73

BEGIN PROJECT NO. STP-65 (10), 74010-2231-14 R.O.W.
STA. 402+11.16

BEGIN PROJECT NO. NO. STP-65 (10), 74010-3231-14 CONST.
STA. 393+50.00

SCALE: 1"= 1 MILE

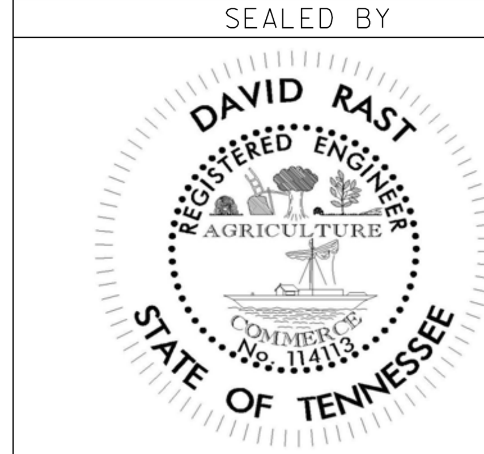
0 1 2 3

N

SURVEY DATE: 12/20/2007
SURVEY UPDATE:1/22/2015

NO EXCLUSIONS

NO EQUATIONS



TRAFFIC DATA	
ADT (2017)	12,900
ADT (2037)	16,760
DHV (2037)	1,974
D	55 - 45
T (ADT)	8 %
T (DHV)	5 %
V	60 MPH

APPROVED:
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

SPECIAL NOTES

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

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

TDOT C.E. MANAGER 1 OR
TDOT TRANSPORTATION MANAGER 1 : LARRY JORDAN

DESIGNED BY : DBS & ASSOCIATES ENGINEERING

DESIGNER : JACQUELYN SMITH P.E. CHECKED BY DAVID RAST,P.E.

P.E. NO. 74010-1231-14

PIN NO. 105765.00

ROADWAY LENGTH	4.413 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	4.413 MILES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	1A

INDEX

STANDARD ROADWAY DRAWINGS

STANDARD BRIDGE DRAWINGS

BRIDGE APPURTENANCES ENGLISH (NEW STRUCTURES)

DWG. NO	REV.	DESCRIPTION
STD-9-1	10-07-08	REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS
STD-10-1	4-08-05	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS

BRIDGE APPURTENANCES ENGLISH (BOX CULVERTS)

DWG. NO	REV.	DESCRIPTION
STD-15-1	11-06-08	INDEX OF DRAWINGS AND TERMINOLOGY
STD-15-2	3-28-08	GENERAL NOTES
STD-15-3	2-28-03	DESIGN SECTION LIMITS
STD-15-4	12-07-01	TYPICAL SECTION AND DETAILS
STD-15-5	2-28-03	TYPICAL ELEVATION
STD-15-6	3-28-08	CURB AND RAIL DETAILS - SKEW NOT LESS THAN 45 DEG.
STD-15-7	3-02-02	STANDARD EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 8"
STD-15-9	2-28-03	TYPICAL WINGWALL DETAILS AND NOTES
STD-15-10	11-06-08	WINGWALL DIMENSIONS AND QUANTITIES
STD-15-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-15-12	3-28-08	WINGWALL & SPECIAL RETAINING WALL DESIGN SECTION
STD-15-13		WINGWALL DESIGN SECTION
STD-15-14	6-01-11	BACKFILL AND DRAINAGE DETAILS
STD-15-15		BACKFILL AND DRAINAGE DETAILS
STD-15-19		SIDEWALK AND MISCELLANEOUS DETAILS
STD-15-20		WARPED SLOPE DETAIL
STD-15-22	2-28-03	EXTENSION DETAILS
STD-15-24	12-07-01	END SECTION DETAILS
STD-15-25	11-01-10	PRECAST BOX CULVERT DETAILS
STD-15-27		PRECAST BOX CULVERT DETAILS
STD-15-97		SLAB BRIDGE, 1 BARREL AT 8', CLEAR HTS. 5' - 8', 0 - 60' FILL

ROADWAY DESIGN STANDARDS

DWG. NO	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
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-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A	02-05-16	DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
RD01-TS-3A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS

DRAINAGE - CULVERTS AND ENDWALL

DWG. NO	REV.	DESCRIPTION
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PB-2	01-29-14	STANDARD DETAILS FOR PLASTIC PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-4	10-10-16	STRAIGHT CONCRETE ENDWALL
D-PE-5	05-27-01	STANDARD WINGWALLS HORIZONTAL OVAL CONCRETE PIPES
D-PE-15A	06-14-13	15" CONCRETE ENDWALL CROSS DRAIN
D-PE-15B		15" CONCRETE ENDWALL CROSS DRAIN
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN
D-PE-24A	01-21-16	24" CONCRETE ENDWALL CROSS DRAIN
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN
D-PE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42A	06-14-13	42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42B		42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A	06-14-13	48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	1B

D-PE-48B		48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLSCONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-SEW-1A	06-14-13	SIDE DRAIN CONCRRETE ENDWALL WITH STEEL PIPE GRATE
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	03-11-14	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	02-02-16	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-MH-2	02-02-16	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	04-21-14	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
D-MH-4	04-01-14	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-RF-1	02-02-16	STANDARD PRECAST RISER

ROADWAY AND PAVEMENT APPURTENANCES

RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS

SAFETY APPURTENANCES AND FENCE

S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-PL-6		SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-CC-1	03-28-17	CRASH CUSHION
S-CC-2		CRASH CUSHION (GATING) BARREL ARRAY
S-GR31-1	03-28-17	W-BEAM GUARDRAIL
S-GRT-2	03-28-17	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRA-1		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL
S-GRA-1A		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
S-GRA-3	03-28-17	TYPE 13 GUARDRAIL ANCHOR

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
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-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-12	07-02-15	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN AND 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 STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-23A	07-02-15	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
T-S-23B	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT
T-S-23C	07-02-15	BREAKAWAY U-POST SIGN SUPPORTS
T-SG-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	06-27-16	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-4		SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-7	06-27-16	SIGNAL HEAD ASSEMBLIES
T-SG-7A		TYPICAL SIGNAL HEAD PLACEMENT – APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7C		TYPICAL SIGNAL HEAD PLACEMENT – ONE-LANE AND TWO-LANE APPROACHES
T-SG-7D		TYPICAL SIGNAL HEAD PLACEMENT – TWO-LANE APPROACHES
T-SG-7G		TYPICAL SIGNAL HEAD PLACEMENT – THREE-LANE APPROACHES
T-SG-7J		TYPICAL SIGNAL HEAD PLACEMENT – FOUR-LANE APPROACHES
T-SG-8	06-27-16	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9A	06-27-16	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	06-27-16	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	06-27-16	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	06-27-16	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-16	03-05-17	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-05-17	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-21	03-05-17	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-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
T-WZ-51	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON 4 OR 5 LANE MAJOR ROUTES
T-WZ-53	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON 4 OR MORE LANE DIVIDED MAJOR ROUTES

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-3D	04-01-08	ENHANCED SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
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-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-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-43		CATCH BASIN FILTER ASSEMBLY (TYPE 3)
EC-STR-43A		CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS

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DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	1C

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHS021	ENVIRONMENTAL DIVISION, HISTORIC	THIS COMMITMENT OVERRIDES COMMITMENTS EDHS016 THROUGH EDHS020: GREENFIELD FARM WILL BE LABELED AS "HISTORIC" WITH THE NATIONAL REGISTER BOUNDARIES DELINEATED ON ALL PROJECT PLANS. THE GREENFIELD FARM PROPERTY WILL NOT TO BE USED FOR STAGING CONSTRUCTION. NO ADDITIONAL TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM GREENFIELD FARM. IF ANY BLASTING IS PROPOSED IN THE VICINITY OF GREENFIELD FARM, THE CONTRACTOR WILL TAKE INTO CONSIDERATION THE HISTORIC PROPERTY AND WILL TAKE ALL NECESSARY MEASURES TO AVOID ANY IMPACTS TO THE HISTORIC PROPERTY. ANY DRIVEWAY WORK AT THE HISTORIC PROPERTY WILL BE AS MINIMAL AS POSSIBLE.	525+00.00

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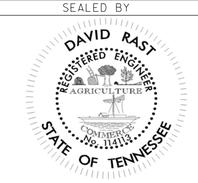

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	984
	202-06.01	REMOVAL OF BUILDINGS (TRACT NO. 82)	LS	1
	202-06.02	REMOVAL OF BUILDINGS (TRACT NO. 86)	LS	1
	202-06.03	REMOVAL OF BUILDINGS (TRACT NO. 87)	LS	1
	202-06.04	REMOVAL OF BUILDINGS (TRACT NO. 91/91A)	LS	1
	202-06.05	REMOVAL OF BUILDINGS (TRACT NO. 93)	LS	1
	202-06.06	REMOVAL OF BUILDINGS (TRACT NO. 98)	LS	1
	202-06.07	REMOVAL OF BUILDINGS (TRACT NO. 101)	LS	1
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	511541
(2)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	54139
(3)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	395420
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	87223
	203-05	UNDERCUTTING	C.Y.	20298
	203-06	WATER	M.G.	4675
	203-08	CHANNEL EXCAVATION (UNCLASSIFIED)	C.Y.	508
	204-08	FOUNDATION FILL MATERIAL	C.Y.	104
	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	10
(4)	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	1185.7
	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	342.8
(4)	209-03.20	FILTER SOCK (8 INCH)	L.F.	4301
(4)	209-03.22	FILTER SOCK (18 INCH)	L.F.	910
(4)	209-05	SEDIMENT REMOVAL	C.Y.	8299
(4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	29327
(4)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	14471
(4)	209-08.04	TEMPORARY ENHANCED SILT FENCE	L.F.	515
(4)	209-08.07	ROCK CHECK DAM PER	EACH	643
(4)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	186
(4)	209-09.01	SANDBAGS	BAG	500
(4)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	5
(4)	209-09.22	POLYACHLAMIDE POWDER	LB.	625
(4)	209-09.23	POLYACHLAMIDE LIQUID	GAL.	65
(4)	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	3164
(4)	209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	1
(4)	209-40.43	CATCH BASIN FILTER ASSEMBLY(TYPE 3)	EACH	21
(4)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	873
(4)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	156
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	269233
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	3589
(5),(6)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	108
(7)	303-10.04	MINERAL AGGREGATE (SIZE 357)	TON	215
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	802
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1450
	307-01.21	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GR. A-S	TON	20601
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	25048
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	17244
	310-10.03	MINERAL AGGREGATE (SIZE 68)	TON	136
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	325
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1435
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	205
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	390

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	5849
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	1624
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	10110
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	7.2
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	8.6
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	1042
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	707
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	89389
	607-02.02	15" CONCRETE PIPE CULVERT(CLASS III)	L.F.	8
	607-03.30	18" PIPE CULVERT	L.F.	2931
	607-05.30	24" PIPE CULVERT	L.F.	795
	607-06.30	30" PIPE CULVERT	L.F.	385
	607-07.30	36" PIPE CULVERT	L.F.	581
	607-08.30	42" PIPE CULVERT	L.F.	882
	607-09.30	48" PIPE CULVERT	L.F.	244
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	1805
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	178
	607-39.04	30" PIPE CULVERT (SIDE DRAIN)	L.F.	51
	607-39.05	36" PIPE CULVERT (SIDE DRAIN)	L.F.	147
	607-39.06	42" PIPE CULVERT (SIDE DRAIN)	L.F.	22
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	1
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	45
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1066
	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	18
	611-07.51	15IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	7
	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	4
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	3
	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	4
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.66	42IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.69	48IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.70	48IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-07.73	18IN ENDWALL (MEDIAN DRAIN)	EACH	21
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	5
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH	5
	611-38.03	CATCH BASINS, TYPE 38, > 8' - 12' DEPTH	EACH	6
	611-38.04	CATCH BASINS, TYPE 38, > 12' - 16' DEPTH	EACH	1
	611-38.05	CATCH BASINS, TYPE 38, > 16' - 20' DEPTH	EACH	3
	611-38.06	CATCH BASINS, TYPE 38, > 20' - 24' DEPTH	EACH	1
	611-38.08	CATCH BASINS, TYPE 38, > 28' - 32' DEPTH	EACH	1
	621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	135
	621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F.	104
	701-02	CONCRETE DRIVEWAY	S.F.	31970
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	8621
	705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	11
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	6
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	11
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	20076
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	122
(8)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	14304
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	9099
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	3501

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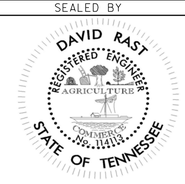

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

SHEET 1 OF 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	47383
	710-05	LATERAL UNDERDRAIN	L.F.	11846
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	237
	712-01	TRAFFIC CONTROL	LS	1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	327
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	24
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	20
	712-06	SIGNS (CONSTRUCTION)	S.F.	601
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	132
	712-08.03	ARROW BOARD (TYPE C)	EACH	1
(9)	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	8440
(15)	713-11.01	"U" SECTION STEEL POSTS	LB.	1523
(15)	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	2939
(15)	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	550
(15)	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	458
(16)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	5
	716-01.21	Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	242
	716-01.22	Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color)	EACH	21
	716-01.23	Snwplwble Pvmt Mrkrs (Bi-Dir)(2 Colors)	EACH	770
(10)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	1039
(10)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	451
(10)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	35
(10)	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	4285
(11)	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	26
(11)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	902
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	2
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	31
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	1
	717-01	MOBILIZATION	LS	1
(7)	740-06.01	GEOMEMBRANE	S.Y.	50
(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	25949
(7)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	57311
(4)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN (DESCRIPTION)	L.F.	2971
(4)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	32519
(4)	740-11.05	TEMPORARY SEDIMENT TUBE 24IN (DESCRIPTION)	L.F.	2201
	801-01	SEEDING (WITH MULCH)	UNIT	4378
	801-01.02	CROWN VETCH MIXTURE(WITH MULCH)	UNIT	922
(4)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	8756
(12)	801-02	SEEDING (WITHOUT MULCH)	UNIT	7
(12)	801-02.15	FERTILIZER	TON	131
(13)	801-03	WATER (SEEDING & SODDING)	M.G.	1313
	802-11.02	ACER RUBRUM (RED MAPLE 2-5FT CNTNR GRWN)	EACH	22
	802-11.13	CRATAEGUS PHAENOPYRUM (WSHNGTN HAWTHORN 2-5FT CNTNR GRWN)	EACH	22
	802-11.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM 2-5FT CNTNR GRWN)	EACH	22
	802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	EACH	21
	802-11.57	VIBURNUM RUFIDULUM (RUSTY BLACKHAW 2-5FT C.G.)	EACH	22
	802-12.02	ACER RUBRUM (RED MAPLE SEEDLNG B.R.)	EACH	22
	802-12.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM SEEDLNG B.R.)	EACH	35
	802-12.26	PLATANUS OCCIDENTALIS (SYCAMORE SEEDLNG B.R.)	EACH	21
	802-12.35	QUERCUS NIGRA (WATER OAK SEEDLNG B.R.)	EACH	13
	802-12.37	QUERCUS PALUSTRIS (PIN OAK SEEDLNG B.R.)	EACH	13
	802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	EACH	13
	802-13.04	CORNUS AMOMUM (SILKY DOGWOOD 2-5FT CNTNR GRWN)	EACH	21
	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	2257
(14)	806-02.03	PROJECT MOWING	CYCL	6

FOOT NOTES:

(1) ITEM INCLUDES 6023 CUBIC YARDS FOR EROSION CONTROL.

(2) ITEM INCLUDES 1125 TONS FOR SINKHOLE TREATMENT.

(3) ITEM INCLUDES 5797 CUBIC YARDS FOR SINKHOLE TREATMENT.

(4) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(5) ITEM INCLUDES 466 TONS FOR EROSION CONTROL.

(6) ITEM INCLUDES 11 TONS FOR SINKHOLE TREATMENT.

(7) ITEM IS FOR SINKHOLE REPAIR.

(8) ITEM INCLUDES 5348 TONS FOR EROSION CONTROL.

(9) ITEM TO BE USED AT NORTH END OF PROJECT FOR TEMPOARY TRAFFIC CONTROL FROM THE ADJACENT PROJECT.

(10) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID TO THERMOPLASTIC.

(11) ITEM INCLUDES TEMPOARY TRAFFIC CONTROL MARKING ON INTERMEDIATE LAYERS OF PAVEMENT AND PERMENANT MARKING FOR ALL LOCAL ROADS WITH AN ADT OF LESS THAN 1000 PER SECTION FOUR, CONSTRUCTION PLANS, TABLE 4-3, IN THE ROADWAY DESIGN GUIDELINES.

(12) TO BE USED IN CONJUNCTION WITH EROSION CONTROL BLANKETS AND AS DIRECTED BY THE ENGINEER.

(13) ITEM INCLUDES 686 M.G. FOR EROSION CONTROL.

(14) ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.03, PROJECT MOWING, CYCL.

(15) THE PRICE FOR THE SIGNS THAT ARE NOT INCLUDED IN THE PLANS OR SIGNING SCHEDULE SHEETS BUT ARE REQUESTED BY THECOOPERTOWN CITY AND OR THE CITY OF SPRINGFIELD NEED TO BE INCLUDED IN THE PRICE OF THE SIGNING ITEMS.

(16) INCLUDE REMOVING OF ALL THE EXISTING SIGNS THAT ARE REPLACED IN THE SIGN SCHEDULE WITHIN THE PROJECT OR AS DIRECTED BY THE ENGINEER-AND RESTORING OF GROUND TO ORIGINAL CONDITIONS.

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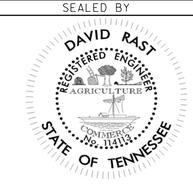

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

SHEET 2 OF 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	2B

ESTIMATED SIGNAL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	730-14.22	STREET NAME SIGN (SUSPENDED 0.100IN THICK)	SF	56
(2)	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	6
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	2
	730-02.30	SIGNAL HEAD ASSEMBLY (130 A3 WITH BACKPLATE)	EACH	2
	730-03.20	INSTALL PULL BOX (TYPE A)	EACH	8
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	9
(3)	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	444
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	900
	730-09.01	SPAN WIRE ASSEMBLY (22,100 LBS.MIN.BRK STRENGTH)	L.F.	677
	730-10.01	TETHER WIRE ASSEMBLY - 1/4" DIAMETER	L.F.	677
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	1875
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	65
	730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	31
	730-13.03	VEHICLE DETECTOR (4 - CHANNEL, RACK MOUNT)	EACH	3
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	4832
	730-14.02	SAW SLOT	L.F.	1363
	730-14.03	LOOP WIRE	L.F.	3778
	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1
	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	1
(4)	730-23.01	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	3
(5)	730-23.02	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	1
(6)	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	1

FOOTNOTES

(1) TO INCLUDE 6 STREET NAME SIGNS AND ALL NECESSARY HARDWARE. SIGNS TO BE INSTALLED ON THE SPAN WIRE BY THE CONTRACTOR. SEE SHEET 128 FOR LOCATION OF SIGNS. SEE SIGN SCHEDULE SHEET FOR SIGN DETAILS.

(2) INCLUDES THE REMOVAL OF ALL SIGNAL POLES, SIGNAL HEADS, SIGNAL CABLES, CONTROLLER AND ANY OTHER SIGNAL RELATED EQUIPMENT AT THIS INTERSECTION.

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM FOR PAYMENT BY THE CONTRACTOR.

(4) FOR STRAIN POLES #2, #3, AND #4:
MOMENT CAPACITY: 484,500 FT-LBS
FOOTING DEPTH: 25'-0"
FOOTING DIAMETER: 4'-0"

(5) FOR STRAIN POLE #1:
MOMENT CAPACITY: 632,000 FT-LBS
FOOTING DEPTH: 29'-0"
FOOTING DIAMETER: 4'-0"

(6) INCLUDES 4 WOOD POLES, GUYING DEVICES, SPAN WIRE, CONDUIT RISERS AND ANY OTHER SIGNAL RELATED EQUIPMENT NEEDED FOR A FULLY OPERATIONAL TRAFFIC SIGNAL SYSTEM.

SPECIAL NOTES REGARDING SIGNAL HEADS

(1) ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS PROPOSED FOR THIS PROJECT SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.

(2) CIRCULAR INDICATIONS SHALL MEET "ITE VTCSH-LED CIRCULAR SIGNAL SUPPLEMENT" FOR EXPANDED/EXTENDED VIEW.
ARROW INDICATIONS SHALL MEET "ITE VTCSH-3 LED ARROW SPECIFICATON" FOR EXPANDED/EXTENDED VIEW.

(3) INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.

(4) COMPATABILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED.

(5) MANUFACTURER SHALL PROVIDE A MINIMUM FIVE-YEAR WARRANTY FOR OPERATION OF THE UNIT.

(6) ALL SIGNAL HEADS WITH LED LENSES SHALL INCLUDE SWIVEL BALANCE ADJUSTERS TO MAINTAIN THE PROPER VISIBILITY. COSTS OF ADJUSTERS TO BE INCLUDED IN COSTS OF SIGNAL HEADS.

(7) THE ATTACHMENT OF THE TETHER WIRE TO THE POLE SHALL BE LOCATED BELOW THE LOWEST ELEVATION OF THE SIGNAL HEADS.

(8) SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUM/ 3" MAXIMUM YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER IS TO BE MADE OF A TYPE III PRISMATIC OR BETTER MATERIAL.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	2K

GENERAL NOTES

GRADING

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

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

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

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

(3) ITEM NO. 801-01.02 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

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

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

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(2) THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(3) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

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

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR CATCHBASINS, MANHOLES, PIPE CULVERTS, PIPE CULVERT ENDWALLS, SIDE DRAINS, AND MEDIAN DRAINS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

(3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(5) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

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

FENCING

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

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

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

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

MISCELLANEOUS

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

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

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

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

RIGHT OF WAY

(SEE SHEET NO. 3)

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

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

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

FINAL PAVEMENT MARKING

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

PAVEMENT

PAVING

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

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

RESURFACING

(6) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(7) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

(8) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.

(9) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

GRADED SOLID ROCK

(1) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	2L

(1) REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(2) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

RIPRAP

(1) MACHINED RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS.

SIGNING

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

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

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

(4) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

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

(6) 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.

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

(8) 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.

(9) 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.

(10) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

TRAFFIC CONTROL DIRECTIONAL SIGNING

(11) ALL EXISTING "EMERGENCY REFERENCE MARKERS" AND "HOSPITAL SIGNS" SHALL BE MAINTAINED WITHIN FULL VIEW OF THE MOTORING PUBLIC THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING AND TEMPORARY SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 712-01.

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

SIGNALIZATION

(1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

(2) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE COUNTY AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE COUNTY.

(3) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

(4) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.

(5) THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

(6) THE CONTRACTOR SHALL CONTACT MELISSA SHULL WITH TDOT AT 615-741-3370 A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.

(7) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF A LEVELING COURSE IS PROVIDED.

(8) LOOP REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

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

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(9) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(10) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(11) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(12) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

(13) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS APPLIED.

(14) 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.

SEDIMENT CONTROL

(15) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

(16) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.

(17) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE 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 GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE 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 NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(18) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

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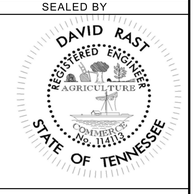

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-65(10)	2M

(19) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, 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. 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.

(20) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(21) 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.

(22) 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 PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO 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. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

NATURAL RESOURCES

(23) 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.

(24) 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.

(25) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.

(26) THE OPERATIONS OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401, SECTION 404 PERMIT(S) AND/OR TVA26(A), IF APPLICABLE. ANY ADDITIONAL PERMITS REQUIRE BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(27) 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.

(28) 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.

(29) 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.

(30) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

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

SPECIES

(32) 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.

(33) 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).

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

INSPECTION, MAINTENANCE & REPAIR

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

(36) THE TDOT CONSTRUCTION SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S RESPONSIBLE PARTY ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION SUPERVISOR OR THEIR DESIGNEE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

(37) TDOT CONSULTANTS AND CONTRACTOR STAFF RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. TDOT STAFF AND SUPERVISORS RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDOT "FUNDAMENTALS OF EROSION AND SEDIMENT CONTROL" CLASS AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION.

(38) EPSC CONTROLS SHALL BE INSPECTED ACCORDING TO PERMIT REQUIREMENTS 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.

(39) DISCHARGE POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING 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 OFFSITE ROADWAY SEDIMENT TRACKING.

(40) 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 SHALL BE PROVIDED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(41) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES SHALL BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). 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.

(42) THE EPSC PLAN SHALL BE UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL 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 STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

(43) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT SHALL BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

EROSION PREVENTION

(44) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(45) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE 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.

(46) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE TDOT RESPONSIBLE PARTY. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN.

(47) TEMPORARY STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION MEASURES IN DISTURBED AREAS SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY PHASE OF CONSTRUCTION.

(48) STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT.

(49) PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

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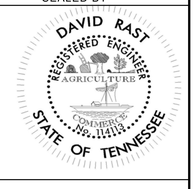

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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(50) TEMPORARY OR PERMANENT STABILIZATION MUST BE FREE OF FINES (SILT AND CLAY SIZED PARTICLES). UNPACKED GRAVEL CONTAINING FINES OR CRUSHER-RUN WILL NOT BE CONSIDERED SUFFICIENT STABILIZATION.

(51) DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED.

PERMITS, PLANS & RECORDS

(52) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).

(53) 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.

(54) 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.

(55) 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.

(56) 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.

(57) 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 A CHANGE IN THE DESIGN OR CONSTRUCTION OF THE PROJECT OCCURS. THE STAGES DEPICTED IN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL PHASES 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 PHASES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE PHASES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS WILL HAVE TO BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(58) 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.

(59) 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.

(60) 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.

(61) 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.

(62) 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.

(63) 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.

(64) 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.

(65) 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.

(66) 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.

(67) 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.

(68) 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.

(69) 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

(70) 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.

(71) IF OFFSITE BORROW AND WASTE AREAS BECOME NECESSARY DURING THE LIFE OF THE PROJECT, THIS SUPPORT ACTIVITY SHALL BE ADDRESSED PER THE TDOT WASTE AND BORROW MANUAL.

(72) MATERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN.

(73) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY EPSC PLANS FOR THE MATERIAL AND STAGING AREAS TO THE ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW.

SPILL PREVENTION, MANAGEMENT & NOTIFICATION

(74) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE AND SPILLS.

(75) FOR ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

(76) APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ONSITE 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.

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

(78) THE CONTRACTOR'S RESPONSIBLE PARTY SHALL 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.

(79) IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR SHALL 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.

(80) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.

(81) IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. 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.

(82) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, SEE THE LATEST TENNESSEE GENERAL PERMIT NO. TNR100000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SECTION 5.1 FOR REPORTING REQUIREMENTS.

(83) CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE TDOT PROJECT RESPONSIBLE PRIOR TO STORING 1320 GALLONS ON SITE.

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GENERAL NOTES

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SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

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

(3) 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.

(4) 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.

(5) TOPSOIL TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACT AND STOCKPILED PRIOR TO CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATED MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL TEMPORARY WETLAND IMPACT AREAS ARE TO BE RESTORED TO PRE-CONSTRUCTION CONTOURS AND THE STOCKPILED WETLAND TOPSOIL SPREAD TO RESTORE THESE AREAS TO PRE-CONSTRUCTION ACTIVITIES.

DRAINAGE

(1) THE CONTRACTOR IS TO CONSTRUCT THE PROPOSED MEDIAN DRAINS IN STAGES AS CONSTRUCTION PROGRESSES TO PREVENT PONDING STORM WATER FROM ENCROACHING ON THE EXISTING ROADWAY PAVEMENT.

PAVEMENT

RESURFACING

(1) TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITIONS ONLY:

a. THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.

b. THE SURFACE SHALL BE SWEPT AND CLEANED OF ALL LOOSE MATERIALS.

c. THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.

d. THE MILLED SURFACE SHALL BE PAVED WITHIN 48 HOURS.

e. RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.

f. ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGNS (TN-64) PLACED IN ADVANCE OF ANY MILLED AREAS.

g. IF RAVELING OR DETERIORATION OF THE MILLED SURFACE IS OCCURRING WHILE TRAFFIC IS DRIVING ON THE MILLED SURFACE, THEN THIS PRACTICE WILL NOT BE ALLOWED AND PAVING SHALL BE COMPLETED IMMEDIATELY AFTER MILLING.

h. ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

SIGNALIZATION

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

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET NO. 65, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

ECOLOGY

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

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

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

STREAM RELOCATION

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

CHANNEL RELOCATION SEQUENCE AND IMPLEMENTATION

(1) THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIP-RAP (ONLY AS SHOWN ON PLANS); SEEDING, AND SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION. WATER SHALL BE DIVERTED INTO THE NEW CHANNEL ONLY AFTER IT IS COMPLETELY STABILIZED, AND ONLY DURING A LOW-WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER IS IN PLACE, AND SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.

(2) CHANNEL RELOCATION SEQUENCE

a. FLAG EDGE OF THE NEW CHANNEL TOP BANK PRIOR TO CLEARING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOE OF THE NEW HIGHWAY SLOPE AND THE STREAM.

b. EXCAVATE THE NEW CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.

c. SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.

d. PLACE TOPSOIL, EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER, SEED, AND SOD AS SPECIFIED.

e. REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWN STREAM, BANKS AND BOTTOM ELEVATION OF THE OLD CHANNEL.

f. INSTALL TREES ACCORDING TO STANDARD SPECIFICATIONS SECTION 802.

(3) ONLY RIP-RAP SHOWN ON PLANS SHOULD BE USED IN THE RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIP-RAP SHOULD BE COORDINATED WITH THE ENVIRONMENTAL DIVISION THROUGH THE TDOT HEADQUARTERS CONSTRUCTION OFFICE.

(4) REQUESTS BY ANY AGENCY THAT WOULD REQUIRE THE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, RIP-RAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATIONS SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA THE HEADQUARTERS CONSTRUCTION OFFICE FOR COORDINATION WITH ALL INVOLVED AGENCIES AND TDOT DIVISIONS.

TREES

(1) NO SUBSTITUTIONS OF TREE SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. CONCERNING STREAM MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED AND FIRST QUALITY. CONCERNING TEMPORARY WETLAND MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED, WELL BRANCHED, BARE ROOT (ROOTS MUST BE KEPT MOIST AT ALL TIMES), AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

(2) THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE TIME TO LOCATE.

(3) ALL TREES PLANTED SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.

(4) TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

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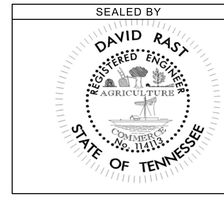

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	3E
CONST.	2017	STP-65(10)	3E

REV. 08-15-13: ADDED TRACT NO. 15A DUE TO SELL OFF FROM TRACT NO. 15.

REV. 08-30-13: UPDATED PROPERTY OWNER AND COUNTY RECORDS FOR TRACT NO. 93.

REV. 05-02-14: EXTENDED BEGIN CONSTRUCTION LIMIT. ADDED TRACT NOS.112-117.

REV. 02-24-15: ADDED TRACT NO. 14A DUE TO SELL OFF FROM TRACT NO. 14.

REV. 05-28-15: ADDED TRACT NO. 2A

REV. 03-03-16: REVISED TRACT NO. 101 AREA TO BE ACQUIRED AND AREA REMAINING.

REV. 02-01-17: ADDED CONSTRUCTION EASEMENT TO TRACT NOS. 93 & 98.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
~~92~~	~~HUBERT D. OWENS~~	~~104~~	~~43.06~~	~~597~~	~~46~~	~~2.189~~		~~2.189~~				~~2.189~~				
93	NANCY M. DORRIS	102	181	1511	607		1.330	1.330		0.925	0.925		0.405			3011
~~94~~	~~JAMES R. CARR & WIFE TINA M. CARR~~	~~104~~	~~43~~	~~504~~	~~203~~	~~0.926~~		~~0.926~~				~~0.926~~				
95	JOHN W. SPAHR & WIFE, KARLA SPAHR	102	195	330	802	0.813		0.813	166 S.F.		166 S.F.	0.809				
96	JOHN W. SPAHR & WIFE, KARLA SPAHR	102	194	304	800	1.366		1.366	4154 S.F.		4154 S.F.	1.271				
97	JOSEPH W. OSBORNE	102	185	352	941	1.272		1.272	0.106		0.106	1.166				
98	MARY C. HUTCHERSON, AS TRUSTEE OF THE MARY C. HUTCHERSON REVOCABLE LIVING TRUST	102	183	971	345		2.351	2.351		1.073	1.073		1.278			0.104 AC
~~99~~	~~ELSIE W. LANE~~	~~104~~	~~43.12~~	~~897~~	~~556~~	~~0.921~~		~~0.921~~				~~0.921~~				
~~100~~	~~JUDY K. GANT~~	~~104~~	~~43.13~~	~~296~~	~~42~~	~~0.820~~		~~0.820~~				~~0.820~~				
101	STEVEN A. HUTCHERSON & WIFE, CONNIE D. HUTCHERSON	102	184	503	633		1.890	1.890		1.890	1.890					
~~102~~	~~THOMAS L. ALDSTADT & WIFE, BETTIE A. ALDSTADT~~	~~104~~	~~16.06~~	~~360~~	~~203~~	~~8.354~~		~~8.354~~				~~8.354~~				
~~103~~	~~JOSEPH EDEN & WIFE, MARY K. EDEN~~	~~104~~	~~45~~	~~131~~	~~433~~		~~0.996~~	~~0.996~~					~~0.996~~			
104	CHARLES M. NORRIS ETUX, HELEN M. NORRIS	102	165	848	375		0.713	0.713		559 S.F.	559 S.F.		0.701			
15A	TERESA WILLIAMS	122	110.03	1313	238		20.500	20.500		0.107	0.107		20.393			
~~112~~	~~LAWRENCE G. HYDE, JR.~~	~~130~~	~~21~~	~~957~~	~~428~~	~~3.390~~		~~3.390~~				~~3.390~~				
~~113~~	~~CHARLES O. WILBUR AND WIRE, SHERRY L. WILBUR~~	~~130~~	~~43~~	~~1331~~	~~506~~		~~3.010~~	~~3.010~~					~~3.010~~			
~~114~~	~~SHAWN C. ROBASSE~~	~~130~~	~~20~~	~~648~~	~~717~~	~~3.260~~		~~3.260~~				~~3.260~~				
~~115~~	~~SAMUEL L. ALDRIDGE AND WIFE, PAULA R. ALDRDGE~~	~~130~~	~~45~~	~~1331~~	~~386~~		~~3.080~~	~~3.080~~					~~3.080~~			
~~116~~	~~KULTAR S. SUMRA AND AMANJOT GILL~~	~~130~~	~~19~~	~~1161~~	~~93~~	~~2.370~~		~~2.370~~				~~2.370~~				
~~117~~	~~DALE LINCOLN HURD AND WIFE, DEBRA LYNN HURD~~	~~130~~	~~18~~	~~504~~	~~812~~	~~7.820~~		~~7.820~~				~~7.820~~				
14A	KIRK JOHNSON AND WIFE, SHEILA JOHNSON	122	112.01	1555	711	4.020		4.020	3054 S.F.		3054 S.F.	3.950				
2A	JOHN SAMUEL CHILDS AND WIFE, ALICE D. CHILDS	130	46	358	835		7.500	7.500		2756 S.F.	2756 S.F.		7.437			

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DISTURBED AREA	
IN BETWEEN SLOPE LINES	134.407 (AC)
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	22.062 (AC)
TOTAL DISTURBED AREA	156.469 (AC)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	46
CONST.	2017	STP-65(10)	48

N

UNNAMED TRIBUTARY
TO BEDNIGO BRANCH
(STR-5)

DRAINAGE DATA FOR PIPE
STATION 439+58.56
DIRECTION OF FLOW RIGHT
DRAINAGE AREA 770.4 ACRES FLAT, (ROLLING) HILLY, MTNS.
PRESENT STRUCTURE: 8'X7' R.C.S.B.
EXISTING STRUCTURE CONDITION:
REMARKS: 50-YR:772 C.F.S., 100-YR:895 C.F.S.

DRAINAGE DATA FOR PIPE
STATION 425+33.37
DIRECTION OF FLOW RIGHT
DRAINAGE AREA 35.82 ACRES FLAT, (ROLLING) HILLY, MTNS.
PRESENT STRUCTURE: 42" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.41

WWC-5/EPH-5
RND-1

STR-3

42" PIPE

OLD US 431

WWC-4/EPH-4

S.R.65

24" PIPE

8'x 7' R.C.S.B.

