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

Index Of Sheets
SEE SHEET IA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

CARTER COUNTY

STATE INDUSTRIAL ACCESS ROAD (SIA)

SERVING NCI (STAR BUILDING SYSTEMS)

CONSTRUCTION

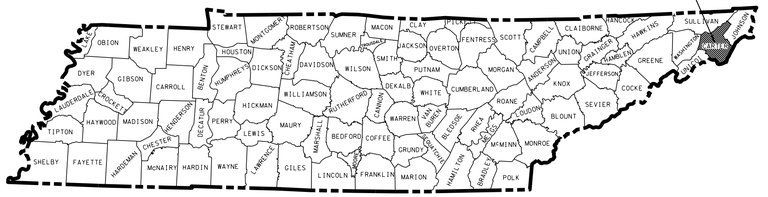
STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A

NOTE:
THE YEAR 2015 APPLICABLE TO ALL PLAN SHEETS.

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	10946-3401-04	

REV. 12-03-13: REVISED YEAR FROM 2013 TO 2014 ON NOTE, TRAFFIC DATA BLOCK, & SHEET.

PROJECT LOCATION



REV. 1-23-15: REVISED YEAR FROM 2014 TO 2015 ON NOTE, TRAFFIC DATA BLOCK, & SHEET. UPDATED STANDARD SPECIFICATIONS NOTE TO JANUARY 1, 2015.

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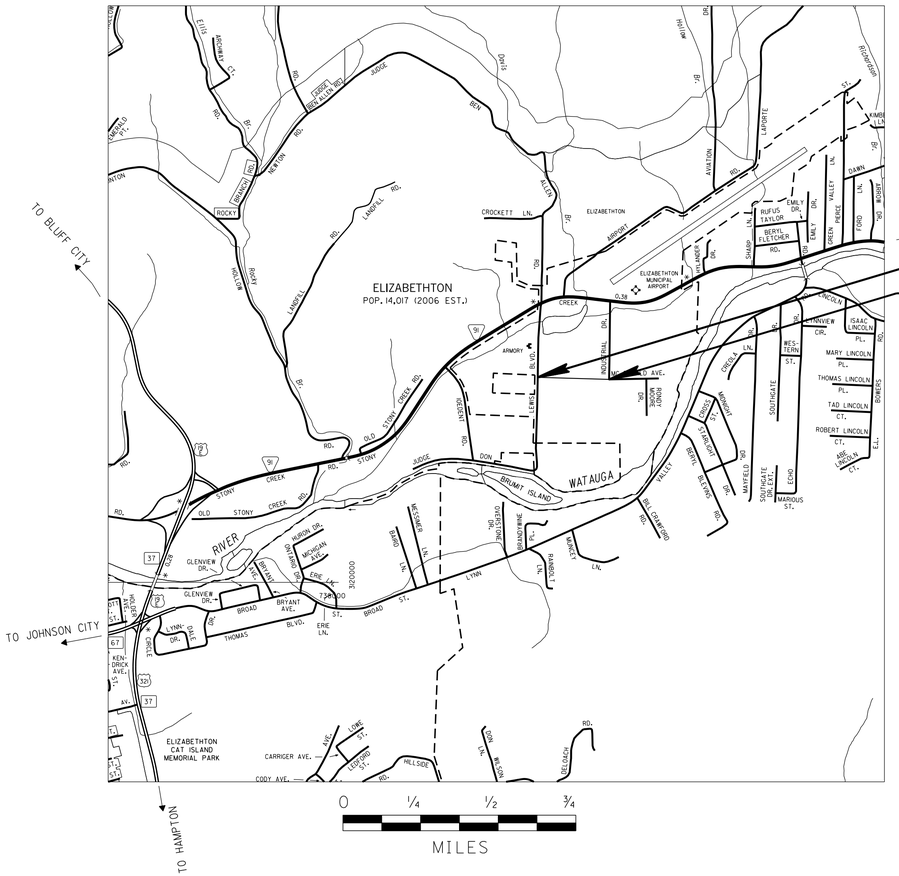
ROAD TO BE CLOSED DURING CONSTRUCTION

LOCAL GOVERNMENT TO ACQUIRE RIGHT-OF-WAY AND ADJUST UTILITIES



BEGIN 10946-3401-04 CONST.
STA. 10+12.23

END 10946-3401-04 CONST.
STA. 22+12.00

NO EXCLUSIONS
NO EQUATIONS

TRAFFIC DATA	
ADT (2015)	1500
ADT (2035)	2030
DHV (2035)	203
D	55 - 45
T (ADT)	7 %
T (DHV)	10 %
V	30 MPH

SEALED BY
ABAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106456
STATE OF TENNESSEE

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

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

TDOT ROAD SP. SV. 2 STEPHANIE STEWART

DESIGNER MATTHEW W CHANDLER CHECKED BY BRADLEY MARTIN, PE

P.E. NO. 10946-1401-04

PIN NO. 115368.00

ROADWAY LENGTH	0.227 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.227 MILES

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2012	10946-3401-04	1A

REV. 12-03-13: REVISED INDEX. DELETED STD. DWG. NOS D-PE-3B(1) &D-PE-3B(2). ADDED D-PB-3, D-PE-18A, & D-PE-18B. REVISED STD. DWG. NOS. D-PB-1, S-F-1, T-M-1, T-M-2, T-M-4, T-S-10, T-S-16, T-S-17, T-S-19, EC-STR-2, E-STR-3B, EC-STR-3C, & EC-STR-6.

REV. 1-23-15: UPDATED STANDARD DRAWINGS.

INDEX

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TYPICAL SECTIONS AND PAVING SCHEDULE	2A – 2B
GENERAL NOTES AND SPECIAL NOTES	2C – 2E
TABULATED QUANTITIES	2F
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES	3, 3A
PRESENT LAYOUTS	4 - 5
PROPOSED LAYOUTS	4A - 5A
PROPOSED PROFILES	4B - 5B
DRAINAGE MAPS	6 – 6A
PRIVATE DRIVE PROFILES	7
CULVERT SECTIONS	8
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS	9 -9C
TRAFFIC CONTROL PLANS	10
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UTILITIES INDEX	U1-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1

"NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS"

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-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-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
DRAINAGE - CULVERTS AND ENDWALL		
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-4	01-15-13	STRAIGHT CONCRETE ENDWALL"
D-PE-18A	06-14-13	18" CONCRRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRRETE ENDWALL CROSS DRAIN
SAFETY APPURTENANCES AND FENCE		
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-CZ-1		CLEAR ZONE CRITERIA
TRAFFIC CONTROL APPURTENANCES		
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-16	06-05-14	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE

DWG. NO	REV.	DESCRIPTION
T-S-18	02-14-14	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM

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INDEX AND STANDARD DRAWINGS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2012	10946-3401-04	2

REV. 12-03-13: REVISED ITEM NOS.611-07.01 & 611-07.02. ADDED ITEM NO. 611-07.54.

REV. 9-09-14: ADDED ITEM NO. 607-57.01. ADJUSTED QUANTITY ON ITEM NOS. 303-01, 307-01.08 AND 411-01.10.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	732
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	3238
	203-06	WATER	M.G.	8
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	257
	209-05	SEDIMENT REMOVAL	C.Y.	20
(1)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1125
(1)	209-08.07	ROCK CHECK DAM	EACH	4
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	3393
(1)(3)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	40
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	582
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	413
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	6
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	21
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	246
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	44
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	50
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	39
	607-57.01	REINFORCED CONCRETE PIPE ARCH (22" X 13")	L.F.	32
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	6
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	264
	707-08.01	FENCE (HIGH VISIBILITY CONSTRUCTION)	L.F.	500
(1)(2)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	47
(1)(5)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	156
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	6
	712-01	TRAFFIC CONTROL	LS	1
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	4
	712-06	SIGNS (CONSTRUCTION)	S.F.	74
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	56
	713-16.20	SIGNS (STOP SIGN)	EACH	2
	713-16.21	SIGNS (STOP AHEAD)	EACH	2
	716-13.06	SPRAY THERMO PVMT MRKNG (40 mil) (4IN LINE)	L.M.	1
	717-01	MOBILIZATION	LS	1
(1)(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	501
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	2120
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	6
	801-03	WATER (SEEDING & SODDING)	M.G.	47
	803-01	SODDING (NEW SOD)	S.Y.	4600

(1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT
(2) 47 TONS FOR CULVERT PROTECTION
(3) 40 TONS FOR CULVERT PROTECTION
(4) 349 SF FOR CONSTRUCTION ENTRANCES,152 SY FOR CULVERT PROTECTION
(5) 156 TONS FOR CONSTRUCTION ENTRANCES,

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ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
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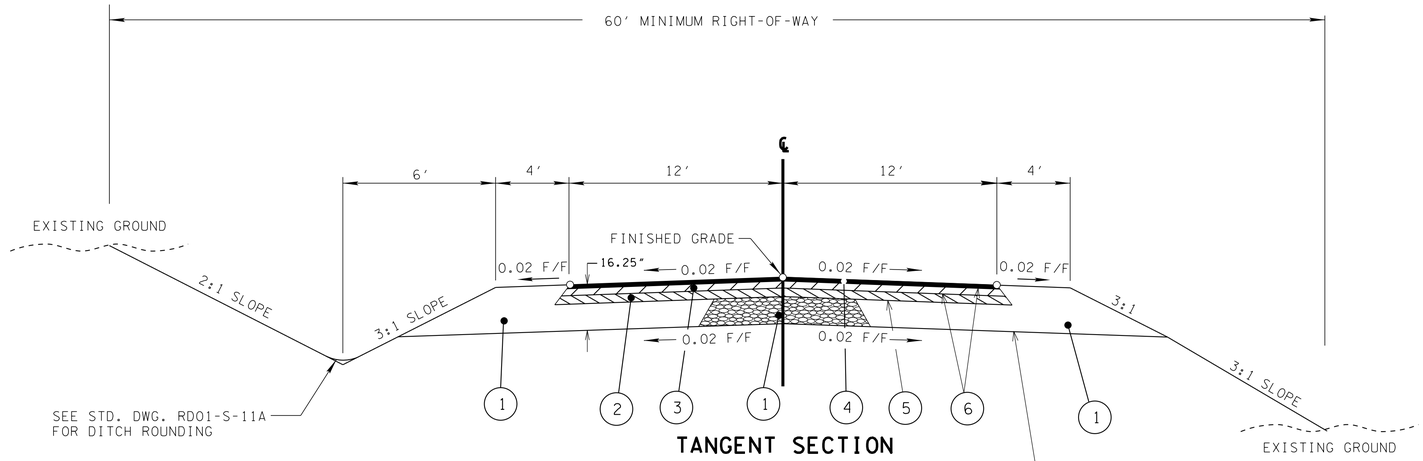
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	2
CONST	2012	10946-3401-04	2A

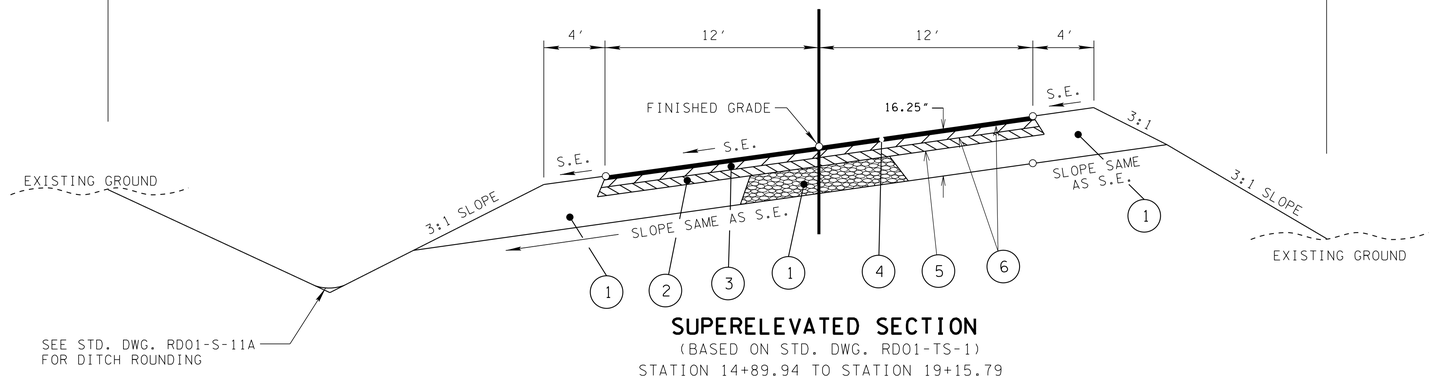


TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1)
STATION 10+12.23 TO STATION 14+89.94
STATION 19+15.79 TO STATION 22+12.00

TYPE IV GEOTEXTILE BETWEEN SUBGRADE AND BASE STONE AT STATION 10+12.23 TO STATION 14+89.94

Ⓐ THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1)
STATION 14+89.94 TO STATION 19+15.79

PROPOSED PAVEMENT SCHEDULE

(1) BASE STONE-10" THICK (FULL DEPTH UNDER SHLDR'S) 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	(4) SURFACE-1.25" THICK (APPROX. 132.50 LB/SQ.YD.) 411-01.10 ACS MIX(PG64-22) GRADING D
(2) BLACK BASE-3" THICK (APPROX. 345 LB/SQ.YD.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	(5) PRIME COAT 402-01 BIT. MATERIAL FOR PRIME COAT (PC) (0.30-0.35 GAL/SQ.YD.) 402-02 AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SQ.YD.)
(3) BINDER-2" THICK (APPROX. 226 LB/SQ.YD.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	(6) TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.02 GAL./SQ.YD.)

