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

Index Of Sheets
(SEE SHEET IA)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HENRY COUNTY

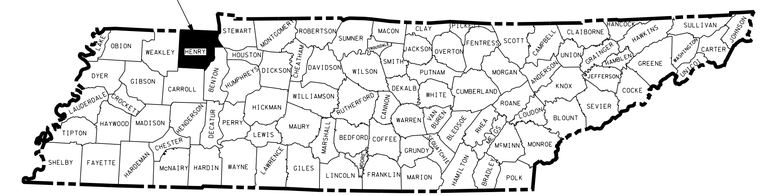
S.R. 54 (U.S. 641) FROM NEAR RISON STREET
TO NEAR SMITH ROAD

CONSTRUCTION

STATE HIGHWAY NO. 54 F.A.H.S. NO. 641

TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	NH-54(26)	
STATE PROJ. NO.	40003-3218-14	

PROJECT LOCATION



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END PROJ. NO. NH-54(26) CONST.
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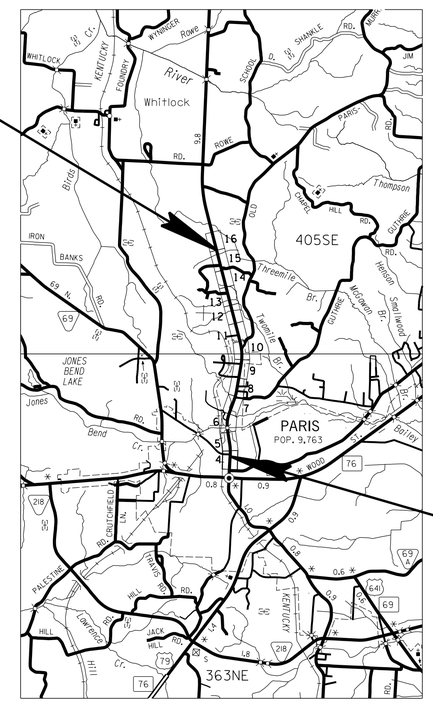

SCALE: 1" - 5280'

40003-3218-14
BEGIN PROJ. NO. NH-54(26) CONST.
STA. 15+00.00

NO EXCLUSIONS
NO EQUATIONS

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102276
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 TRANS. MANAGER 1 LARRY JORDAN
DESIGNED BY HDR|ICA
DESIGNER TERESA HAYES CHECKED BY BRIAN TROTTER, P.E.

P.E. NO. 40003-1213-14

PIN NO. 101886.01

ROADWAY LENGTH	2.753 MILES
BRIDGE LENGTH	0.024 MILES
BOX BRIDGE LENGTH	0.012 MILES
PROJECT LENGTH	2.789 MILES

TRAFFIC DATA	
ADT (2017)	7100
ADT (2037)	8520
DHV (2037)	903
D	60 - 40
T (ADT)	9 %
T (DHV)	6 %
V	40 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	1A

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STANDARD ROADWAY DRAWINGS

DWG.	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-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
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-6	01-25-16	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RD01-TS-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SD-7		INTERSECTION SIGHT DISTANCE FOR PASSIVE RAILROAD HIGHWAY GRADE CROSSINGS
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	01-25-16	UNDERDRAIN LATERAL DETAILS
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
PIPE CULVERTS AND ENDWALLS		
D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
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	01-21-16	30” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A	06-14-13	48” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
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” ENDWALLS
D-PE-1	02-12-76	TYPE “A” CONCRETE ENDWALL (2:1 SLOPE. 36” TO 78”)
D-PE-4	02-03-16	STRAIGHT TYPE CONCRETE ENDWALL
CATCH BASINS AND MANHOLES		
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
D-CB-25P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-26P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	03-19-14	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-CBB-12A	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, AND 17 TYPE CATCH BASINS
D-CBB-12B	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 6" MOUNTABLE INLET DETAILS FOR NOS. 25, 26 AND 27 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
ROADWAY AND PAVEMENT APPURTENANCES		
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	07-15-08	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-MC-1	02-28-02	STANDARD 4" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS

CONSTRUCTABILITY FIELD REVIEW

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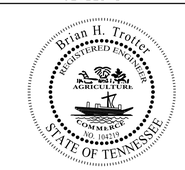

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	1A1

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
ROADWAY AND PAVEMENT APPURTENANCES		
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-H-3	01-30-15	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	01-30-15	PERPENDICULAR CURB RAMP
RP-H-5	01-30-15	PARALLEL CURB RAMP
RP-H-7	01-30-15	PERPENDICULAR CURB RAMP TYPE 1
RP-H-9	01-30-15	PARALLEL CURB RAMP TYPE 3 & 4
RP-S-7	02-05-16	DETAILS FOR STANDARD CONCRETE SIDEWALKS
RP-S-8	02-05-16	DETAILS FOR STANDARD CONCRETE STEPS AND PIPE HANDRAILS
W-CIP-1		ROADWAY FEATURES AT CAST IN PLACE RETAINING WALLS
W-MSE-1		ROADWAY FEATURES FOR MSE SEGMENTAL PRECAST FACING RETAINING WALL
W-MSE-2		ROADWAY FEATURES FOR MSE MODULAR BLOCK FACING RETAINING WALL
W-SG-1		STANDARD GRAVITY-TYPE RETAINING WALLS
SAFETY DEVICES AND FENCES		
S-CC-1	08-26-15	CRASH CUSHION
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-3		SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GRC-1		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-2	11-03-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-BPR-1	06-04-14	BIKE/PEDESTRIAN SAFETY RAIL
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10B	05-14-10	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-FG-11	05-14-10	STANDARD STOCK FENCE GATE
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
DESIGN - TRAFFIC CONTROL		
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-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-12	01-30-15	SIGNING AND PAVEMENT MARKINGS FOR URBAN BICYCLE LANES
T-M-13		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
T-M-14	11-01-11	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AT INTERSECTIONS
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL

DWG.	REV.	DESCRIPTION
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-18	03-13-09	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)
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
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS

CONSTRUCTABILITY
FIELD
REVIEW

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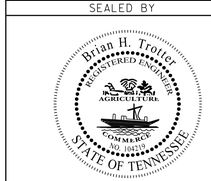

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
ROADWAY
DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	1A2

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG.	REV.	DESCRIPTION
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-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-02-15	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-15	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
SIGNALS		
T-SG-2	07-29-04	LOOP LEAD-INS CONDUIT AND PULL BOXES
T-SG-3	11-11-04	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A		ALTERNATE DETECTION DETAILS
T-SG-4		SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	12-04-13	CONTROLLER CABINET DETAILS
T-SG-7	11-01-11	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS
T-SG-7A	11-01-11	TYPICAL SIGNAL HEAD PLACEMENT
T-SG-8	12-04-13	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9	12-04-13	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	05-01-14	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	06-11-14	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	07-08-14	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	11-01-11	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
RAILROAD CROSSING		
T-RR-1	11-01-11	TYPICAL PAVEMENT MARKING AT RAILROAD-HIGHWAY GRADE CROSSINGS AND RAILROAD ADVANCE WARNING SIGN
T-RR-3	11-01-11	STANDARD DRAWING FOR RAILROAD-HIGHWAY CROSSING SIGNAL
T-RR-5	11-01-11	STANDARD DRAWING FOR RAILROAD-HIGHWAY CROSSING SIGNAL TYPICAL CANTILEVER SIGN