S.R.65

SPG-1

STR-4

STR-3

WWC-2/EPH-2

WWC-1/EPH-1

STR-2

DRAINAGE DATA FOR PIPE
STATION 411+34.80
DIRECTION OF FLOW RIGHT
DRAINAGE AREA 5.77 ACRES FLAT, (ROLLING) HILLY, MTNS.
PRESENT STRUCTURE: 24" C.M.P.
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.39

SNK-1

CAV-1

WWC-3/EPH-3

UNNAMED TRIBUTARY
TO BEDNIGO BRANCH
(STR-1)

UNNAMED TRIBUTARY
TO BEDNIGO BRANCH
(STR-2)

UNNAMED TRIBUTARY
TO BEDNIGO BRANCH
(STR-5)

Match Line Sta 445+00 See Sht No. 47

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 400+00 TO STA. 445+00

SCALE: 1"=200'

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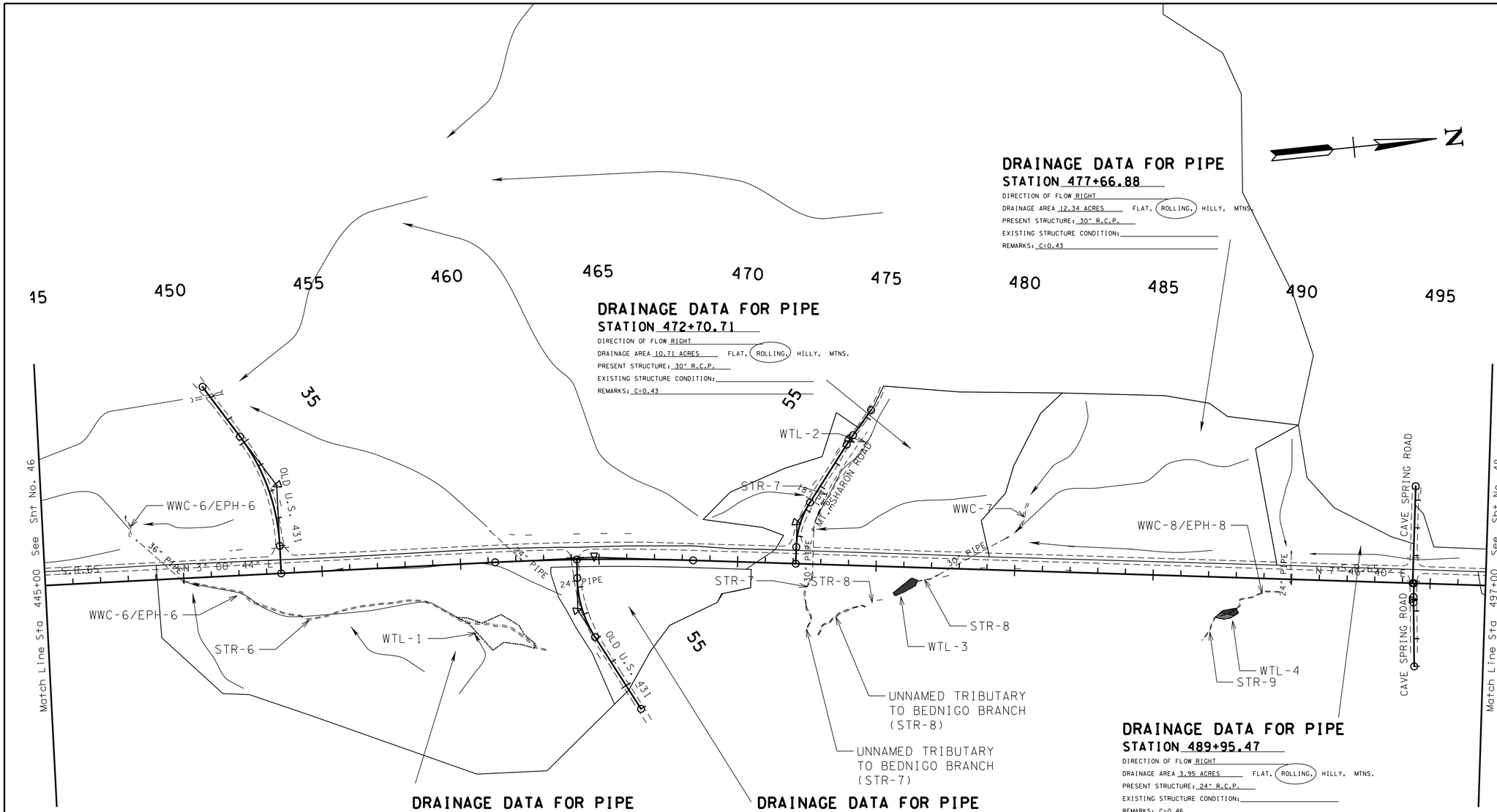
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	47
CONST.	2017	STP-65(10)	49



DRAINAGE DATA FOR PIPE
STATION 472+70.71

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 10.71 ACRES FLAT. (ROLLING.) HILLY. MTNS.
PRESENT STRUCTURE: 30" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.43

DRAINAGE DATA FOR PIPE
STATION 477+66.88

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 12.34 ACRES FLAT. (ROLLING.) HILLY. MTNS.
PRESENT STRUCTURE: 30" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.43

DRAINAGE DATA FOR PIPE
STATION 449+86.24

DIRECTION OF FLOW LEFT
DRAINAGE AREA 17.84 ACRES FLAT. (ROLLING.) HILLY. MTNS.
PRESENT STRUCTURE: 36" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.39

DRAINAGE DATA FOR PIPE
STATION 462+24.91

DIRECTION OF FLOW LEFT
DRAINAGE AREA 3.91 ACRES FLAT. (ROLLING.) HILLY. MTNS.
PRESENT STRUCTURE: 24" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.49

DRAINAGE DATA FOR PIPE
STATION 489+95.47

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 3.95 ACRES FLAT. (ROLLING.) HILLY. MTNS.
PRESENT STRUCTURE: 24" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS: C=0.46

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 445+00 TO STA. 497+00
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	48
CONST.	2017	STP-65(10)	50

N

500 505 510 515 520 525 530 535 540 545

Match Line Sta 497+00 See Sht No. 47

Match Line Sta 549+00 See Sht No. 49

CHELSEA DRIVE

MT. ZION ROAD (S.R. 257)

BETTS ROAD (S.R. 257)

WWC-9/ EPH-9

WWC-9/EPH-9

WWC-10/EPH-10

WTL-5

WTL-6

WTL-7

END 2

N 20°46'40" E

N 51°58'48" W

48" PIPE

24" PIPE

15" PIPE

95

100

105

DRAINAGE DATA FOR PIPE
STATION 523+47.42

DIRECTION OF FLOW RIGHT

DRAINAGE AREA 0.86 ACRES FLAT, (ROLLING,) HILLY, MTNS.

PRESENT STRUCTURE: 24" R.C.P.

EXISTING STRUCTURE CONDITION:

REMARKS: C=0.49

DRAINAGE DATA FOR PIPE
STATION 503+96.85

DIRECTION OF FLOW LEFT

DRAINAGE AREA 19.22 ACRES FLAT, (ROLLING,) HILLY, MTNS.

PRESENT STRUCTURE: 42" R.C.P.

EXISTING STRUCTURE CONDITION:

REMARKS: C=0.41

DRAINAGE DATA FOR PIPE
STATION 510+96.25

DIRECTION OF FLOW LEFT

DRAINAGE AREA 35.98 ACRES FLAT, (ROLLING,) HILLY, MTNS.

PRESENT STRUCTURE: 48" R.C.P.

EXISTING STRUCTURE CONDITION:

REMARKS: C=0.41

DRAINAGE DATA FOR PIPE
STATION 102+13.63(S.R.257)

DIRECTION OF FLOW LEFT

DRAINAGE AREA 3.06 ACRES FLAT, (ROLLING,) HILLY, MTNS.

PRESENT STRUCTURE: 15" R.C.P.

EXISTING STRUCTURE CONDITION:

REMARKS: C=0.47

DRAINAGE DATA FOR PIPE
STATION 544+62.74

DIRECTION OF FLOW LEFT

DRAINAGE AREA 31.61 ACRES FLAT, (ROLLING,) HILLY, MTNS.

PRESENT STRUCTURE: 24" R.C.P.

EXISTING STRUCTURE CONDITION:

REMARKS: C=0.45

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STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 497+00 TO STA. 549+00

SCALE: 1"=200'

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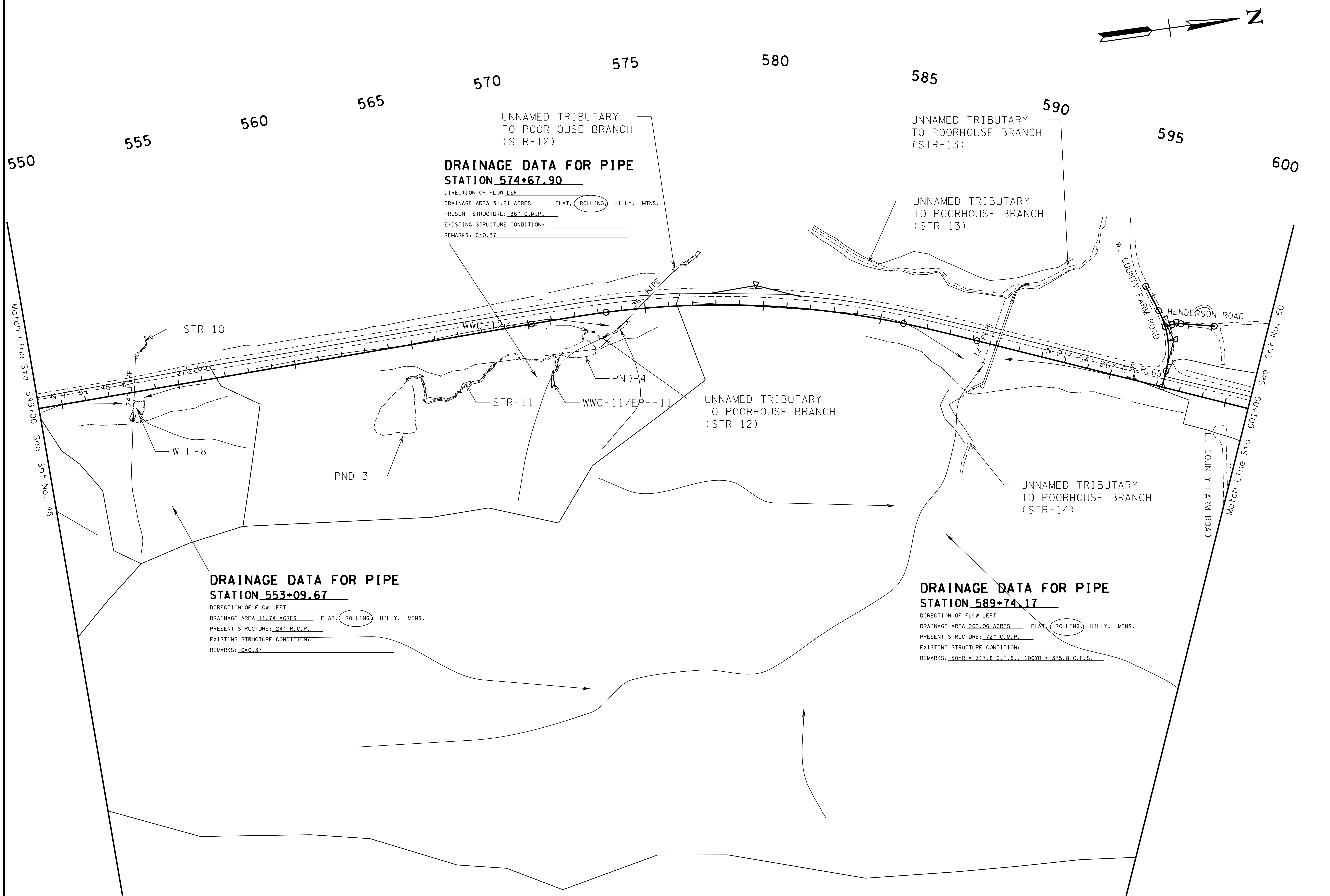
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	49
CONST.	2017	STP-65(10)	51



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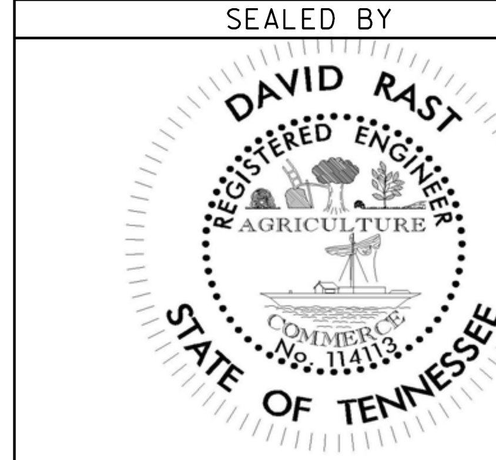

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 549+00 TO STA. 601+00

SCALE: 1"=200'

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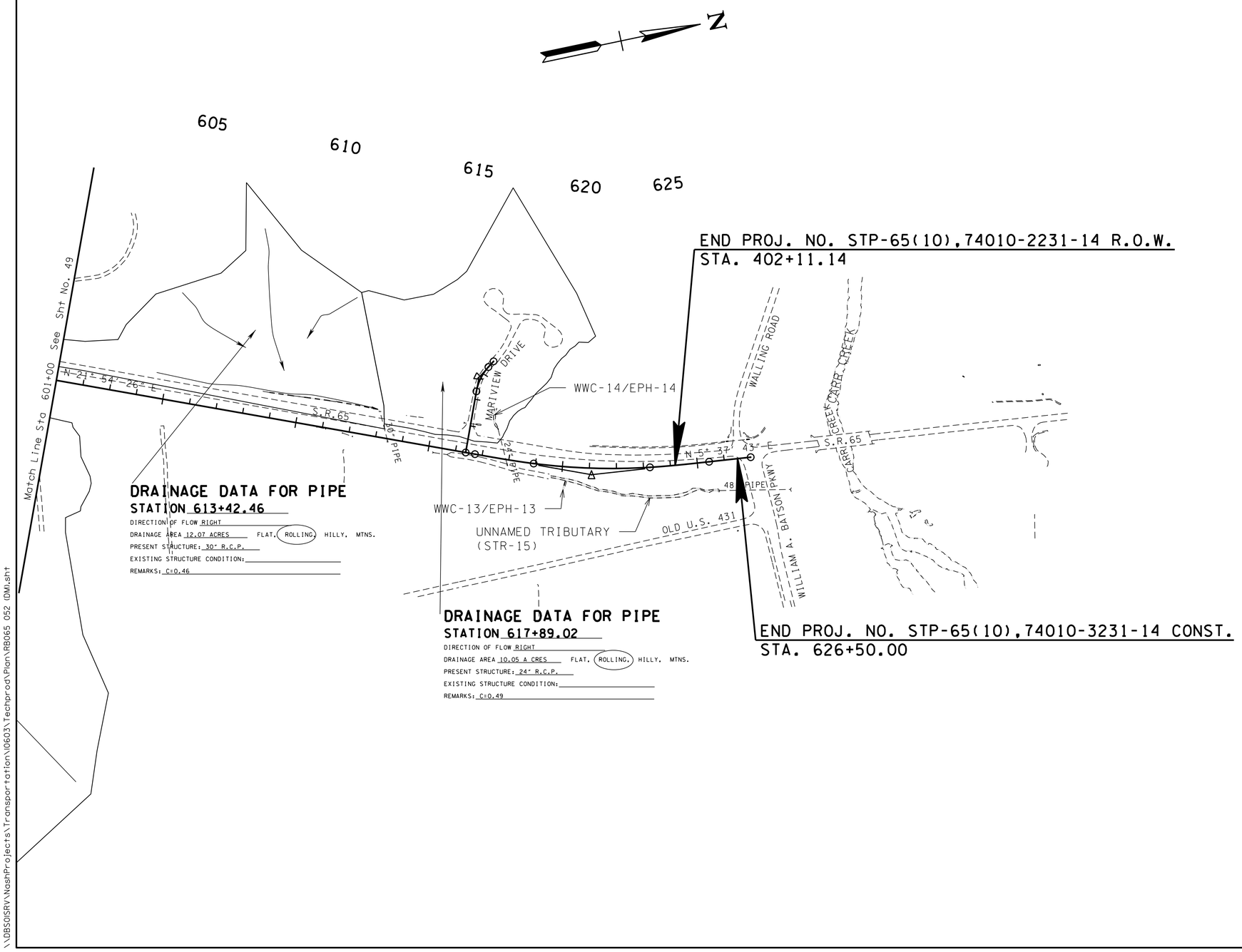
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	50
CONST.	2017	STP-65(10)	52



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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

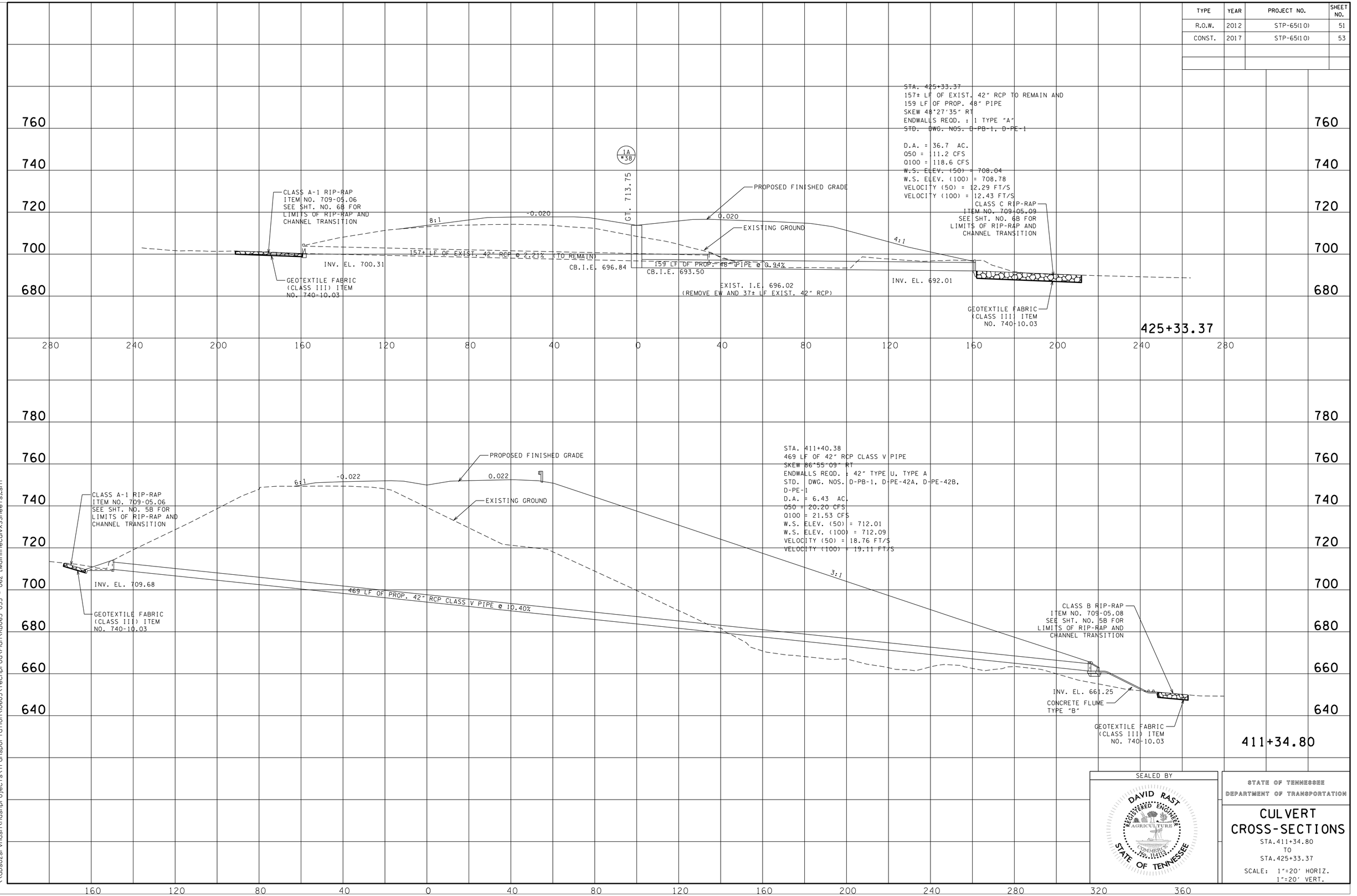
DRAINAGE MAP

STA. 601+00 TO STA. 626+81

SCALE: 1"=200'

6/5/2017 3:12:31 PM
\\DBSOISRV\NashProjects\Transportation\0603\Techprod\Plan\RB065 052 (DM).sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	51
CONST.	2017	STP-65(10)	53



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

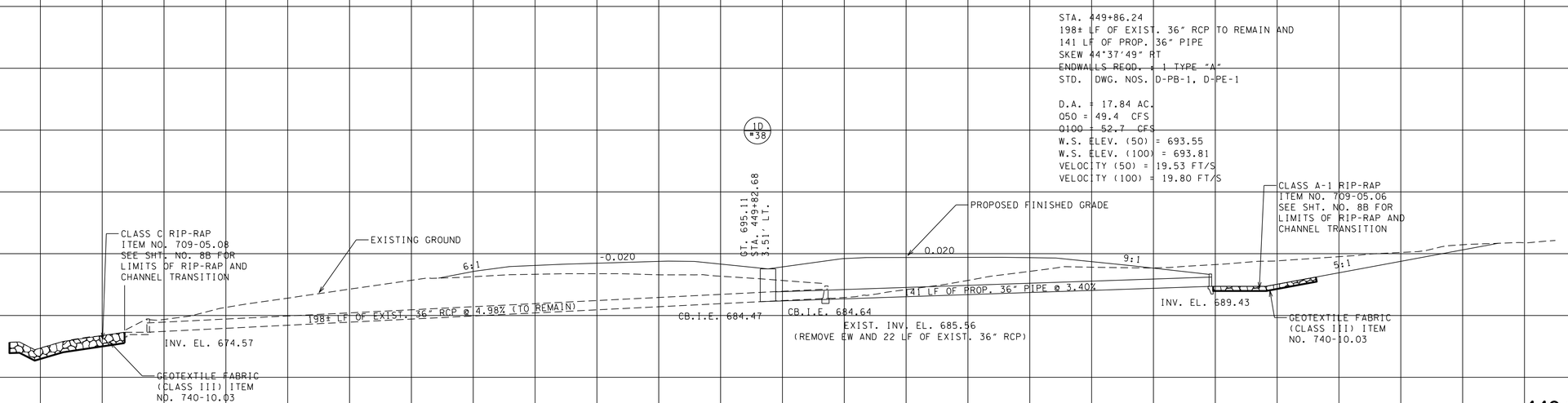
CULVERT CROSS-SECTIONS

STA.411+34.80
TO
STA.425+33.37

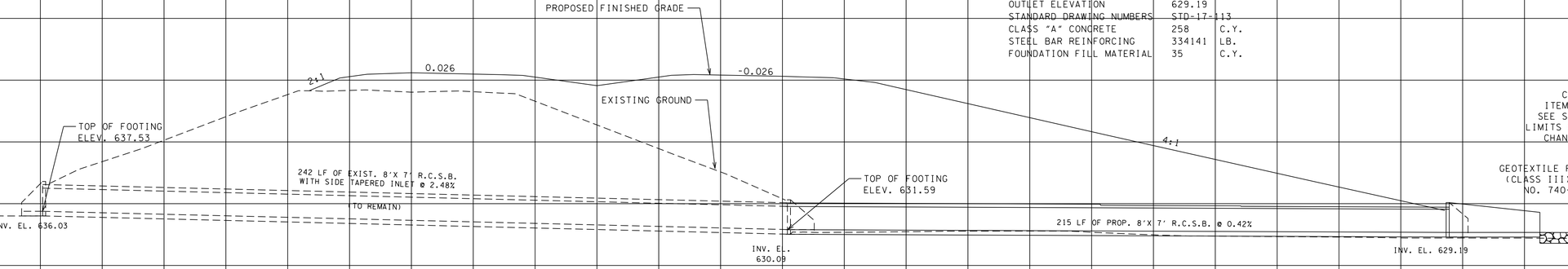
SCALE: 1"=20' HORIZ.
1"=20' VERT.

6/3/2017 10:34:18 PM
\\dbs02srvnash\nashprojects\transportation\10603\Techprod\Plan\RB065 053 - 062 [MainlineCulvXSSheets1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	52
CONST.	2017	STP-65(10)	54



STATION	439+58.56
STRUCTURE	215 LF OF PROPOSED 8'X7' R.C.S.B. AND
242± LF OF EXISTING 8'X7'	R.C.S.C. WITH SIDE TAPERED INLET
SKEW	45°52'15" LT
DRAINAGE AREA	1.2 MI²
DESIGN DISCHARGE (Q100)	974.7 CFS
Q100 YEAR BACKWATER	9.89 FT. AT EL. 649.94
VELOCITY (Q100)	17.4 FPS
Q500 YEAR DISCHARGE	1350 CFS AT EL. 661.73
INLET ELEVATION	636.03
OUTLET ELEVATION	629.19
STANDARD DRAWING NUMBERS	STD-17-113
CLASS "A" CONCRETE	258 C.Y.
STEEL BAR REINFORCING	334141 LB.
FOUNDATION FILL MATERIAL	35 C.Y.



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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.439+58.56
TO
STA.449+86.24

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

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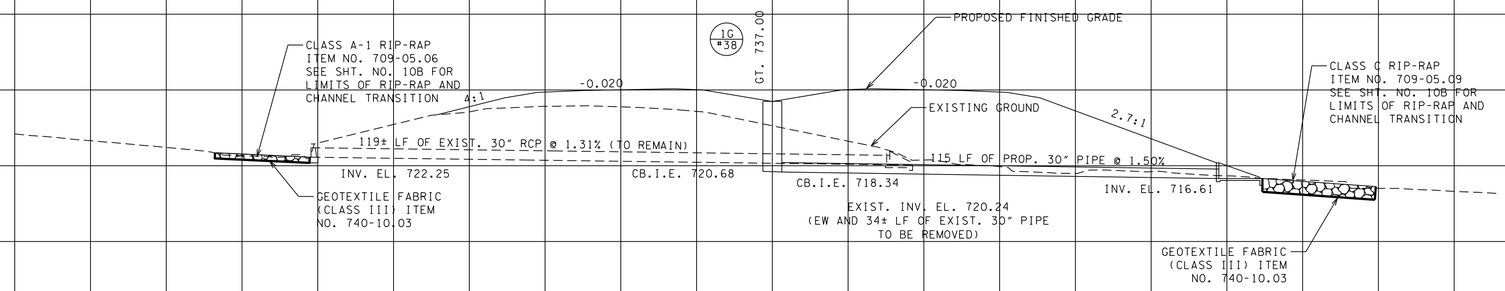
\\dbs02srvnashvnashprojects\transportation\0603\Techprod\Plan\RB065 053 - 062 [MainlineCulvXSSheets1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	53
CONST.	2017	STP-65(10)	55

STA. 472+71.44
119± LF OF EXIST. 30" RCP TO REMAIN AND
115 LF OF PROP. 30" PIPE
SKEW 78°45'01" LT
ENDWALLS REQD. : 1 36" TYPE U
STD. DWG. NOS. D-PB-1, D-PE-36 (A)(B)

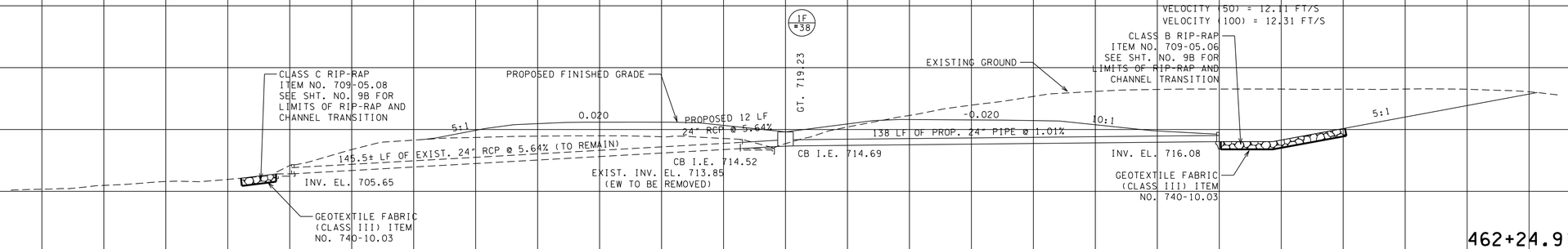
D.A. = 15.08 AC.
Q50 = 47.9 CFS
Q100 = 51.1 CFS
W.S. ELEV. (50) = 727.69
W.S. ELEV. (100) = 728.21
VELOCITY (50) = 14.16 FT/S
VELOCITY (100) = 14.32 FT/S



472+71.44

STA. 462+24.91
145.5± LF OF EXIST. 24" RCP TO REMAIN AND
150 LF OF PROP. 24" PIPE
SKEW 44°45'52" RT
ENDWALLS REQD. : 1 TYPE STRAIGHT
STD. DWG. NOS. D-PB-1, D-PE-4

D.A. = 3.91 AC.
Q50 = 14.2 CFS
Q100 = 15.1 CFS
W.S. ELEV. (50) = 718.24
W.S. ELEV. (100) = 718.35
VELOCITY (50) = 12.11 FT/S
VELOCITY (100) = 12.31 FT/S



462+24.91

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

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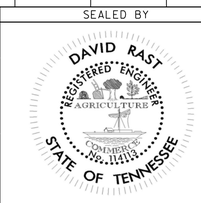

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.462+24.91
TO
STA.472+71.44

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

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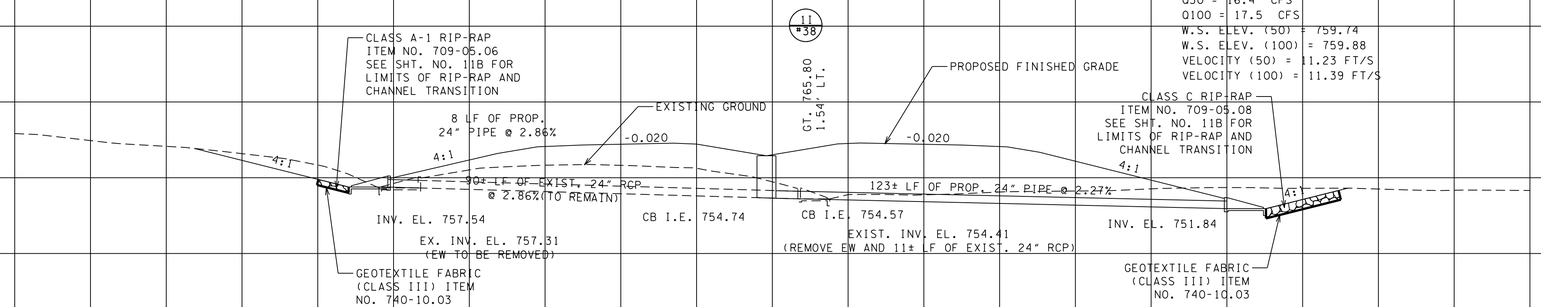
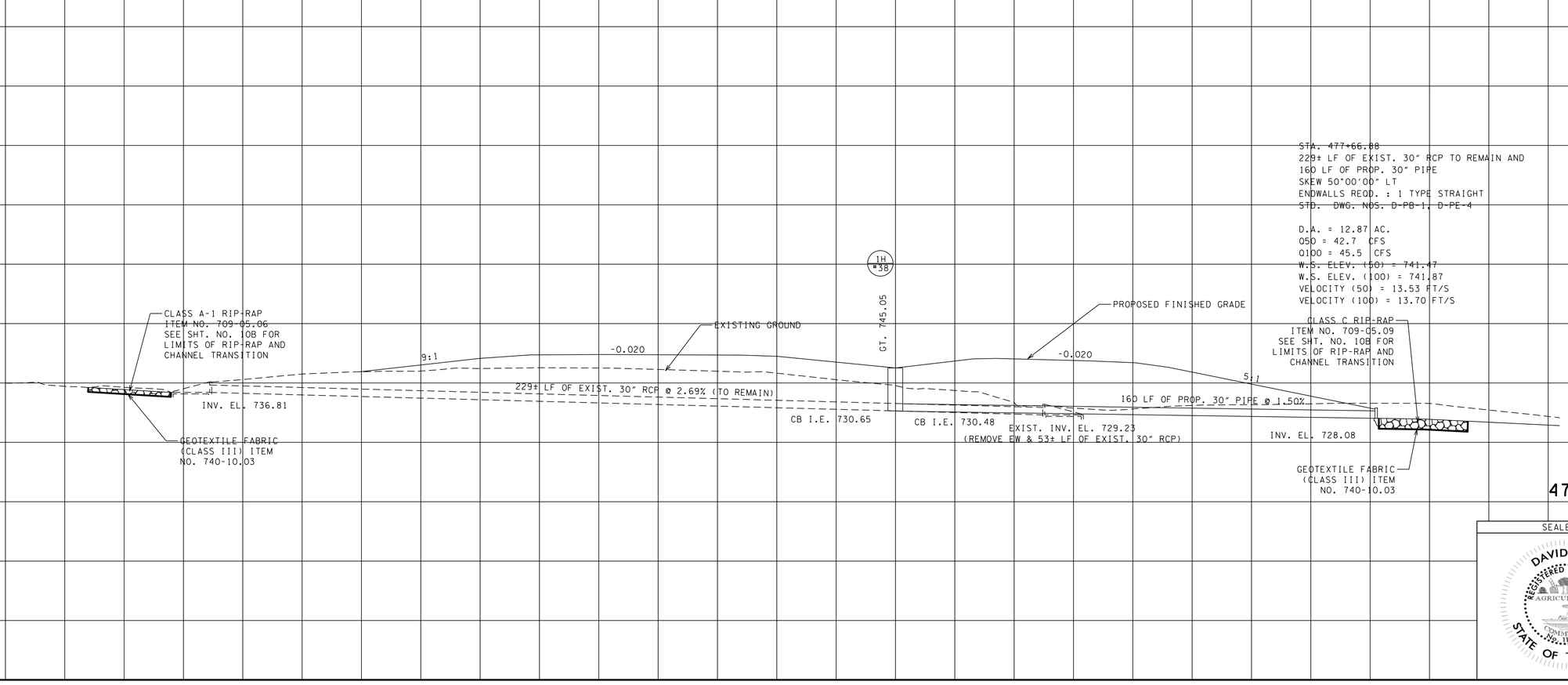
\\dbs02srvnash\nashprojects\transportation\10603\Techprod\Plan\RB065 053 - 062 [MainlineCulvXSSheets1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	54
CONST.	2017	STP-65(10)	56





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DEPARTMENT OF TRANSPORTATION

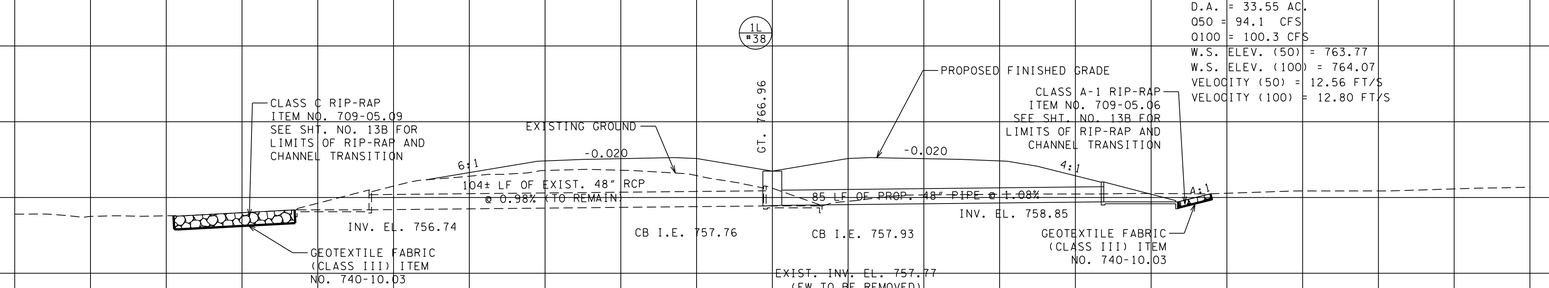
CULVERT CROSS-SECTIONS

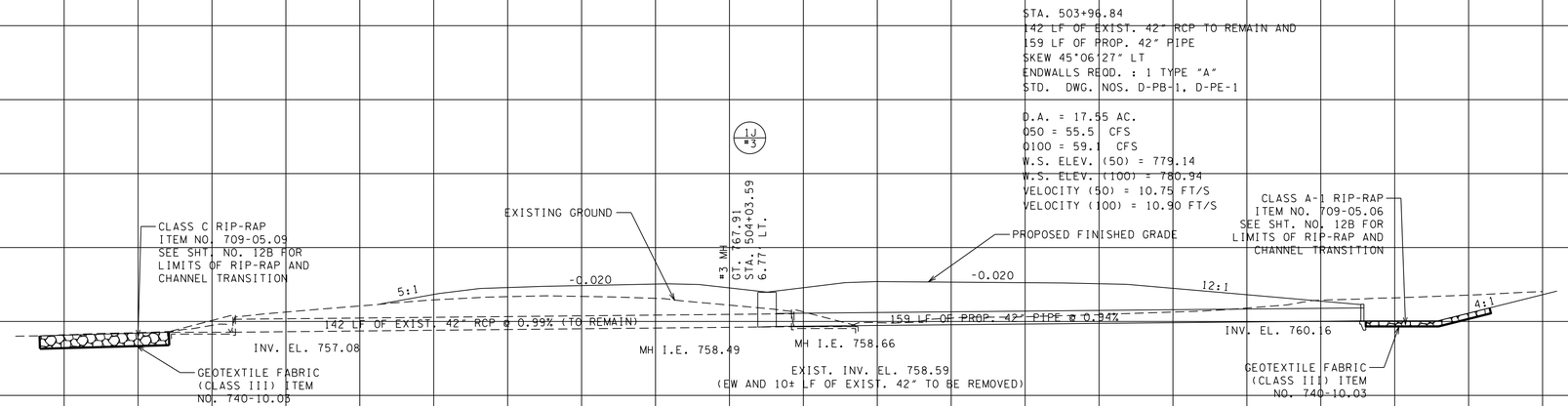
STA.477+66.88
TO
STA.489+95.47

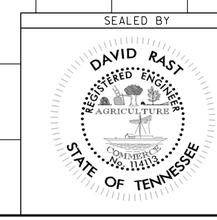
SCALE: 1"=20' HORIZ.
1"=20' VERT.