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ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TENNESSEE D.O.T.
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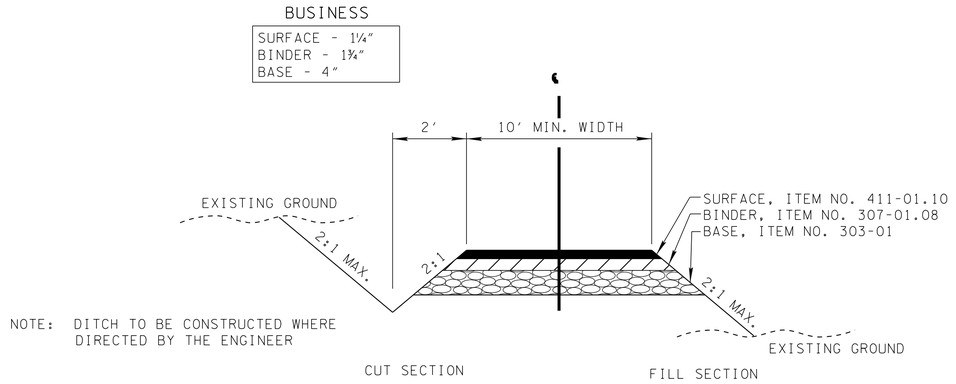
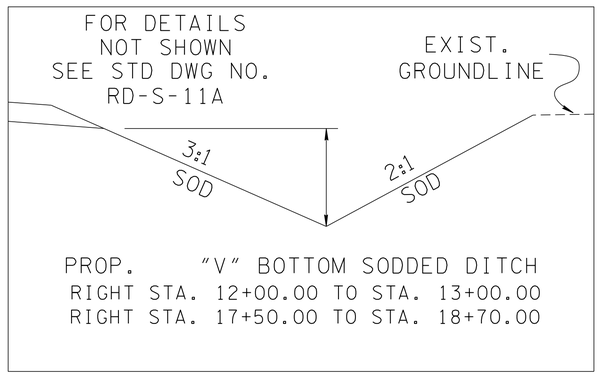
R.O.W.	2011	10946-2401-04	2A
CONST	2012	10946-3401-04	2B



TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY



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REGISTERED ENGINEER
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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F 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

(4) 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. .

DRAINAGE

(5) 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.

(6) EXCAVATION FOR PIPE CULVERTS 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).

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

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

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

UTILITIES (SEE SHEET 3)

MISCELLANEOUS

(10) 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

RIGHT - OF – WAY (SEE SHEET 3)

PAVEMENT MARKINGS

(11) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (40 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-13.06, SPRAY THERMO PVMT MRKNG (40 mil) (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(12) 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.

(13) 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.

(14) 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.

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

(16) 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.

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

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

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

(19) 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 INSTALLED.

(20) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(21) 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.

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

(23) 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.

SEDIMENT CONTROL

(24) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(25) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY 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.

(26) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. 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.

(27) 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.

(28) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(29) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

STREAM/WETLAND

(30) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST 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 STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(31) 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.

(32) INSTREAM EPSC DEVICES REQUIRE THE ENVIRONMENTAL DIVISION'S PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN TDEC, USACE, AND TVA PERMITS.

(33) THE OPERATION 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 REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2012	10946-3401-04	2C

REV. 12-03-13: UPDATED GENERAL NOTES.

REV. 1-23-15: UPDATED GENERAL NOTES.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2012	10946-3401-04	2D

REV. 12-03-13: UPDATED GENERAL NOTES.

REV. 1-23-15: UPDATED GENERAL NOTES.

GENERAL NOTES (CONT'D.)

STREAM/WETLAND (CONT'D.)

(35) THE OPERATION 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 REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(36) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

(37) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST 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 MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (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.

(38) HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT MUST BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED.

(39) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

SPECIES

(40) 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. THE SWPPP SHALL BE MODIFIED TO INCLUDE EPSC MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

INSPECTION, MAINTENANCE, REPAIR

(41) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

(42) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO 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 CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

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

(44) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(45) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(46) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(47) 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 TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(48) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS

(49) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

SWPPP, PERMITS, PLANS, RECORDS

(50) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(51) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, ROOADWAY 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.

(52) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(53) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, 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 BREIF 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.

(54) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROOADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(55) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION 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. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(56) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS 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. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(57) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

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 (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. 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.

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GENERAL NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2012	10946-3401-04	2E

REV. 12-03-13: UPDATED GENERAL NOTES.

REV. 1-23-15: UPDATED SPECIAL NOTES.

SPECIAL NOTES

GRADING

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

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

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

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(6) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 9, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

ECOLOGY

(7) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIES.

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

WETLANDS

(9) THE TOP 12 INCHES OF TOPSOIL IS TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCKPILED PRIOR TO CONSTRUCTION.

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 BE PRE-CONSTRUCTION ELEVATION.

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SPECIAL NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2012	10946-3401-04	2F

REV. 12-03-13: REVISED CROSS DRAIN TABULATION BLOCK.

REV. 9-09-14: ADDED SIDE DRAIN STA. 20+05.70 TO SIDE DRAIN TABULATION, ADJUSTED PAVEMENT QUANTITIES ON DRIVES IN THE PAVEMENT QUANTITIES TABULATION. CHANGED STD. DWG. NUMBER ON CROSS DRAIN STA. 12+50.00.

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) C.Y.	BORROW EXCAVATION		CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
		UNCL. - C.Y.	S. ROCK - C.Y.			
10+12.23 to 22+12.00	732	3238				3229
TOTALS	**732**	**3238**	**0**	**0**	**0**	**3229**

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS						
	303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)
SIA	3320.0	582.0	381.0	6.0	21.0	1.0	224.0
DRIVES	73.0	0.0	32.0	0.0	0.0	0.0	22.0
TOTALS	**3393.0**	**582.0**	**413.0**	**6.0**	**21.0**	**1.0**	**246.0**

SIDE DRAIN TABULATION

STATION	LOCATION LT	LOCATION RT	DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE (L.F.) FILL HEIGHT < OR = 10 FT. 18"	22"X 13"	30"	36"	48"	RCP CLASS III OR CMP 14 GA. OR HDPE (LF) FILL HEIGHT > 10 FT. AND < OR = 18 FT. 18"	24"	30"	36"	48"	END TREATMENT TYPE	DRAWING NO.	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	REMARKS
19+44.94	X		TRACT 6	15	39															
20+05.70		X	TRACT 7	25		32														
TOTALS					**39**	**32**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			**0**	**0**	**0**	

CROSS DRAIN TABULATION

STATION	RCP CLASS III OR CMP 12 GA. (L.F.) FILL HEIGHT < OR = 18 FT. 18"	24"	30"	36"	48"	SKEW	BEDDING MATERIAL (C.Y.) (1)	RIP-RAP (TON)	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	REMARKS
12+50.00	44					90	9.5	0	3B	D-PE-18A & 18B	3B	D-PE-18A & 18B	2.1	264	0	SIA
18+70.00		50				90	13.5	0	STR	D-PE-4	STR	D-PE-4	3.2	0	0	SIA
TOTALS	**44**	**0**	**0**	**0**	**0**		**23**	**0**					**6**	**264**	**0**	

(1) QUANTITIES SHOWN IN THE TABULATION ARE BASED RCP; QUANTITIES USED IN THE FIELD WILL BE BASED ON THE PIPE ALTERNATE SELECTED BY CONTRACTOR. STANDARD DRAWING D-PB-1 WILL SUPPLY THE APPROPRIATE FACTOR TO CALCULATE THE BEDDING QUANTITIES NEEDED. COST OF BEDDING MATERIAL TO BE INCLUDED IN COST OF PIPE.

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AGRICULTURE
COMMERCE
NO. 104450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

08-SEP-2014 09:33
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	3
CONST	2012	10946-3401-04	3

REV. 9-27-11: UPDATED THE ADDRESS FOR CHARTER COMMUNICATIONS

REV. 1-23-15: ADDED ACQUISITION TOTALS TO R.O.W. ACQ. TABLE. ADDED DISTURBED AREA BLOCK.

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.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
~~1~~	~~Carter County~~	~~35~~	~~67~~	~~466~~	~~562~~	~~22.575~~		~~22.575~~				~~22.575~~				
~~2~~	~~Carter County~~	~~35~~	~~67~~	~~466~~	~~562~~	~~0.994~~		~~0.994~~				~~0.994~~				
~~3~~	~~Kem A Richardson~~	~~35~~	~~67.12~~	~~461~~	~~296~~	~~1.240~~		~~1.240~~				~~1.240~~				
~~4~~	~~Heritage Family Mangement~~	~~35~~	~~67.18~~	~~46~~	~~580~~	~~1.208~~		~~1.208~~				~~1.208~~				
5	Robertson-Ceco II Corp C/o NCI Group Inc	35	67.1	72	790	2.047	21.857	23.904	0.794	0.956	1.750	1.253	20.901			
6	Elizabethton Electric System	35	68.08	430	729	2.036	0.143	2.179	0.207	0.143	0.350	1.829				
7	A Y Mcdonald Industries	35	67.11	52	350	61 S.F.	10.147	10.148	61 S.F.	0.186	0.187		9.961			
~~8~~	~~Daniel J. Paul~~	~~35~~	~~67.07~~	~~33~~	~~152~~	~~1.481~~		~~1.481~~				~~1.481~~				
ACQUISITION TOTALS (ACRES)									1.002	1.285	2.287					

DISTURBED AREA

IN BETWEEN SLOPES	1.486 Ac.
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	0.948 Ac.
TOTAL DISTURBED AREA	2.434 Ac.

UTILITIES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

RIGHT - OF – WAY

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(7) TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 50-FOOT OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.

(8) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(9) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

UTILITY CONTACT INFORMATION

CABLE
CHARTER COMMUNICATIONS
10417 WALLACE ALLEY ST
KINGSPORT, TN 37663
MIKE ROBERTS: 423.791.3816

ELECTRIC
CITY OF ELIZABETHTON ELECTRIC DEPARTMENT
400 HATCHER LANE
P.O. BOX 790
ELIZABETHTON, TN 37643
BRAD MOFFIT: 423.542.1101

GAS
ATMOS ENERGY CORP.
2833 WEST MARKET ST.
JOHNSON CITY, TN 37604
JAMES HOIT: 423.926.1888

TELEPHONE
CENTURYLINK
914 NORTH ROAN ST
JOHNSON CITY, TN 37601
ANDY ICE: 423.989.2243

SEWER AND WATER
ELIZABETHTON WATER & SEWER
136 SOUTH SYCAMORE ST
ELIZABETHTON, TN 37643
JOHANN COETZEE 423.547.6341

UNOFFICIAL SET
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DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	3A
CONST	2012	10946-3401-04	3A

END PROJ. NO. 10946-3401-04 CONST
STA. 22+12.00

N

1

CARTER COUNTY

2

CARTER COUNTY, TENNESSEE

10

15

4

3

KEM A. RICHARDSON

HERITAGE FAMILY MANAGEMENT, LLC

8

DANIEL J. PAUL INDUSTRIES, INC.

20

INDUSTRIAL DR
23'ASP.

PROPOSED RIGHT-OF-WAY

N 90° 0' 0" E

S 60° 22' 40" E

N 89° 16' 58" E

ELIZABETHTON ELECTRIC SYSTEM

6

MCDON
23'AS

BEGIN PROJ. NO. 10946-2401-04 R.O.W.
STA. 10+43.49

BEGIN PROJ. NO. 10946-3401-04 CONST.
STA. 10+12.23

DON LEWIS BLVD
25'ASP.

5

ROBERTSON-CECO II CORPORATION

END PROJ. NO. 10946-2401-04 R.O.W.
STA. 22+17.17

7

A.Y. MCDONALD INDUSTRIES, INC.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.10+00 TO STA.22+23.29

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	4
CONST	2012	10946-3401-04	4

REV. 9-14-11: ADDED WWC-1

REV. 10-18-11: CHANGED GAS LINE UNDER DON LEWIS BLVD FROM 2" TO 4".
ADDED APPROXIMATE LOCATION WATER LINE NOTE.
ADDED WATER VALVE AT STA. 10+29.02 OFFSET 160.95 RIGHT.
CHANGED STORM SEWER AT STA 12+76.49 FROM CMP TO FLEX PVC.

CURVE SC01
PI 16+24.33
N 761,065.8855
E 3,092,658.8262
Δ 29° 37' 20" (RT)
D 19° 05' 00"
R 300.24
L 155.23
T 79.39
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110
PC 15+44.94
PT 17+00.17

BEGIN PROJ. NO. 10946-3401-04 CONST.
STA. 10+12.23

SIA STA. 10+00.00 =
LEWIS STA. 31+29.30
N 761065.8855
E 3092034.4953

BEGIN PROJ. NO. 10946-2401-04 R.O.W.
STA. 10+43.49
N 761065.8855
E 3092077.9853

CARTER COUNTY, TENNESSEE

CARTER COUNTY

HERITAGE FAMILY MANAGEMENT, LLC

KEM A. RICHARDSON

ROBERTSON-CECO II CORPORATION

RICHARDSON BUILDERS GENERAL CONTRACTOR

HERITAGE FAMILY FUNERAL SERVICES

NCI BUILDING SYSTEMS

DON LEWIS BLVD
25' ASP.