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
BOX CULVERTS		
STD-15-1	11-06-08	INDEX OF DRAWINGS AND TERMINOLOGY
STD-15-2	03-28-08	GENERAL NOTES
STD-15-3	02-28-03	DESIGN SECTION LIMITS
STD-15-4	12-07-01	TYPICAL SECTION AND DETAILS
STD-15-5	02-28-03	TYPICAL ELEVATION
STD-15-6	03-28-08	CURB AND RAIL DETAILS SKEW NOT LESS THAN 45 DEG.
STD-15-7	03-02-02	STANDARD EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 8"
STD-15-8	12-07-01	INTERIOR WALL END TREATMENTS
STD-15-9	02-28-03	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	03-28-08	WINGWALL & SPECIAL RETAINING WALL DESIGN SECTION
STD-15-13		WINGWALL DESIGN SECTION
STD-15-14	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-15-15		BACKFILL AND DRAINAGE DETAILS
STD-15-16A		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-15-19		SIDEWALK AND MISCELLANEOUS DETAILS
STD-15-20		WARPED SLOPE DETAIL
STD-15-21	03-02-02	STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-8")
STD-15-22	02-28-03	EXTENSION DETAILS
STD-15-23	12-07-01	EXTENSION DETAILS FOR SCOURED OUTLET
STD-15-25	11-01-10	PRECAST BOX CULVERT DETAILS
STD-15-26		PRECAST BOX CULVERT DETAILS
STD-15-27		PRECAST BOX CULVERT DETAILS
STD-15-28		PRECAST BOX CULVERT DETAILS
STD-15-29		PRECAST BOX CULVERT DETAILS
STD-15-35		BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL
STD-15-89		BOX BRIDGE, 3 BARRELS AT 18', CLEAR HTS. 9' - 13', 0 - 60' FILL

CONSTRUCTABILITY
FIELD
REVIEW

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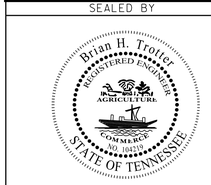

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STAND. TRAFFIC OPERATIONS AND STRUCTURE DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	1B

PROJECT COMMITMENTS

EDHZ001

An Asbestos Containing Material (ACM) survey was conducted on Bridge No. 40SR0540019, SR-54 over CSX Railroad, LM 11.66 (40-54-11.66). No ACM was detected. No special accommodations for demolition and waste disposal are anticipated for these structures and the material can be deposited in a C&D landfill. Prior to the demolition of any structure (bridge or building), the contractor is required to submit the National Emission Standards for Hazardous Air Pollutants standard 10-day notice of demolition to the Tennessee Division of Air Pollution Control (Standard Specifications for Road and Bridge Construction (January 1, 2015) Sections 107.08 D and 202.03).

EDHZ003

To minimize the risk to construction workers, TDOT is committed to the removal of Asbestos-Containing Materials (ACM) from bridges that are being demolished, rehabilitated or repaired. Bridges No. 40SR0540021, SR-54 over Jones Bend Creek, LM 11.78 (40-54-11.78), has ACM in the black expansion material under the diaphragms at the abutments. All material of this nature should be treated as asbestos-containing. Abatement of this material should be accomplished per SP202ACM Special Provision Regarding Removal of Asbestos-Containing Materials. ACM abatement should be completed prior to any demolition activities. State of Tennessee asbestos accreditation requirements (TCA 1200-01-20) mandate that ACM abatement work be performed by an accredited firm (contractor) using accredited abatement workers and supervisors.

CONSTRUCTABILITY FIELD REVIEW

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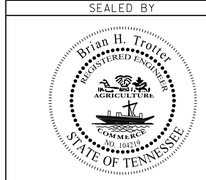