6/3/2017 10:34:25 PM
\\dbs02srvnash\nashprojects\transportation\0603\Techprod\Plan\RB065 053 - 062 [MainlineCulvXSSheets1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	55
CONST.	2017	STP-65(10)	57







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CULVERT CROSS-SECTIONS

STA.503+96.84
TO
STA.510+96.25

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

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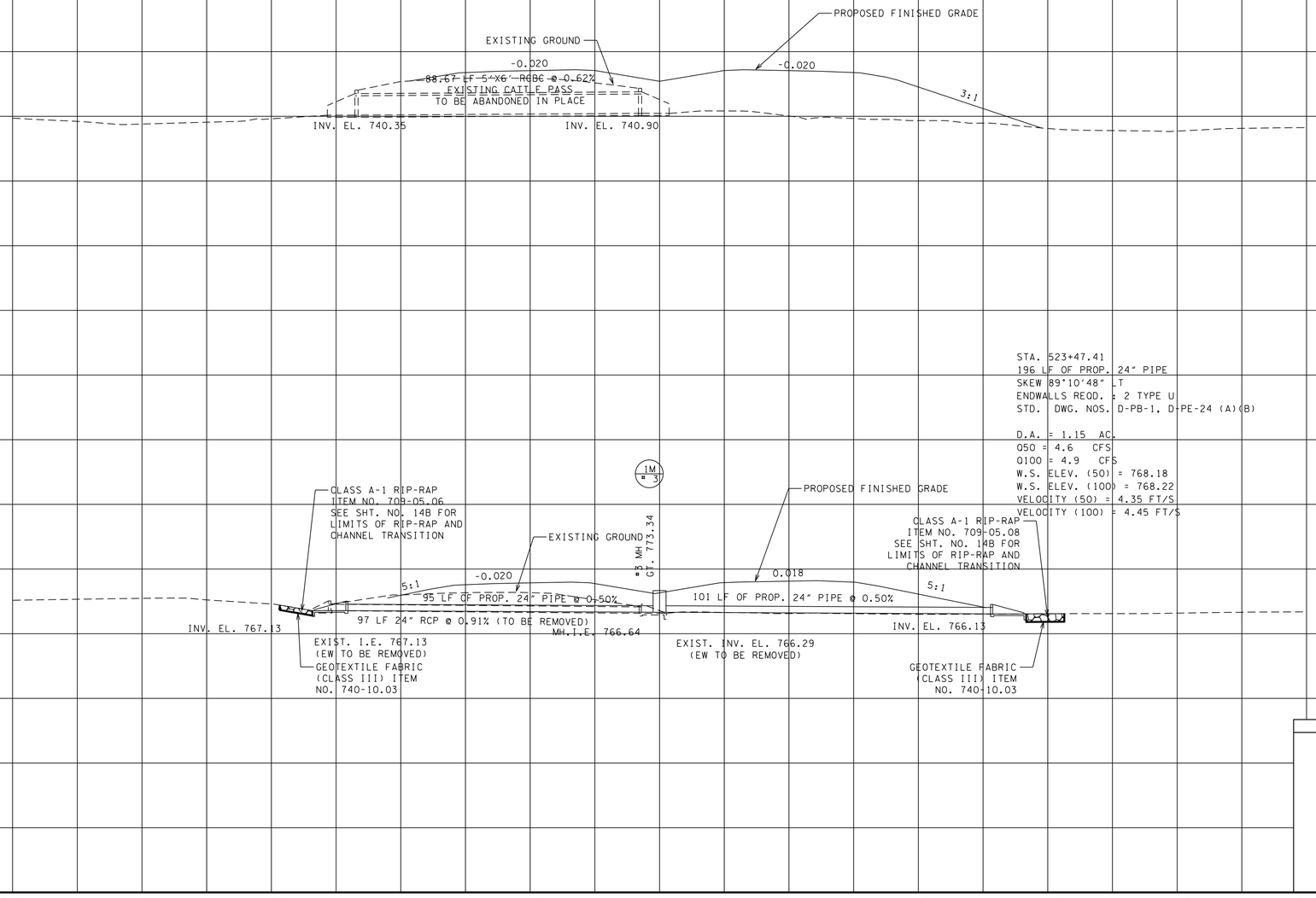
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	56
CONST.	2017	STP-65(10)	58



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CULVERT CROSS-SECTIONS

STA.523+47.41
TO
STA.543+44.79

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

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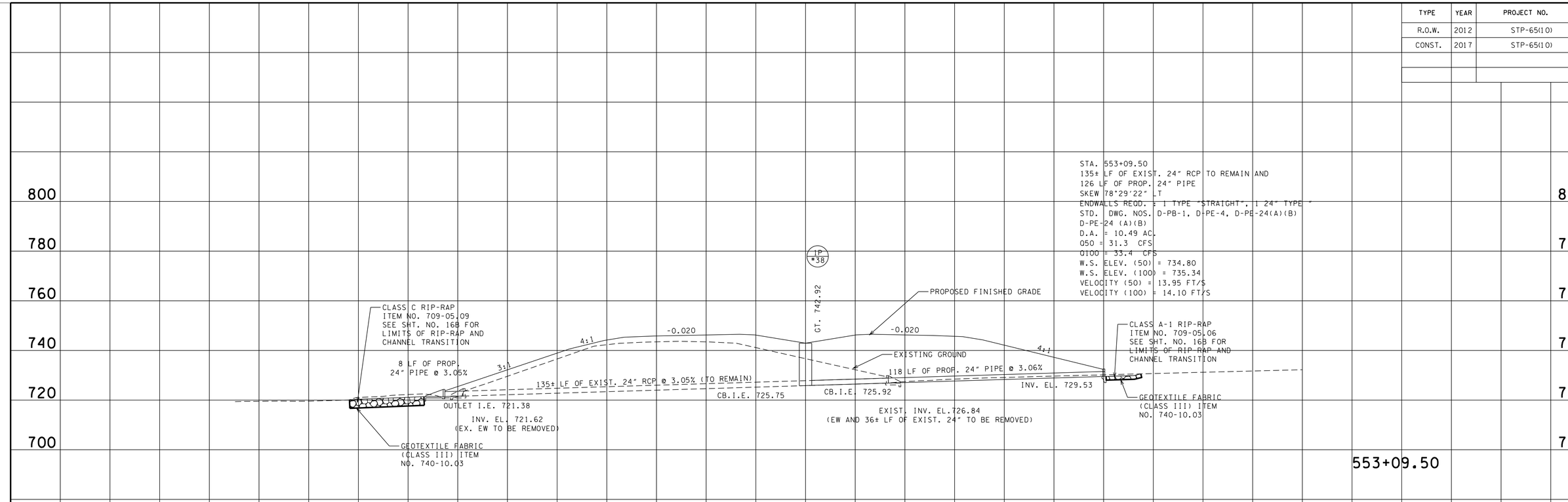
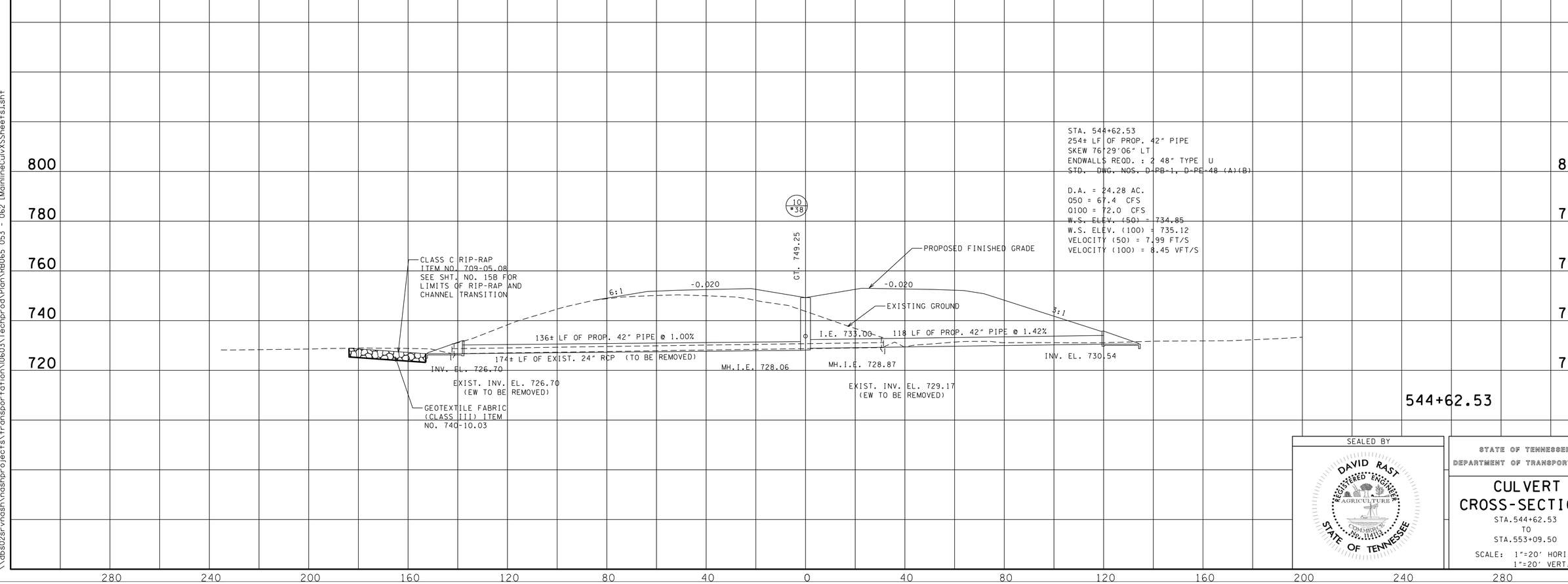
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	57
CONST.	2017	STP-65(10)	59





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CULVERT CROSS-SECTIONS

STA.544+62.53
TO
STA.553+09.50

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

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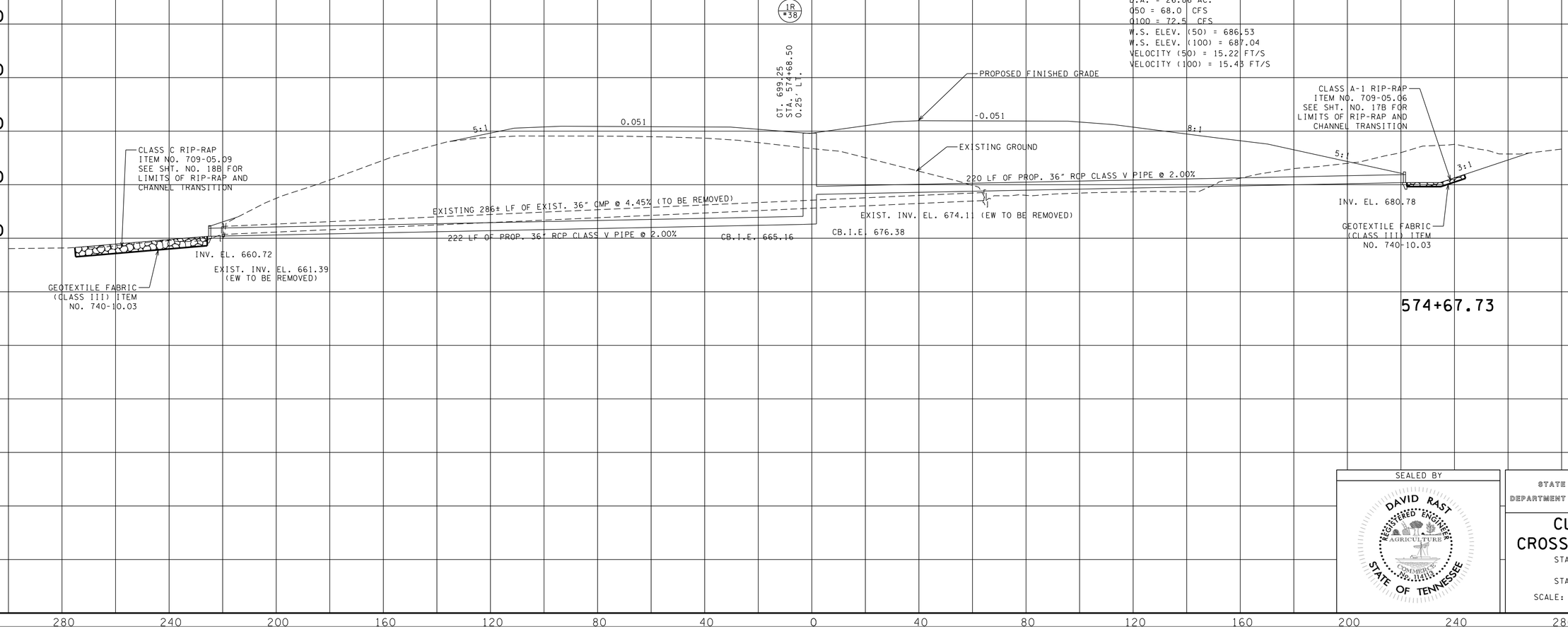
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	58
CONST.	2017	STP-65(10)	60

STA. 574+67.73
442 LF OF PROP. 36" CLASS V PIPE
SKEW 40°59'09" LT
ENDWALLS REQD. : 2 TYPE "A"
STD. DWG. NOS. D-PB-1, D-PE-1

D.A. = 26.86 AC.
Q50 = 68.0 CFS
Q100 = 72.5 CFS
W.S. ELEV. (50) = 686.53
W.S. ELEV. (100) = 687.04
VELOCITY (50) = 15.22 FT/S
VELOCITY (100) = 15.43 FT/S



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CULVERT CROSS-SECTIONS

STA.574+67.73
TO
STA.574+67.73

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

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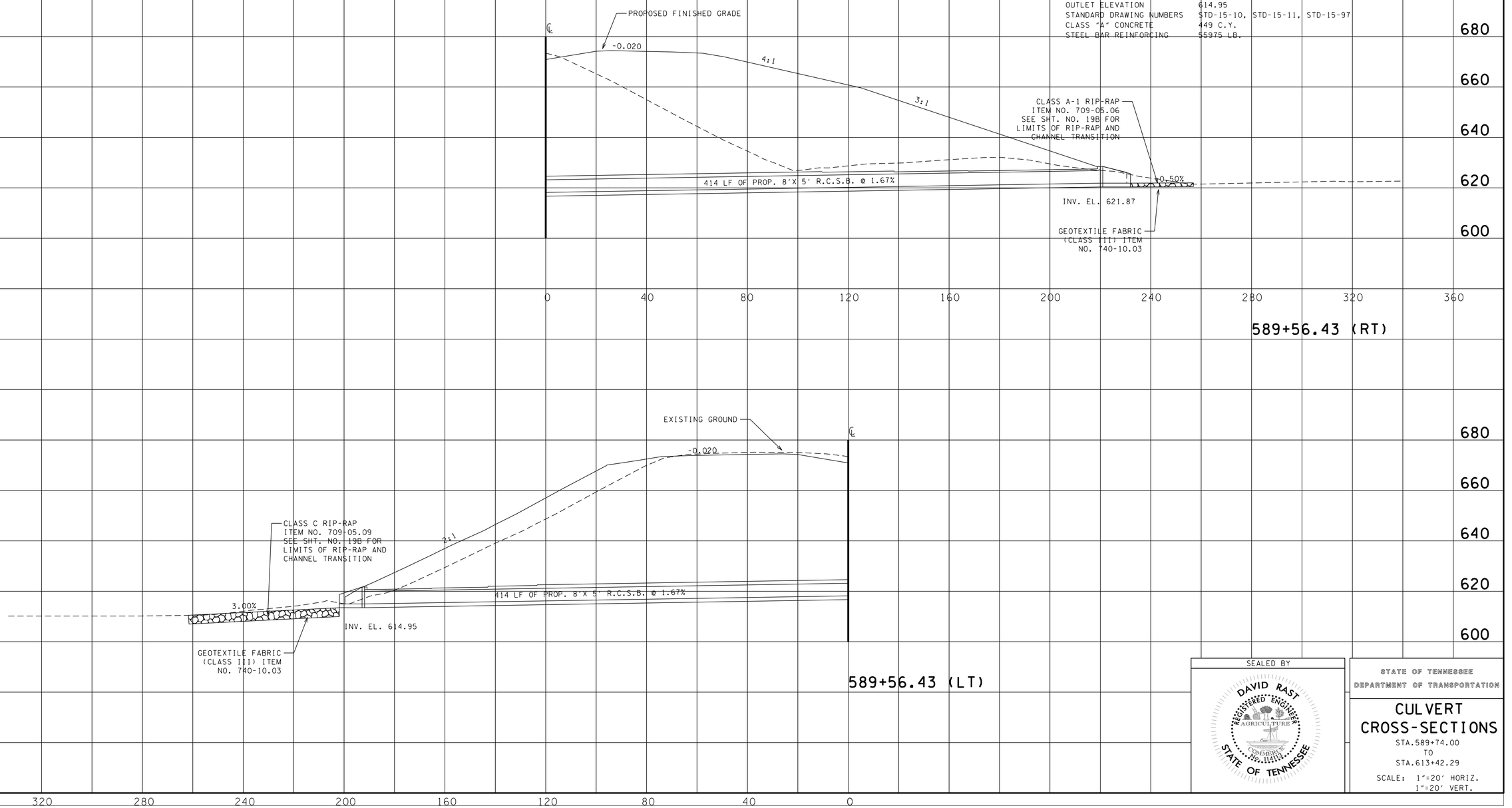
\\dbs02srvnash\nashprojects\transportation\0603\Techprod\Plan\RB065 053 - 062 [MainlineCulvXSSheets1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	59
CONST.	2017	STP-65(10)	61

STATION	590+05.00
STRUCTURE	412 LF OF PROP. 8'X 5' R.C.S.B.
SKEW	85°00'00" LT
DRAINAGE AREA	199.9 AC.
DESIGN DISCHARGE (Q50)	320.0 CFS
DESIGN DISCHARGE (Q100)	375.1 CFS
OVERTOPPING ELEV.	675.00
ALLOWABLE HEADWATER ELEV.	635.00
Q50 HEADWATER ELEV.	627.75
Q100 HEADWATER ELEV.	628.65
VELOCITY (Q50)	19.6 FT/S
VELOCITY (Q100)	20.5 FT/S
INLET ELEVATION	621.87
OUTLET ELEVATION	614.95
STANDARD DRAWING NUMBERS	STD-15-10, STD-15-11, STD-15-97
CLASS "A" CONCRETE	449 C.Y.
STEEL BAR REINFORCING	55975 LB.



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CULVERT CROSS-SECTIONS

STA.589+74.00
TO
STA.613+42.29

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

6/3/2017 10:34:35 PM
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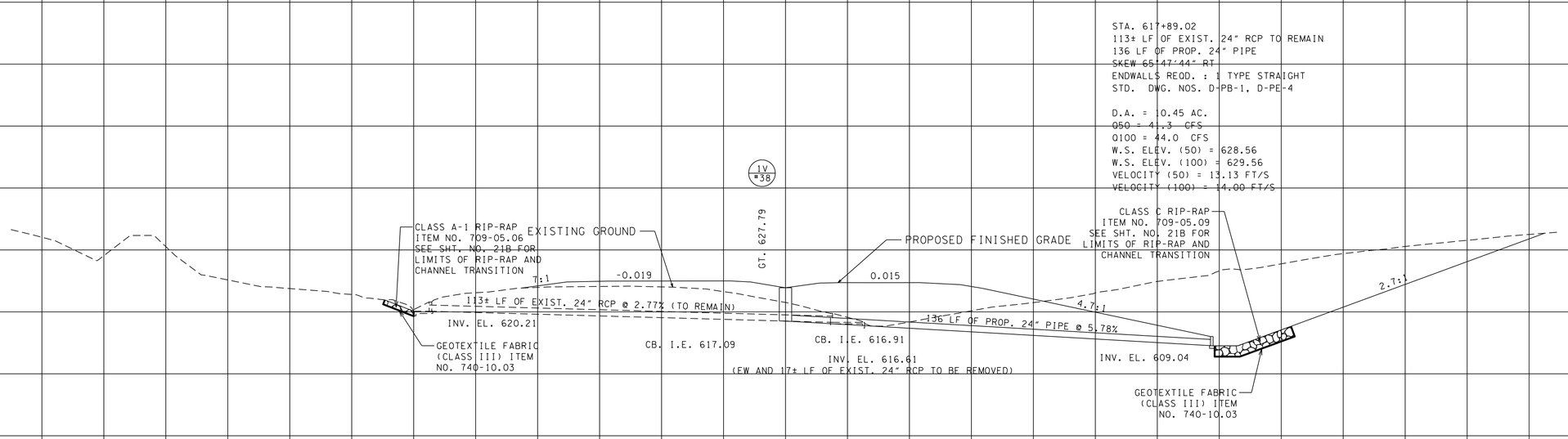
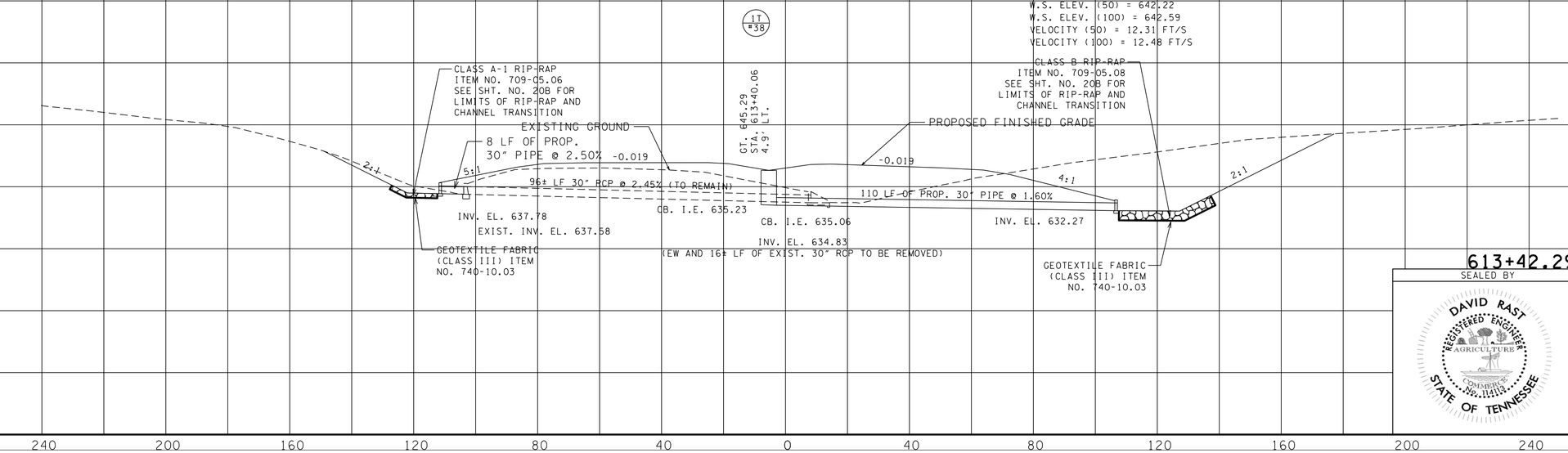
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	60
CONST.	2017	STP-65(10)	62



617+89.02



613+42.29

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

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

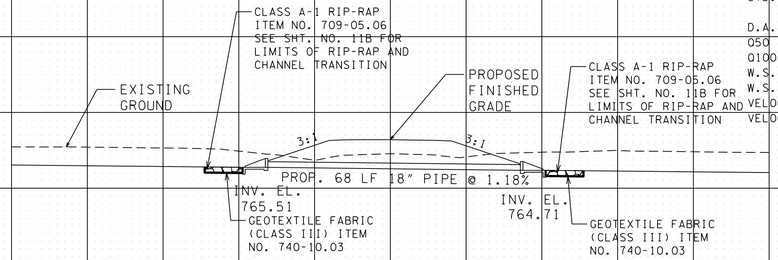
STA.617+89.02
TO
STA.617+89.02

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

6/3/2017 10:34:38 PM
\\dbs02srvnash\nashprojects\transportation\0603\Techprod\Plan\RB065 053 - 062 [MainlineCulvXSSheets1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	61
CONST.	2017	STP-65(10)	63

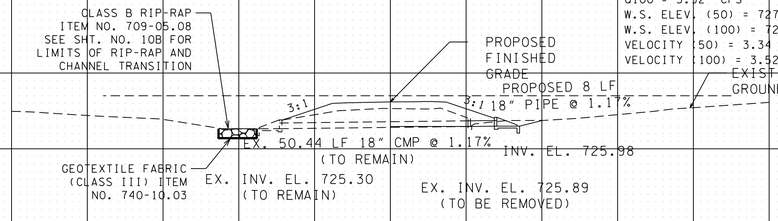
REV. 12-15-15: REVISED CULVERT CROSS SECTION AT STA.57+59.57 MT. SHARON ROAD.



STA. 68+92.00
PROPOSED 68 LF OF 18" PIPE
SKEW 90°00'00"
ENDWALLS REQD. : 2- TYPE "U"
STD. DWG. NOS. D-PB-1, D-PE-18(A), D-PE-18(B)

D.A. = 1.09 AC.
Q50 = 5.3 CFS
Q100 = 5.7 CFS
W.S. ELEV. (50) = 766.86
W.S. ELEV. (100) = 766.93
VELOCITY (50) = 3.59 FT/S
VELOCITY (100) = 3.80 FT/S

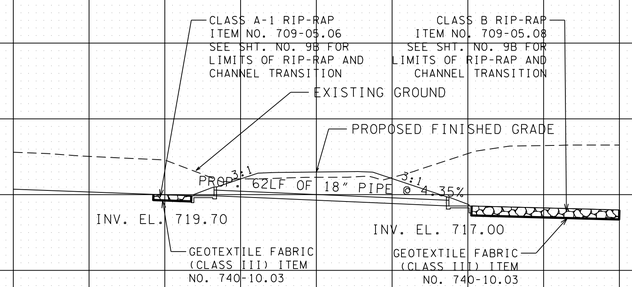
68+92.00 (CAVE SPRINGS RD. W.)



STA. 57+59.57 MT. SHARON RD.
PROPOSED 8 LF OF 18" PIPE
SKEW 90°00'00"
ENDWALLS REQD. : 1- TYPE "U"
STD. DWG. NOS. D-PB-1, D-PE-18(A), D-PE-18(B)

D.A. = 1.34 AC.
Q50 = 5.53 CFS
Q100 = 5.92 CFS
W.S. ELEV. (50) = 727.37
W.S. ELEV. (100) = 727.43
VELOCITY (50) = 3.34 FT/S
VELOCITY (100) = 3.52 FT/S

57+59.57 (MT. SHARON RD.)



STA. 51+01.64
PROPOSED 62 LF OF 18" PIPE
SKEW 90°00'00" RT
ENDWALLS REQD. : 2- TYPE "U"
STD. DWG. NOS. D-PB-1, D-PE-18(A)(B)

D.A. = 3.22 AC.
Q50 = 13.3 CFS
Q100 = 14.2 CFS
W.S. ELEV. (50) = 722.95
W.S. ELEV. (100) = 723.27
VELOCITY (50) = 12.99 FT/S
VELOCITY (100) = 13.20 FT/S

51+01.64 (OLD U.S. 431 N)

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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.411+34.80
TO
STA.425+33.37

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

6/3/2017 10:34:43 PM
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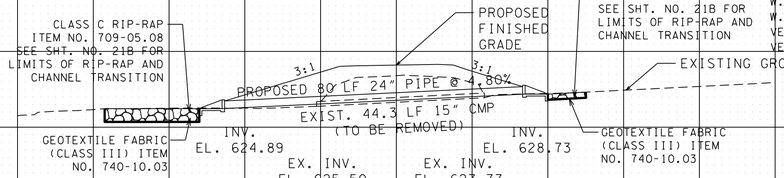
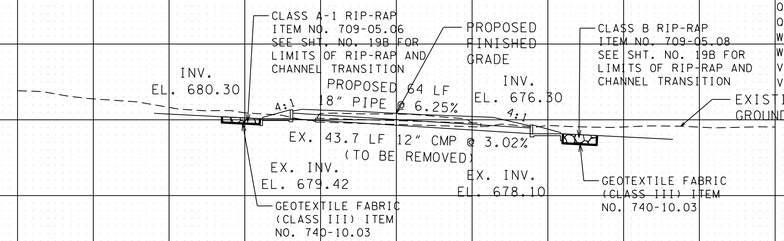
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	62
CONST.	2017	STP-65(10)	64



STA. 128+92.00 MARIVIEW DR.
PROPOSED 80 LF OF 24" PIPE
SKEW 86°49'19"
ENDWALLS REQD. : 2- TYPE "U"
STD. DWG. NOS. D-PB-1, D-PE-24(A)(B)

D.A. = 5.83 AC.
Q50 = 23.39 CFS
Q100 = 25.01 CFS
W.S. ELEV. (50) = 632.25
W.S. ELEV. (100) = 632.57
VELOCITY (50) = 15.56 FT/S
VELOCITY (100) = 15.81 FT/S

128+92.00 (MARIVIEW DR.)



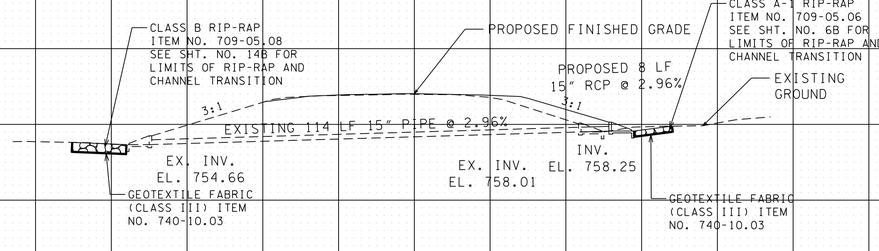
STA. 119+80.00 HENDERSON RD.
PROPOSED 64 LF OF 18" PIPE
SKEW 90°00'00"
ENDWALLS REQD. : 2- TYPE "U"
STD. DWG. NOS. D-PB-1, D-PE-18(A), D-PE-18(B)

D.A. = 0.72 AC.
Q50 = 3.00 CFS
Q100 = 3.20 CFS
W.S. ELEV. (50) = 681.07
W.S. ELEV. (100) = 681.09
VELOCITY (50) = 5.54 FT/S
VELOCITY (100) = 5.88 FT/S

119+80.00 (HENDERSON RD.)

STA. 102+12.58 S.R. 257
EXISTING 114 LF OF 15" RCP, PROPOSED 8 LF OF 15" PIPE
SKEW 89°49'26" RT.
ENDWALLS REQD. : 1- TYPE "U"
STD. DWG. NOS. D-PB-1, D-PE-15(A), D-PE-15(B)

D.A. = 2.55 AC.
Q50 = 12.68 CFS
Q100 = 13.52 CFS
W.S. ELEV. (50) = 763.19
W.S. ELEV. (100) = 763.81
VELOCITY (50) = 10.39 FT/S
VELOCITY (100) = 11.06 FT/S



102+12.58 (S.R. 257)

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CERTIFICATE NO. 114113
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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.439+58.56
TO
STA.449+86.24

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	63
CONST.	2017	STP-65(10)	65

EPSC NOTES

STREAMS, WETLANDS & BUFFER ZONES

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

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

UTILITY RELOCATION

(1) STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

(2) SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.

(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.

(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 MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFFSITE 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 OFFSITE AND ENTERING WATERS OF THE STATE/U.S.

(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 SEVEN 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 SUCH TIME AS THE TRENCH IS BACKFILLED.

(6) IN REGARD 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) 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 RESPONSIBLE PARTY.

(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.

(9) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.

(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 RESPONSIBLE PARTY BEFORE COMMENCING WORK.

TEMPORARY WETLAND IMPACT AREAS

(1) TOPSOIL IS TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCKPILED PRIOR TO CONSTRUCTION.

(2) UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATED MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.

(3) UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL TEMPORARY WETLAND IMPACT AREAS ARE TO BE RESTORED TO PRE-CONSTRUCTION CONTOURS AND THE STOCKPILED WETLAND TOPSOIL SPREAD TO RESTORE THESE AREAS TO PRE-CONSTRUCTION ELEVATION.

POLYACRYLAMIDE

(1) ENSURE POLYACRYLAMIDE (PAM) EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE AND MEET THE FOLLOWING REQUIREMENTS:

A. MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

B. HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE.

C. MIXTURE IS NON-COMBUSTIBLE.

D. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

(2) PAM SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

(3) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES 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. CATIONIC FORMS OF PAM ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. PAM EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY. THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR USE ON THIS PROJECT.

(4) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

(5) EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF THE TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.

(6) PAM POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER. MIXING PAM POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

(7) PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

(8) PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

ENVIRONMENTAL

(1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	64
CONST.	2017	STP-65(10)	66

(26) EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF A TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.

(27) PAM POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. MIXING PAM POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

(28) PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

(29) PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

TEMPORARY WETLAND IMPACT AREAS

(30) TOPSOIL IS TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCKPILED PRIOR TO CONSTRUCTION.

(31) UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATED MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.

(32) UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL TEMPORARY WETLAND IMPACT AREAS ARE TO BE RESTORED TO PRE-CONSTRUCTION CONTOURS AND THE STOCKPILED WETLAND TOPSOIL SPREAD TO RESTORE THESE AREAS TO PRE-CONSTRUCTION ELEVATION.

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	64A
CONST.	2017	STP-65(10)	67

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	511541
209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	742
209-03.20	FILTER SOCK (8 INCH)	L.F.	4301
209-03.22	FILTER SOCK (18 INCH)	L.F.	910
209-05	SEDIMENT REMOVAL	C.Y.	8299
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	3064
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	16624
209-08.04	TEMPORARY ENHANCED SILT FENCE	L.F.	515
209-08.07	ROCK CHECK DAM PER	EACH	627
209-08.08	ENHANCED ROCK CHECK DAM	EACH	169
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	5
209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	3164
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	1
209-40.43	CATCH BASIN FILTER ASSEMBLY(TYPE 3)	EACH	21
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	873
209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	156
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	108
621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	135
621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F.	104
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	2904
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	14304
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	25949
740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	2034
740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	27850
740-11.05	TEMPORARY SEDIMENT TUBE 24IN	L.F.	2109
801-01	SEEDING (WITH MULCH)	UNITS	4378
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNITS	8756
801-02	SEEDING (WITHOUT MULCH)	UNITS	7
801-02.15	FERTILIZER	TONS	131
801-03	WATER (SEEDING & SODDING)	M.G.	1313
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	2257

EPSC STAGE 1 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
1-1	1.7	18.7%
1-2	1.8	15.8%
1-3	4.0	4.5%
1-4	0.7	5.7%
1-5	1.5	11.7%
1-6	2.9	5.7%
1-7	0.6	14.8%
1-8	4.2	6.2%
1-9	0.5	2.3%
1-10	3.2	2.8%
1-11	0.9	7.0%
1-12	3.6	2.1%
1-13	1.3	3.0%
1-14	1.2	2.0%
1-15	2.6	0.8%

EPSC STAGE 1 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
1-16	1.4	0.8%
1-17	1.4	1.5%
1-18	3.8	1.0%
1-19	1.0	1.5%
1-20	0.7	4.0%
1-21	3.2	3.8%
1-22	1.7	2.9%
1-23	1.6	3.3%
1-24	1.8	4.0%
1-25	7.9	3.9%
1-26	0.5	5.7%
1-27	7.5	4.9%
1-28	3.9	6.5%
1-29	3.6	5.0%

EPSC STAGE 2 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
2-1	0.2	2.8%
2-2	0.4	22.3%
2-3	0.7	5.6%
2-4	2	15.0%
2-5	1.7	21.6%
2-6	1.9	27.9%
2-7	3.8	3.8%
2-8	1.4	7.1%
2-9	4.4	4.5%
2-10	4.7	5.4%
2-11	0.5	3.2%
2-12	3.2	2.5%
2-13	0.8	2.1%
2-14	5.4	2.0%
2-15	0.9	8.9%
2-16	3.3	2.7%
2-17	0.8	10.6%
2-18	1.3	7.0%
2-19	1.2	3.2%

EPSC STAGE 2 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
2-20	0.3	6.0%
2-21	0.4	5.8%
2-22	2.6	1.6%
2-23	1.4	2.6%
2-24	1.4	3.7%
2-25	3.8	1.8%
2-26	1	3.6%
2-27	0.7	4.5%
2-28	0.4	2.3%
2-29	3.4	1.3%
2-30	3.2	3.5%
2-31	1.7	3.6%
2-32	1.6	4.3%
2-33	1.8	4.8%
2-34	7.9	4.2%
2-35	0.5	10.4%
2-36	7.5	4.7%
2-37	3.9	8.7%
2-38	39.2	3.7%

EPSC STAGE 3 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
3-1	0.3	4.1%
3-2	0.6	3.5%
3-3	1.0	1.7%
3-4	1.9	1.9%
3-5	1.0	33.0%
3-6	1.5	4.3%
3-7	1.5	32.6%
3-8	2.4	13.7%
3-9	3.8	4.0%
3-10	0.2	9.3%
3-11	1.9	2.2%
3-12	2.8	4.5%
3-13	0.8	11.5%
3-14	7.9	3.7%
3-15	2.9	7.4%
3-16.1	6.8	6.2%
3-16.2	1.8	2.3%
3-16.3	1.2	6.7%
3-17	0.6	2.9%
3-18	1.3	4.7%
3-19	0.3	2.6%
3-20	1.8	3.7%

EPSC STAGE 3 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
3-21	1.2	6.7%
3-22	2.0	3.0%
3-23	1.1	1.8%
3-24	5.4	4.7%
3-25	2.3	2.8%
3-26	0.6	18.9%
3-27	1.3	1.0%
3-28	0.6	1.5%
3-29	3.0	4.1%
3-30	0.7	5.4%
3-31	1.4	1.7%
3-32	3.6	3.2%
3-33	0.7	9.3%
3-34	4.7	8.1%
3-35	0.3	2.7%
3-36	0.4	2.4%
3-37	1.4	2.5%
3-38	1.0	5.9%
3-39	1.9	1.9%
3-40	1.1	7.6%
3-41	1.0	7.4%
3-42	1.5	0.8%

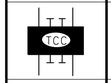
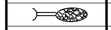
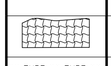
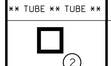
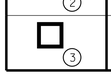
EPSC STAGE 3 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
3-43	3.0	1.7%
3-44	1.5	0.7%
3-45	0.8	2.4%
3-46	2.9	1.6%
3-47	2.5	5.1%
3-48	0.9	2.8%
3-49	0.5	3.1%
3-50	2.6	2.1%
3-51	2.7	1.2%
3-52	3.6	6.2%
3-53	0.9	10.6%
3-54	0.9	3.9%
3-55	2.3	4.6%
3-56	0.9	0.7%
3-57	1.5	4.1%
3-58	2.0	2.3%
3-59	2.9	9.4%
3-60	0.8	4.5%
3-61	4.9	5.0%
3-62	0.3	5.5%
3-63	1.9	3.2%
3-64	1.8	2.4%

EPSC STAGE 3 OUTFALL AREAS

OUTFALL	AREA (AC.)	AVG SLOPE
3-65	9.4	5.4%
3-66	4.4	8.9%
3-67	0.8	6.3%
3-68	0.5	7.5%
3-69	1.2	7.9%
3-70	49.4	6.2%

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	SEDIMENT FILTER BAG	EC-STR-2
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
* ESF * ESF * ESF *	ENHANCED SILT FENCE	EC-STR-3D
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	TEMPORARY CULVERT CROSSING (2-42",1-48")	EC-STR-25
	TEMPORARY BERM	EC-STR-27
	TEMPORARY SLOPE DRAIN	EC-STR-27
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
	EROSION CONTROL BLANKET	EC-STR-34
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43

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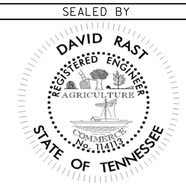

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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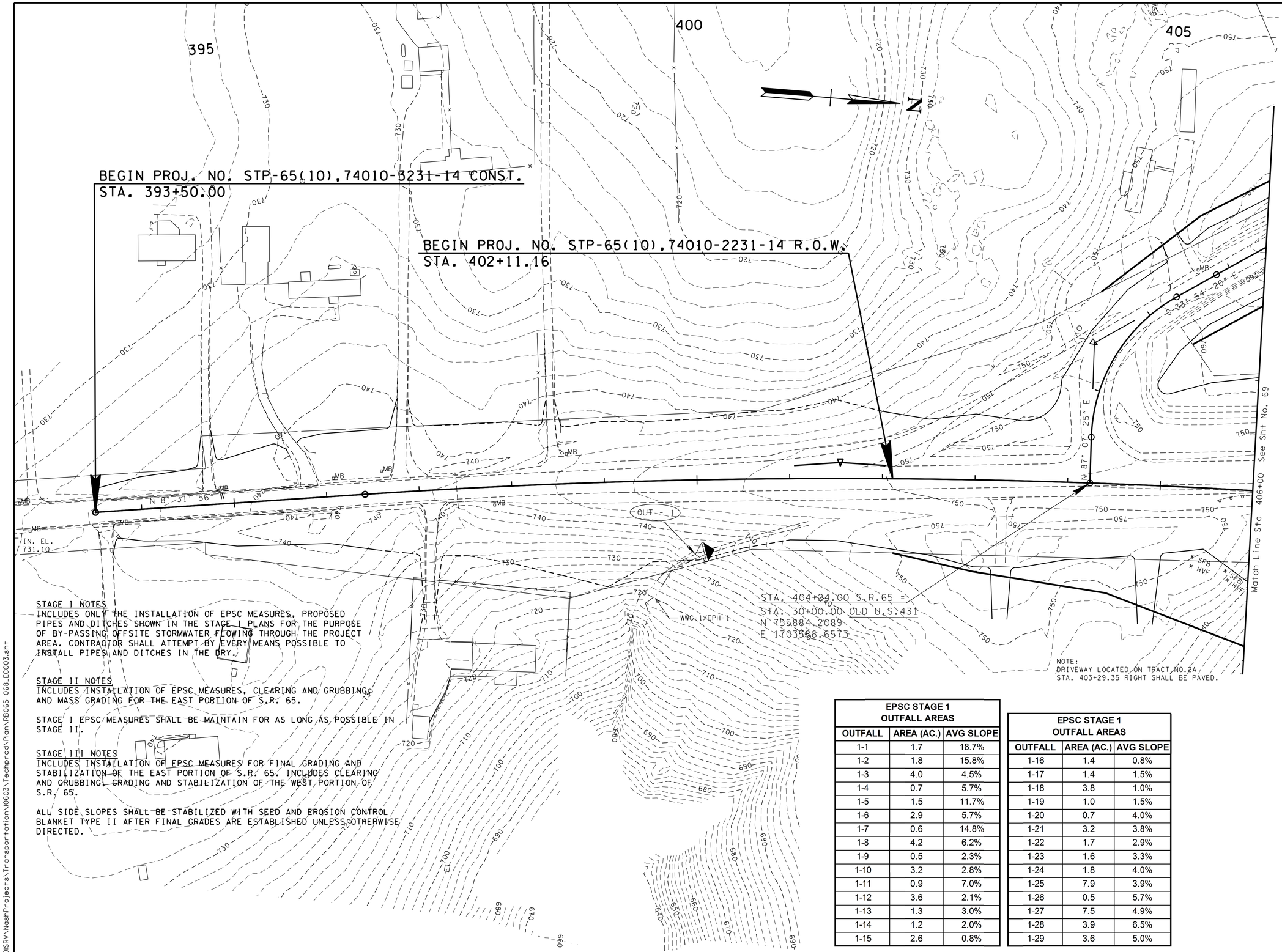
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	65
CONST.	2017	STP-65(10)	68



STAGE I NOTES
INCLUDES ONLY THE INSTALLATION OF EPSC MEASURES. PROPOSED PIPES AND DITCHES SHOWN IN THE STAGE I PLANS FOR THE PURPOSE OF BY-PASSING OFFSITE STORMWATER FLOWING THROUGH THE PROJECT AREA. CONTRACTOR SHALL ATTEMPT BY EVERY MEANS POSSIBLE TO INSTALL PIPES AND DITCHES IN THE DRY.