WATER LINE: APPROXIMATE LOCATION

MATCH LINE STA 16+00.00
SEE SHEET 5

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
CP-S02	761139.8390	3092620.3930	1536.30	15+77.67	76.19' (LT)
CP-S01	761151.1610	3092050.5940	1533.45	10+16.10	85.28' (LT)
CP-S03	761148.6650	3093219.6400	1539.12	22+01.01	157.80' (LT)

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PRESENT LAYOUT

STA.10+00 TO STA.16+00

SCALE: 1"=50'

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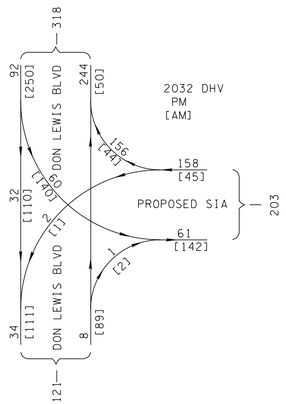
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	4A
CONST	2012	10946-3401-04	4A

REV. 9-14-11: ADDED WWC-1, ADDED TURNING MOVEMENT DETAIL



10

15

SIA STA. 10+00.00 =
LEWIS STA. 31+29.30
N 761065.8855
E 3092034.4953

BEGIN PROJ. NO. 10946-3401-04 CONST.
STA. 10+12.23

STOP
R1-1
30" X 30"

W3-1
36" X 36"

POND
POOL EL. 1525.86

CLASS B RIPRAP
OUT.EL. 1528.53

43.25' OF 18" RCP

WWC-1

N 90° 0' 0" E

IN. EL. 1528.95

R=50.00'

R=50.00'

24'

DON LEWIS BLVD
25' ASP.

MATCH LINE STA 16+00.00
SEE SHEET 5A

N

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.10+00 TO STA.16+00

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	4B
CONST	2012	10946-3401-04	4B

LEFT 10+00 -.02'-.02
RIGHT -.02'-.02

NORMAL CROWN

14+89.94 -.02'-.02

TRANSITION

15+99.94 -.04'-.04

S.E.

SIA STA. 10+00.00 =
LEWIS STA. 31+29.30
N 761065.8855
E 3092034.4953

BEGIN PROJ. NO. 10946-3401-04 CONST
STA. 10+12.23
EL. 1533.69

VC = 45.00'
K = 39
V = 30 MPH

SEE SHEET 5B
MATCH LINE STA. 16+00.00

	3238 C Y	BORROW MATERIAL (SWELLED)		
EXC (UNCL)	COMMON	732 C Y	(INCL.) T-SOIL FROM EXC.	257 C Y
732 C Y			T-SOIL FROM EMB	0 C Y
			EXC FROM DRIVES	0 C Y
			EXCESS MAT'L	NONE
	ROCK	0 C Y		
			SHRINKAGE FACTOR = 15%	
	EMB	3229 C Y	(INCL.) EMB FOR DRIVES	71 C Y
			REPLACE TOPSOIL	0 C Y

VPI 10+00.00 EL. 1533.68
VPC 10+36.55 EL. 1533.73
VPT 10+51.55 EL. 1533.70
VPI 10+44.05 EL. 1533.74

VPC 12+27.50 EL. 1532.58
VPT 12+72.50 EL. 1532.56
VPI 12+50.00 EL. 1532.44

MH 1
STA. 10+45.43
148.65' (RT)
TOP 1532.75
INVERT 1525.76

CB 1
STA. 12+62.12
401.99' (RT)
TOP 1535.73
INVERT 1530.76

MH 2
STA. 12+77.74
147.08' (RT)
TOP 1535.93
INVERT 1526.84

CP-S02
STA. 15+77.67, -76.19'(LT)
N 761139.8390
E 3092620.3930
ELEV 1536.30
ALUM. DISK

0.15%
-0.63%
2.78%
-2.64%
0.50%

6" W
8" SA

4" GAS LINE XING
STA. 10+27.74
ELEV. 1525.5470

6" WATER LINE XING
STA. 10+29.42
ELEV. 1524.4809

STA 12+76.49
EXISTING 24CMP
SKEW 87° 58' 30" LT
FLOWS LEFT
INLET 1530.6750
OUTLET 1526.2090

6" WATER LINE XING
STA. 14+69.70
ELEV. 1527.3133

STA. 12+50.00
PROPOSED 18" PIPE
FLOWS LEFT

VC = 15.00'
K = 19
V = 30 MPH

BEGIN SPC. DITCH
STA. 12+00.00
EL 1530.36

SAG SPC. DITCH
STA. 12+50.00
EL. 1528.97

END SPC. DITCH
STA. 13+00.00
EL. 1530.29

CP-S01
STA. 10+16.10, -85.28'(LT)
N 761151.1610
E 3092050.5940
ELEV 1533.45
ALUM. DISK

STA. 12+50.00
43.25' OF 18" RCP
SKEW 90
ENDWALLS REQD. : 2 TYPE "U"
STD. DWG. NOS. D-PB-1, D-PE-3B(1), D-PE-3B(2)

D.A. = 3.70 AC.
V50 = 5.64 FPS
Q50 = 7.58 CFS
Q100 = 8.32 CFS
W.S. ELEV. (50) = 1530.65
W.S. ELEV. (100) = 1530.83

1560 1555 1550 1545 1540 1535 1530 1525 1520 1515 1510 1505 1500

10+00 11+00 12+00 13+00 14+00 15+00 16+00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.10+00 TO STA.16+00

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	5
CONST	2012	10946-3401-04	5

REV. 9-14-11: ADDED WTL-2, WWC-1, WWC-2 AND WETLAND IMPACT INFORMATION

REV. 9-22-11: UPDATED IMPACT TO WTL-2

REV. 10-18-11: EXTENDED DRIVE AT STA 17+43.15 RIGHT FROM 41.36' TO 74.36'.
ADDED DRIVE AT STA 19+44.94 LEFT.
ADDED GATE ON TRACT 6 AT STA 19+45.

REV. 9-09-14: EXTENDED AND WIDENED BUSINESS ENTRANCE STA. 20+05.70 (RT).

SEE SHEET 4
MATCH LINE STA 16+00.00

CURVE SC01
PI 16+24.33
N 761,065.8855
E 3,092,658.8262
Δ 29° 37' 20" (RT)
D 19° 05' 00"
R 300.24
L 155.23
T 79.39
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110
PC 15+44.94
PT 17+00.17

CURVE SC02
PI 17+83.21
N 760,985.5999
E 3,092,800.0265
Δ 30° 20' 22" (LT)
D 19° 05' 00"
R 300.24
L 158.98
T 81.40
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110
PC 17+01.80
PT 18+60.79

CARTER COUNTY

DANIEL J. PAUL INDUSTRIES, INC.
DANIEL J. PAUL, M.D.
1-M-BUS
20

ELIZABETHTON ELECTRIC SYSTEM
POWER SUBSTATION
6
INV-1534.51

ROBERTSON-CECE II CORPORATION
5

A.Y. MCDONALD INC.
1-M-BUS
7

A.Y. MCDONALD INDUSTRIES, INC.

INDUSTRIAL DR 23'ASP.
MCDONALD AVE 23'ASP.

N

END PROJ. NO. 10946-3401-04 CONST.
STA. 22+12.00
END PROJ. NO. 10946-2401-04 R.O.W.
STA. 22+17.17
N 760991.0796
E 3093237.7766

SIA STA. 22+23.29 =
INDUS STA. 40+47.43
N 760991.1562
E 3093243.8958

R.O.W. DETAIL

CURVE SC04	R=51.63 L L=51.75
CURVE SC17	R=51.63 L L=27.68

LINE SL08	S 1° 27' 6" W	26.10
LINE SL54	S 1° 27' 6" W	23.89

Ⓔ S 1° 24' 13" W 4.41'
Ⓕ N 89° 30' 27" E 17.72'

IMPACT TO WETLAND 2

PERMANENT WETLAND IMPACT = 0.022 AC
TEMPORARY WETLAND IMPACT = 0.005 AC

NOTE: PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND PROPOSED RIGHT-OF-WAY.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
ATUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106439
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.16+00 TO STA.22+23.29

SCALE: 1"=50'

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

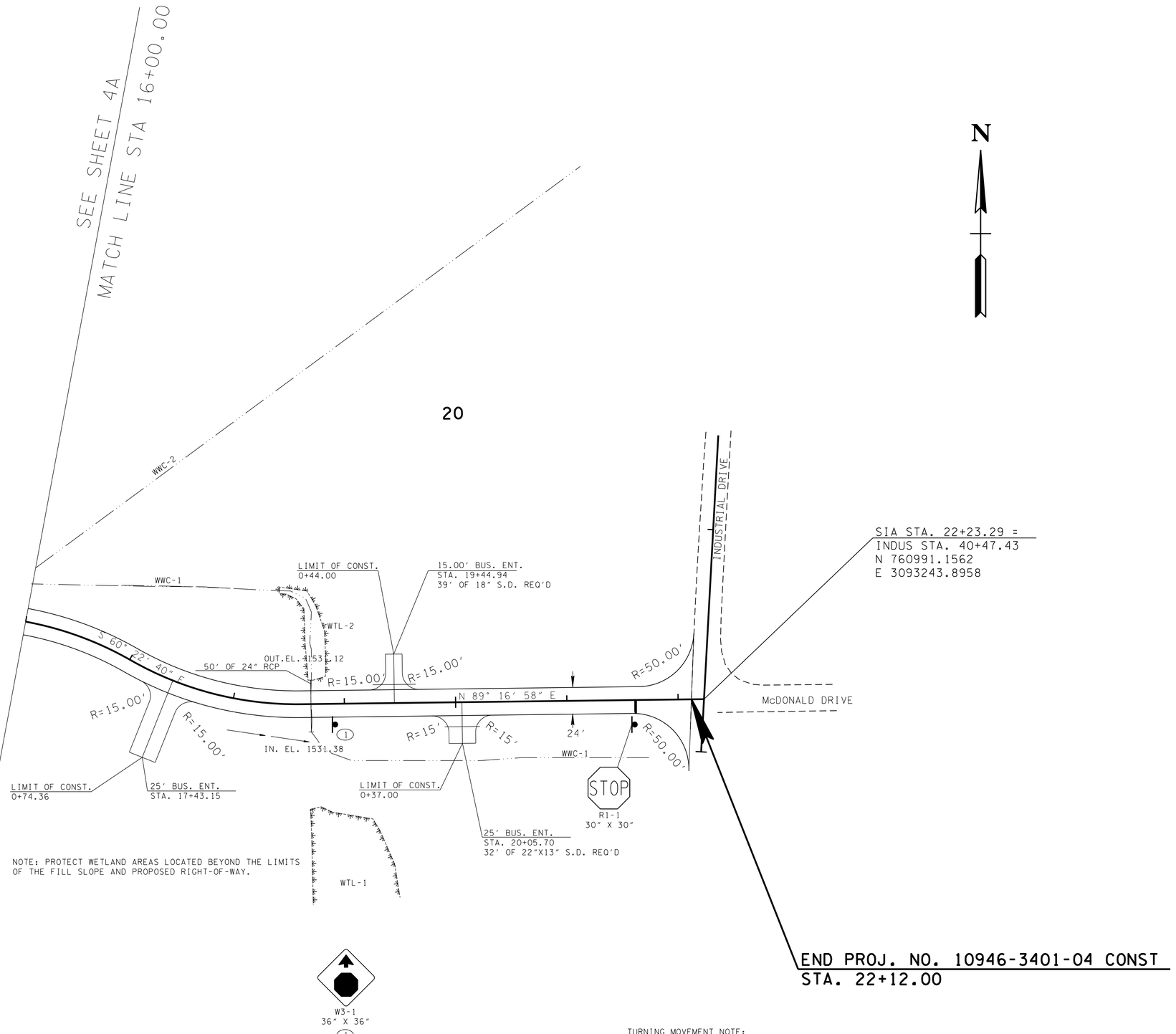
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	5A
CONST	2012	10946-3401-04	5A

REV. 9-14-11: ADDED WTL-2, WWC-1 AND WWC-2.
ADDED TURNING MOVEMENT NOTE.

REV. 9-22-11: UPDATED REMAINDER OF WTL-2

REV. 10-18-11: EXTENDED DRIVE AT STA 17+43.15 RIGHT FROM 41.36' TO 74.36'.
ADDED DRIVE AT STA 19+44.94 LEFT.

REV. 9-09-14: EXTENDED AND WIDENED BUSINESS ENTRANCE STA. 20+05.70 (RT) AND ADDED SIDE DRAIN.



TURNING MOVEMENT NOTE:
DHV'S ARE NOT REQUIRED FOR SIDE ROADS LESS THAN 1000 AADT.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.16+00 TO STA.22+23.29

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	5B
CONST	2012	10946-3401-04	5B

S.E.
16+27.65
-.04+.04

TRANSITION

17+74.32
+.04-.04
S.E.
18+05.79
+.04-.04

TRANSITION

19+15.79
-.02-.02

NORMAL CROWN

22+23.29
-.02-.02

SIA STA. 22+23.29 =
INDUS STA. 40+47.43
N 760991.1562
E 3093243.8958

1560
1555
1550
1545
1540
1535
1530
1525
1520
1515
1510
1505
1500

MATCH LINE STA. 16+00.00
SEE SHEET 4B

VPI 22+23.29
EL. 1537.31

END PROJ. NO. 10946-3401-04 CONST.
STA. 22+12.00
EL 1537.26

STA. 18+70.00
PROPOSED 24" PIPE
FLOWS LEFT

STA 19+27.81
EXISTING 4"PVC
SKEW 88° 30' 45" LT
FLOWS RIGHT
INLET 1534.51
OUTLET 1531.61

CP-S03
STA. 22+01.01, -157.80'(LT)
N 761148.6650
E 3093219.6400
ELEV 1539.12
ALUM. DISK

MH 3
STA. 16+05.97
140.99' (RT)
TOP 1533.86
INVERT 1527.62

0.50%
0.92%

6" W
8" SA

MH 4
STA. 19+10.53
62.58' (RT)
TOP 1533.53
INVERT 1528.17

2" WATER LINE XING
STA. 22+02.09
ELEV. 1526.9294

BEGIN SPC. DITCH
STA. 17+50
EL 1532.50

END SPC. DITCH
STA. 18+70
EL. 1531.40

STA. 18+70.00
50' OF 24" RCP
SKEW 90
ENDWALLS REQD. : STR
STD. DWG. NOS. D-PB-1, D-PE-4

D.A. = 7.35 AC.
V50 = 4.75 FPS
Q50 = 13.05 CFS
Q100 = 14.37 CFS
W.S. ELEV. (50) = 1533.50
W.S. ELEV. (100) = 1533.64

16+00 17+00 18+00 19+00 20+00 21+00 22+00

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NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.16+00 TO STA.22+23.29
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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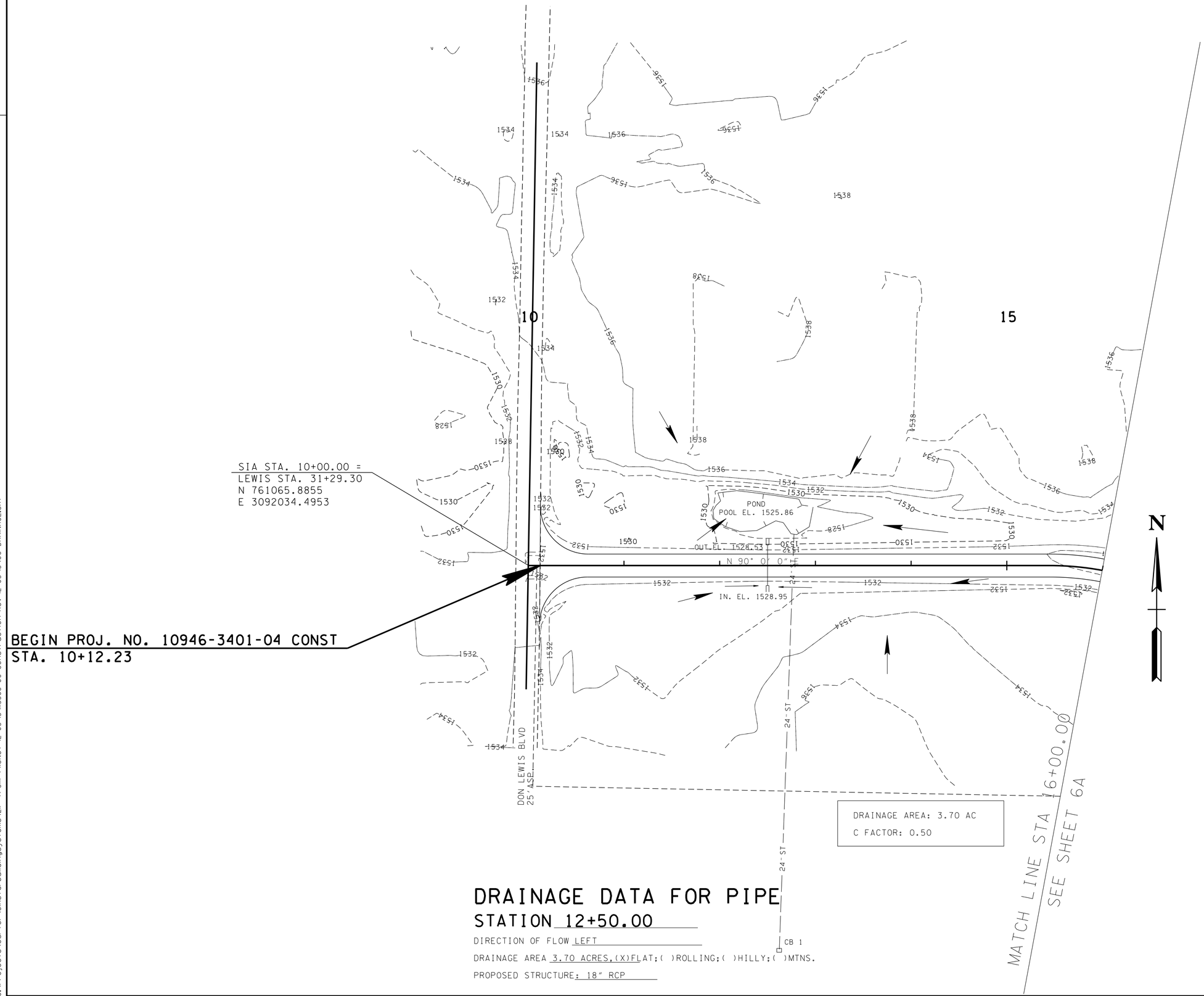
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	6
CONST	2012	10946-3401-04	6

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



DRAINAGE AREA: 3.70 AC
C FACTOR: 0.50

DRAINAGE DATA FOR PIPE

STATION 12+50.00

DIRECTION OF FLOW LEFT

DRAINAGE AREA 3.70 ACRES,(X)FLAT;( )ROLLING;( )HILLY;( )MTNS.

PROPOSED STRUCTURE: 18" RCP

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106430
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.10+00 TO STA.16+00

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	6A
CONST	2012	10946-3401-04	6A

DRAINAGE DATA FOR PIPE

STATION 19+27.81

DIRECTION OF FLOW RIGHT

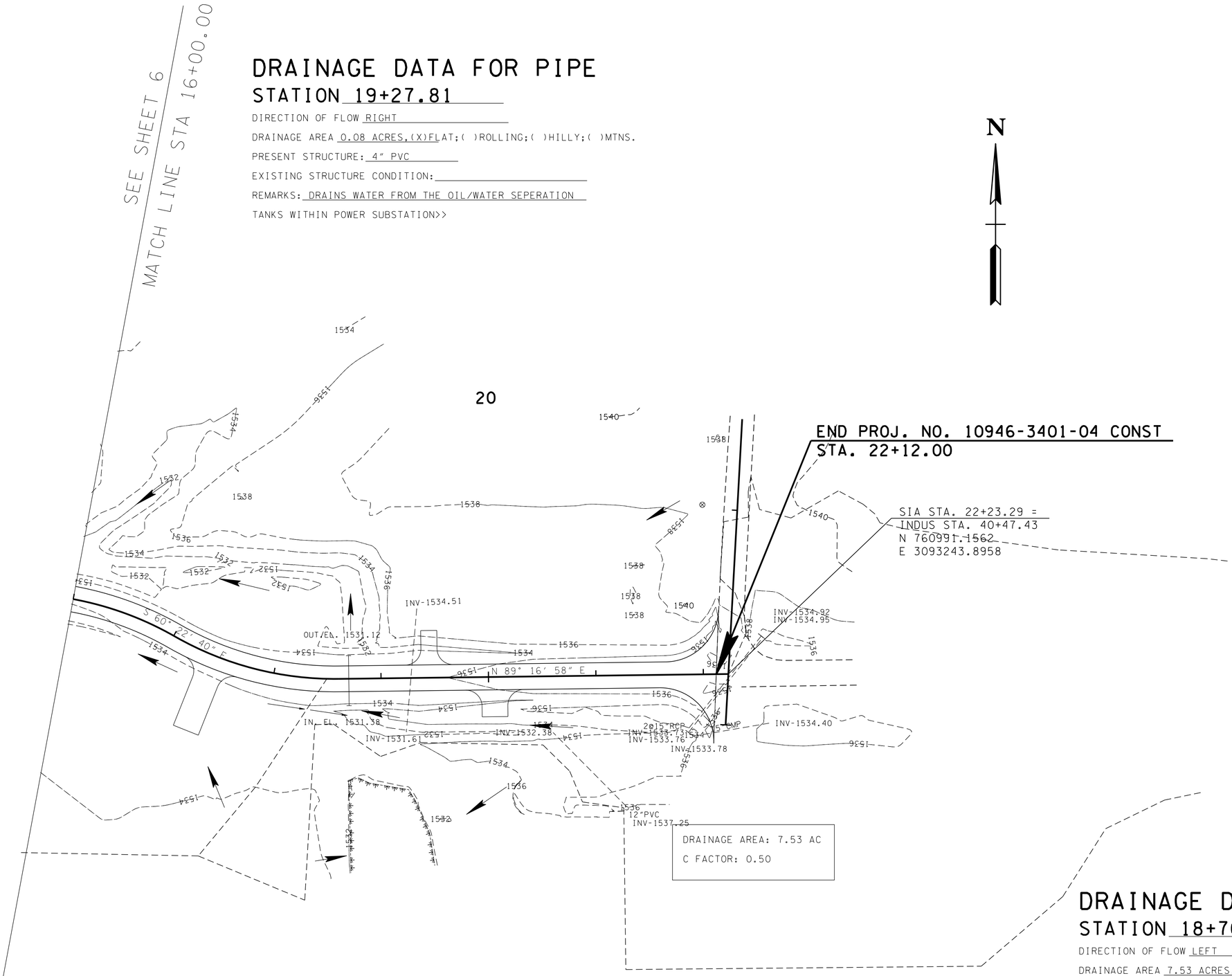
DRAINAGE AREA 0.08 ACRES,(X)FLAT;( )ROLLING;( )HILLY;( )MTNS.

PRESENT STRUCTURE: 4" PVC

EXISTING STRUCTURE CONDITION:

REMARKS: DRAINS WATER FROM THE OIL/WATER SEPERATION

TANKS WITHIN POWER SUBSTATION>>



DRAINAGE DATA FOR PIPE

STATION 18+70.00

DIRECTION OF FLOW LEFT

DRAINAGE AREA 7.53 ACRES,(X)FLAT;( )ROLLING;( )HILLY;( )MTNS.

PROPOSED STRUCTURE: 24" RCP

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

TAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.16+00 TO STA.22+23.29

SCALE: 1"=50'

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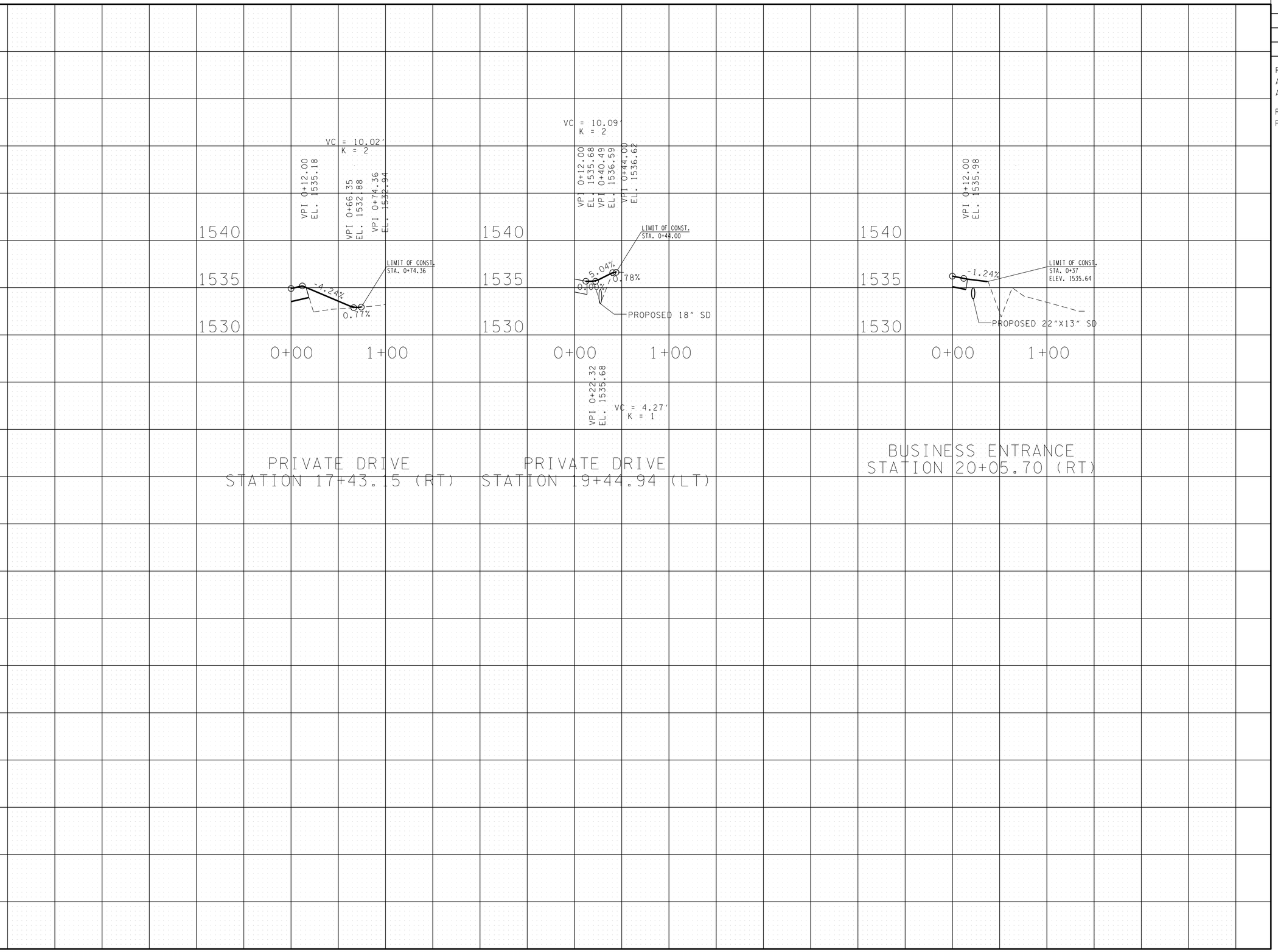
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	7
CONST	2012	10946-3401-04	7

REV. 10-18-11: MODIFIED DRIVE AT STA 17+43.15 RT.
ADDED DRIVE AT STA 19+44.94 LT

REV. 9-09-14: ADDED BUSINESS ENT. PROFILE STA 20+05.70 (RT).