STAGE II NOTES
INCLUDES INSTALLATION OF EPSC MEASURES, CLEARING AND GRUBBING AND MASS GRADING FOR THE EAST PORTION OF S.R. 65.

STAGE I EPSC MEASURES SHALL BE MAINTAIN FOR AS LONG AS POSSIBLE IN STAGE II.

STAGE III NOTES
INCLUDES INSTALLATION OF EPSC MEASURES FOR FINAL GRADING AND STABILIZATION OF THE EAST PORTION OF S.R. 65. INCLUDES CLEARING AND GRUBBING, GRADING AND STABILIZATION OF THE WEST PORTION OF S.R. 65.

ALL SIDE SLOPES SHALL BE STABILIZED WITH SEED AND EROSION CONTROL BLANKET TYPE II AFTER FINAL GRADES ARE ESTABLISHED UNLESS OTHERWISE DIRECTED.

EPSC STAGE 1 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
1-1	1.7	18.7%
1-2	1.8	15.8%
1-3	4.0	4.5%
1-4	0.7	5.7%
1-5	1.5	11.7%
1-6	2.9	5.7%
1-7	0.6	14.8%
1-8	4.2	6.2%
1-9	0.5	2.3%
1-10	3.2	2.8%
1-11	0.9	7.0%
1-12	3.6	2.1%
1-13	1.3	3.0%
1-14	1.2	2.0%
1-15	2.6	0.8%

EPSC STAGE 1 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
1-16	1.4	0.8%
1-17	1.4	1.5%
1-18	3.8	1.0%
1-19	1.0	1.5%
1-20	0.7	4.0%
1-21	3.2	3.8%
1-22	1.7	2.9%
1-23	1.6	3.3%
1-24	1.8	4.0%
1-25	7.9	3.9%
1-26	0.5	5.7%
1-27	7.5	4.9%
1-28	3.9	6.5%
1-29	3.6	5.0%

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EPSC PLAN STAGE I

BEG. OF PROJ. TO STA. 406+00

SCALE: 1"= 50'

6/3/2017 10:4:54 PM
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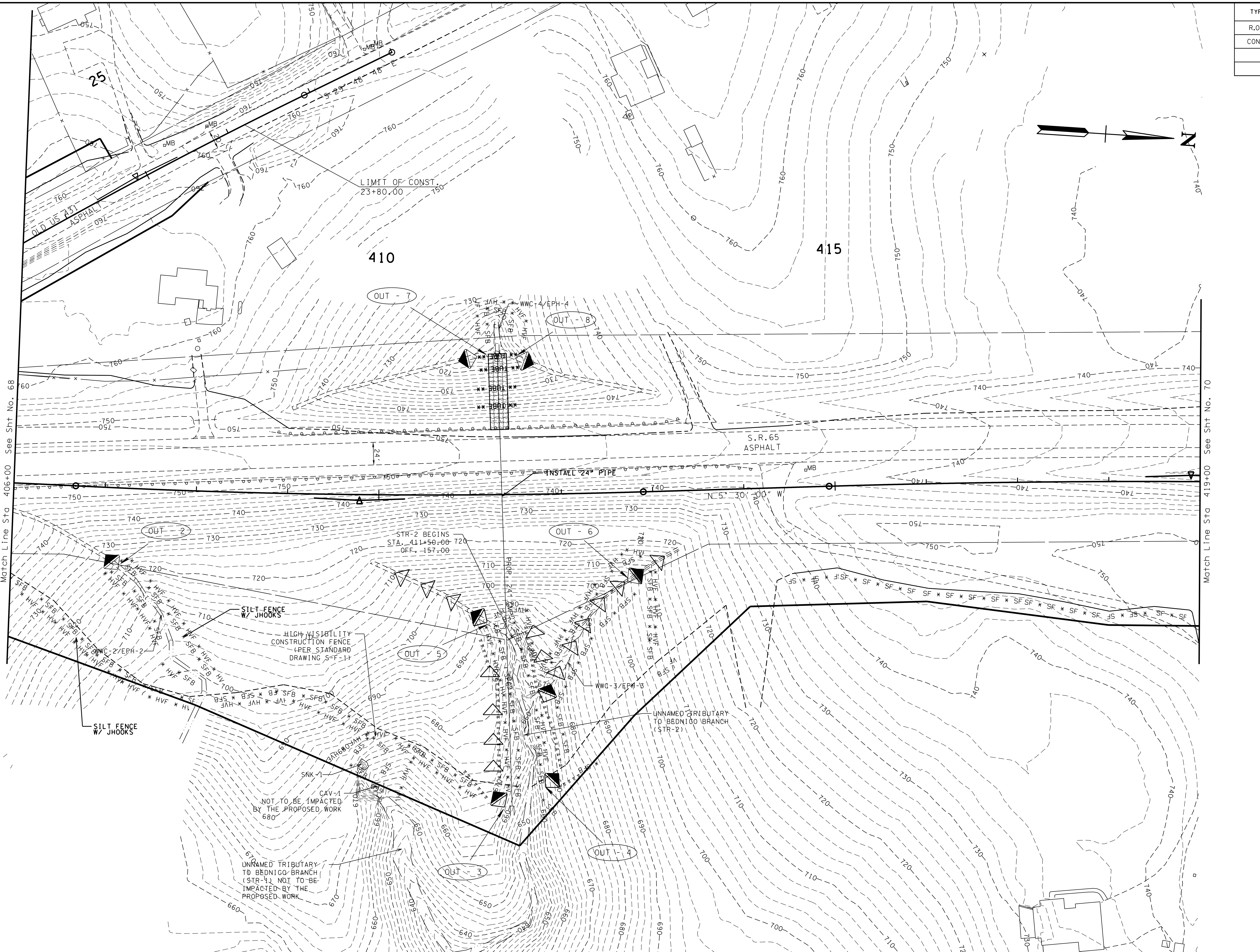
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	66
CONST.	2017	STP-65(10)	69



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EPSC PLAN
STAGE I

STA. 406+00 TO STA. 419+00

SCALE: 1"= 50'

6/3/2017 10:15:21 PM
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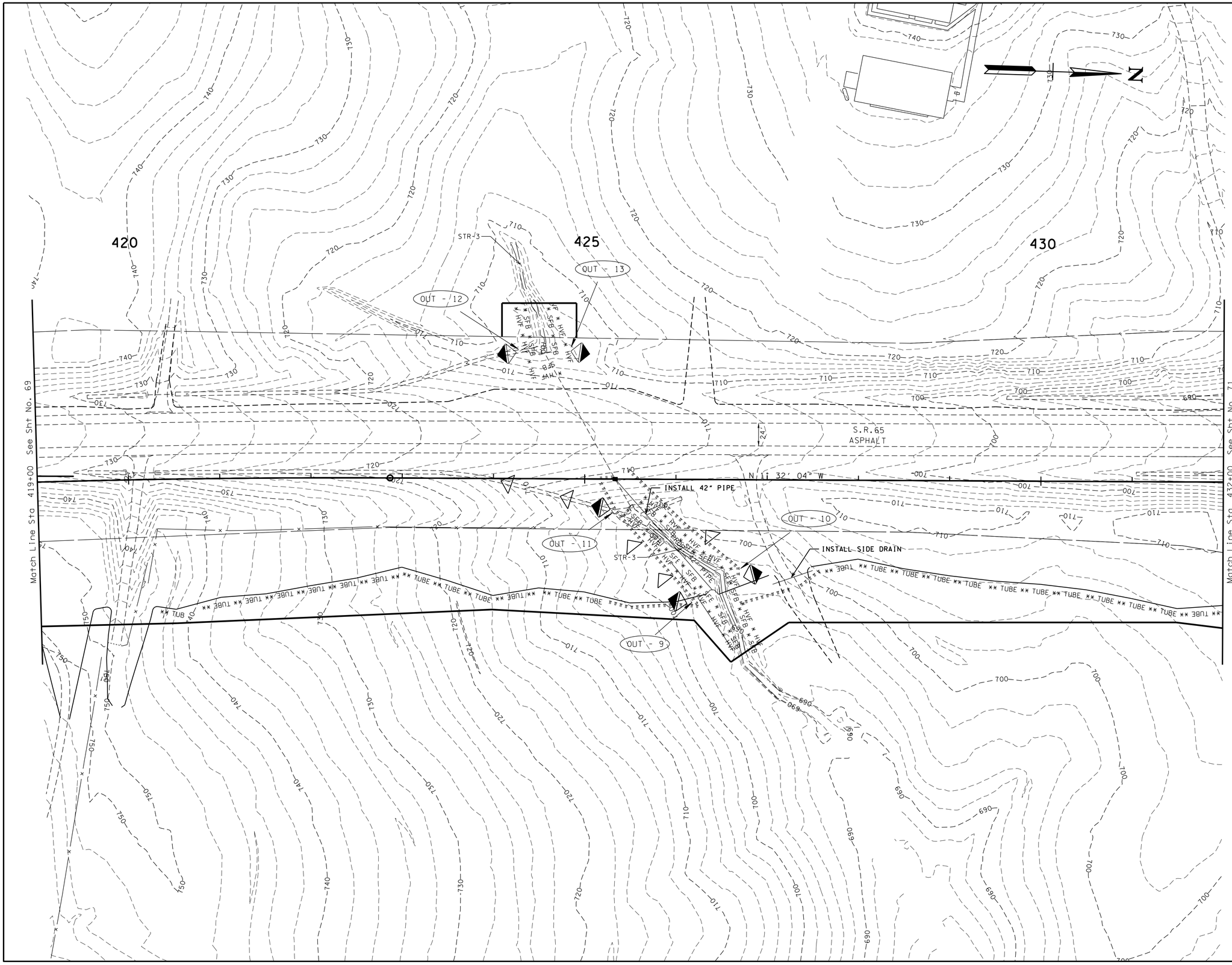
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	67
CONST.	2017	STP-65(10)	70



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EPSC PLAN STAGE I

STA. 419+00 TO STA. 432+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	68
CONST.	2017	STP-65(10)	71

N

435

440

445

BEDNIGO BRANCH (STR-5)

WWC-5/EPH-5

POND

POND 1 NOT TO BE IMPACTED BY THE PROPOSED WORK

OUT - 18

OUT - 19

OUT - 16

OUT - 17

OUT - 14

OUT - 15

EXISTING 242.0 LF OF 16'X 9' R.C.S.B. TO 8'X 9' R.C.S.B.

15'X15'

5'-T-DIV CHANNEL W/ 3:1 SLOPES (GEOTEXTILE AND RIP-RAP)

S.R.65 ASPHALT

24'

N 1° 32' 04" W

N 3° 00' 44" E

Match Line Sta 432+00 See Sht No. 70

Match Line Sta 445+00 See Sht No. 72

THE UNNAMED TRIBUTARY TO BEDNIGO BRANCH (STR-3) SHALL NOT BE DISTURBED OR IMPACTED UNTIL AFTER THE TEMPORARY DIVERSION CHANNEL IS CONSTRUCTED AND STABILIZED. A SUSPENDED PIPE DIVERSION SHALL BE USED TO TIE THE PROPOSED EXTENSION TO THE EXISTING BOX CULVERT.

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EPSC PLAN STAGE I

STA. 432+00 TO STA. 445+00

SCALE: 1"= 50'

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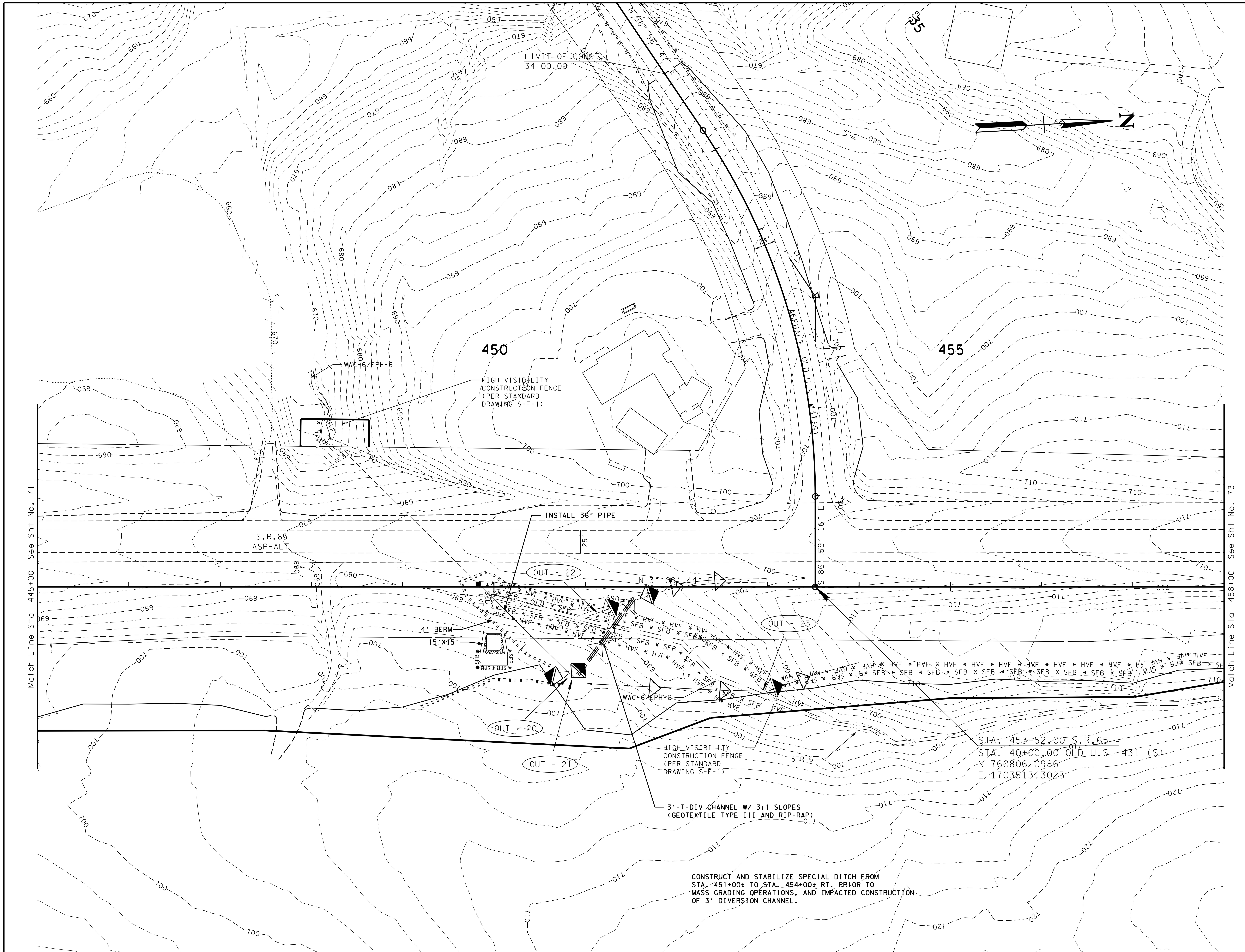
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	69
CONST.	2017	STP-65(10)	72



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EPSC PLAN STAGE I

STA. 445+00 TO STA. 458+00

SCALE: 1"= 50'

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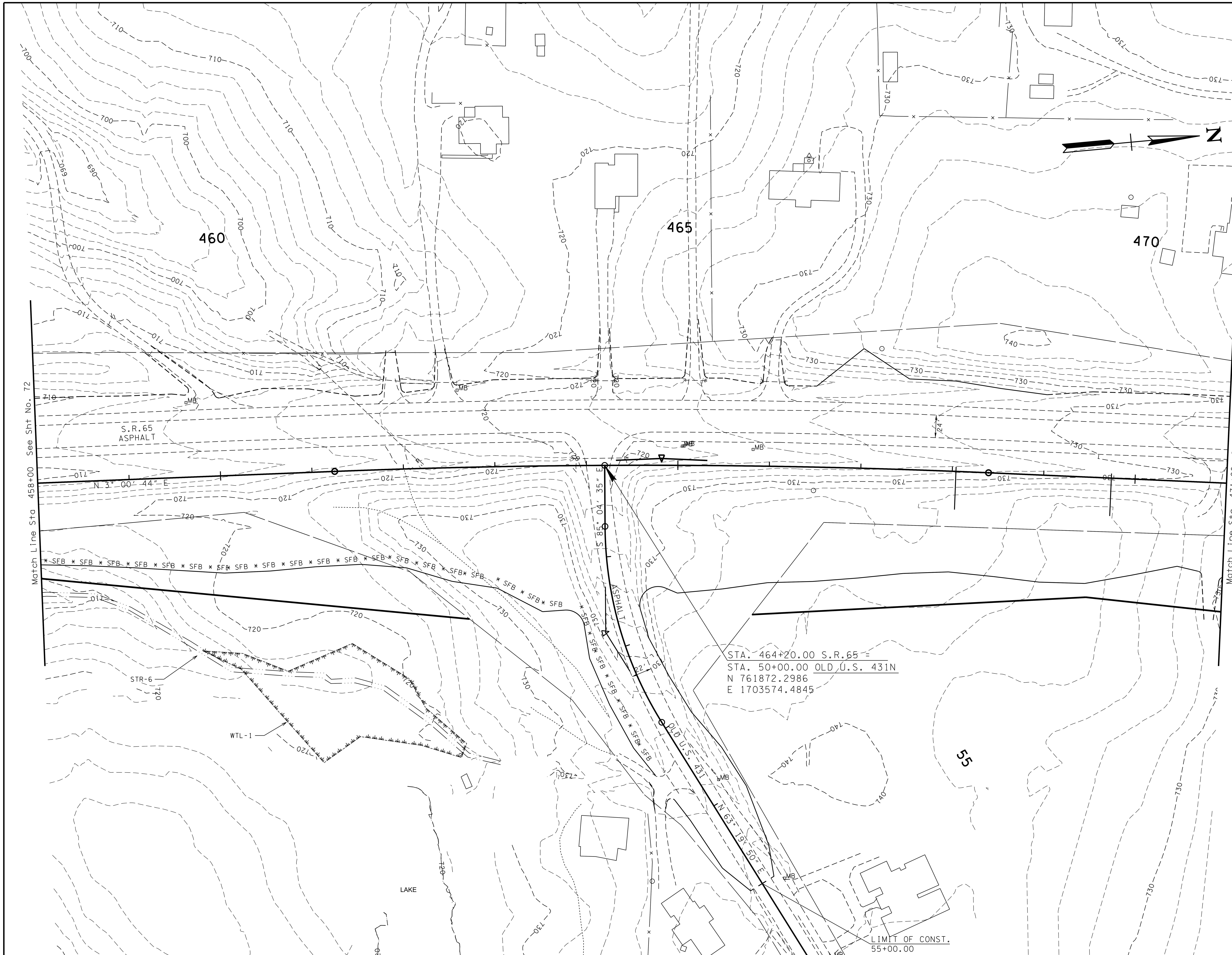
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	70
CONST.	2017	STP-65(10)	73



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EPSC PLAN STAGE I

STA. 458+00 TO STA. 471+00

SCALE: 1"= 50'

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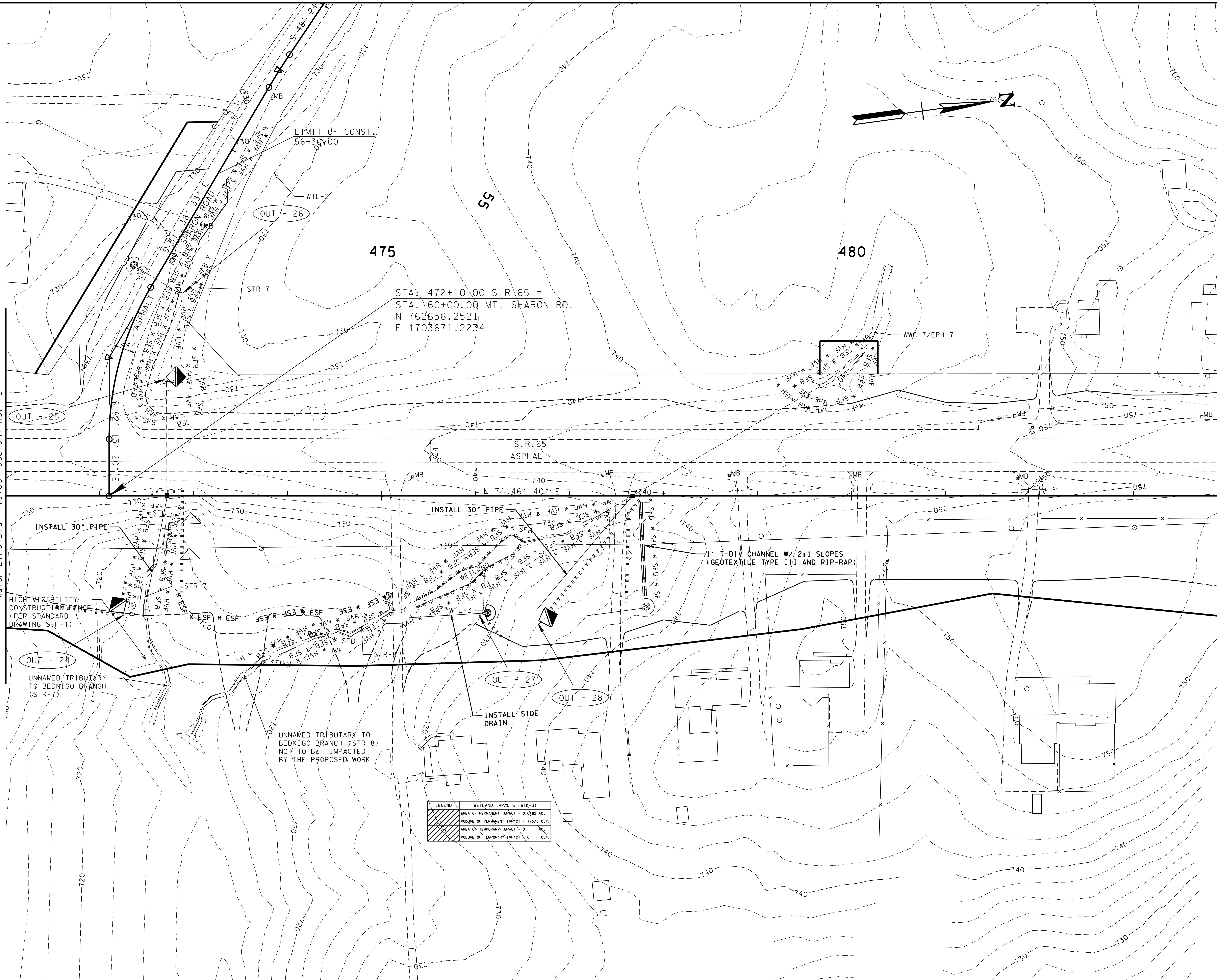
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	71
CONST.	2017	STP-65(10)	74

REV. 12-15-15: REVISED THE LIMIT OF CONSTRUCTION ON MT. SHARON ROAD.



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EPSC PLAN STAGE I

STA. 471+00 TO STA. 484+00

SCALE: 1"= 50'

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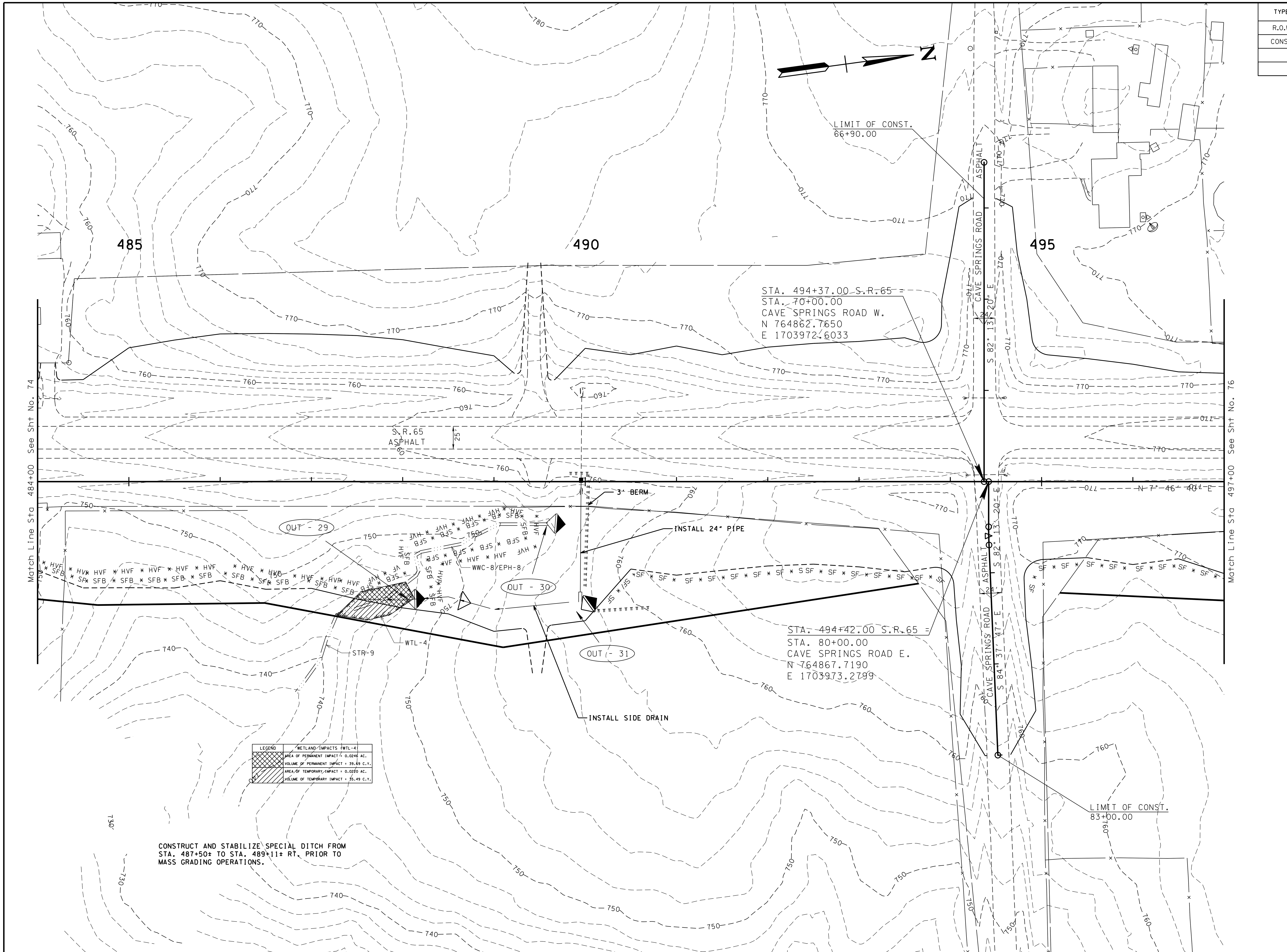
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	72
CONST.	2017	STP-65(10)	75



LEGEND	WETLAND IMPACTS (WTL-4)
(cross-hatched)	AREA OF PERMANENT IMPACT = 0.0246 AC. VOLUME OF PERMANENT IMPACT = 39.69 C.Y.
(hatched)	AREA OF TEMPORARY IMPACT = 0.0220 AC. VOLUME OF TEMPORARY IMPACT = 35.49 C.Y.

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EPSC PLAN STAGE I

STA. 484+00 TO STA. 497+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	73
CONST.	2017	STP-65(10)	76

LIMIT OF CONST.
85+70.00

500

505

WWC-9/EPH-9

OUT - 36

OUT - 34

OUT - 35

OUT - 32

OUT - 33

MB

S.R.65
ASPHALT

42'

N 7° 46' 40" E

S 82° 13' 20" E

INSTALL 42" PIPE

18" SLOPE DRAIN

18" SLOPE DRAIN

WTL-5

WWC-9/EPH-9

POND

See Sht No. 75

See Sht No. 77

Match Line Sta 497+00

Match Line Sta 510+00

STA. 506+07.00 S.R.65 =
STA. 90+00.00 CHELSEA DRIVE
N 766022.0044
E 1704130.9397

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM STA. 497+00± TO STA. 502+75± RT. PRIOR TO MASS GRADING OPERATIONS.

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM STA. 502+84± TO STA. 507+00± RT. PRIOR TO MASS GRADING OPERATIONS.

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM STA. 507+00± TO STA. 510+96± RT. PRIOR TO MASS GRADING OPERATIONS.

LEGEND	WETLAND IMPACTS (WTL-5)
	AREA OF PERMANENT IMPACT = 0.0308 AC.
	VOLUME OF PERMANENT IMPACT = 49.74 C.Y.
	AREA OF TEMPORARY IMPACT = 0.0804 AC.
	VOLUME OF TEMPORARY IMPACT = 129.6 C.Y.