UNOFFICIAL SET
NOT FOR BIDDING

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DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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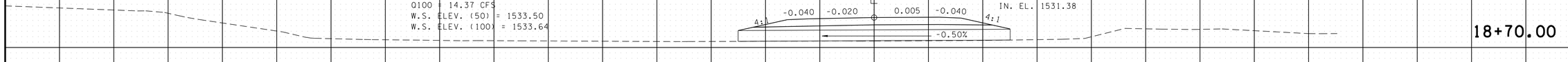
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	8
CONST	2012	10946-3401-04	8

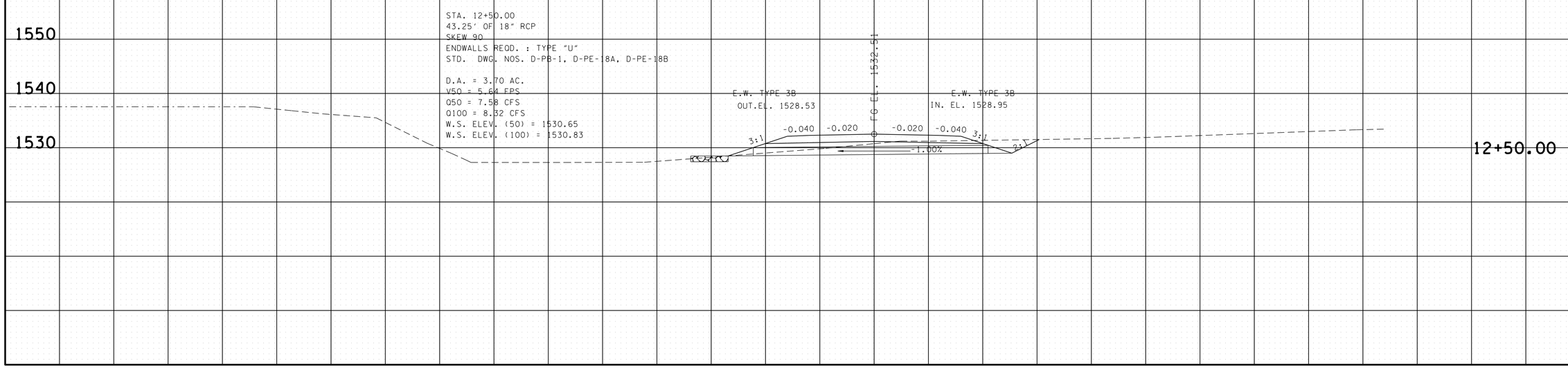
REV. 10-18-11: REMOVED GUARDRAIL ON CULVERT AT 18+70.00

REV. 12-03-13: REVISED STD. DWG. NOS. ON CULVERT SECTIONS.

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION





UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 12+50.00
TO
STA. 18+70.00

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

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

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

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL 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.

NPDES

(1) 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 BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(2) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(3) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(4) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 15 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

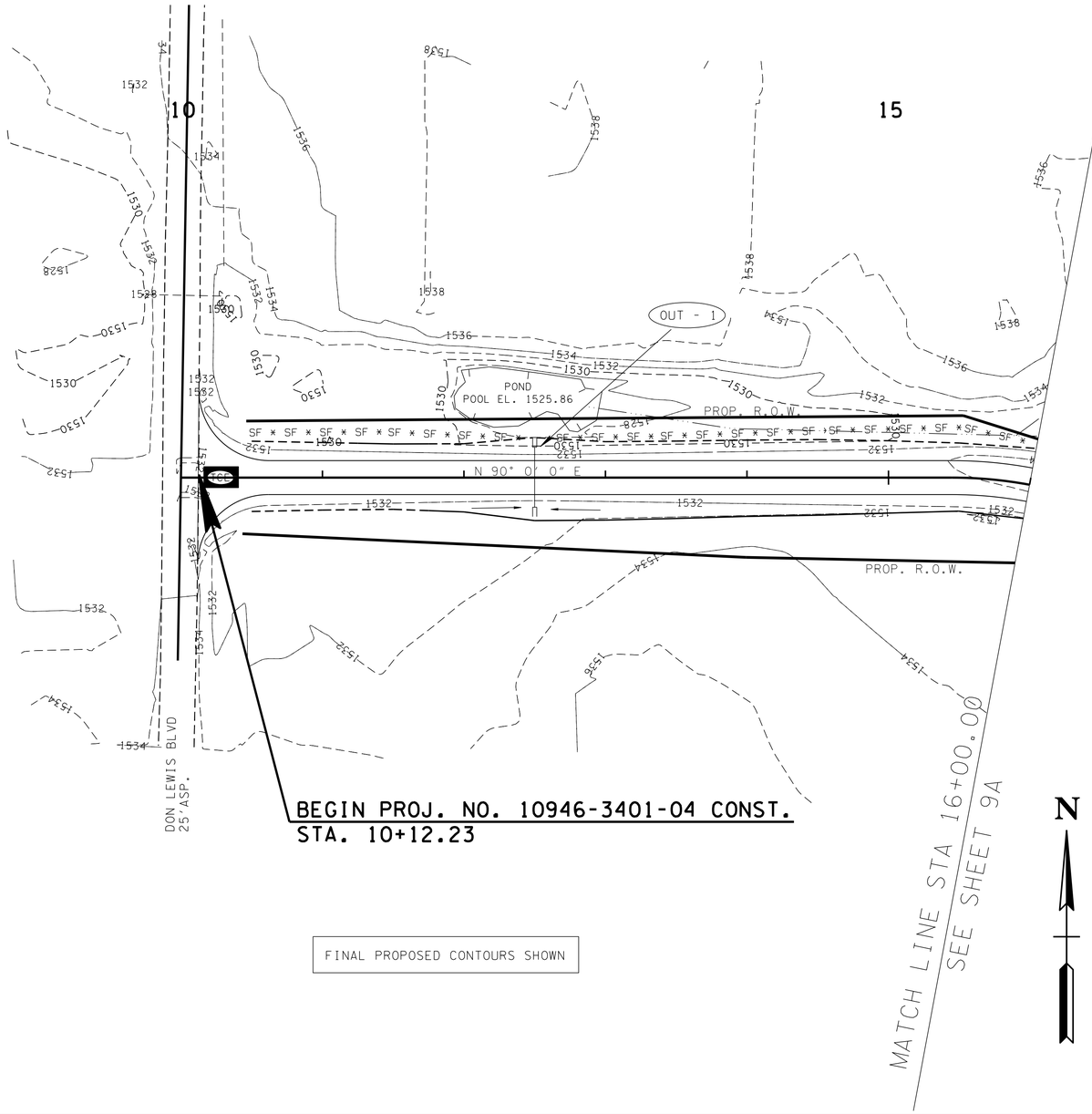
(5) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	LF	1125
209-08.07	ROCK CHECK DAM	EACH	4
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	40
707-08.01	HIGH VISIBILITY CONSTRUCTION FENCE	LF	500
709-05.05	MACHINED RIP RAP (CLASS A-3)	TON	156
709-05.06	MACHINED RIP RAP (CLASS A-1)	TON	47
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	SY	501



FINAL PROPOSED CONTOURS SHOWN

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	9
CONST	2012	10946-3401-04	9

REV. 9-14-11: REMOVED PHASE 2 PORTION OF EPSC PLANS, ADDED WWC-1

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+00 TO STA. 16+00

SCALE: 1"=50'

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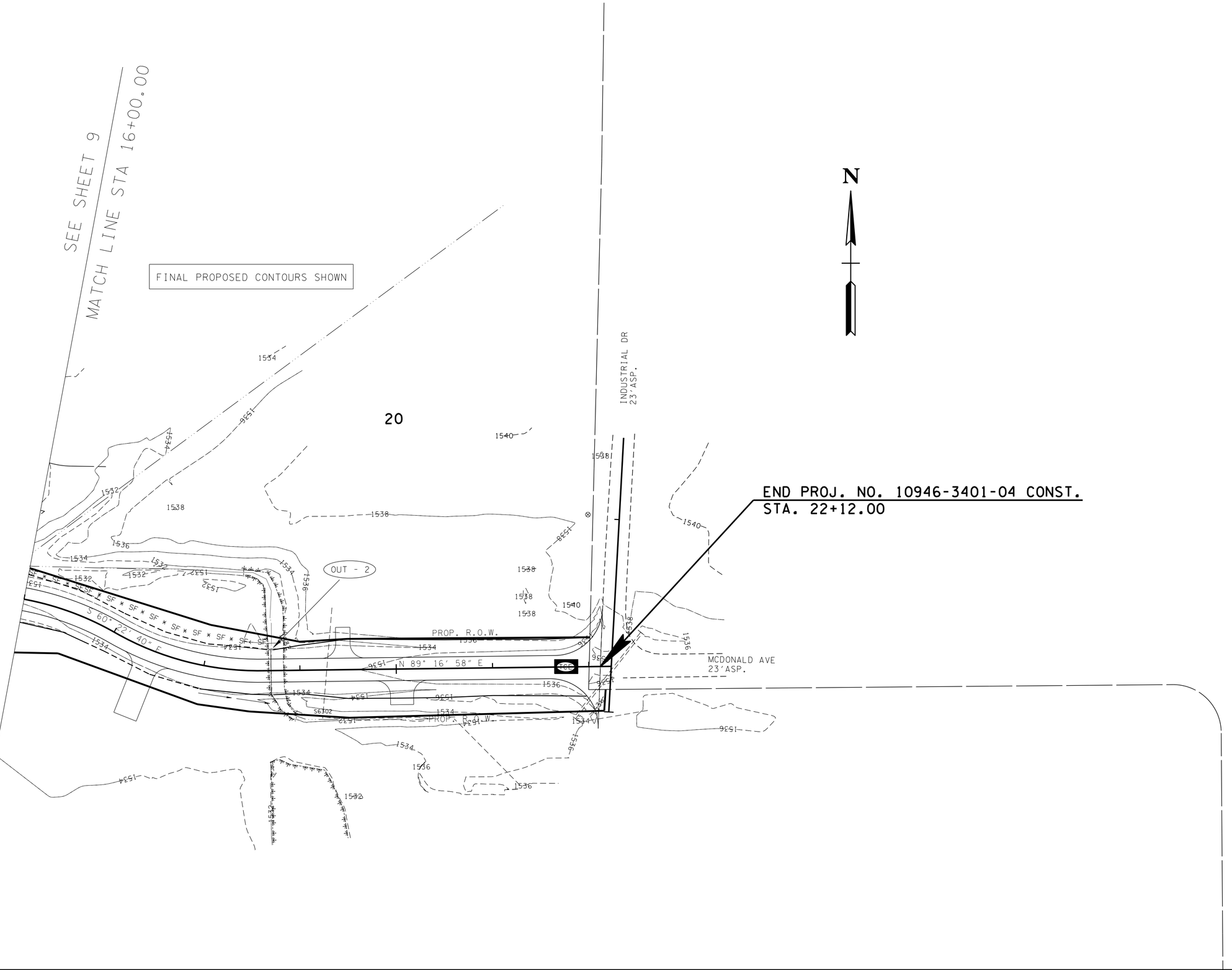
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	9A
CONST	2012	10946-3401-04	9A

REV. 9-14-11: REMOVED PHASE 2 PORTION OF THE EPSC PLAN, ADDED WWC-1, WWC-2 AND WTL-2

REV. 9-09-14: EXTENDED AND WIDENED BUSINESS ENTRANCE STA. 20+05.70 (RT.).



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PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.16+00 TO STA.22+23.29

SCALE: 1"=50'

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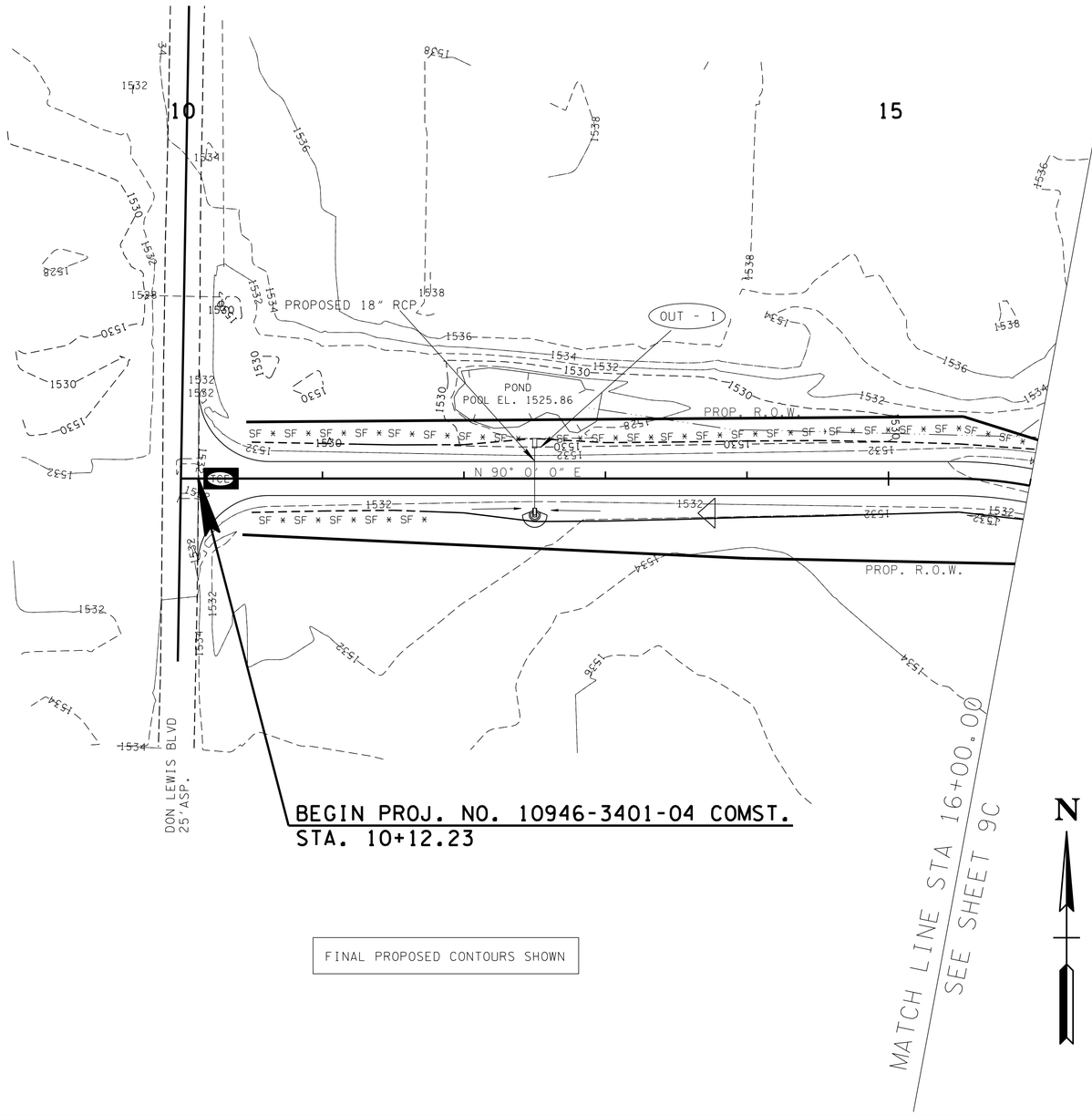
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
SF SF SF SF	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	9B
CONST	2012	10946-3401-04	9B

REV. 9-14-11: ADDED SHEET



FINAL PROPOSED CONTOURS SHOWN

UNOFFICIAL SET
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ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106420
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.10+00 TO STA.16+00
SCALE: 1"=50'

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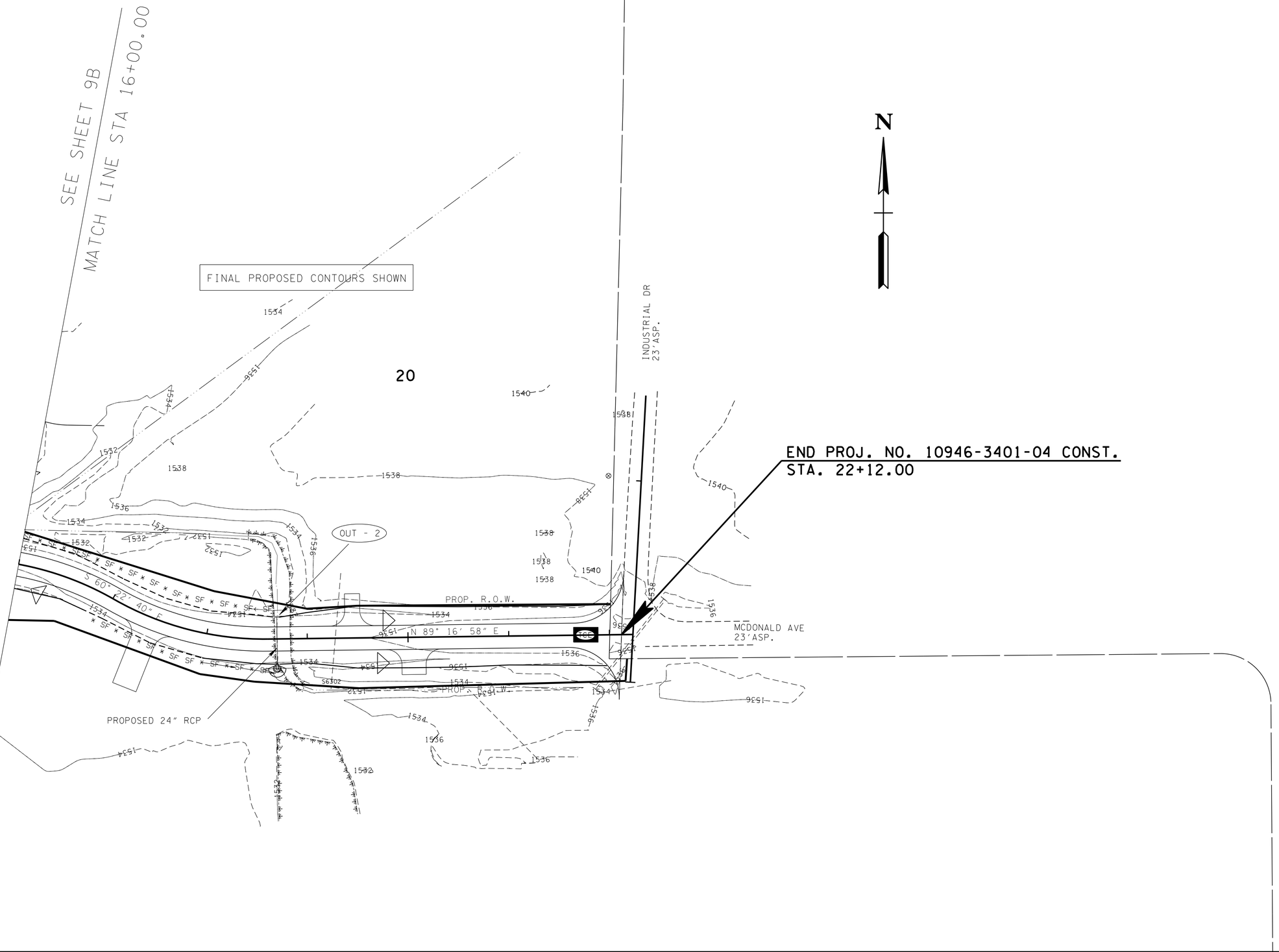
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	9C
CONST	2012	10946-3401-04	9C

REV. 9-14-11: ADDED SHEET

REV. 9-09-14: EXTENDED AND WIDENED BUSINESS ENTRANCE STA. 20+05.70(RT.).



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.16+00 TO STA.22+23.29

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10945-2401-04	10
CONST	2012	10946-3401-04	10

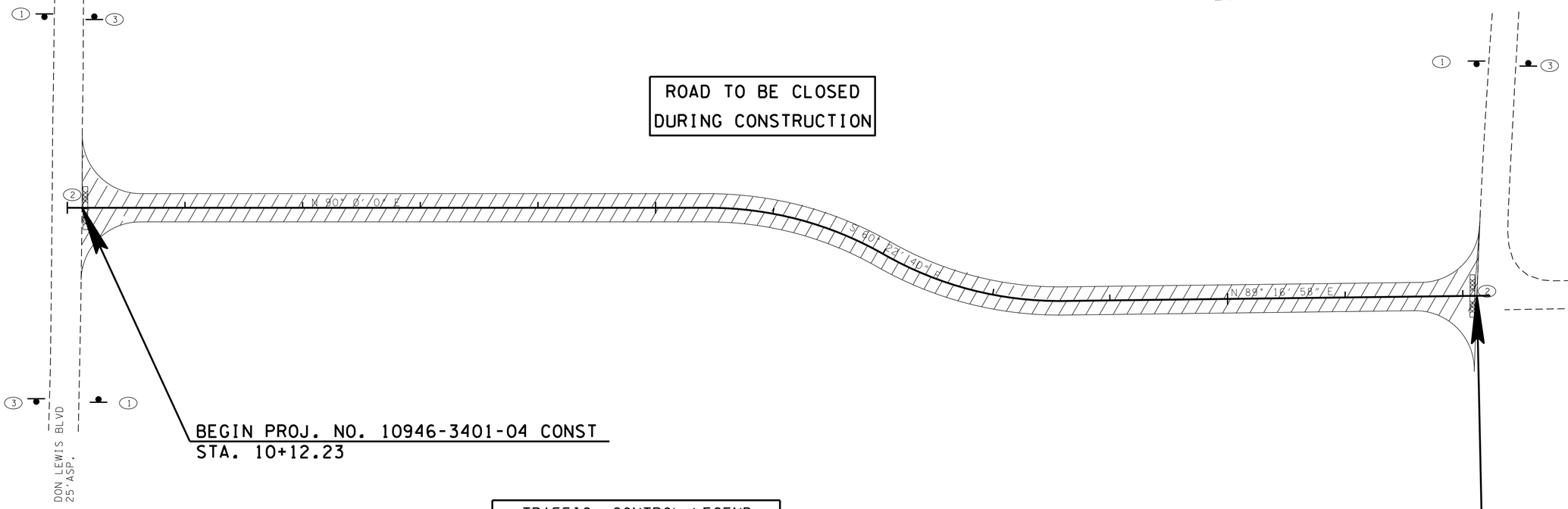
TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
712-01	TRAFFIC CONTROL	LS	1	36	36" X 36"	W20-1	ROAD WORK AHEAD
712-05.01	WARNING LIGHTS (TYPE A)	EACH	4	18	36" X 18"	G20-2	END ROAD WORK
712-06	SIGNS (CONSTRUCTION)	SF	74	20	48" X 30"	R11-2	ROAD CLOSED
712-07.03	TEMP. BARRICADE (TYPE III)	LF	56				
717-01	MOBILIZATION	LS	1				
TOTAL				74			

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

10 15 20

ROAD TO BE CLOSED
DURING CONSTRUCTION



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

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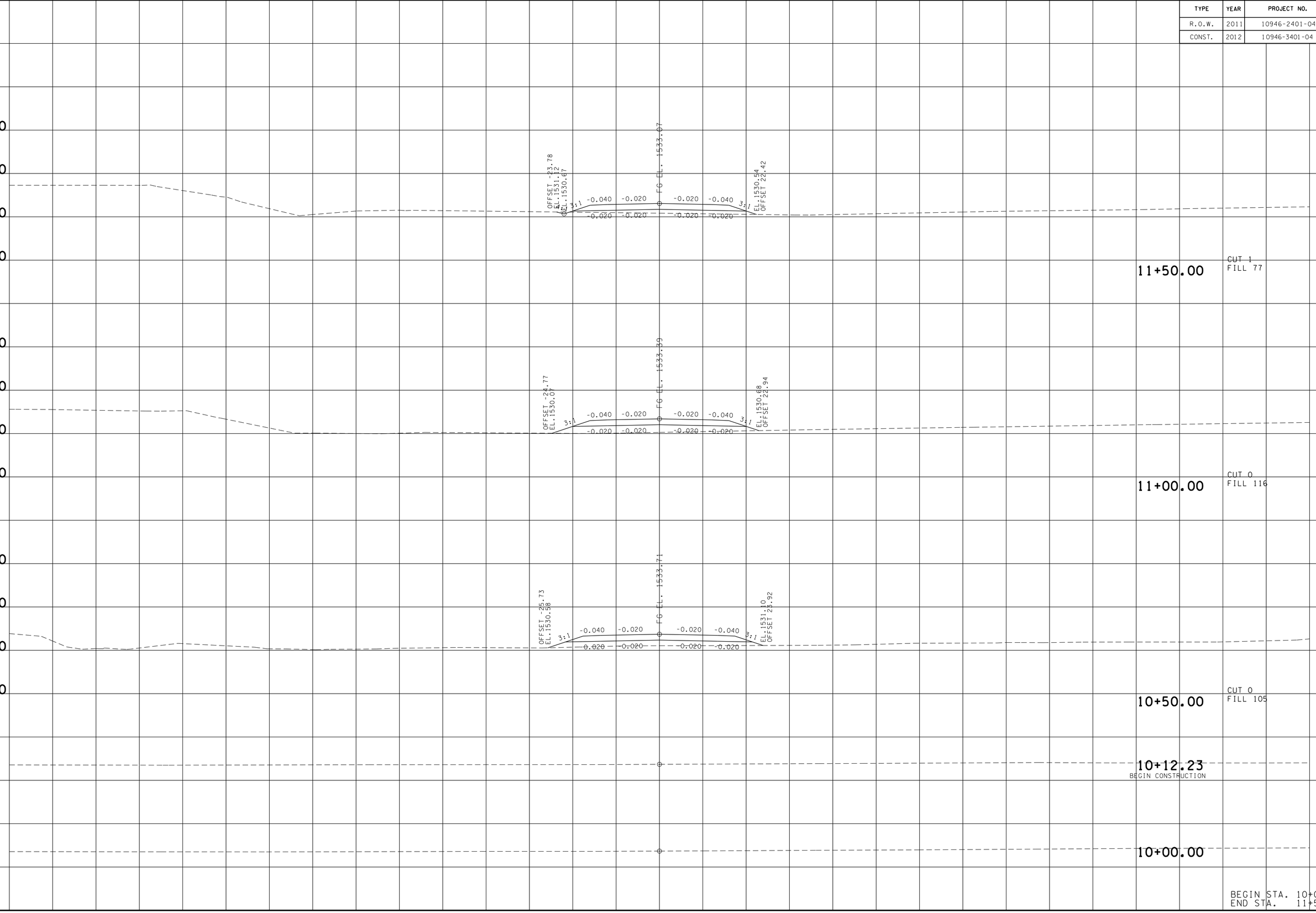
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	11
CONST.	2012	10946-3401-04	11