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EPSC PLAN STAGE I

STA. 497+00 TO STA. 510+00

SCALE: 1"= 50'

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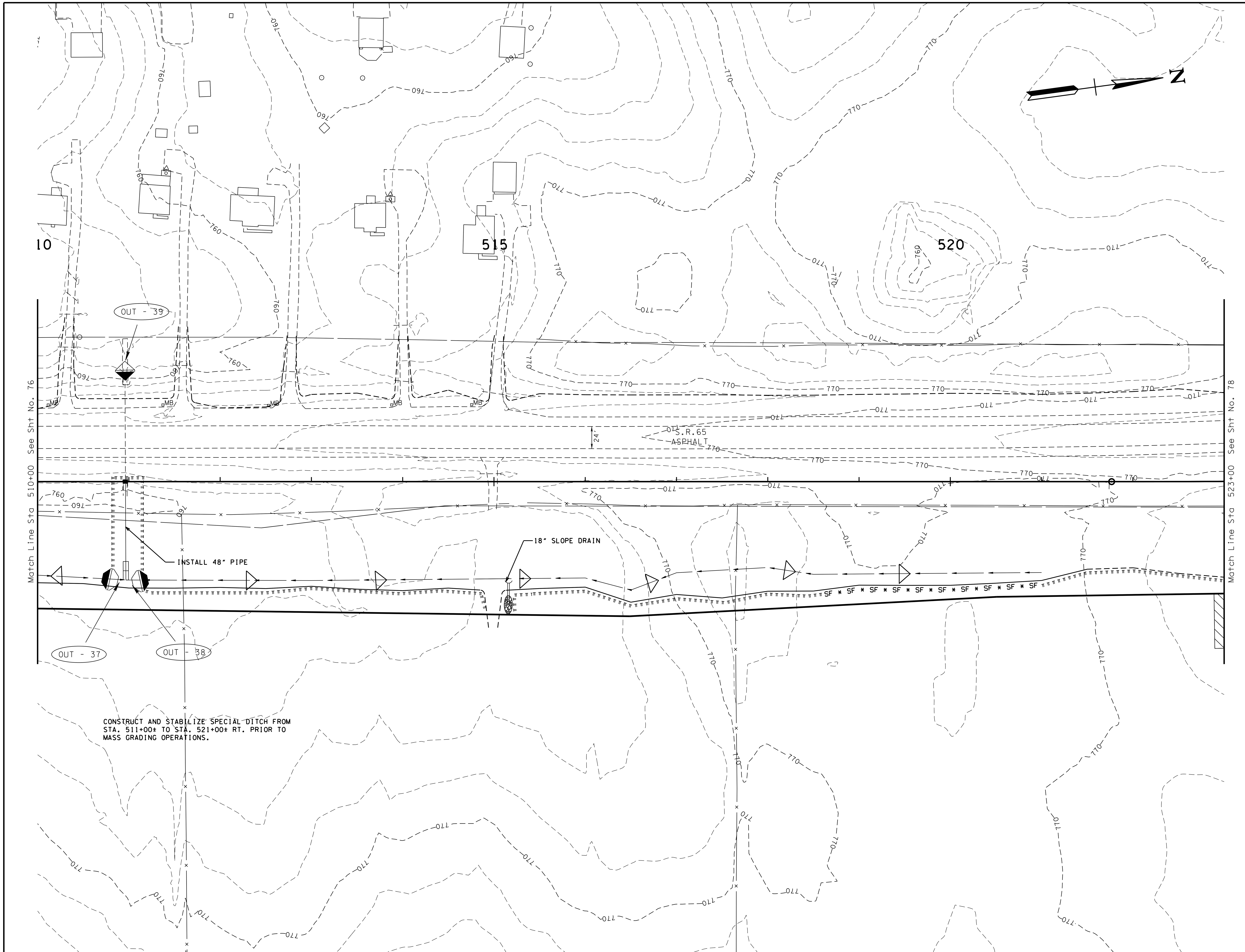
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	74
CONST.	2017	STP-65(10)	77



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EPSC PLAN STAGE I

STA. 510+00 TO STA. 523+00

SCALE: 1"= 50'

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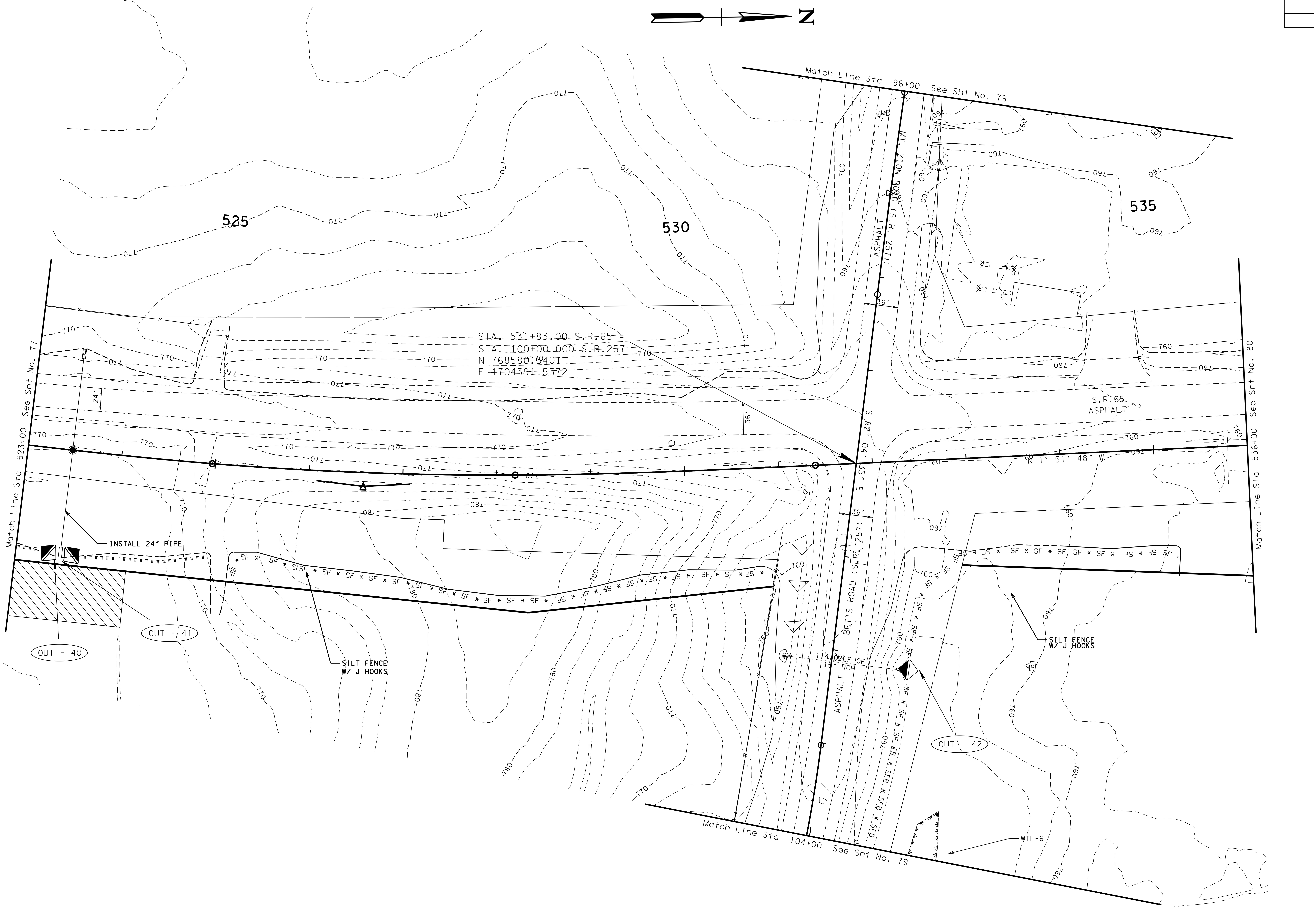
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	75
CONST.	2017	STP-65(10)	78



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EPSC PLAN
STAGE I

STA. 523+00 TO STA. 536+00

SCALE: 1"= 50'

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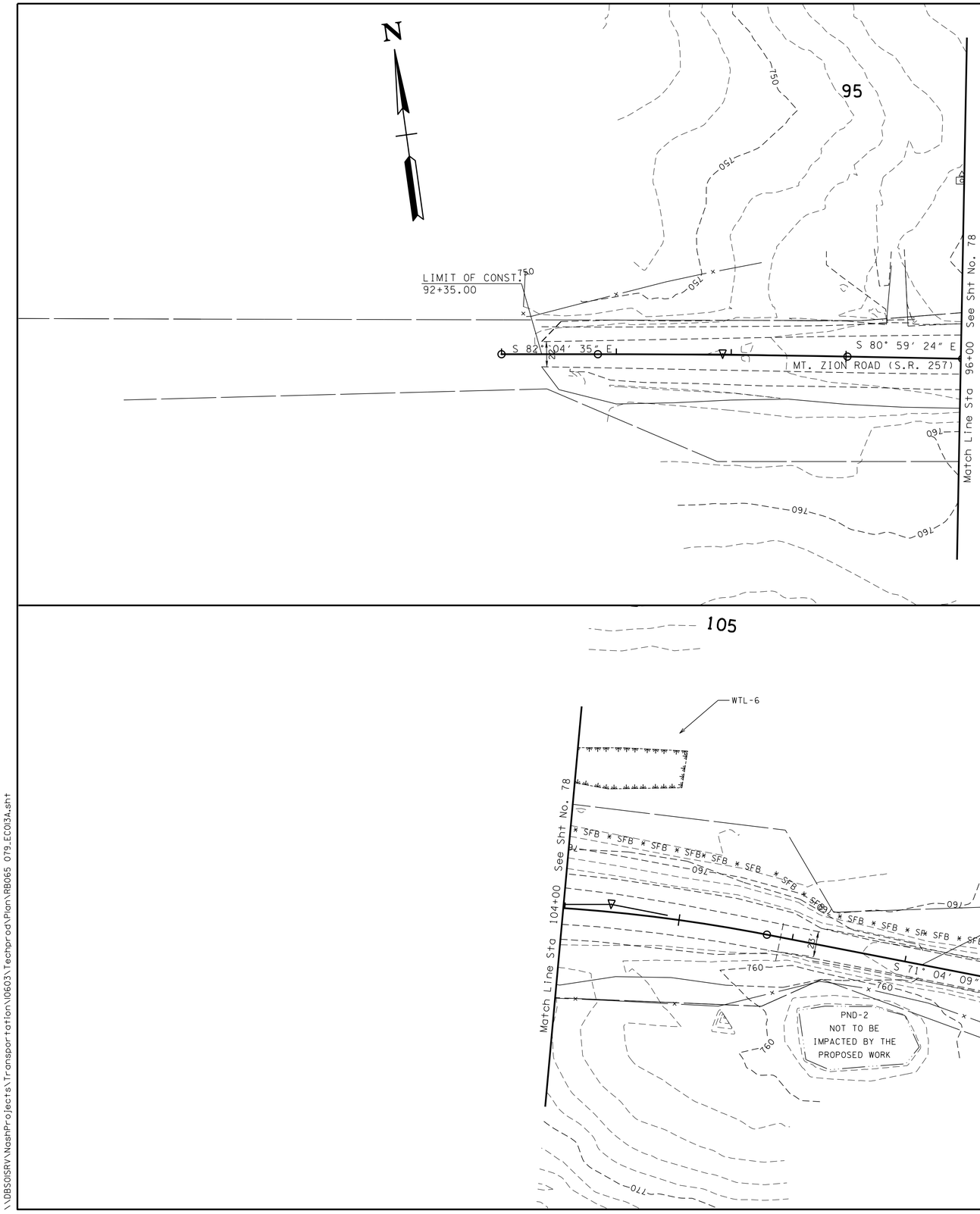
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	75A
CONST.	2017	STP-65(10)	79



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EPSC PLAN STAGE I

S.R. 257

SCALE: 1"= 50'

6/3/2017 10:16:30 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	76
CONST.	2017	STP-65(10)	80

540

545

WWC-10/EPH-10

WWC-10/EPH-10

See Sht No. 78

Match Line Sta 536+00

See Sht No. 81

Match Line Sta 549+00

S.R.65
ASPHALT

25'

EMB

N 1° 51' 48" W

OUT - 45

OUT - 44

OUT - 43

INSTALL 42" PIPE

WTL-3

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM STA. 542+00± TO STA. 544+29± RT. PRIOR TO MASS GRADING OPERATIONS.

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM STA. 544+37± TO STA. 547+00± RT. PRIOR TO MASS GRADING OPERATIONS.

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EPSC PLAN STAGE I

STA. 536+00 TO STA. 549+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	77
CONST.	2017	STP-65(10)	81

550

555

560

N

STR-10

INSTALL 24" PIPE

WTL-4

OUT - 46

OUT - 47

S.R.65
ASPHALT

N 1° 51' 48" W

Match Line Sta 549+00 See Sht No. 80

Match Line Sta 562+00 See Sht No. 82

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM STA. 542+00± TO STA. 544+29± RT. PRIOR TO MASS GRADING OPERATIONS.

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM STA. 544+37± TO STA. 547+00± RT. PRIOR TO MASS GRADING OPERATIONS.

LEGEND	WETLAND IMPACTS (WTL-)
	AREA OF PERMANENT IMPACT = 0.08 AC.
	VOLUME OF PERMANENT IMPACT = 123 C.Y.
	AREA OF TEMPORARY IMPACT = AC.
	VOLUME OF TEMPORARY IMPACT = C.Y.

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EPSC PLAN STAGE I

STA. 549+00 TO STA. 562+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	78
CONST.	2017	STP-65(10)	82

565

570

5

Match Line Sta 562+00 See Sht No. 81

Match Line Sta 575+00 See Sht No. 83

S.R.65
ASPHALT

N 1° 51' 48" W

3'-T-DIV CHANNEL W/ 3:1 SLOPES
(GEOTEXTILE TYPE III AND RIP-RAP)

INSTALL 36" PIPE

OUT - 51

OUT - 50

OUT - 49

OUT - 48

WWC-12/EPH-12

WTL-5

WWC-11/EPH-11

15'x15'

POND TO BE
DRAINED AND FILLED

UNNAMED TRIBUTARY
TO POORHOUSE BRANCH
(STR-6)

STR-6 BEGINS
STA. 572+93.68
OFF. 106.94

PND-2 NOT TO BE
IMPACTED BY THE
PROPOSED WORK

STR-11

CONSTRUCT AND STABILIZE SPECIAL DITCH FROM
STA. 563+50± TO STA. 572+86± RT. PRIOR TO
MASS GRADING OPERATIONS.

LEGEND	WETLAND IMPACTS (PND-4)
	AREA OF PERMANENT IMPACT = 0.1628 AC.
	VOLUME OF PERMANENT IMPACT = 262.6 C.Y.
	AREA OF TEMPORARY IMPACT = 0 AC.
	VOLUME OF TEMPORARY IMPACT = 0 C.Y.

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EPSC PLAN STAGE I

STA. 562+00 TO STA. 575+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	79
CONST.	2017	STP-65(10)	83

UNNAMED TRIBUTARY TO POORHOUSE BRANCH (STR-12)

580

585

UNNAMED TRIBUTARY TO POORHOUSE BRANCH (STR-13) NOT TO BE IMPACTED BY THE PROPOSED WORK

HIGH VISIBILITY CONSTRUCTION FENCE (PER STANDARD DRAWING S-F-T)

18" SLOPE DRAIN

N 21° 54' 26" E

Match Line Sta 575+00 See Sht No. 82

Match Line Sta 588+00 See Sht No. 84

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EPSC PLAN STAGE I

STA. 575+00 TO STA. 588+00

SCALE: 1"= 50'

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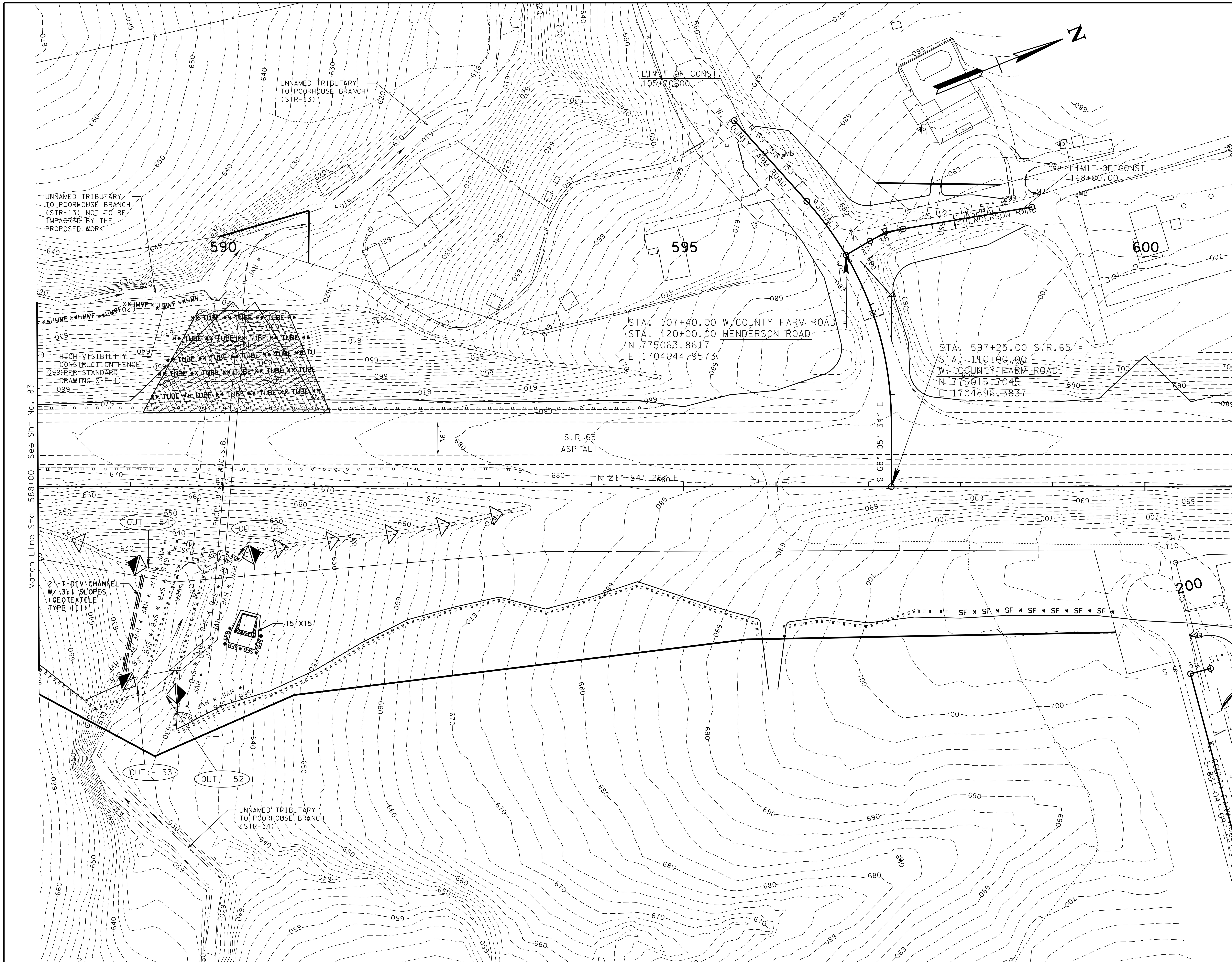
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	80
CONST.	2017	STP-65(10)	84



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EPSC PLAN
STAGE I

STA. 588+00 TO STA. 601+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	81
CONST.	2017	STP-65(10)	85

605

610

250

S.R.65
ASPHALT

36'

N 21° 54' 26" E

N 8° 18' 13" W

OUT - 56

WWC-15/EPH-15

SFB

HVF

18" SLOPE DRAIN

RIP-RAP

Match Line Sta 601+00 See Sht No. 84

Match Line Sta 614+00 See Sht No. 86

STR-9 RELOCATION PHASING STEPS
1. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM FROM STA. 610+37± TO STA. 625+50± ALONG PROPOSED SLOPE LINES
2. CONTRACTOR SHALL CONSTRUCT AND STABILIZE SPECIAL DITCH AND STREAM RELOCATION FROM STA. 610+50 TO STA. 622+50
3. CONTRACTOR SHALL CONSTRUCT INSTREAM DIVERSION FROM STA. 623+00 TO STA. 624+50
4. CONTRACTOR SHALL CONSTRUCT AND STABILIZE STREAM RELOCATION FROM STA. 622+50 TO STA. 625+70±

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EPSC PLAN STAGE I

STA. 601+00 TO STA. 614+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	82
CONST.	2017	STP-65(10)	86

LIMIT OF CONST.
12+50.00

615

620

625

PROPOSED ALIGNMENT
-FROM FUTURE PROJECT

STA. 626+98.90 BK. S.R. 65 =
STA. 41+14.90 AHD. S.R. 65 =
STA. 14+00.00 WALLING ROAD
N 777819.1152
E 1705844.6769

END PROJ. NO. STP-65(10),74010-3231-14 CONST.
STA. 626+50.00

END PROJ. NO. STP-65(10),74010-2231-14 R.O.W.
STA. 624+17.73

ASPHALT DRIVE

S.R.65
ASPHALT

See Sht No. 85
Match Line Sta 614+00

N 21° 54' 26" E

18" SLOPE DRAIN

18" SLOPE DRAIN

18" SLOPE DRAIN

18" SLOPE DRAIN

RIP-RAP

STA. 616+38.00 S.R. 65 =
STA. 130+00.00 MARIVIEW DRIVE
N 776790.5641
E 1705610.1362

OUT - 57

OUT - 58

STR-15 BEGINS
STA. 619+60.19
OFF. 38.51

WWC-13/EPH-13

UNNAMED TRIBUTARY
(STR-15)

STREAM RELOCATION (STR-9)

DIV IN

PROPOSED ALIGNMENT
FROM FUTURE PROJECT

OLD U.S. 431

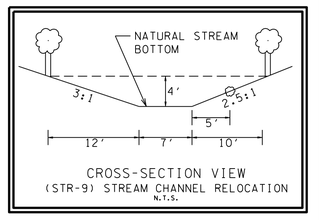
WALLING ROAD

N 5° 37' 43" E

WILLIAM A. DAWSON PKWY

FLAG

MB



CROSS-SECTION VIEW
(STR-9) STREAM CHANNEL RELOCATION
N.T.S.

STR-9 RELOCATION PHASING STEPS

1. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM FROM STA. 610+37± TO STA. 625+50± ALONG PROPOSED SLOPE LINES AND ENHANCED ROCK CHECK DAM AT STA. 625+00±.
2. CONTRACTOR SHALL CONSTRUCT INSTREAM DIVERSION FROM STA. 623+00 TO STA. 624+50.
3. CONTRACTOR SHALL CONSTRUCT AND STABILIZE SPECIAL DITCH AND STREAM RELOCATION FROM STA. 610+50 TO STA. 625+70±.

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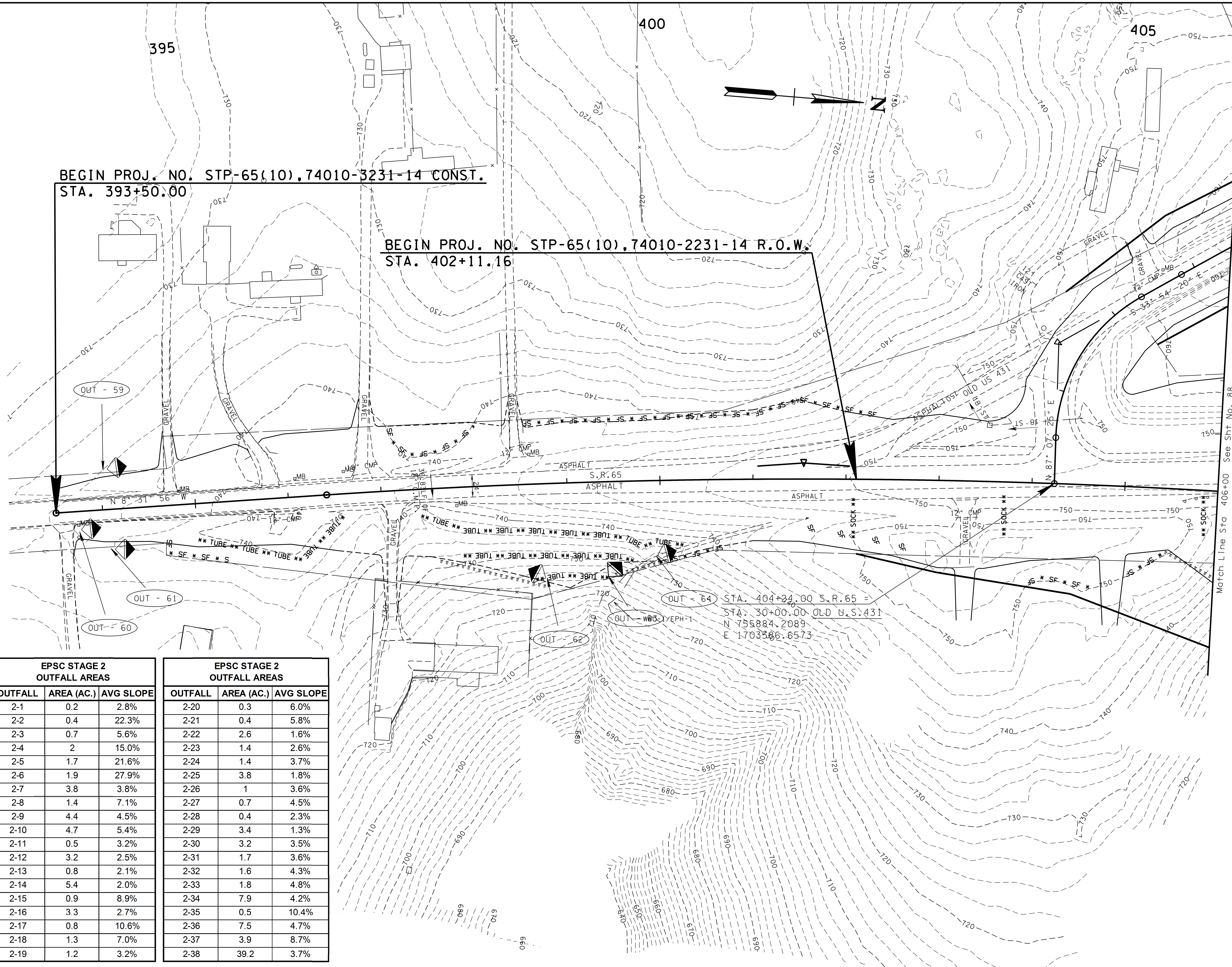
EPSC PLAN STAGE I

STA. 614+00 TO END OF PROJ.

SCALE: 1"= 50'

6/3/2017 10:17:17 PM
\\DBSOISRV\NashProjects\Transportation\0603\Techprod\Plan\RB065 086_EC020.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	83
CONST.	2017	STP-65(10)	87



EPSC STAGE 2 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
2-1	0.2	2.8%
2-2	0.4	22.3%
2-3	0.7	5.6%
2-4	2	15.0%
2-5	1.7	21.6%
2-6	1.9	27.9%
2-7	3.8	3.8%
2-8	1.4	7.1%
2-9	4.4	4.5%
2-10	4.7	5.4%
2-11	0.5	3.2%
2-12	3.2	2.5%
2-13	0.8	2.1%
2-14	5.4	2.0%
2-15	0.9	8.9%
2-16	3.3	2.7%
2-17	0.8	10.6%
2-18	1.3	7.0%
2-19	1.2	3.2%

EPSC STAGE 2 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
2-20	0.3	6.0%
2-21	0.4	5.8%
2-22	2.6	1.6%
2-23	1.4	2.6%
2-24	1.4	3.7%
2-25	3.8	1.8%
2-26	1	3.6%
2-27	0.7	4.5%
2-28	0.4	2.3%
2-29	3.4	1.3%
2-30	3.2	3.5%
2-31	1.7	3.6%
2-32	1.6	4.3%
2-33	1.8	4.8%
2-34	7.9	4.2%
2-35	0.5	10.4%
2-36	7.5	4.7%
2-37	3.9	8.7%
2-38	39.2	3.7%

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EPSC PLAN STAGE II

BEG. OF PROJ. TO STA. 406+00

SCALE: 1"= 50'

6/3/2017 10:17:24 PM
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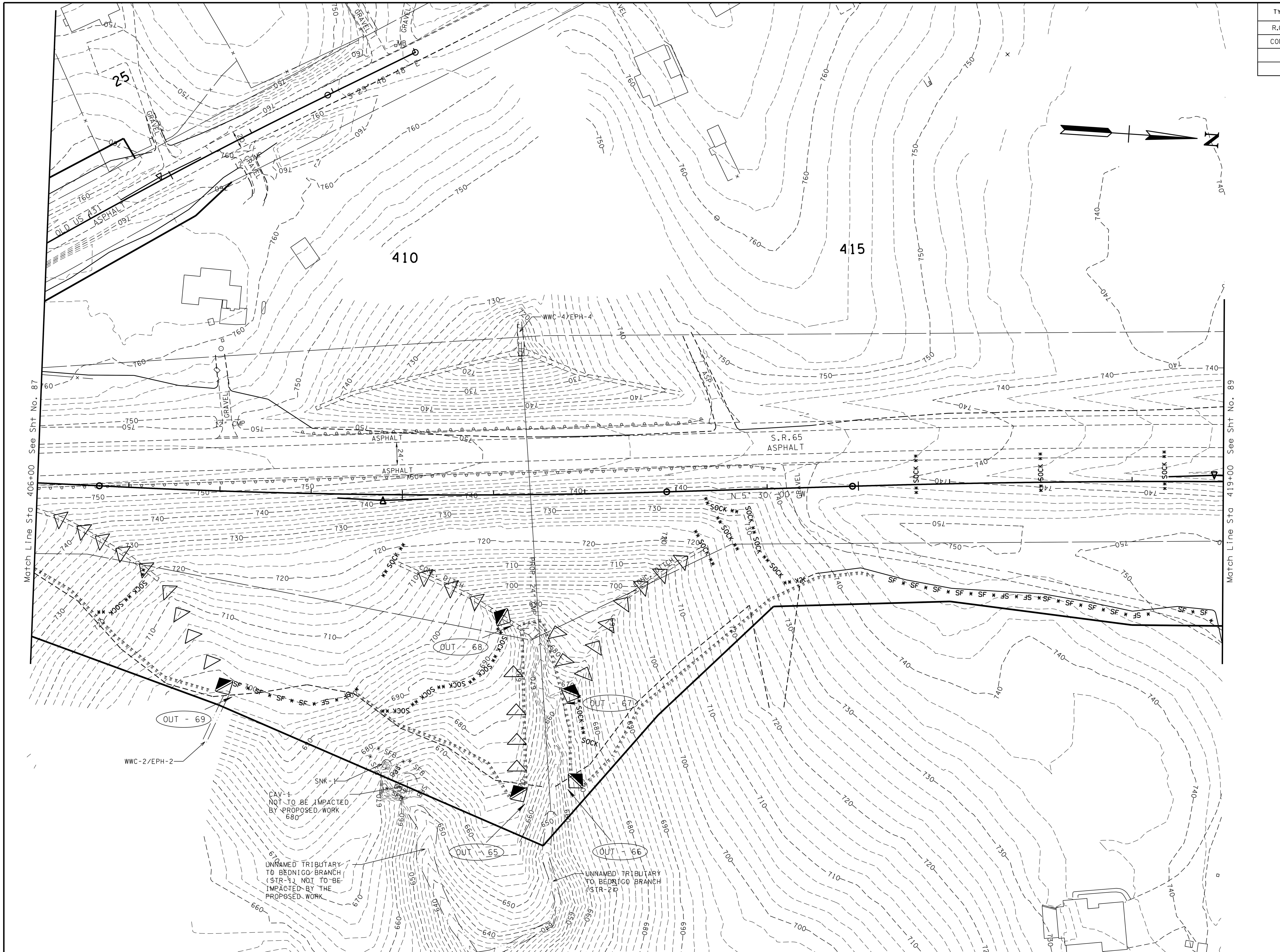
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	84
CONST.	2017	STP-65(10)	88



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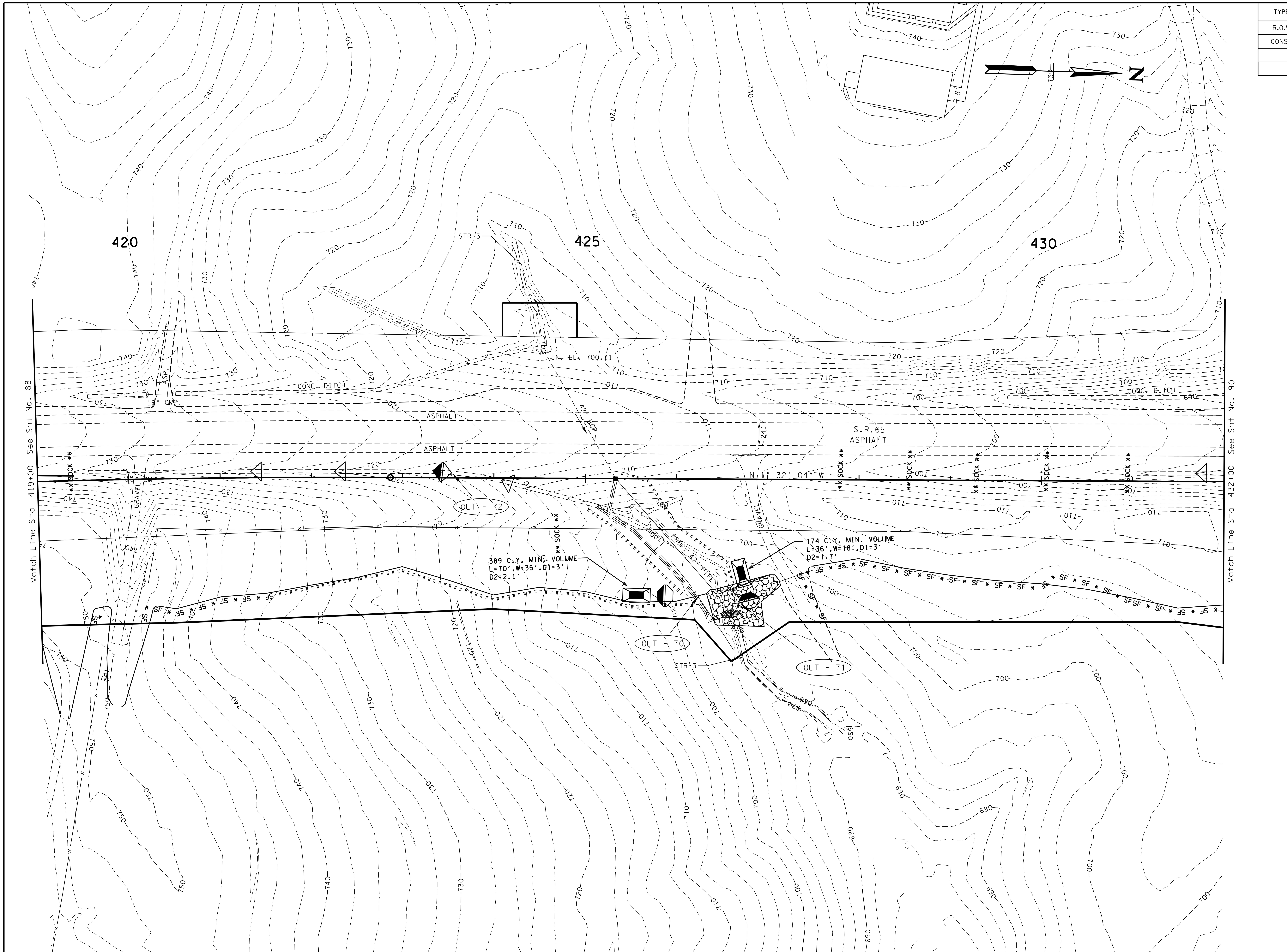
EPSC PLAN STAGE II

STA. 406+00 TO STA. 419+00

SCALE: 1"= 50'

6/3/2017 10:17:54 PM
\\DBS01SRV\NashProjects\Transportation\0603\Techprod\Plan\RB065 088.EC022.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	85
CONST.	2017	STP-65(10)	89



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EPSC PLAN STAGE II

STA. 419+00 TO STA. 432+00

SCALE: 1"= 50'

6/3/2017 10:17:59 PM
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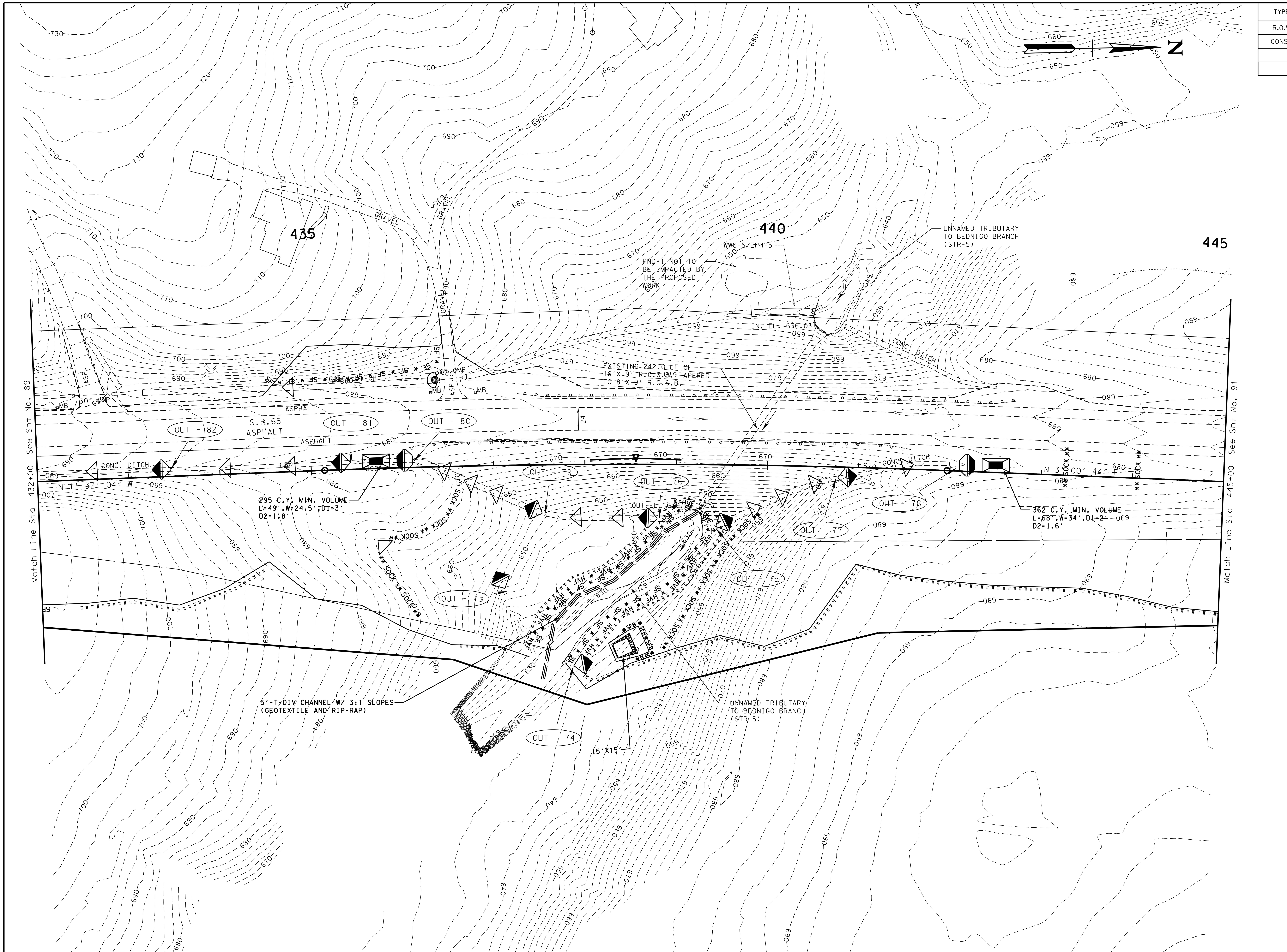
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	86
CONST.	2017	STP-65(10)	90



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EPSC PLAN STAGE II

STA. 432+00 TO STA. 445+00

SCALE: 1"= 50'

6/3/2017 10:18:05 PM
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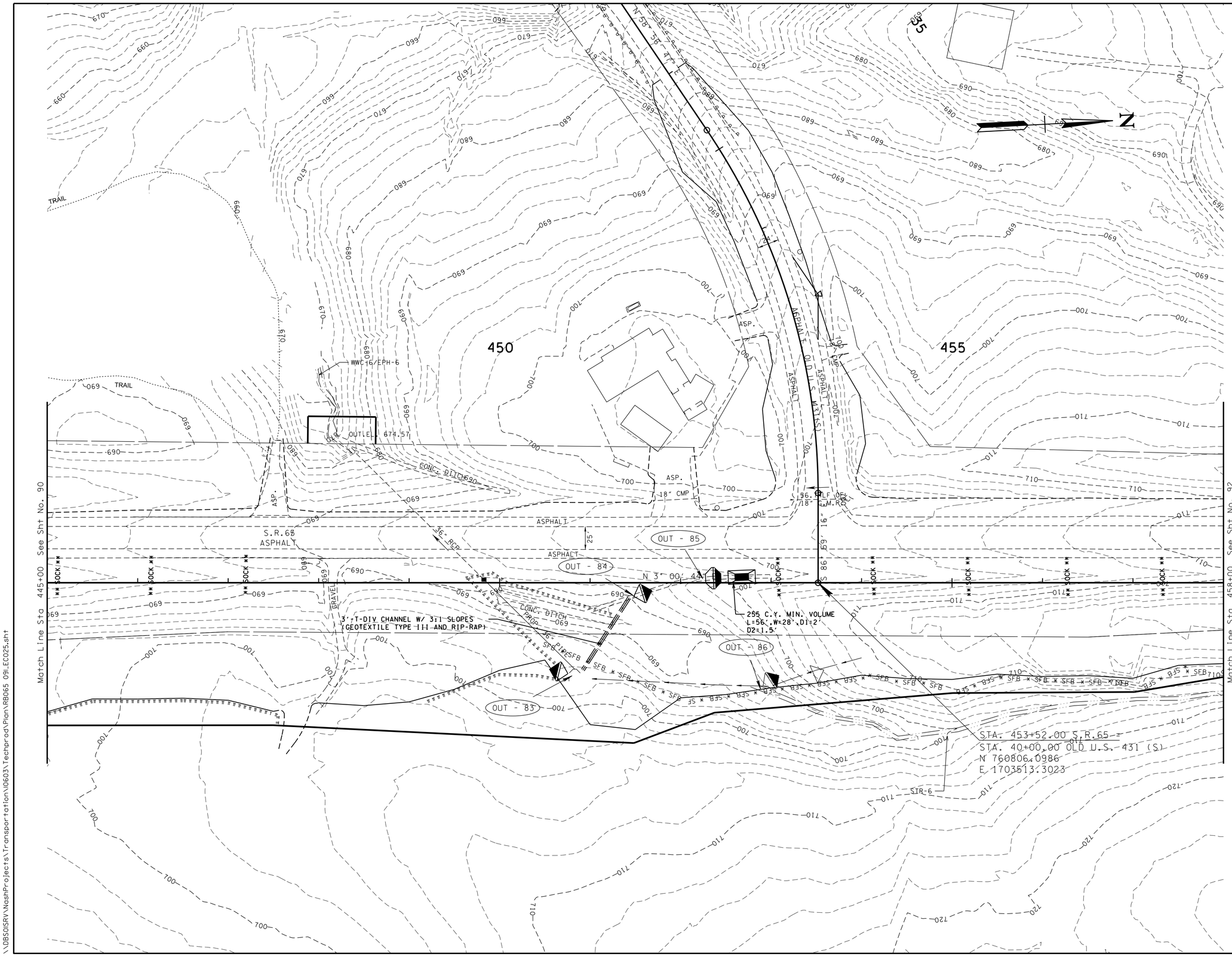
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	87
CONST.	2017	STP-65(10)	91



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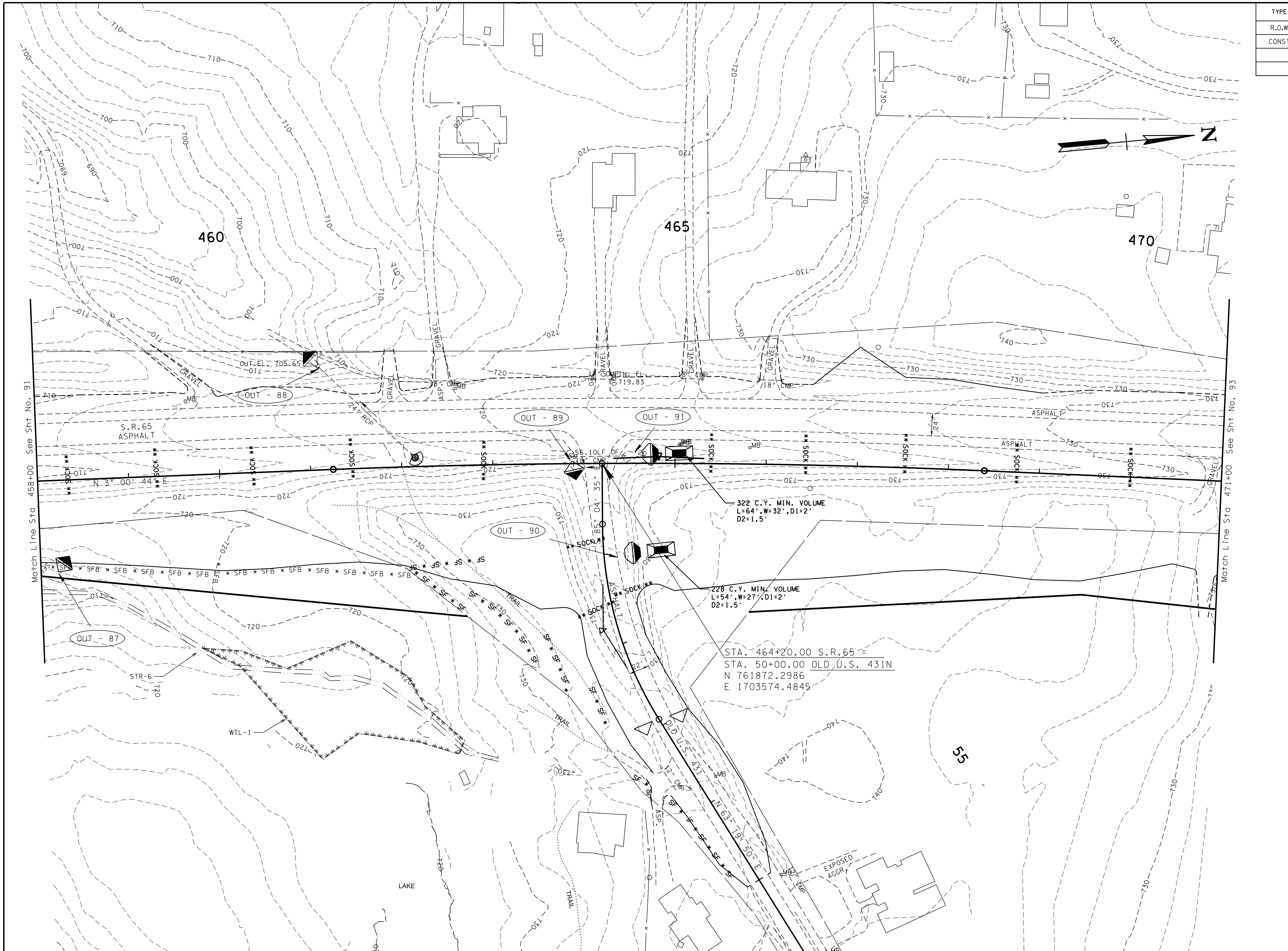
STA. 445+00 TO STA. 458+00

SCALE: 1"= 50'

6/3/2017 10:18:10 PM
\\DBS01SRV\NashProjects\Transportation\0603\Techprod\Plan\RB065 09i_EC025.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	88
CONST.	2017	STP-65(10)	92



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EPSC PLAN STAGE II

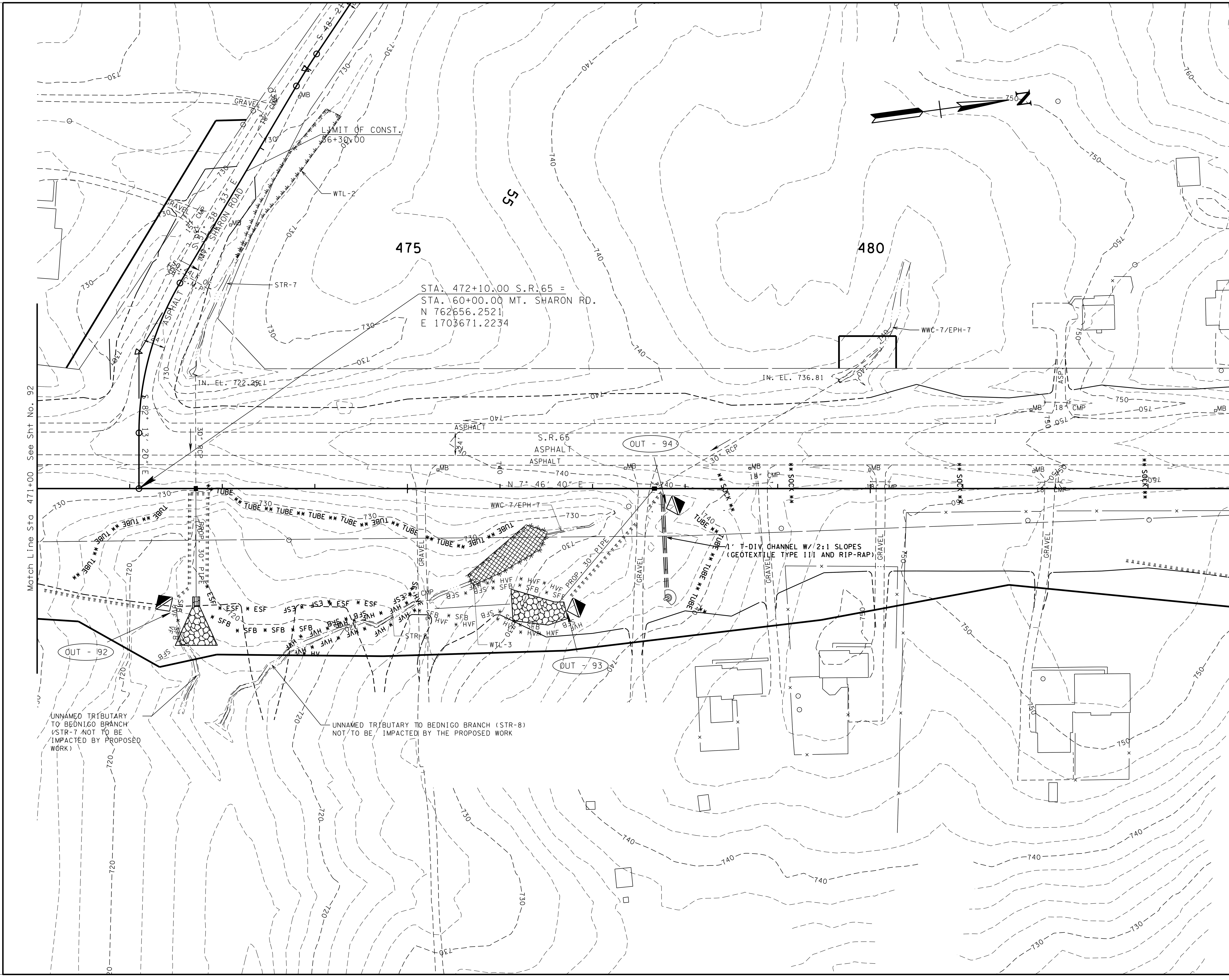
STA. 458+00 TO STA. 471+00

SCALE: 1"= 50'

6/3/2017 10:18:16 PM
\\DBS01SRV\NashProjects\Transportation\10603\Techprod\Plan\RB065 092_EC026.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	89
CONST.	2017	STP-65(10)	93

REV. 12-15-15: REVISED THE LIMIT OF CONSTRUCTION ON MT. SHARON ROAD.



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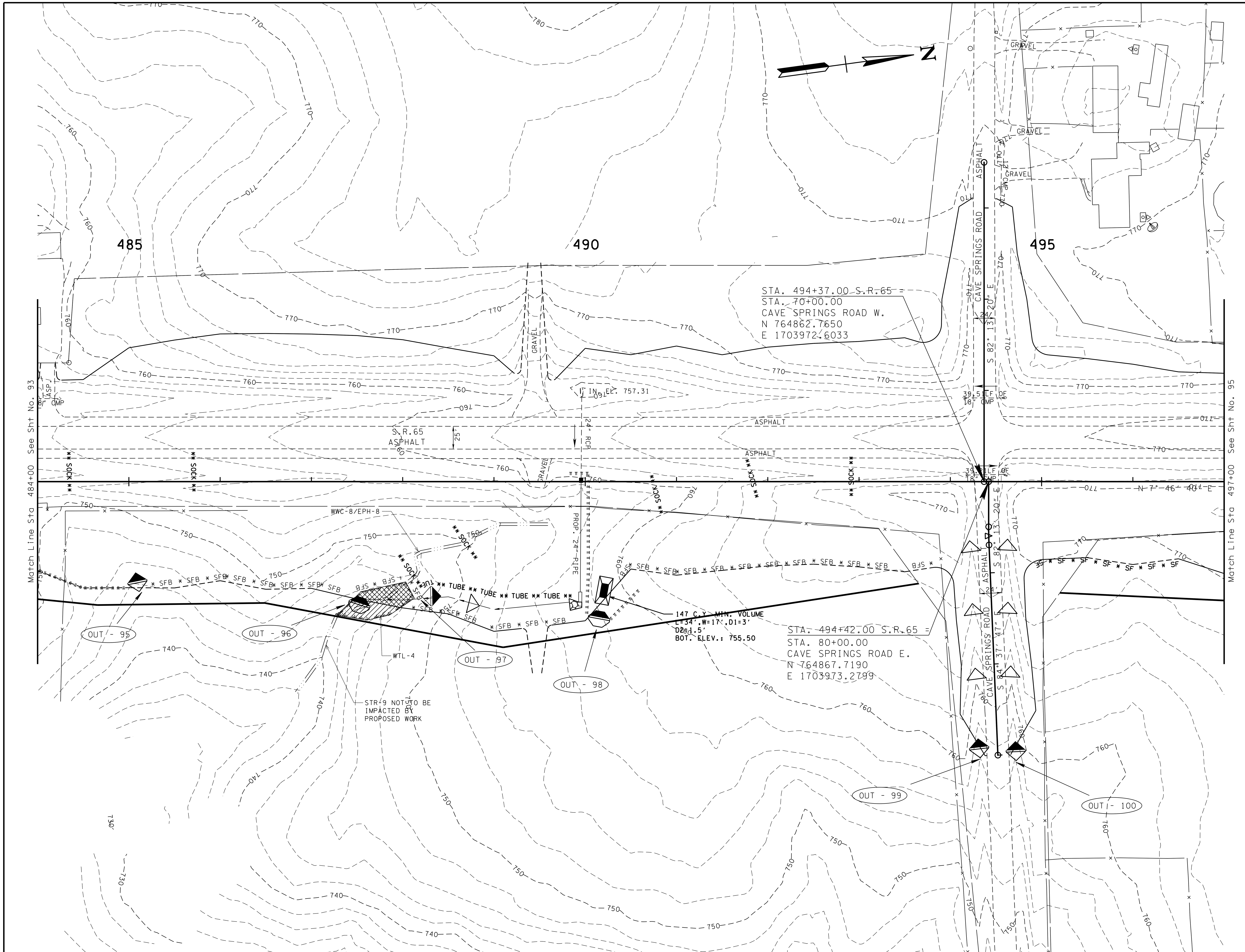
EPSC PLAN STAGE II

STA. 471+00 TO STA. 484+00

SCALE: 1"= 50'

6/3/2017 10:18:21 PM
\\DBSOISRV\NashProjects\Transportation\0603\Techprod\Plan\RB065 093.EC027.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	90
CONST.	2017	STP-65(10)	94



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EPSC PLAN STAGE II

STA. 484+00 TO STA. 497+00

SCALE: 1"= 50'

6/3/2017 10:18:27 PM
\\DBS01SRV\NashProjects\Transportation\0603\Techprod\Plan\RB065 094.EC028.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	91
CONST.	2017	STP-65(10)	95

N

500

505

GRAVEL

CHELSEA DRIVE

ASPHALT

S 59° 22' 14" E

S 82° 13' 20" E

WWC-9/EPH-9
OUT. EL.: 757.08

12" CMP

GRAVEL

ASP.

MB

See Sht No. 94

See Sht No. 96

Match Line Sta 497+00

Match Line Sta 510+00

S.R.65
ASPHALT

ASPHALT

42" RCP

N 7° 46' 40" E

** SOCK **

WTL-5

HVF

SFB

TUBE ** TUBE ** TUBE

WWC-9/EPH-9

OUT - 101

OUT - 102

POND

POND

STA. 506+07.00 S.R.65 =
STA. 90+00.00 CHELSEA DRIVE
N 766022.8044
E 1704130.9397

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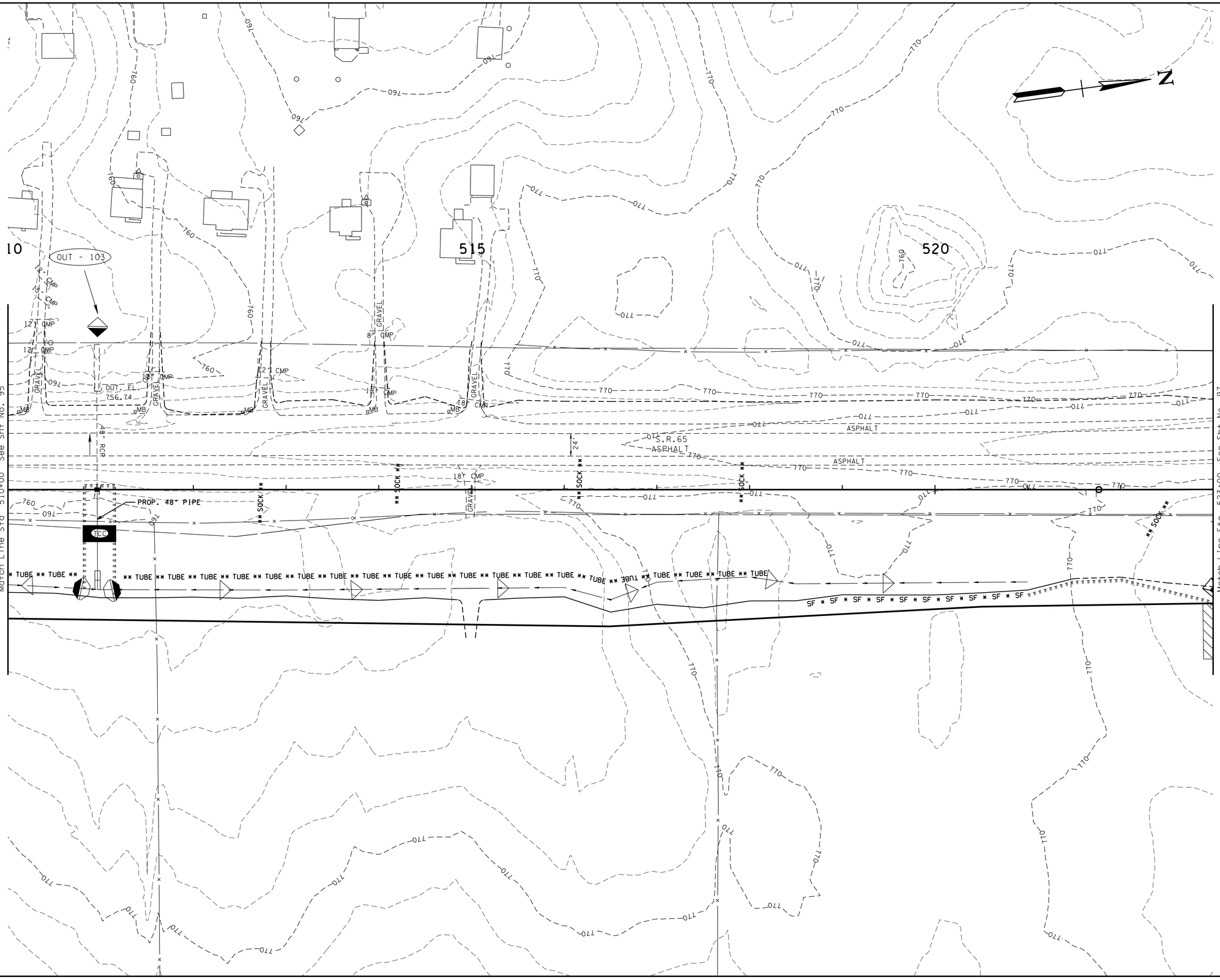
EPSC PLAN STAGE II

STA. 497+00 TO STA. 510+00

SCALE: 1"= 50'

6/3/2017 10:18:32 PM
\\DBS01SRV\NashProjects\Transportation\10603\Techprod\Plan\RB065 095-EC029.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	92
CONST.	2017	STP-65(10)	96



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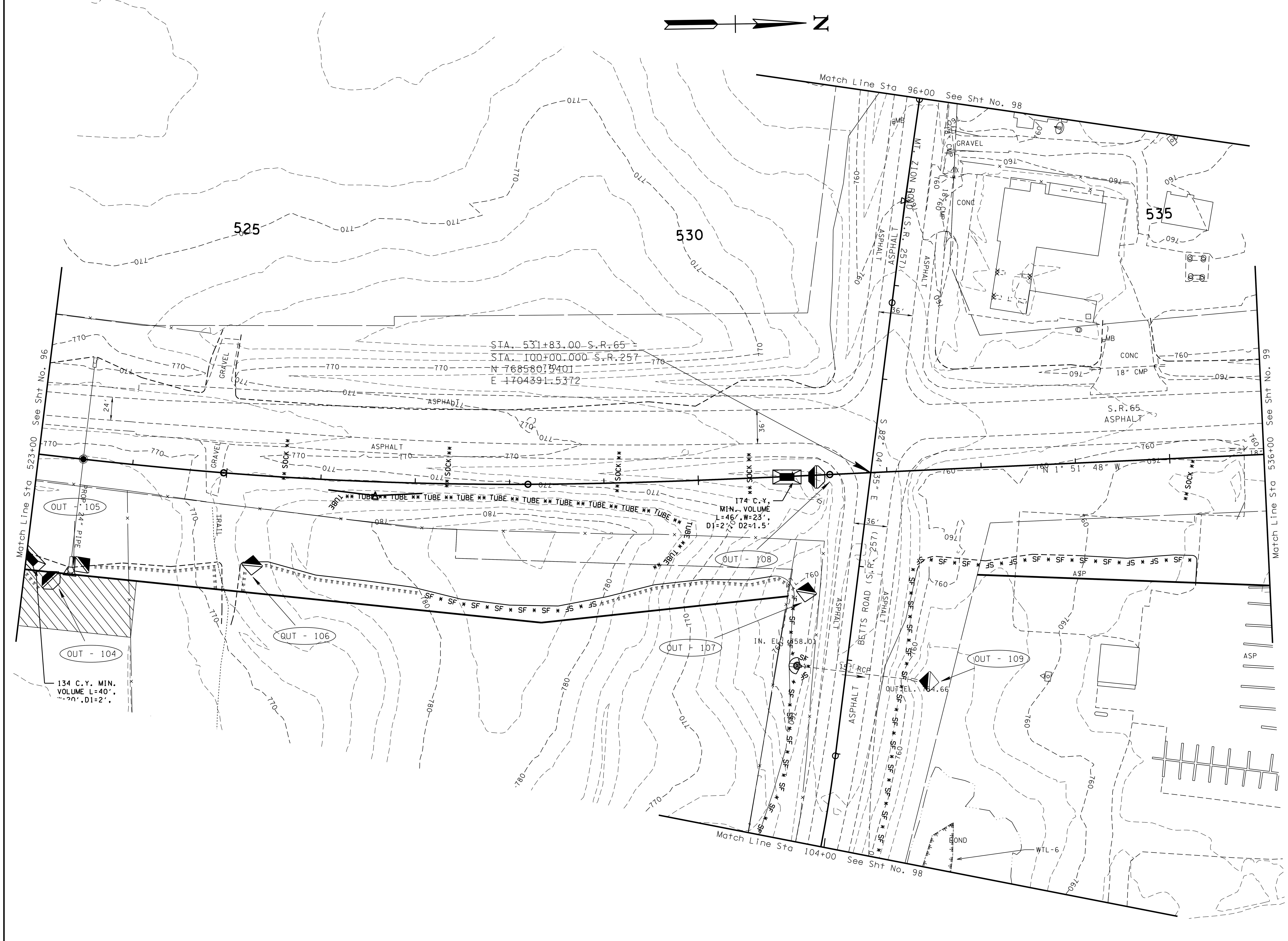
EPSC PLAN STAGE II

STA. 510+00 TO STA. 523+00

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	93
CONST.	2017	STP-65(10)	97



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EPSC PLAN STAGE II

STA. 523+00 TO STA. 536+00

SCALE: 1"= 50'

6/3/2017 10:18:43 PM
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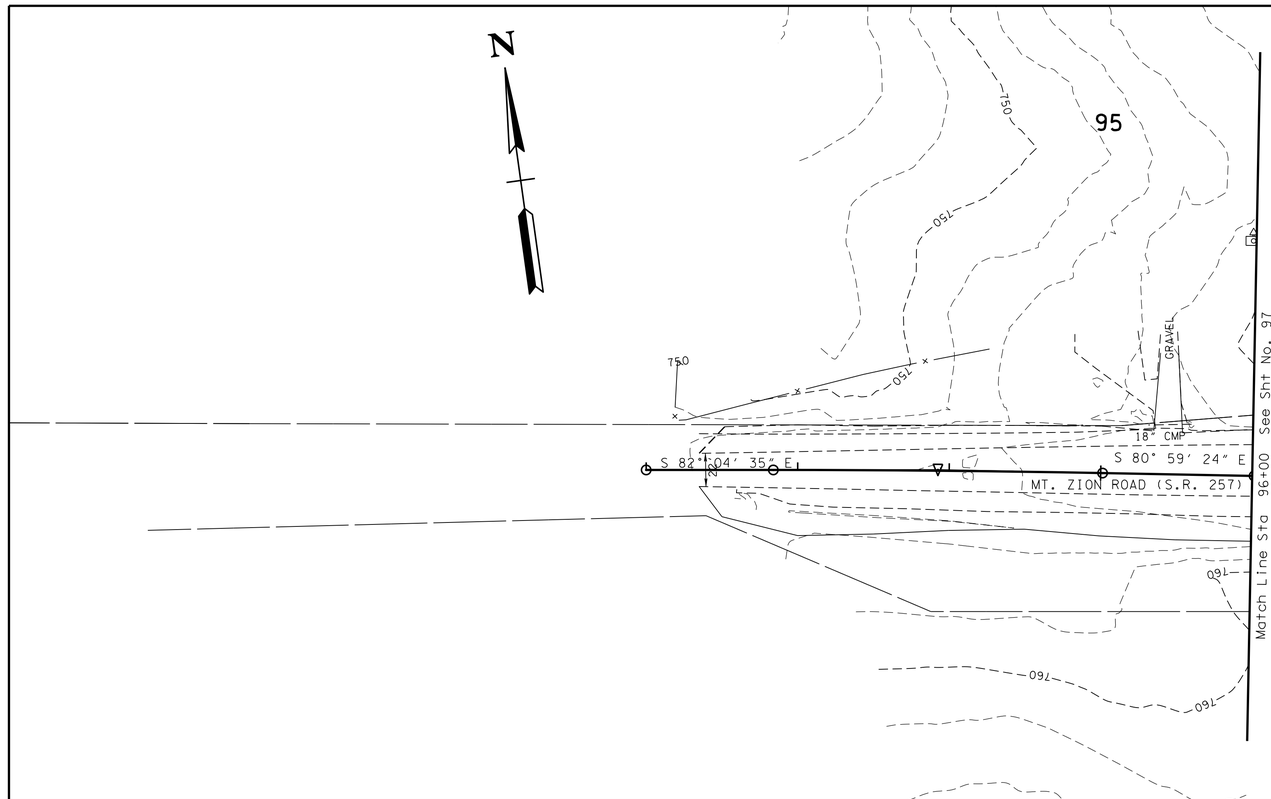
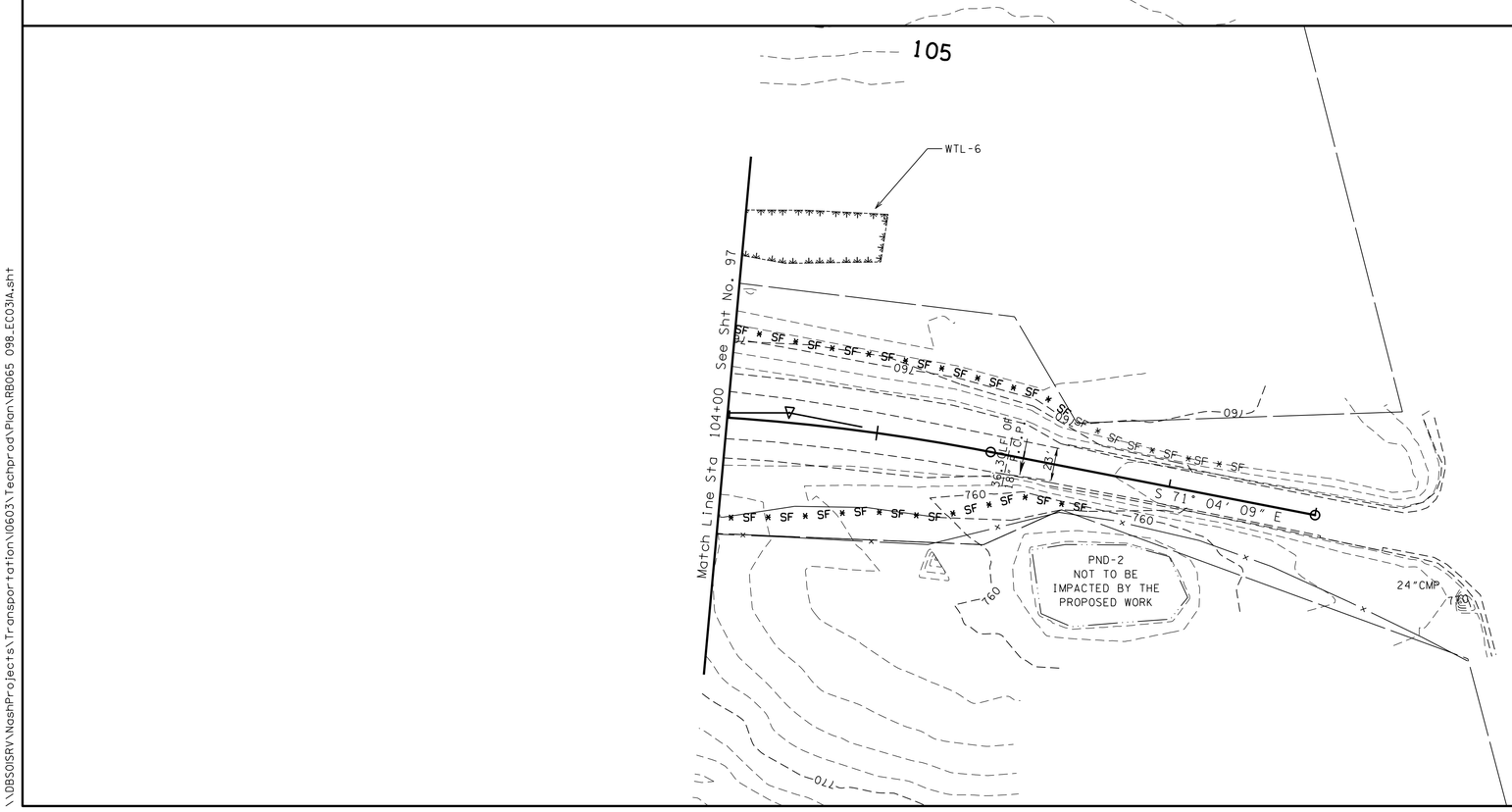
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	93A
CONST.	2017	STP-65(10)	98





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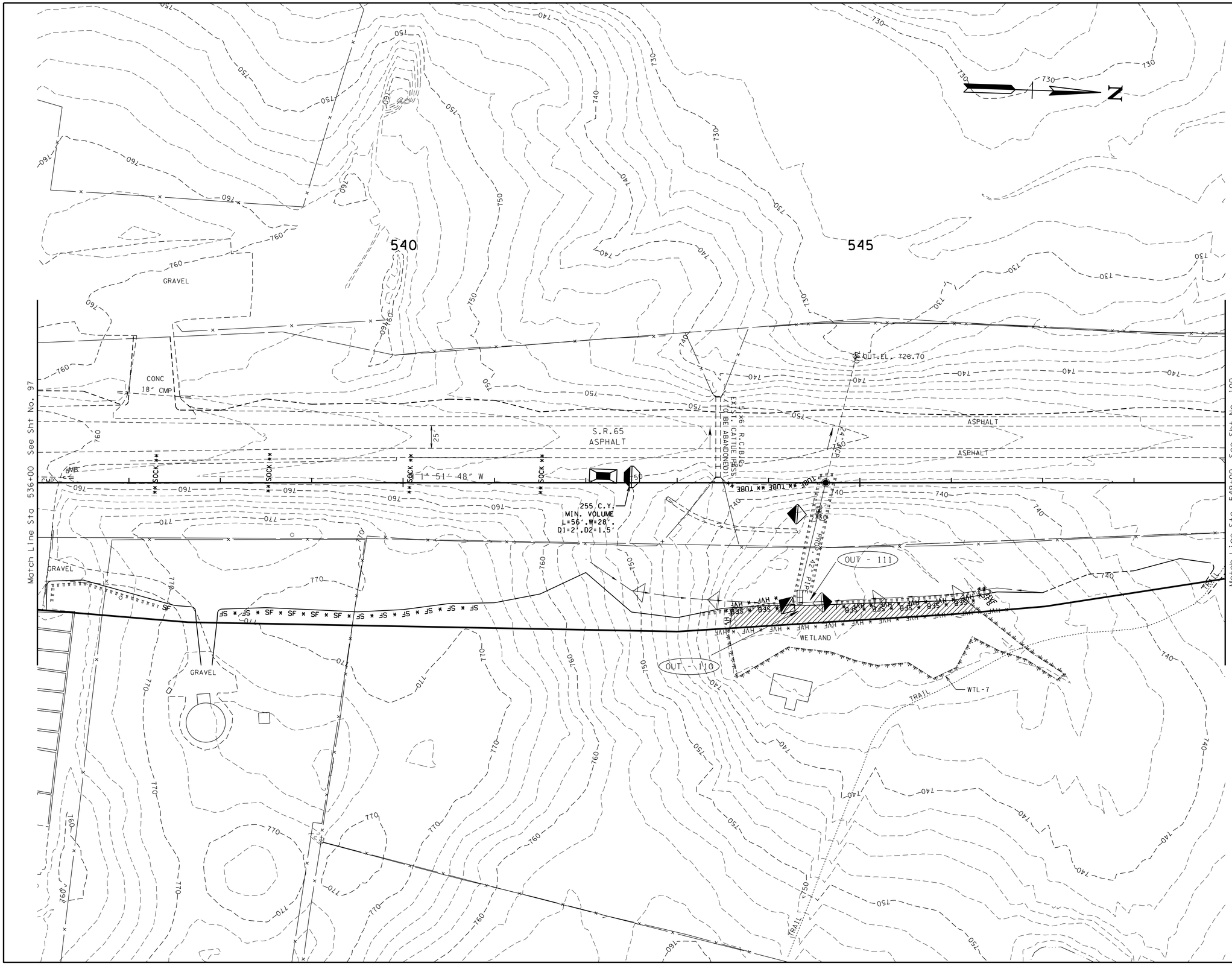
EPSC PLAN STAGE II

S.R. 257

SCALE: 1"= 50'

6/3/2017 10:18:49 PM
\\DBSOISRV\NashProjects\Transportation\0603\Techproad\Plan\RB065 098.EC03IA.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	94
CONST.	2017	STP-65(10)	99



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EPSC PLAN STAGE II

STA. 536+00 TO STA. 549+00

SCALE: 1"= 50'

6/3/2017 10:18:54 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	95
CONST.	2017	STP-65(10)	100

550

555

560

N

TRAIL

GRAVEL

ASPHALT

S.R.65
ASPHALT

STR-10

WTL-4

201 C.Y.
MIN. VOLUME
L=39',W=19.5',
D1=3',D2=1.7'

241 C.Y.
MIN. VOLUME
L=44',W=22',
D1=3',D2=1.7'

OUT - 112

OUT - 113

N 1°51'48" W

Match Line Sta 549+00 See Sht No. 99

Match Line Sta 562+00 See Sht No. 101

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EPSC PLAN STAGE II

STA. 549+00 TO STA. 562+00

SCALE: 1"= 50'

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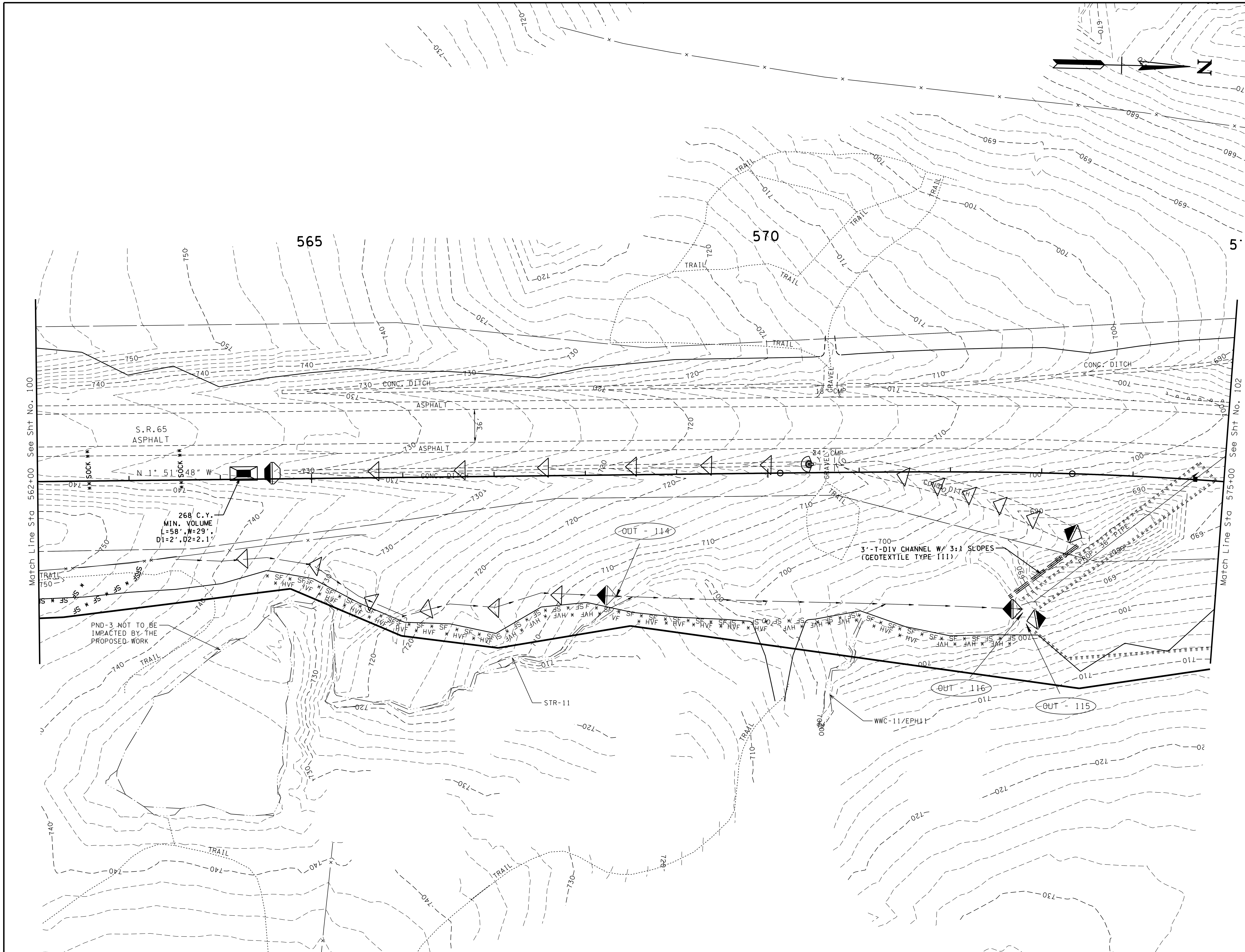
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	96
CONST.	2017	STP-65(10)	101