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



SIA

BEGIN STA. 10+00.00
END STA. 11+50.00

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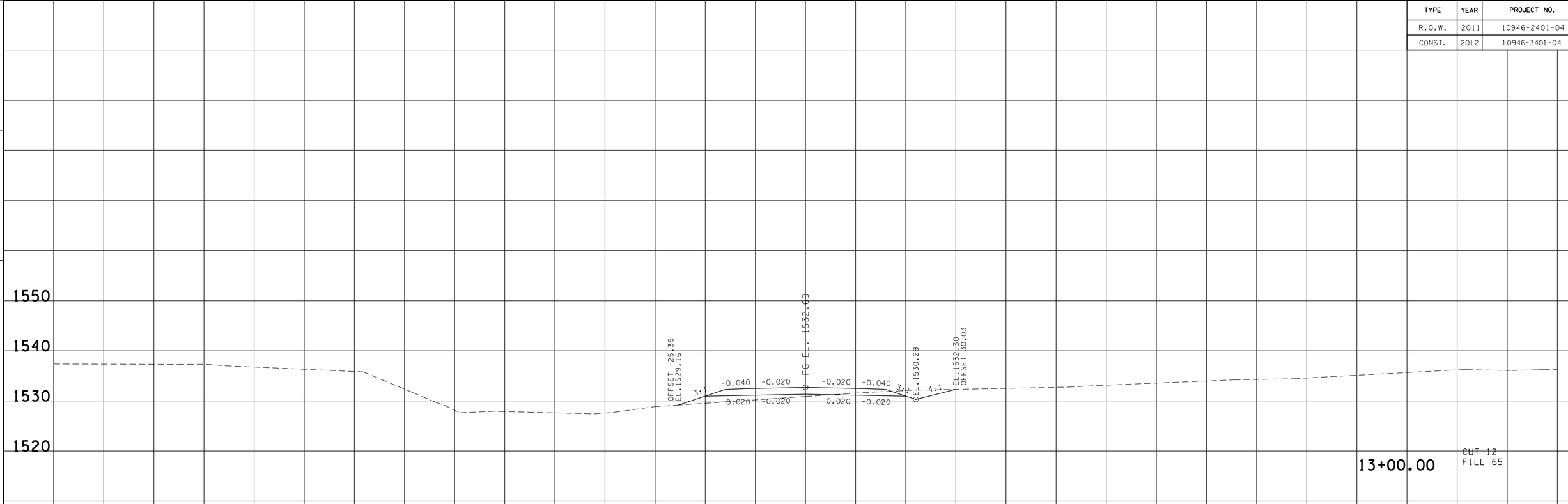
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	12
CONST.	2012	10946-3401-04	12

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SIA

BEGIN STA. 12+00.00
END STA. 13+00.00

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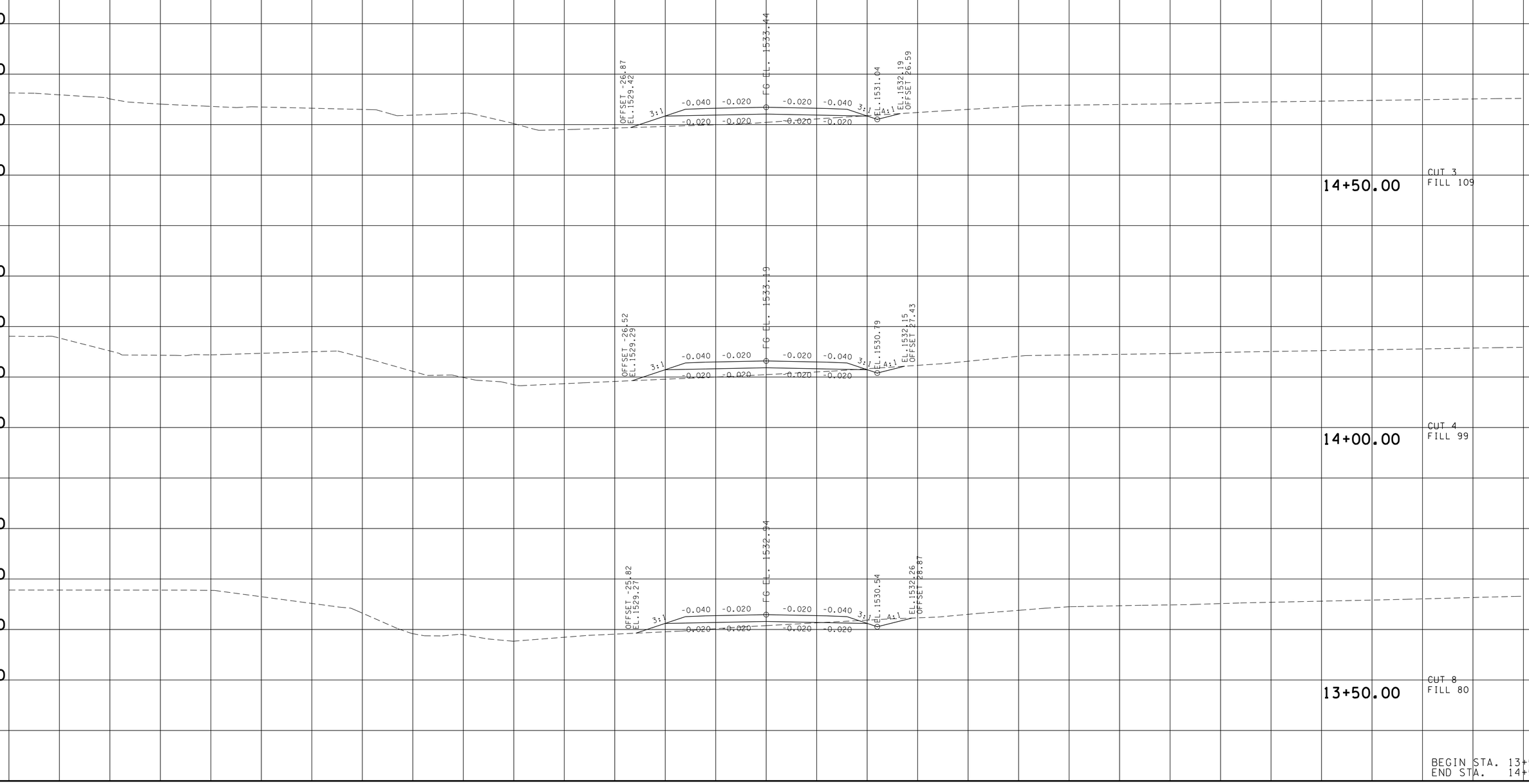
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	13
CONST.	2012	10946-3401-04	13

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



SIA

BEGIN STA. 13+50.00
END STA. 14+50.00

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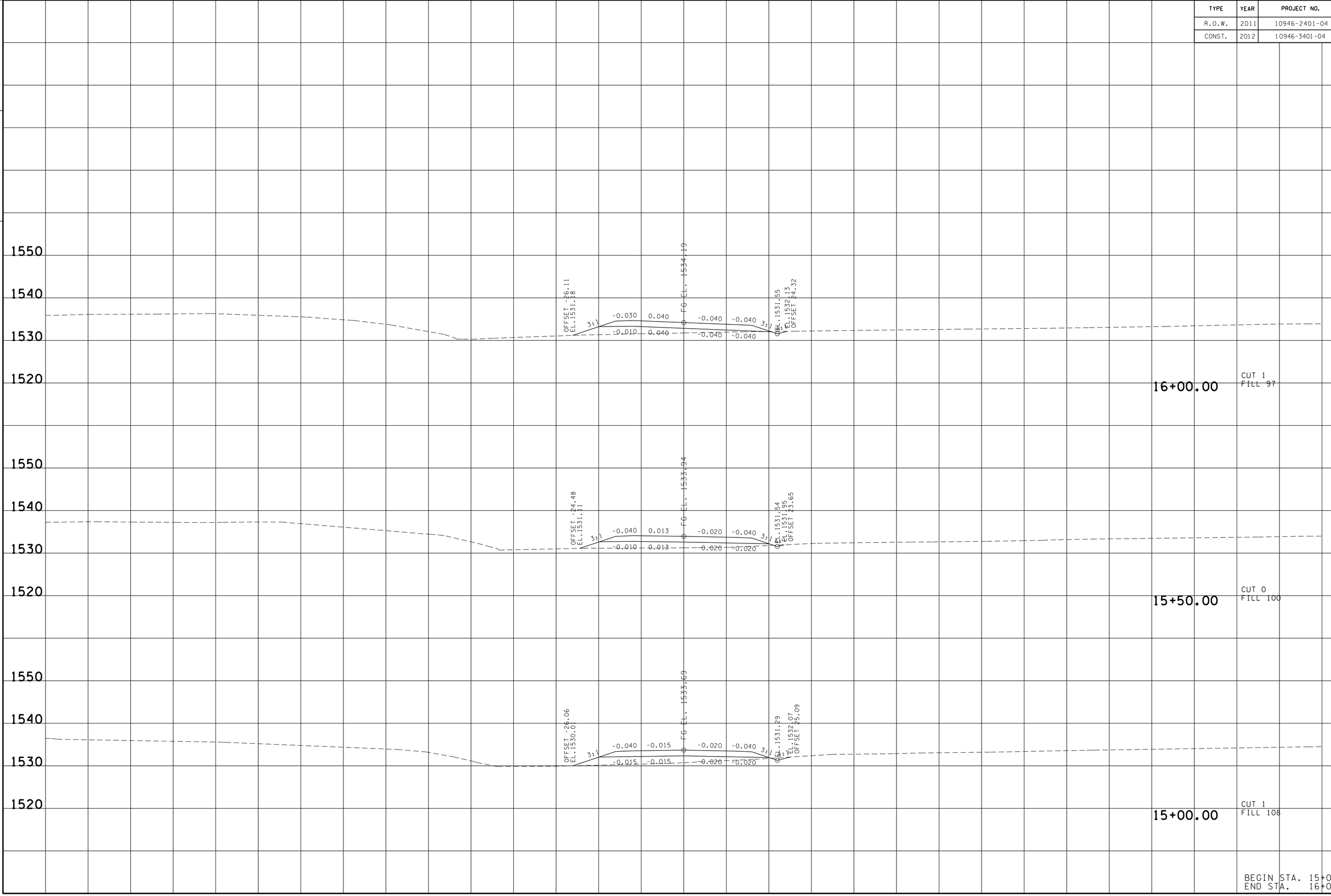
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	14
CONST.	2012	10946-3401-04	14

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SIA

BEGIN STA. 15+00.00
END STA. 16+00.00

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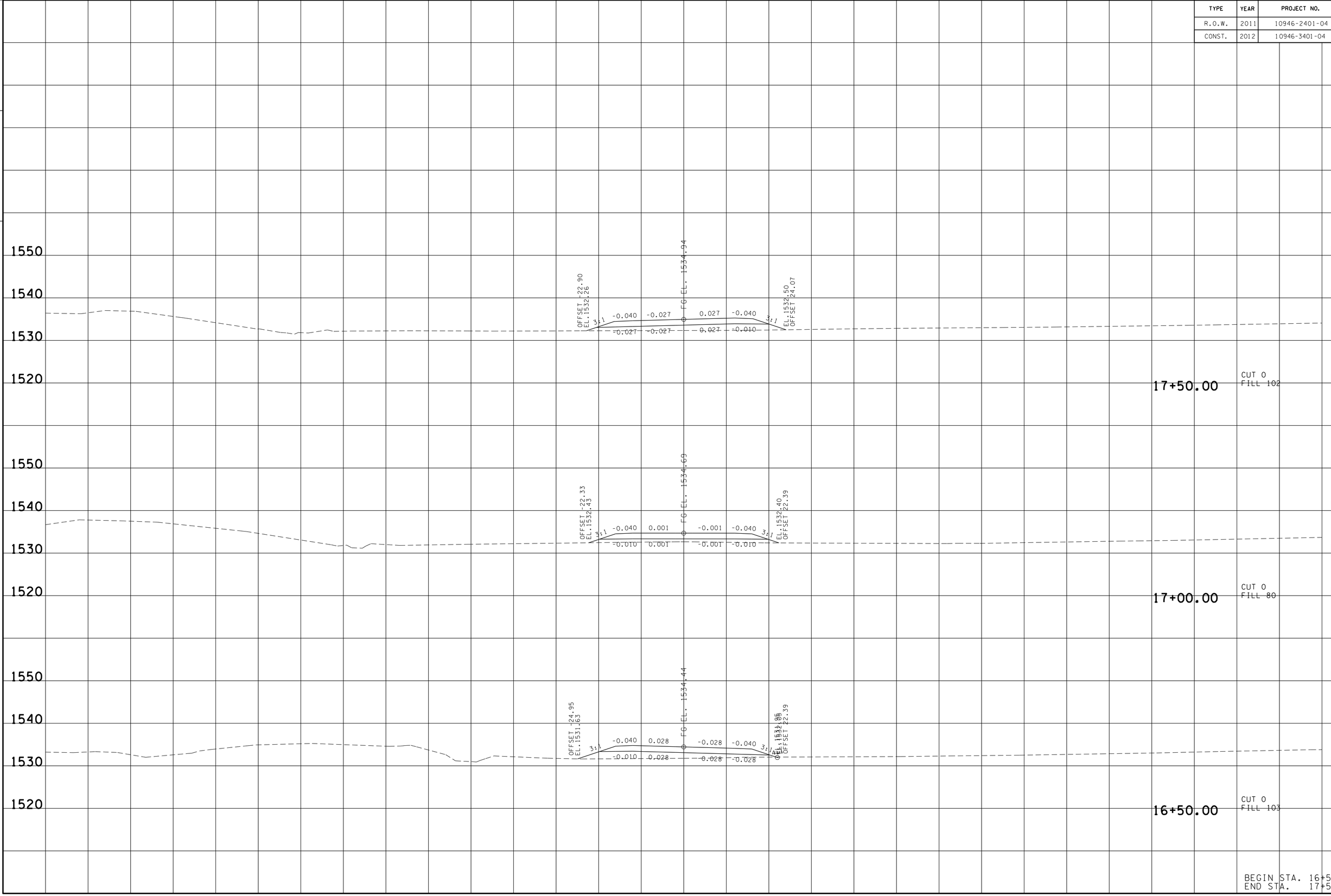
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	15
CONST.	2012	10946-3401-04	15