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EPSC PLAN STAGE II

STA. 562+00 TO STA. 575+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	97
CONST.	2017	STP-65(10)	102

UNNAMED TRIBUTARY
TO POORHOUSE BRANCH
(STR-12)

580

UNNAMED TRIBUTARY
TO POORHOUSE BRANCH
(STR-13 NOT TO BE IMPACTED
BY PROPOSED WORK)

585

PROP. 36" RCP

OUT - 117

ASPHALT

36"

SOCK

389 C.Y.
MIN. VOLUME
L=62',W=31',
D1=2',D2=1.9'

C/L CONC. DITCH

N 21° 54' 26" E

Match Line Sta 575+00 See Sht No. 101

Match Line Sta 588+00 See Sht No. 103

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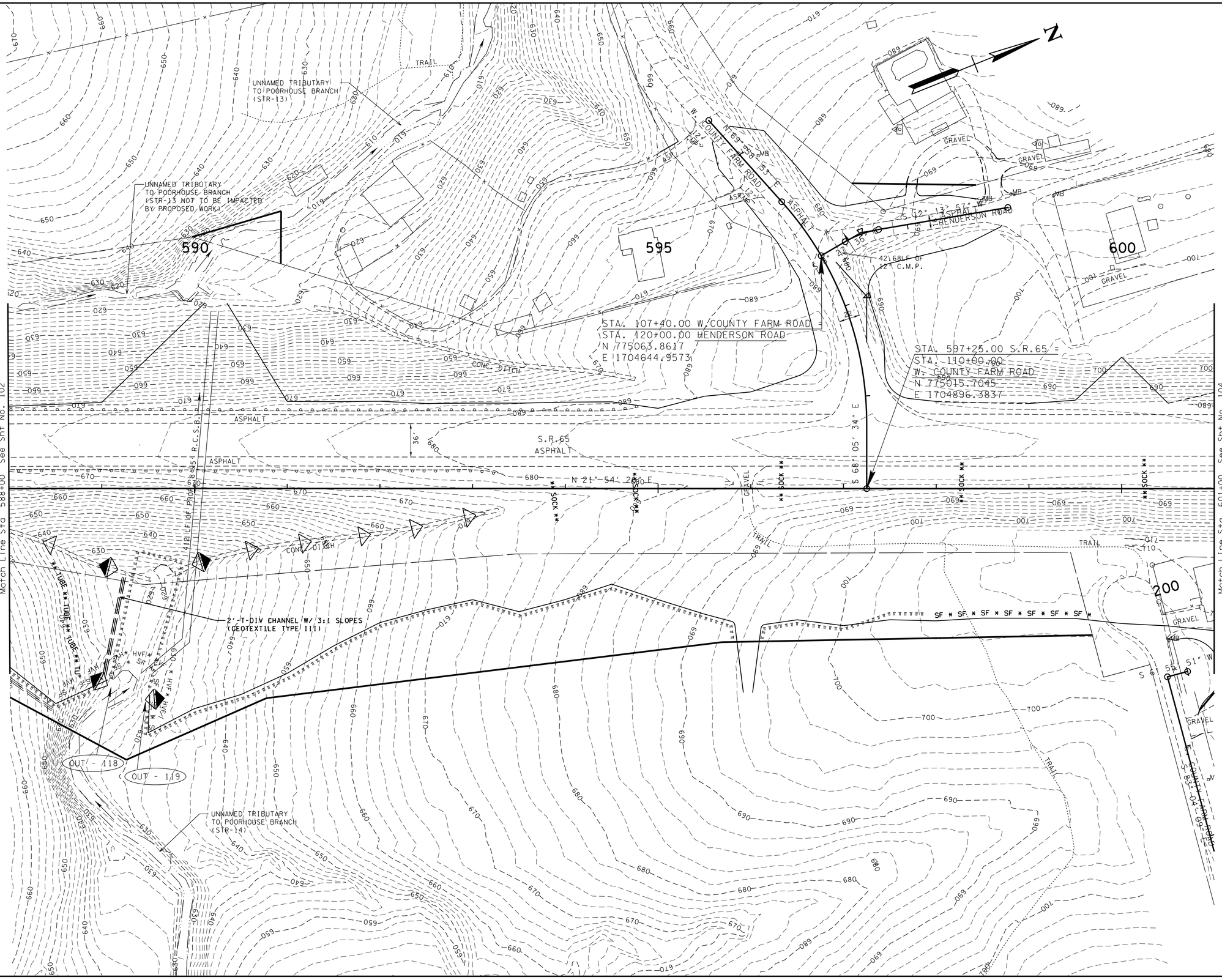
EPSC PLAN STAGE II

STA. 575+00 TO STA. 588+00

SCALE: 1"= 50'

6/3/2017 10:9:10 PM
\\DBS01SRV\NashProjects\Transportation\10603\Techprod\Plan\RB065 102.EC035.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	98
CONST.	2017	STP-65(10)	103



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EPSC PLAN STAGE II

STA. 588+00 TO STA. 601+00

SCALE: 1"= 50'

6/3/2017 10:19:16 PM
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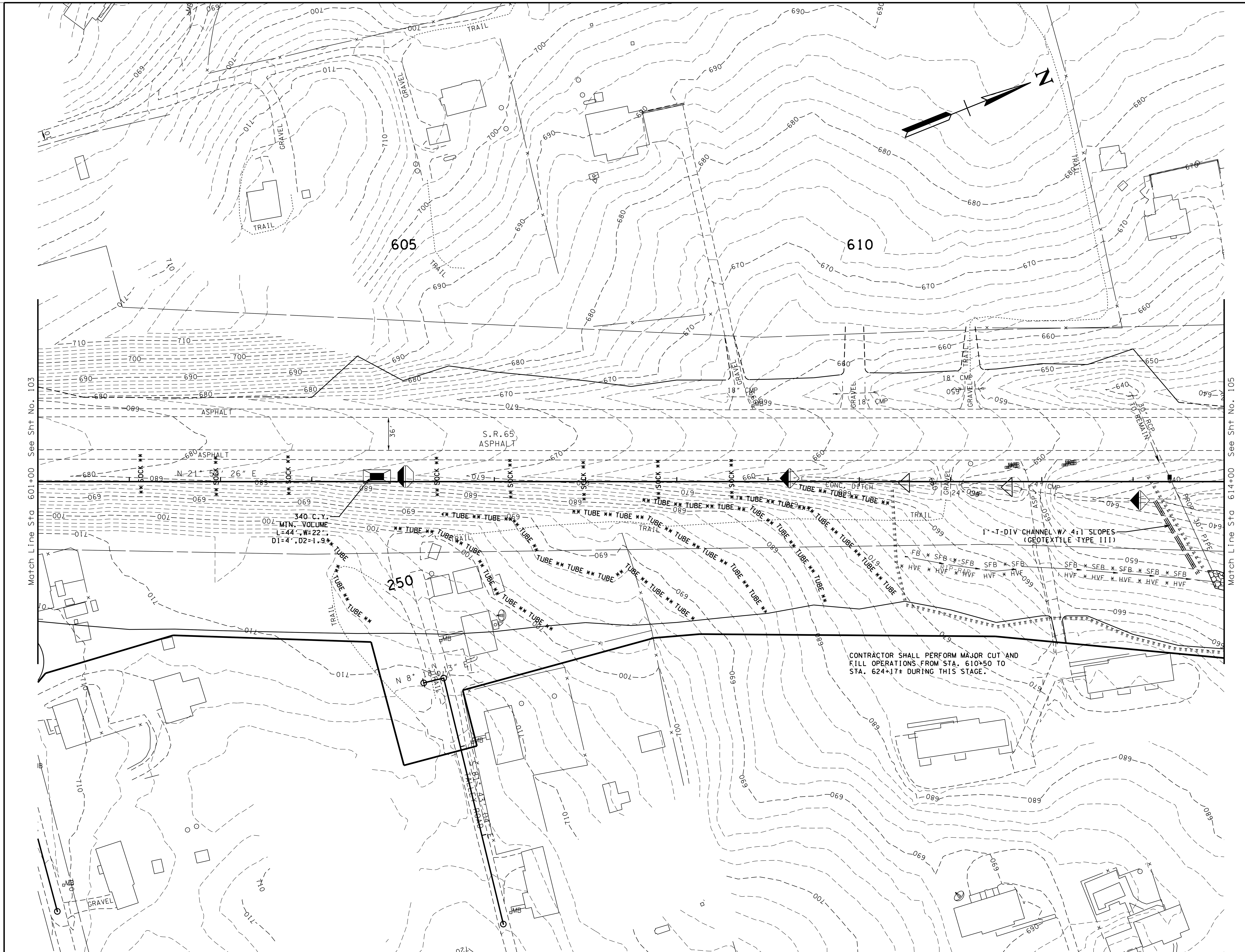
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	99
CONST.	2017	STP-65(10)	104



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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN
STAGE II

STA. 601+00 TO STA. 614+00

SCALE: 1"= 50'

6/3/2017 10:19:24 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	100
CONST.	2017	STP-65(10)	105

END PROJ. NO. STP-65(10),74010-3231-14 CONST.
STA. 626+50.00

END PROJ. NO. STP-65(10),74010-2231-14 R.O.W.
STA. 624+17.73

STA. 626+98.90 BK. S.R. 65
STA. 41+14.90 AHD. S.R. 65
STA. 14+00.00 WALLING ROAD
N 777819.1152
E 1705844.6769

PROPOSED ALIGNMENT
FROM FUTURE PROJECT

STA. 616+38.00 S.R. 65
STA. 130+00.00 MARIVIEW DRIVE
N 776790.5641
E 1705610.1362

Match Line Sta 614+00 See Sht No. 104

S.R. 65

MARIVIEW DRIVE

WALLING ROAD

OLD U.S. 431

WILLIAM A. DAVISON PKWY

N 21° 54' 26" E

N 5° 37' 43" E

1'-T-DIV CHANNEL W/ 4:1 SLOPES (GEOTEXTILE TYPE III)

RIP-RAP

STREAM RELOCATION (STR-9)

UNNAMED TRIBUTARY (STR-15)

WWC-14/EPH-14

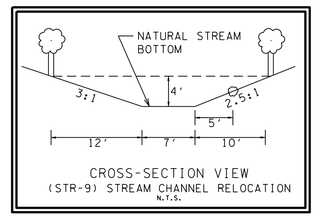
WWC-13/EPH-13

OUT - 120

OUT - 121

CONTRACTOR SHALL PERFORM MAJOR CUT AND FILL OPERATIONS FROM STA. 610+50 TO STA. 624+17± DURING THIS STAGE.

NOTE:
CONTRACTOR SHALL DIVERT EX. STREAM TO STABILIZED STREAM RELOCATION PRIOR TO MAJOR EARTHWORK OPERATIONS.



CROSS-SECTION VIEW
(STR-9) STREAM CHANNEL RELOCATION
N.T.S.

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN STAGE II

STA. 614+00 TO END OF PROJ.

SCALE: 1"= 50'

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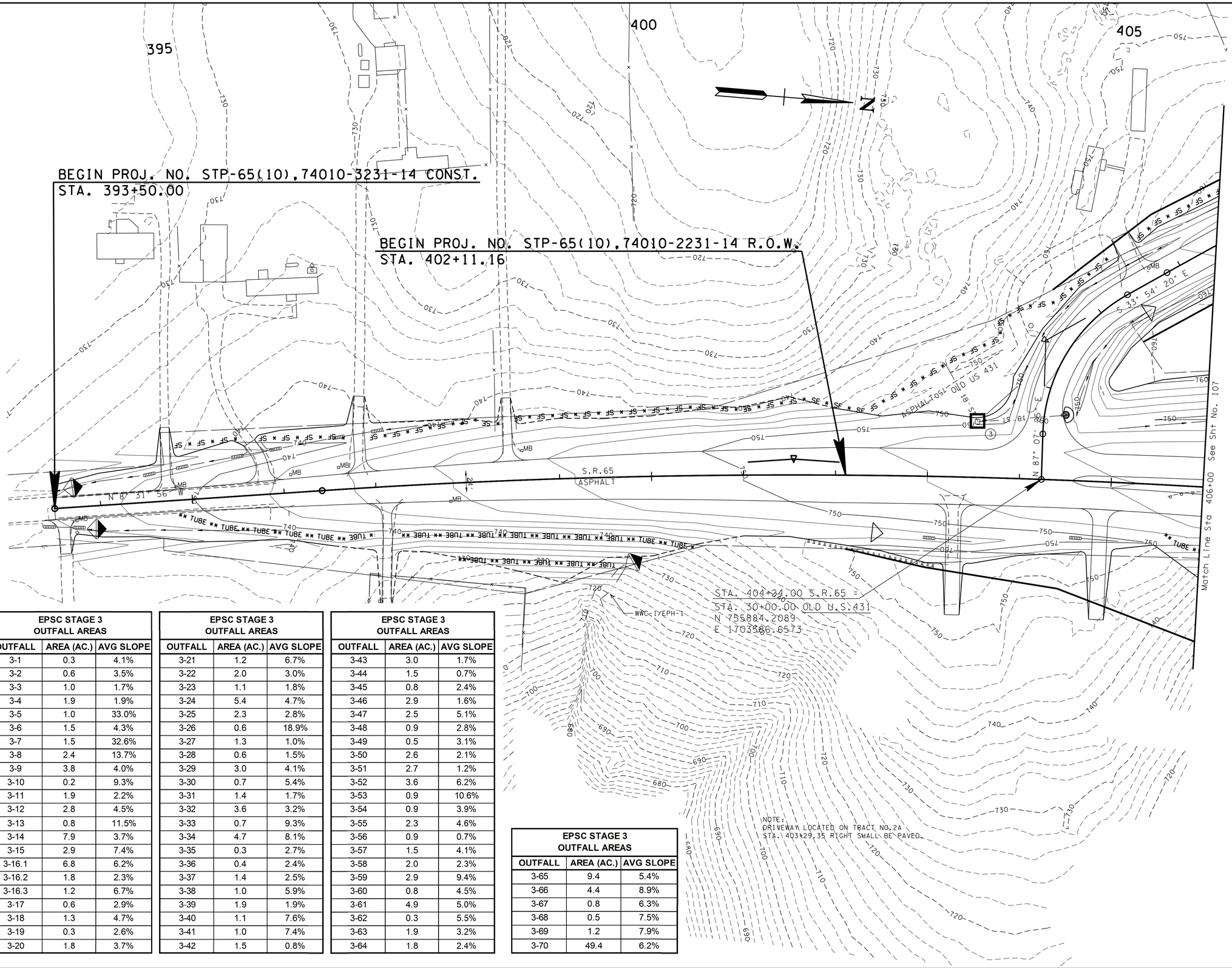
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	101
CONST.	2017	STP-65(10)	106



EPSC STAGE 3 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
3-1	0.3	4.1%
3-2	0.6	3.5%
3-3	1.0	1.7%
3-4	1.9	1.9%
3-5	1.0	33.0%
3-6	1.5	4.3%
3-7	1.5	32.6%
3-8	2.4	13.7%
3-9	3.8	4.0%
3-10	0.2	9.3%
3-11	1.9	2.2%
3-12	2.8	4.5%
3-13	0.8	11.5%
3-14	7.9	3.7%
3-15	2.9	7.4%
3-16.1	6.8	6.2%
3-16.2	1.8	2.3%
3-16.3	1.2	6.7%
3-17	0.6	2.9%
3-18	1.3	4.7%
3-19	0.3	2.6%
3-20	1.8	3.7%

EPSC STAGE 3 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
3-21	1.2	6.7%
3-22	2.0	3.0%
3-23	1.1	1.8%
3-24	5.4	4.7%
3-25	2.3	2.8%
3-26	0.6	18.9%
3-27	1.3	1.0%
3-28	0.6	1.5%
3-29	3.0	4.1%
3-30	0.7	5.4%
3-31	1.4	1.7%
3-32	3.6	3.2%
3-33	0.7	9.3%
3-34	4.7	8.1%
3-35	0.3	2.7%
3-36	0.4	2.4%
3-37	1.4	2.5%
3-38	1.0	5.9%
3-39	1.9	1.9%
3-40	1.1	7.6%
3-41	1.0	7.4%
3-42	1.5	0.8%

EPSC STAGE 3 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
3-43	3.0	1.7%
3-44	1.5	0.7%
3-45	0.8	2.4%
3-46	2.9	1.6%
3-47	2.5	5.1%
3-48	0.9	2.8%
3-49	0.5	3.1%
3-50	2.6	2.1%
3-51	2.7	1.2%
3-52	3.6	6.2%
3-53	0.9	10.6%
3-54	0.9	3.9%
3-55	2.3	4.6%
3-56	0.9	0.7%
3-57	1.5	4.1%
3-58	2.0	2.3%
3-59	2.9	9.4%
3-60	0.8	4.5%
3-61	4.9	5.0%
3-62	0.3	5.5%
3-63	1.9	3.2%
3-64	1.8	2.4%

EPSC STAGE 3 OUTFALL AREAS		
OUTFALL	AREA (AC.)	AVG SLOPE
3-65	9.4	5.4%
3-66	4.4	8.9%
3-67	0.8	6.3%
3-68	0.5	7.5%
3-69	1.2	7.9%
3-70	49.4	6.2%

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DEPARTMENT OF TRANSPORTATION

EPSC PLAN STAGE III

BEG. OF PROJ. TO STA. 406+00

SCALE: 1"= 50'

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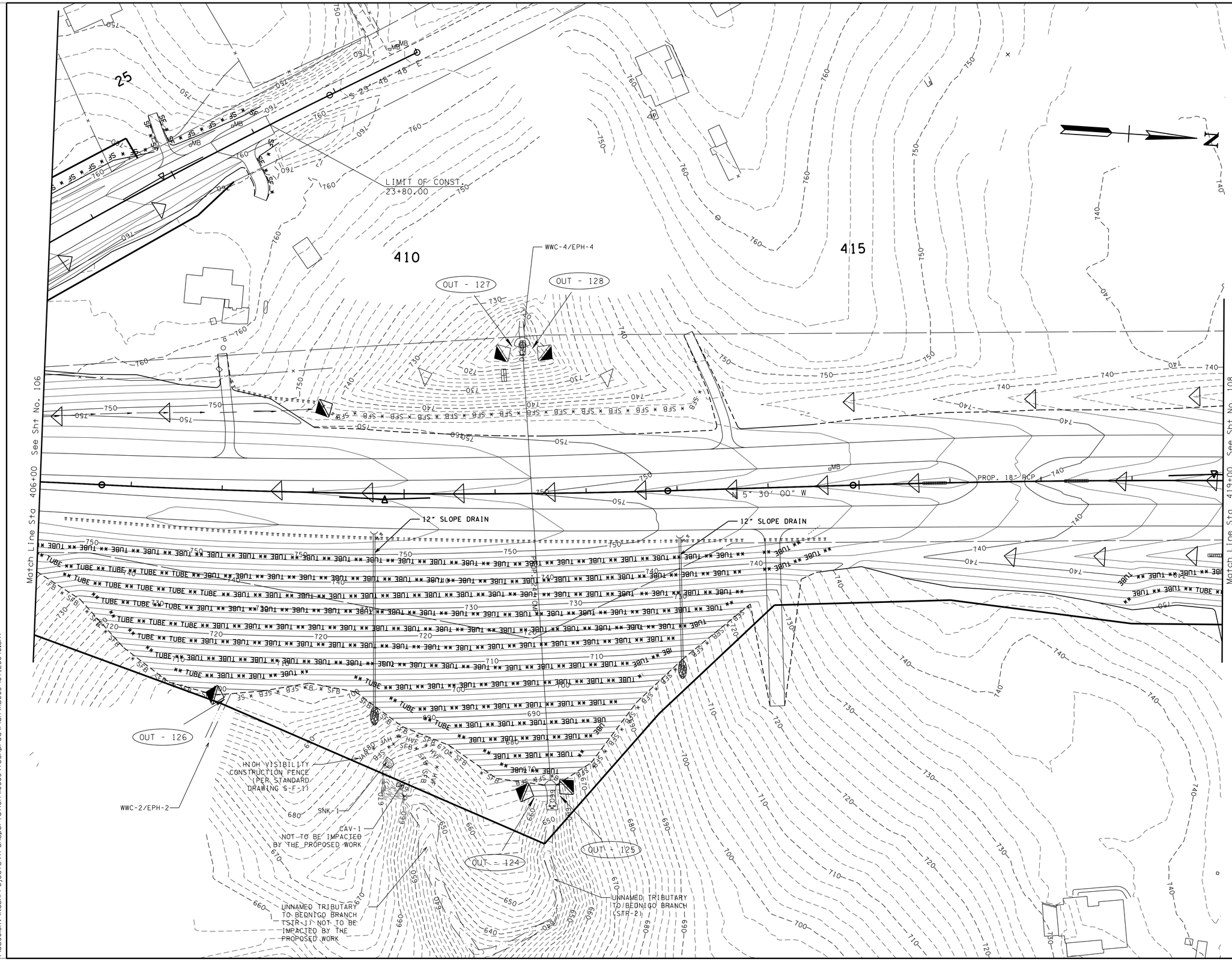
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	102
CONST.	2017	STP-65(10)	107



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN STAGE III

STA. 406+00 TO STA. 419+00

SCALE: 1"= 50'

6/3/2017 10:20:45 PM
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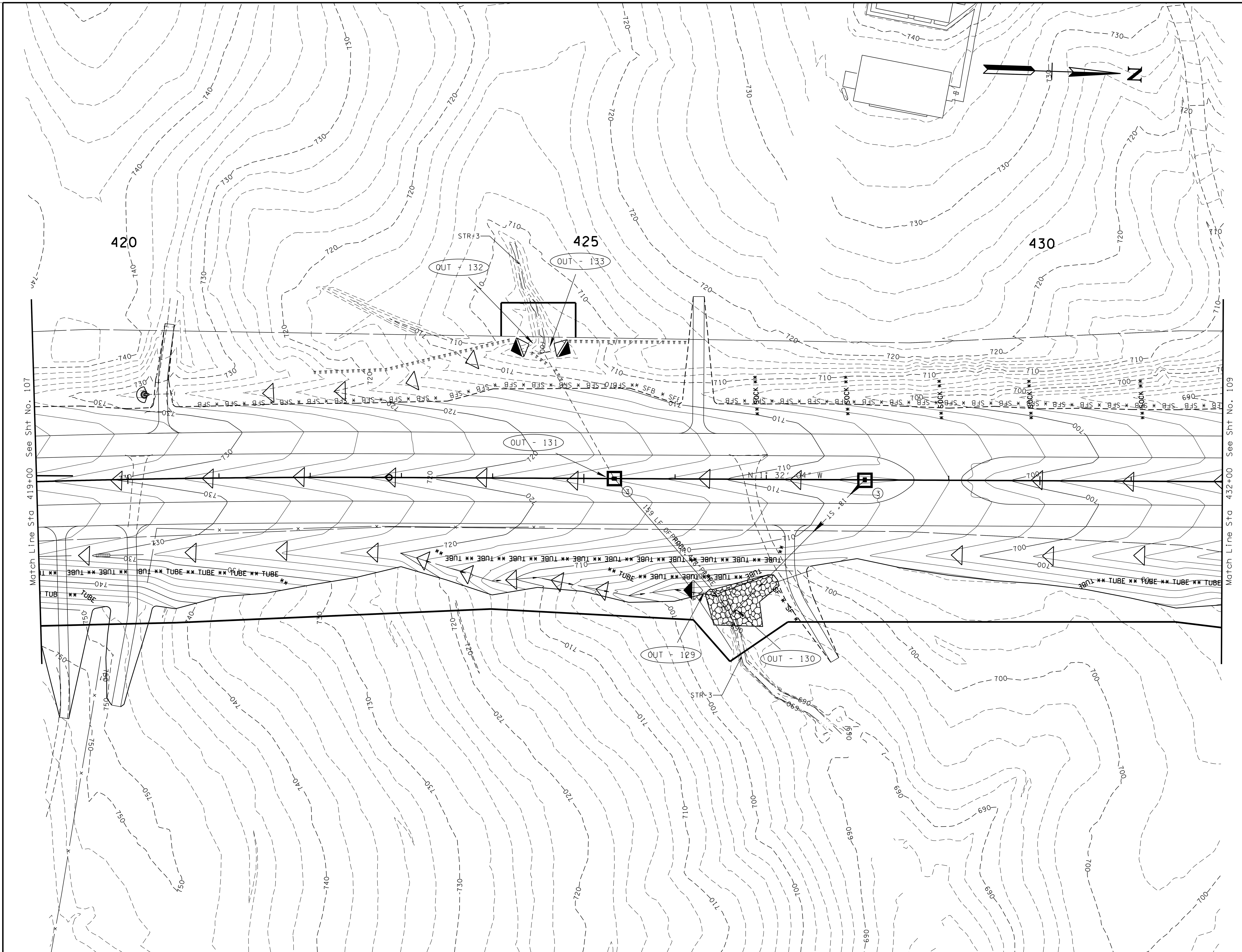
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	103
CONST.	2017	STP-65(10)	108



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN
STAGE III

STA. 419+00 TO STA. 432+00

SCALE: 1″= 50′

6/3/2017 10:20:51 PM
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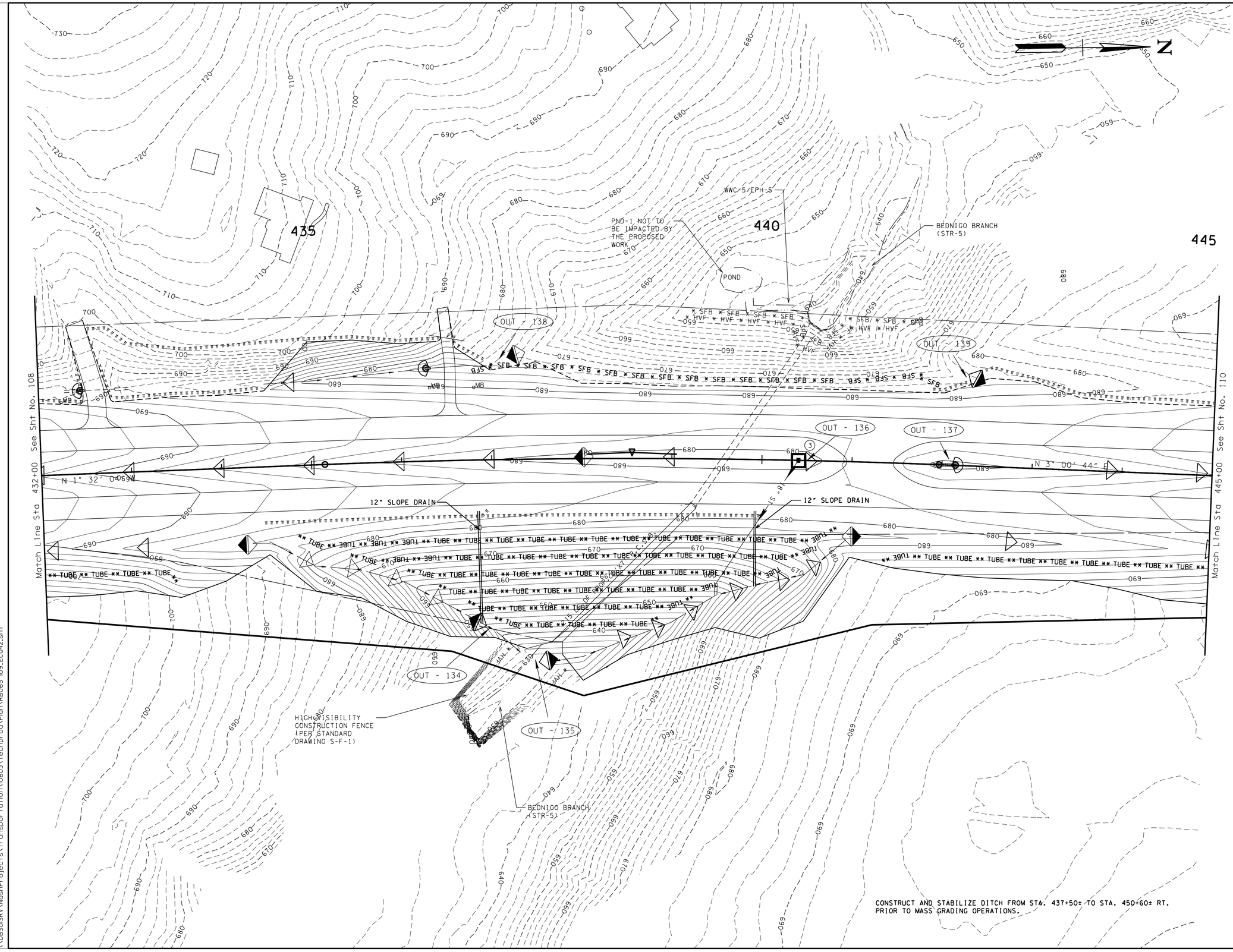
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	104
CONST.	2017	STP-65(10)	109



CONSTRUCT AND STABILIZE DITCH FROM STA. 437+50± TO STA. 450+60± RT. PRIOR TO MASS GRADING OPERATIONS.

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STATE OF TENNESSEE
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EPSC PLAN STAGE III

STA. 432+00 TO STA. 445+00

SCALE: 1"= 50'

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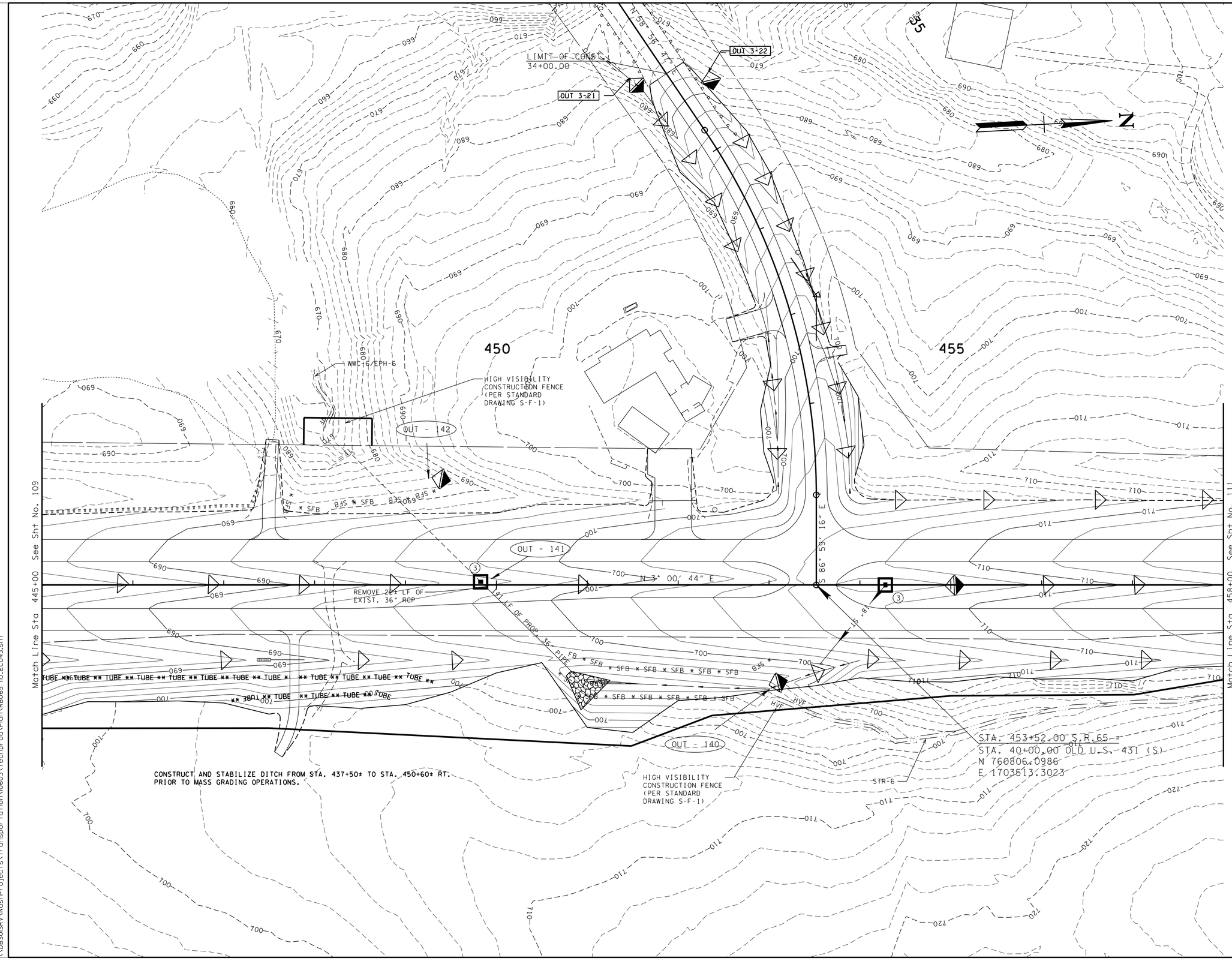
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	105
CONST.	2017	STP-65(10)	110



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN STAGE III

STA. 445+00 TO STA. 458+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	106
CONST.	2017	STP-65(10)	111

460

465

470

OUT - 143

OUT - 144

Match Line Sta 458+00 See Sht No. 110

Match Line Sta 471+00 See Sht No. 112

12 LF OF PROP. 24" PIPE

N 3° 00' 44" E

140 LF OF PROP. 24" PIPE

INSTALL 24" PIPE

PROP. 18" PIPE

S 85° 04' 35" E

STR-6

WTL-1

LAKE

STA. 464+20.00 S.R.65 =
STA. 50+00.00 OLD U.S. 431N
N 761872.2986
E 1703574.4845

N 63° 19' 50" E

55

LIMIT OF CONST.
55+00.00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN STAGE III

STA. 458+00 TO STA. 471+00

SCALE: 1"= 50'

6/3/2017 10:21:10 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	107
CONST.	2017	STP-65(10)	112

REV. 12-15-15: REVISED THE LIMIT OF CONSTRUCTION ON MT. SHARON ROAD.

Match Line Sta 471+00 See Sht No. 111

Match Line Sta 484+00 See Sht No. 113

LIMIT OF CONST. 36+30.00

WTL-2

S 51° 38' 03" E

PROP. 18" PIPE EXTENSION

STR-7

OUT - 151

OUT - 150

OUT - 149

OUT - 147

OUT - 148

OUT - 145

OUT - 146

475

480

55

STA. 472+10.00 S.R.65 =
STA. 60+00.00 MT. SHARON RD.
N 762656.2521
E 1703671.2234

WWC-7/EPH-7

S.R. 65

N 7° 46' 40" E

S 82° 13' 20" E

REMOVE 34± LF OF EXIST. 30" RCP

PROP. 30" PIPE

REMOVE 53± LF OF EXIST. 30" RCP

PROP. 18" PIPE

CONSTRUCT AND STABILIZE DITCH FROM STA. 480+00± TO. STA. 489+00± LT. PRIOR TO MAJOR FILL OPERATIONS.

CONSTRUCT AND STABILIZE DITCH FROM STA. 474+50± TO STA. 483+00± RT. PRIOR TO MAJOR FILL OPERATIONS.

UNNAMED TRIBUTARY TO BEDNIGO/BRANCH (STR-7)

STR-7: NOT TO BE IMPACTED BY PROPOSED WORK

HIGH VISIBILITY CONSTRUCTION FENCE (PER STANDARD DRAWING S-F-1)

UNNAMED TRIBUTARY TO BEDNIGO/BRANCH (STR-8) NOT TO BE IMPACTED BY THE PROPOSED WORK

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EPSC PLAN STAGE III

STA. 471+00 TO STA. 484+00

SCALE: 1"= 50'

6/3/2017 10:28:18 PM
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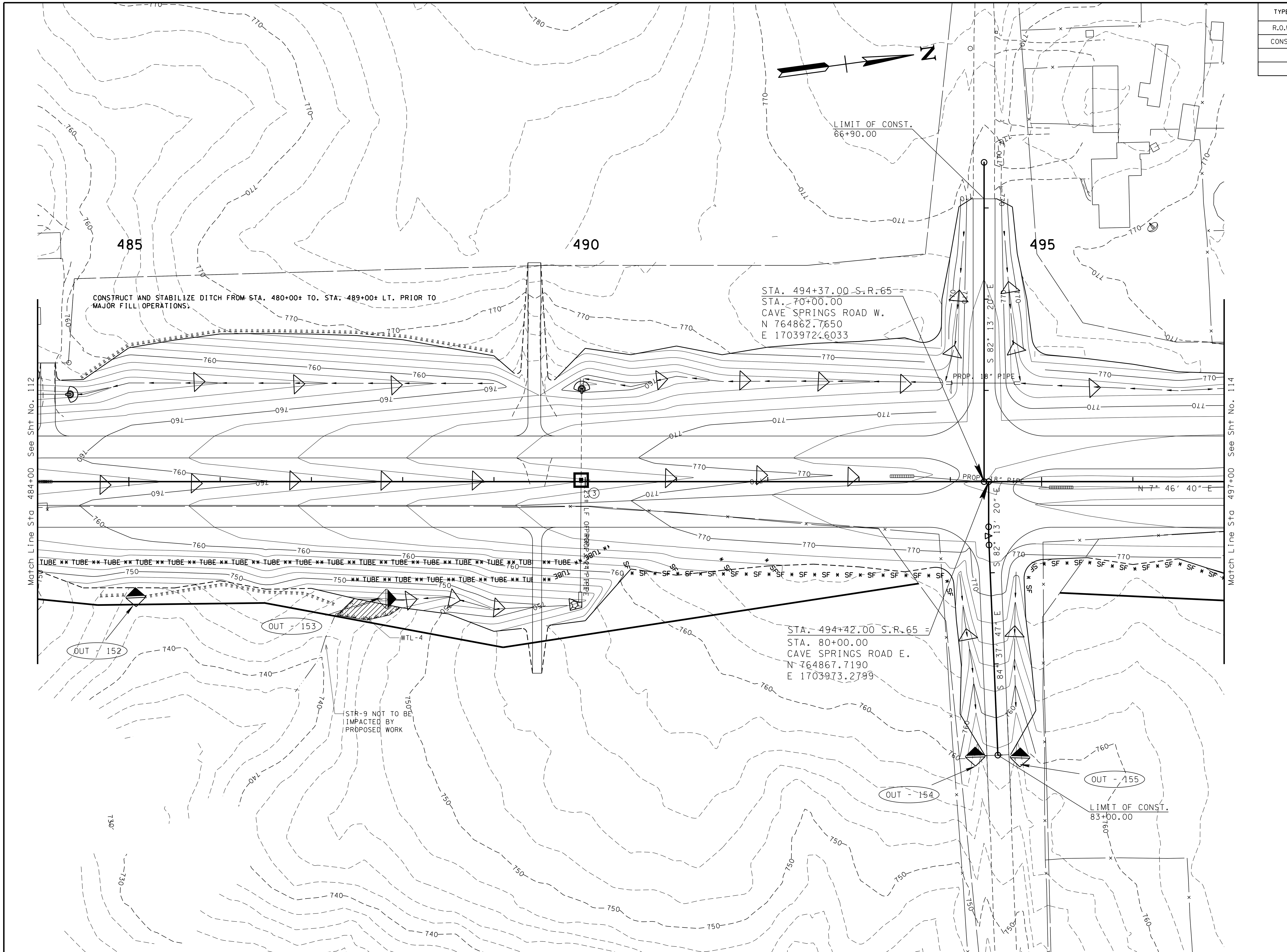
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	108
CONST.	2017	STP-65(10)	113



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN
STAGE III

STA. 484+00 TO STA. 497+00

SCALE: 1"= 50'

6/3/2017 10:21:24 PM
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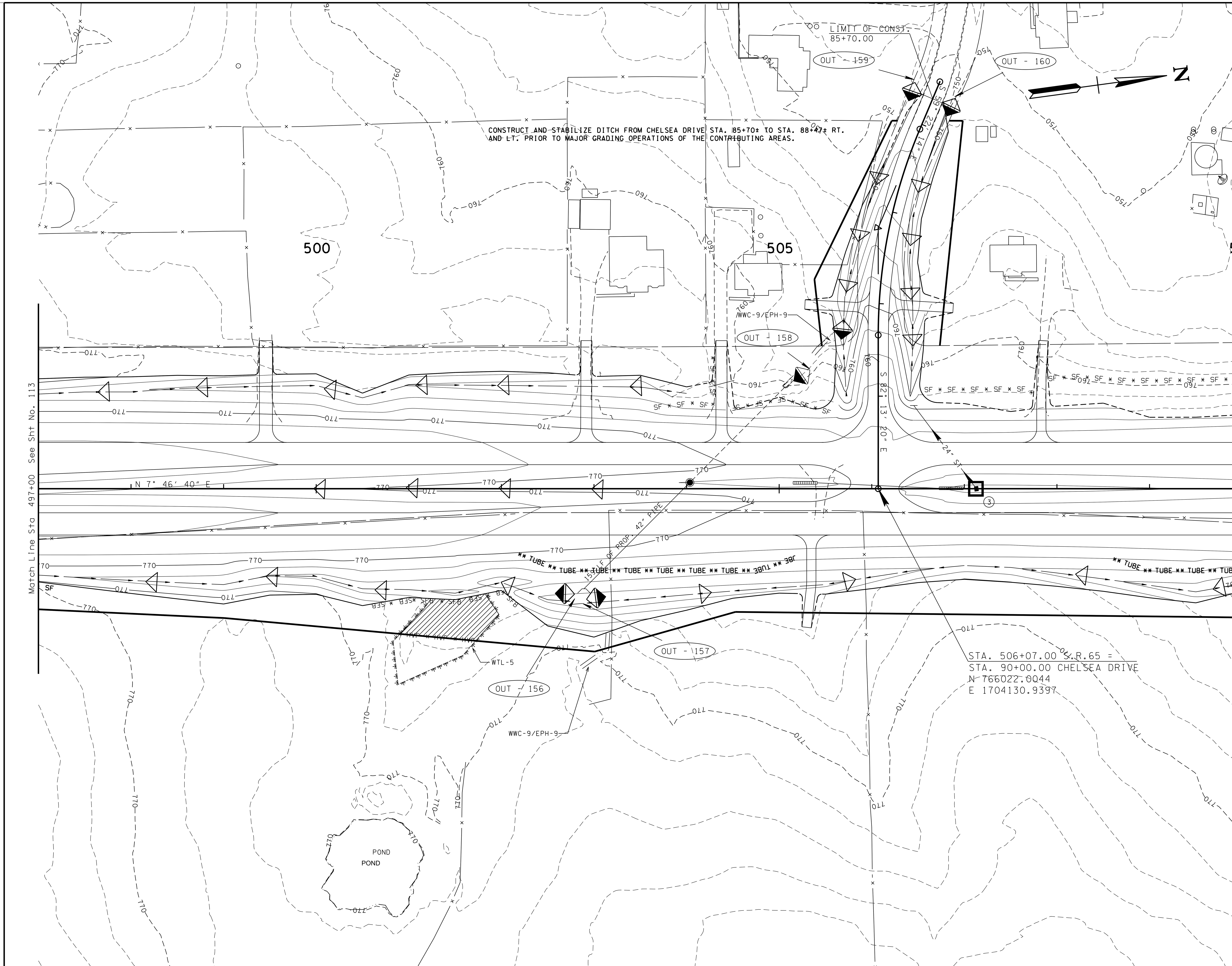
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	109
CONST.	2017	STP-65(10)	114



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EPSC PLAN
STAGE III

STA. 497+00 TO STA. 510+00

SCALE: 1"= 50'

6/3/2017 10:21:30 PM
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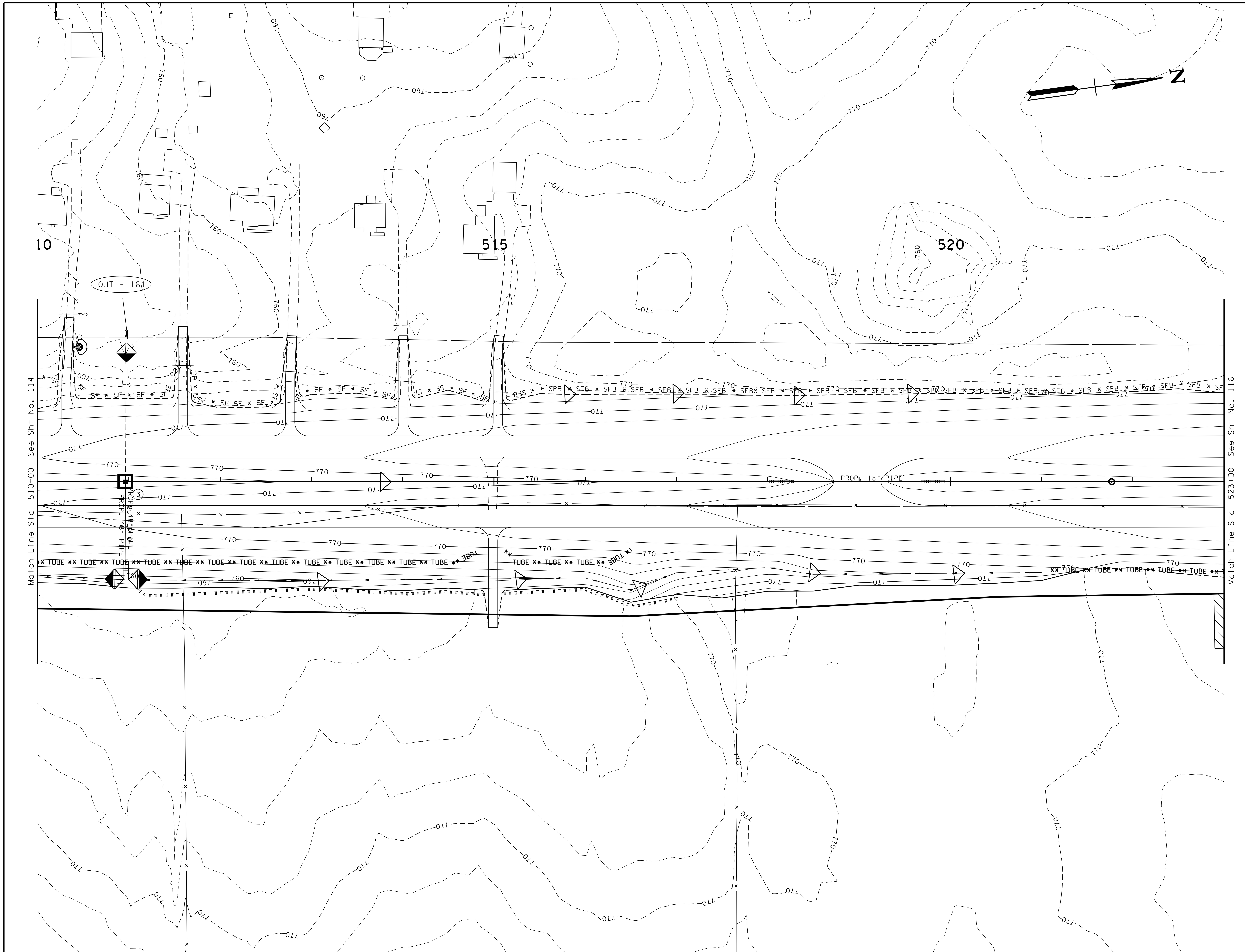
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	110
CONST.	2017	STP-65(10)	115



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STATE OF TENNESSEE
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EPSC PLAN
STAGE III

STA. 510+00 TO STA. 523+00

SCALE: 1"= 50'

6/3/2017 10:21:37 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	111
CONST.	2017	STP-65(10)	116

N

525

530

535

Match Line Sta 96+00 See Sht No. 117

Match Line Sta 523+00 See Sht No. 115

Match Line Sta 536+00 See Sht No. 118

Match Line Sta 104+00 See Sht No. 117

SIA. 531+83.00 S.R.65 =
SIA. 100+00.000 S.R.257
N 768580.9401
E 1704391.5372

101 LF OF PROP. 24" PIPE

PROP. 24" PIPE

PROP. 18" PIPE

S 82° 04' 35" E

N 1° 51' 48" W

PROP. 15" RCP

OUT - 102

POND

WTL-6

MB

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EPSC PLAN STAGE III

STA. 523+00 TO STA. 536+00

SCALE: 1"= 50'

6/3/2017 (02):44 PM
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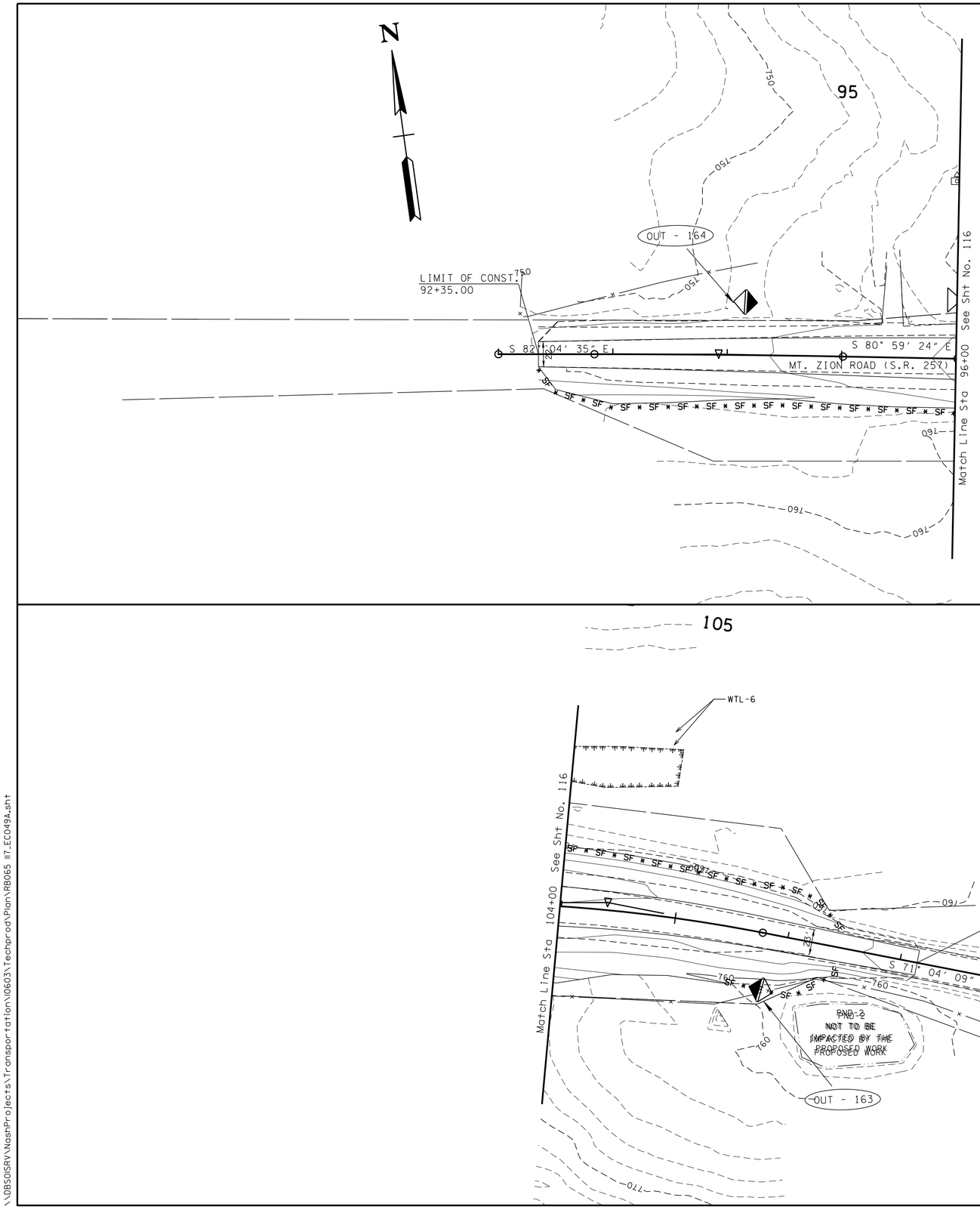
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	111A
CONST.	2017	STP-65(10)	117



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EPSC PLAN STAGE III

S.R. 257

SCALE: 1"= 50'

6/3/2017 10:25:51 PM
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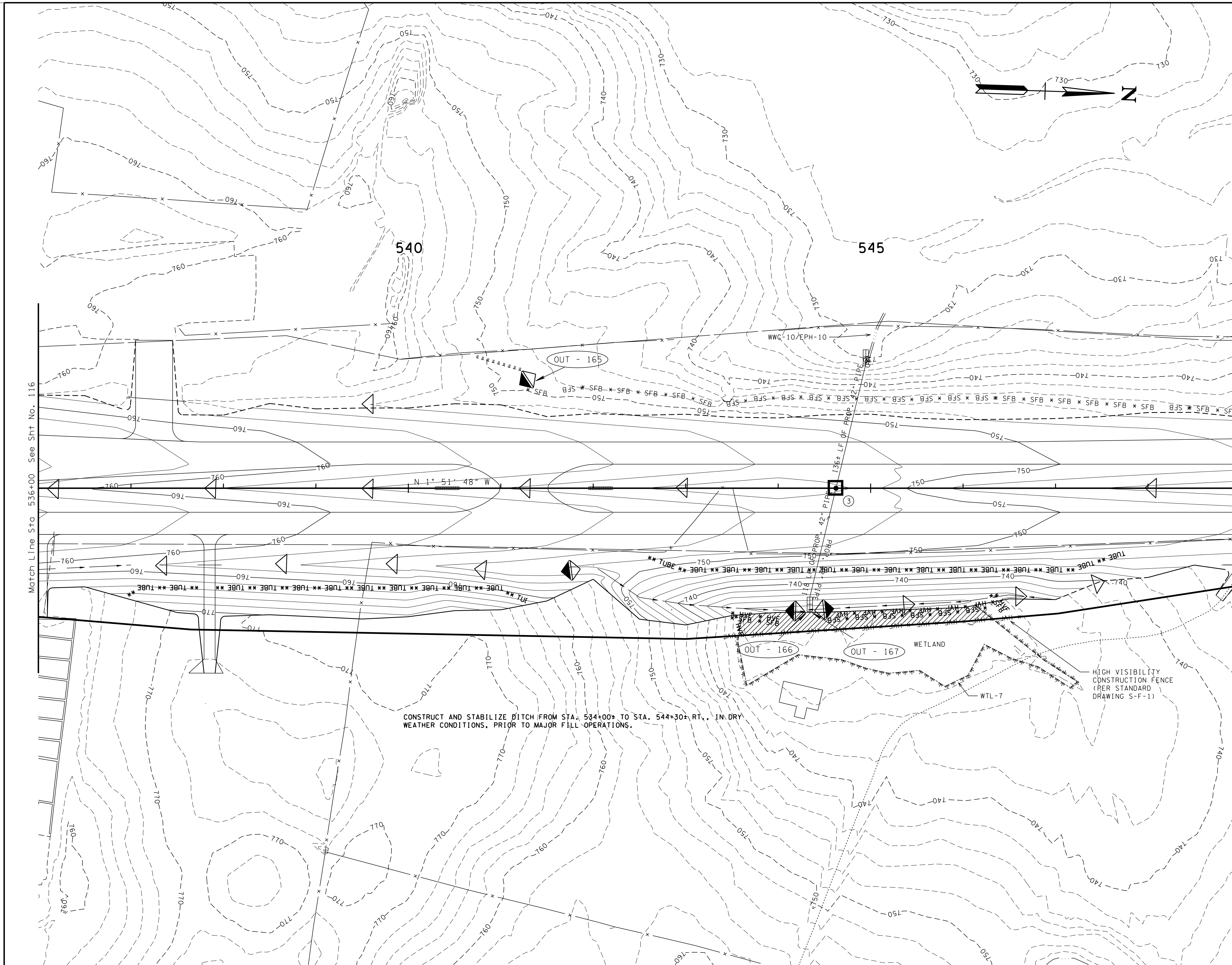
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	112
CONST.	2017	STP-65(10)	118



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EPSC PLAN
STAGE III

STA. 536+00 TO STA. 549+00

SCALE: 1″= 50′

6/3/2017 10:22:03 PM
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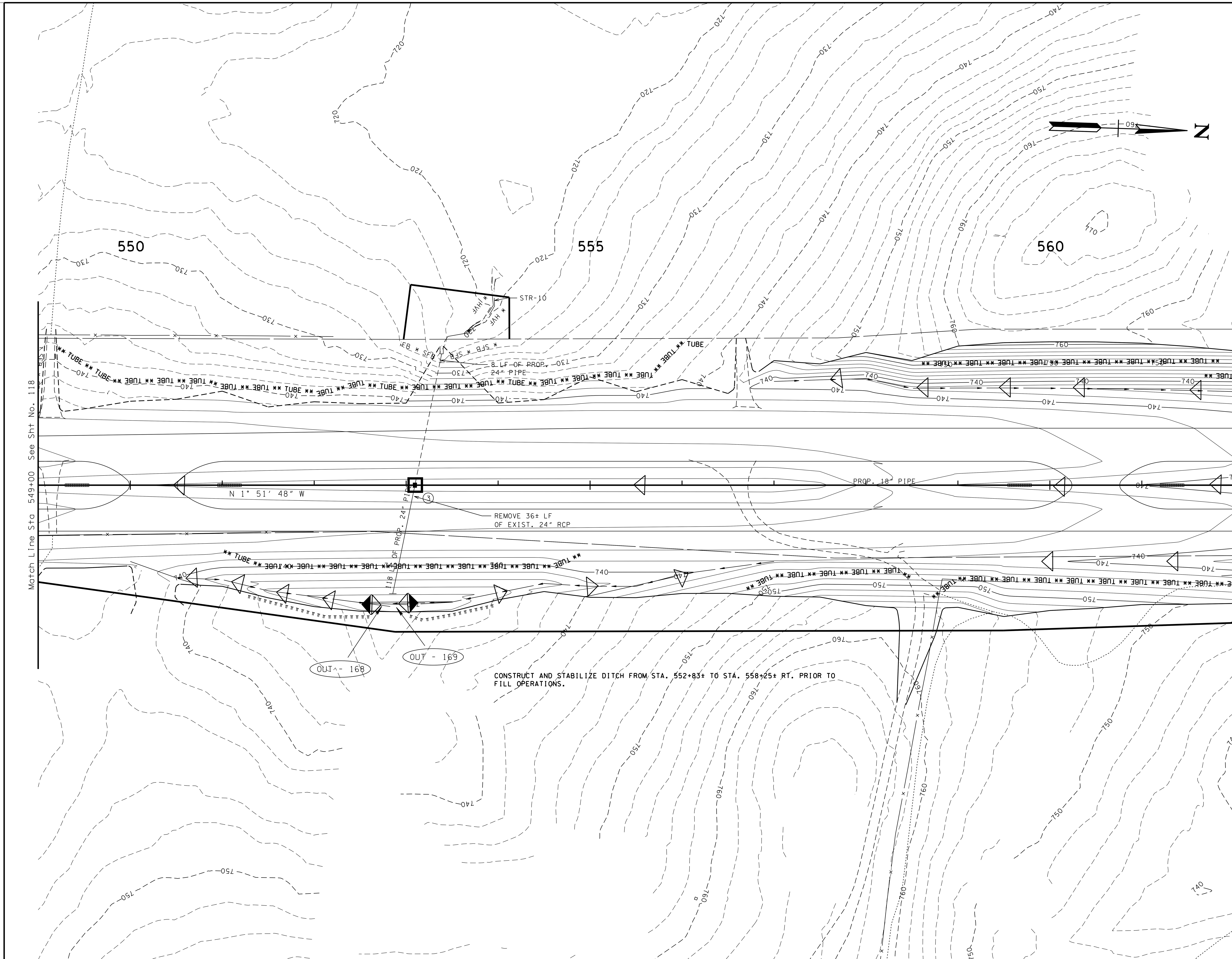
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	113
CONST.	2017	STP-65(10)	119



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STATE OF TENNESSEE
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EPSC PLAN STAGE III

STA. 549+00 TO STA. 562+00

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	114
CONST.	2017	STP-65(10)	120

565

570

Match Line Sta 562+00 See Sht No. 119

Match Line Sta 575+00 See Sht No. 121

N 1° 51' 48" W

18" S.T.

222 LF OF PROP. 36" PIPE

220 LF OF PROP. RCP CLASS V PIPE

** TUBE ** TUBE ** TUBE **

SFB * SFB * SFB * SFB * SFB

HWF * HWF * HWF

PND-3 NOT TO BE IMPACTED BY THE PROPOSED WORK

OUT - 170

OUT - 171

STR-11

WWC-11/SPH11

POND

CONSTRUCT AND STABILIZE DITCH FROM STA. 572+89± TO STA. 575+50± RT. PRIOR TO FILL OPERATIONS.

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EPSC PLAN STAGE III

STA. 562+00 TO STA. 575+00

SCALE: 1"= 50'

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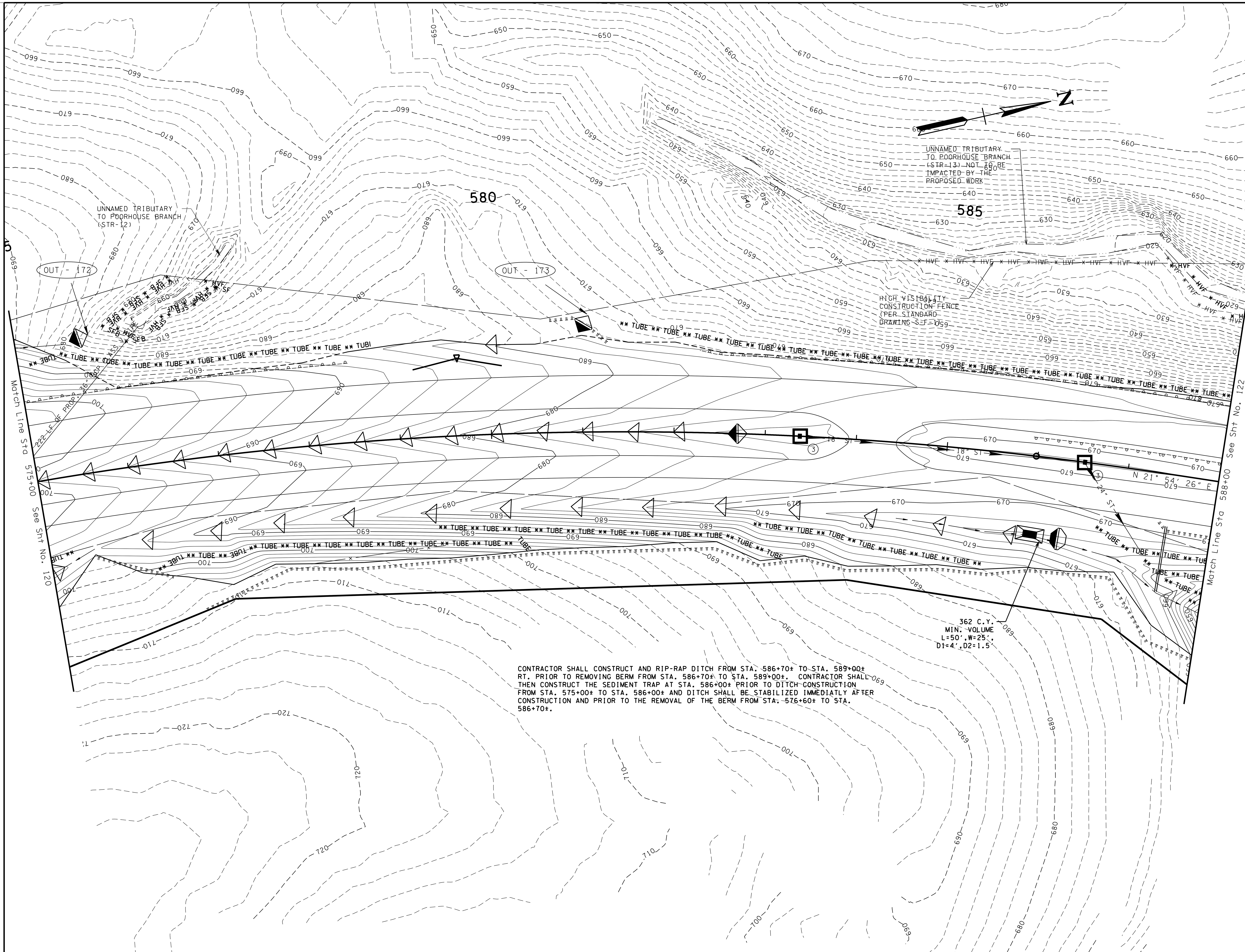
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	115
CONST.	2017	STP-65(10)	121



CONTRACTOR SHALL CONSTRUCT AND RIP-RAP DITCH FROM STA. 586+70± TO STA. 589+00± RT. PRIOR TO REMOVING BERM FROM STA. 586+70± TO STA. 589+00±. CONTRACTOR SHALL THEN CONSTRUCT THE SEDIMENT TRAP AT STA. 586+00± PRIOR TO DITCH CONSTRUCTION FROM STA. 575+00± TO STA. 586+00± AND DITCH SHALL BE STABILIZED IMMEDIATLY AFTER CONSTRUCTION AND PRIOR TO THE REMOVAL OF THE BERM FROM STA. 576+60± TO STA. 586+70±.

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN STAGE III

STA. 575+00 TO STA. 588+00

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	116
CONST.	2017	STP-65(10)	122

UNNAMED TRIBUTARY TO POORHOUSE BRANCH (STR-13)

OUT - 176

UNNAMED TRIBUTARY TO POORHOUSE BRANCH (STR-13) NOT TO BE IMPACTED BY THE PROPOSED WORK

590

CONSTRUCT AND STABILIZE DITCH FROM W. COUNTY FARM RD. STA. 105+70± TO STA. 108+50± LT. IN DRY WEATHER CONDITIONS.

LIMIT OF CONST. 105+70.00

OUT - 178

595

OUT - 177

600

LIMIT OF CONST. 118+00.00

CONSTRUCT AND STABILIZE DITCH FROM HENDERSON ROAD STA. 118+00± TO STA. 119+50± LT. IN DRY WEATHER CONDITIONS.

STA. 107+40.00 W. COUNTY FARM ROAD
STA. 120+00.00 HENDERSON ROAD
N 775063.8617
E 1704644.9573

OUT B-67

STA. 597+25.00 S.R.65
STA. 110+00.00
W. COUNTY FARM ROAD
N 775015.7045
E 1704896.3837

HIGH VISIBILITY CONSTRUCTION FENCE PER STANDARD DRAWING S-F-1)

55± LF OF STREAM TRANSITION

PROP. 72" PIPE

42 LF OF PROP. 8'x5' R.C.S.B.

N 21° 54' 26" E

S 68° 05' 34" E

25± LF OF STREAM TRANSITION

CONSTRUCT AND STABILIZE DITCH FROM STA. 589+60± TO STA. 598+50± RT. PRIOR TO FILL OPERATIONS.

OUT - 174

OUT - 175

UNNAMED TRIBUTARY TO POORHOUSE BRANCH (STR-14)

Match Line Sta 588+00 See Sht No. 121

Match Line Sta 601+00 See Sht No. 123

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EPSC PLAN STAGE III

STA. 588+00 TO STA. 601+00

SCALE: 1"= 50'

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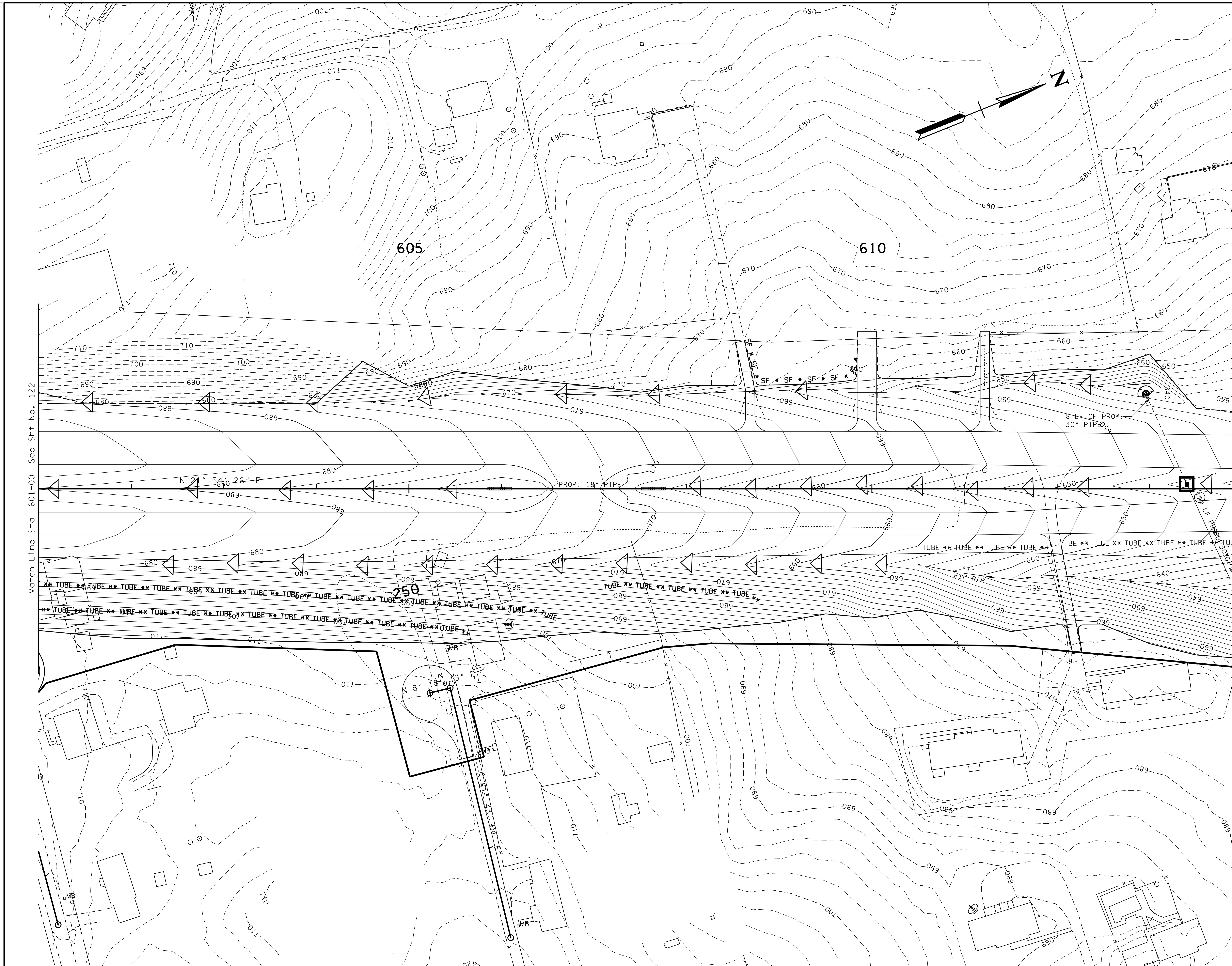
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	117
CONST.	2017	STP-65(10)	123



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EPSC PLAN
STAGE III

STA. 601+00 TO STA. 614+00

SCALE: 1"= 50'

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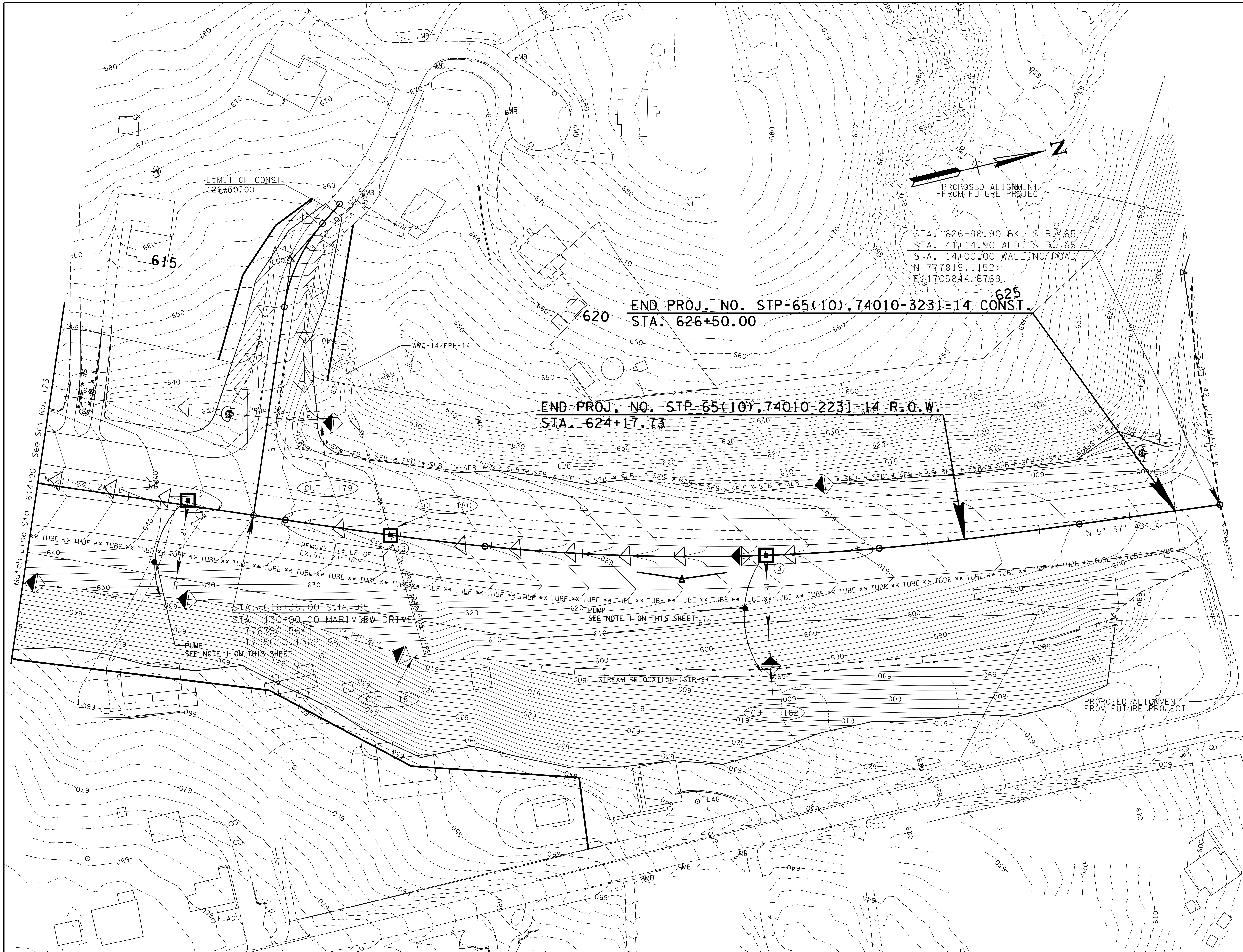
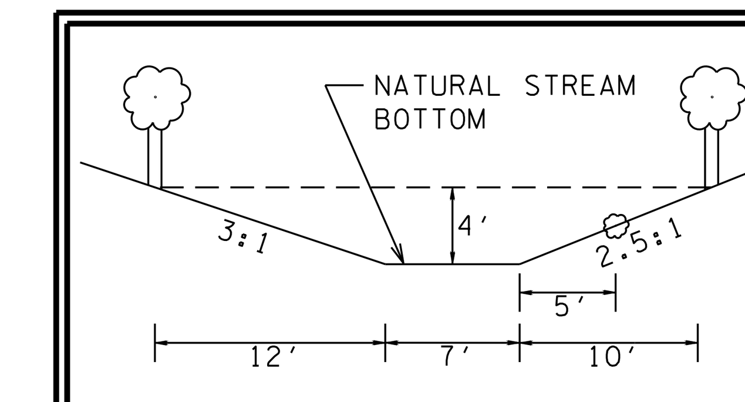
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-65(10)	118
CONST.	2017	STP-65(10)	124



NOTE 1: DURING A HEAVY STORM EVENT, THE CONTRACTOR SHALL PUMP PONDED STORM WATER AS NEEDED TO PREVENT OVERTOPPING THE ENBANKMENT.



CROSS-SECTION VIEW
(STR-9) STREAM CHANNEL RELOCATION
N.T.S.

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DEPARTMENT OF TRANSPORTATION

EPSC PLAN
STAGE III

STA. 614+00 TO END OF PROJ.

SCALE: 1" = 50'

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