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



SIA

BEGIN STA. 16+50.00
END STA. 17+50.00

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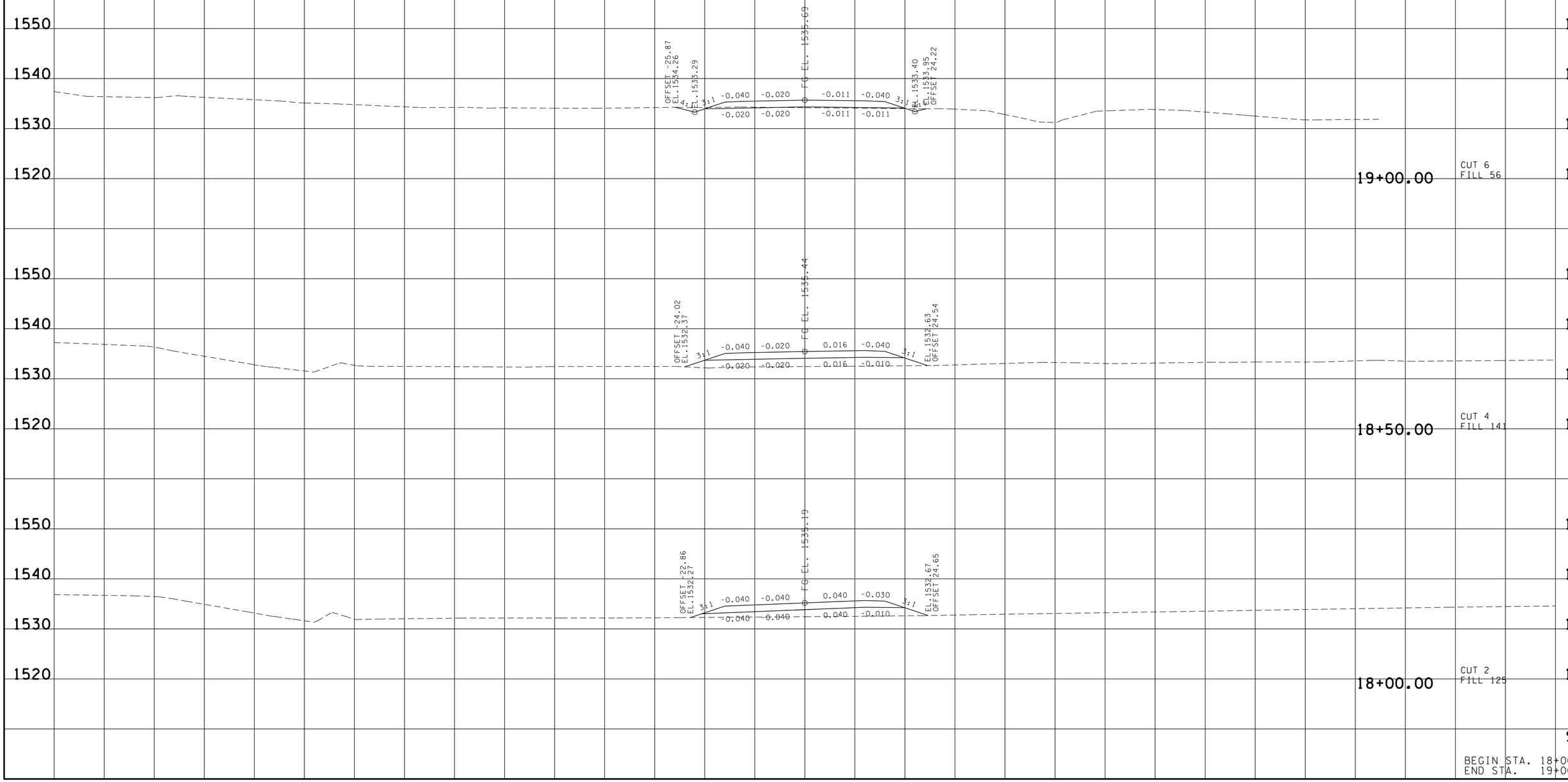
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	16
CONST.	2012	10946-3401-04	16

REV. 10-18-11

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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BEGIN STA. 18+00.00
END STA. 19+00.00

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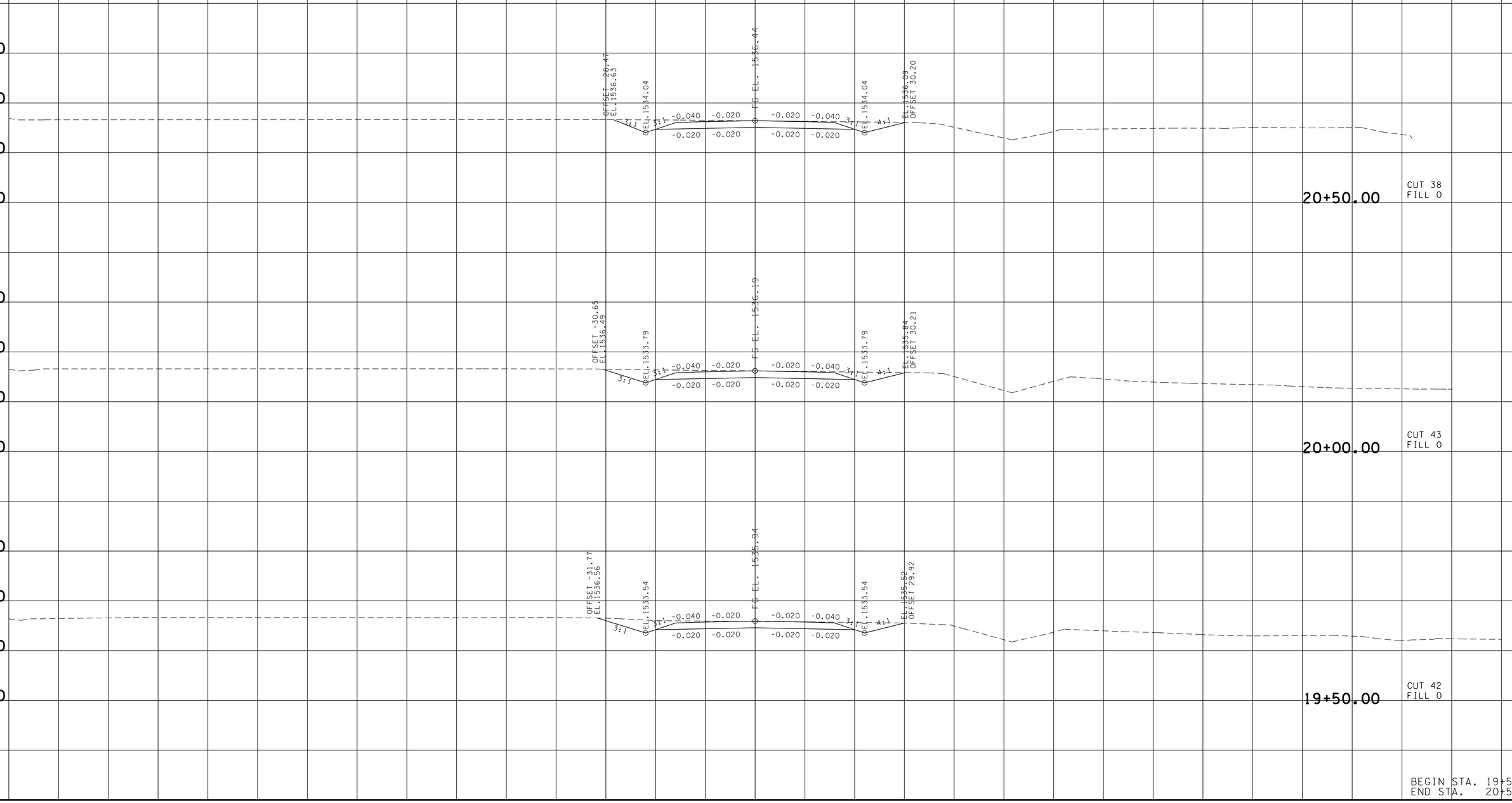
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	10946-2401-04	17
CONST.	2012	10946-3401-04	17

REV. 10-18-11

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



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TYPE	YEAR	PROJECT NO.	SHEET NO.
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CONST.	2012	10946-3401-04	18

TENNESSEE D.O.T.
DESIGN DIVISION
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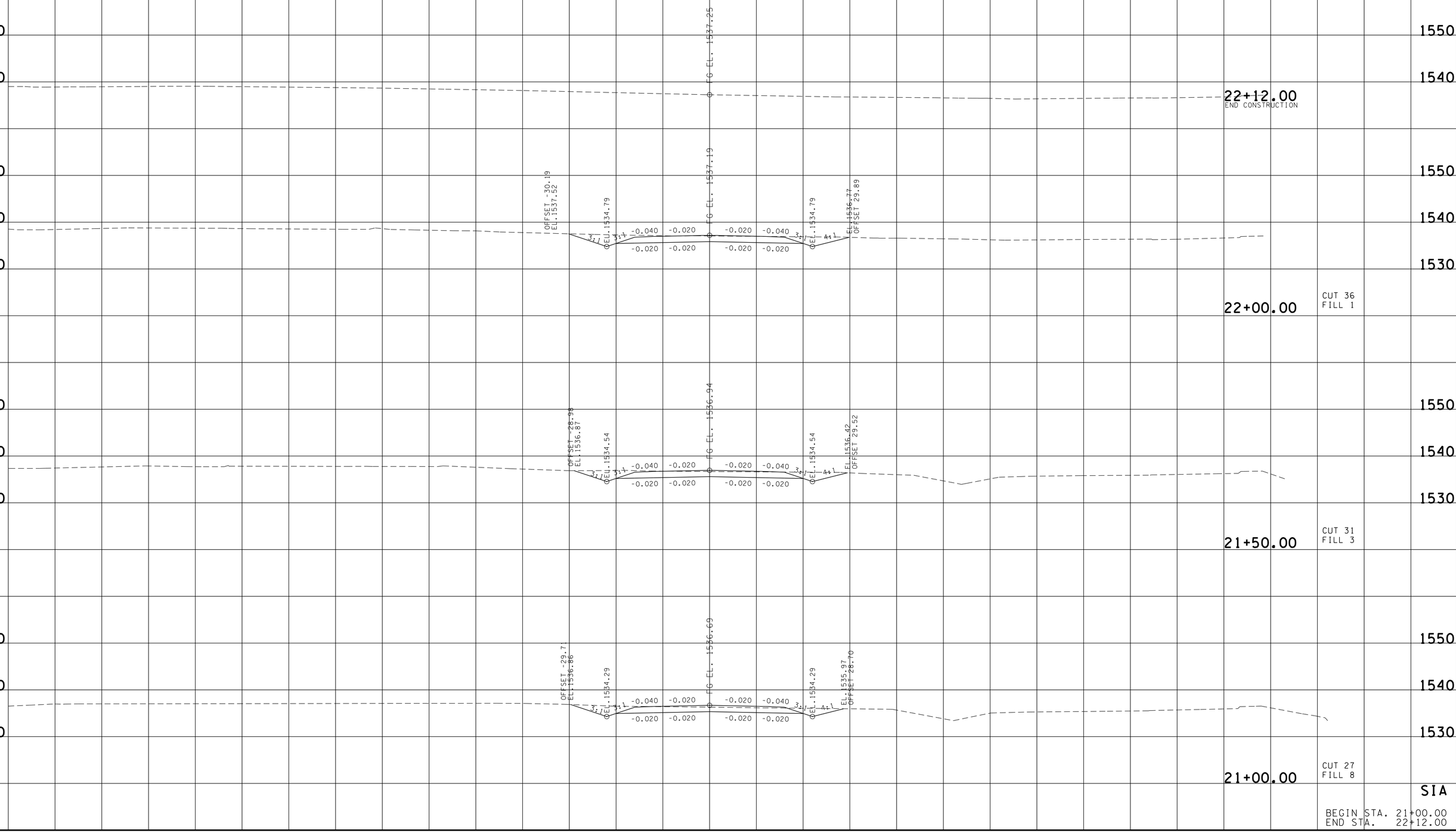

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