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
	202-04.01	REMOVAL OF STRUCTURES (3-SPAN BRIDGE #40-54-11.66, STA.29+43)	LS	1
	202-04.02	REMOVAL OF STRUCTURES (4-SPAN BRIDGE #40-54-11.78, STA. 35+48)	LS	1
	202-04.03	REMOVAL OF STRUCTURES (10' X 8' RCBC, STA. 48+16)	LS	1
(2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	116155
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	77951
	203-03.10	SELECT GRANULAR MATERIAL	TON	56639
(28)	203-05	UNDERCUTTING	C.Y.	5000
(3)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	172
	204-08	FOUNDATION FILL MATERIAL	C.Y.	304
(4)	209-05	SEDIMENT REMOVAL	C.Y.	1724
(4)	209-03.20	FILTER SOCK (8 INCH)	L.F.	6578
(4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	14301
(4)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	20855
(4)	209-08.07	ROCK CHECK DAM PER	EACH	178
(4)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	96
(4)	209-09.01	SANDBAGS	BAG	19710
(4)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	6
(4)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	116
(4)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	202
(4)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
(4)	209-40.34	CATCH BASIN PROTECTION (TYPE E)	EACH	126
(4)	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	27
(4) (13)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	100
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	23719
ALT A ----	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	85940
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	1359
(4)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	140
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	26725
	307-01.02	ASPHALT CEMENT (PG64-22) (BPMB-HM) GRADING A-S	TON	499
	307-01.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	14834
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	14297
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	34018
ALT B ---	309-01.02	PORTLAND CEMENT (A-CBC)	TON	1314
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	102
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	201
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	797
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	75
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	23
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	9059
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	436
(7)	602-04.01	STEEL STRUCTURES (16' STEEL STAIRCASE W/HANDRAIL MOUNTED TO WALL #3)	LS	1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	188
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	38751
(8)	604-07.01	RETAINING WALL #1 (STA.24+50 TO STA. 30+25 RT.)	S.F.	3623
(8)	604-07.02	RETAINING WALL #2 (STA. 42+50 TO STA. 45+00 LT.)	S.F.	4624
(8)	604-07.03	RETAINING WALL #3 (STA. 125+50 TO STA. 128+80 LT.)	S.F.	2861
(8)	604-07.04	RETAINING WALL #4 (STA. 158+00 TO STA. 161+00 LT.)	S.F.	1106
(8)(9)	604-07.05	RETAINING WALL (GRAVITY WALL STA. 46+84.66 TO STA. 47+24.53 RT.)	S.F.	174
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	13353
	607-03.05	18" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	230
	607-03.30	18" PIPE CULVERT	L.F.	36
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1448
	607-05.30	24" PIPE CULVERT	L.F.	52
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	558
	607-06.05	30" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	285
	607-06.30	30" PIPE CULVERT	L.F.	87
	607-07.30	36" PIPE CULVERT	L.F.	46
	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	146
	607-08.05	42" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	81
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	176
	607-09.05	48" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	118
	607-16.01	23"X 14" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	30
	607-37.02	18" CORRUGATED METAL PIPE CULVERT	L.F.	4
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	209
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	23
	607-39.04	30" PIPE CULVERT (SIDE DRAIN)	L.F.	112
	611-02.11	JUNCTION BOX, TYPE 2	EACH	2
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	31
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	538
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	12
	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	6
	611-07.69	48IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
(10)	611-09.03	CAPPING EXISTING CATCHBASIN	EACH	4
(25)	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	20
(25)	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	45
	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	3
	611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	4
(26)	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	18
	611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	2
	611-14.04	CATCH BASINS, TYPE 14, > 12' - 16' DEPTH	EACH	2
	611-14.05	CATCH BASINS, TYPE 14, > 16' - 20' DEPTH	EACH	2
	611-14.06	CATCH BASINS, TYPE 14, > 20' - 24' DEPTH	EACH	1
	611-14.07	CATCH BASINS, TYPE 14, > 24' - 28' DEPTH	EACH	1
	611-25.01	CATCH BASINS, TYPE 25, 0' - 4' DEPTH	EACH	2
(27)	611-25.02	CATCH BASINS, TYPE 25, > 4' - 8' DEPTH	EACH	7
(27)	611-25.03	CATCH BASINS, TYPE 25, > 8' - 12' DEPTH	EACH	1
	611-26.02	CATCH BASINS, TYPE 26, > 4' - 8' DEPTH	EACH	1
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	20
	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	1
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	396
	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	983
(24)	621-05.02	TEMPORARY SHORING	LS	1

NOTE: SEE SHEET 2A2 FOR ALL FOOTNOTES

CONSTRUCTABILITY FIELD REVIEW

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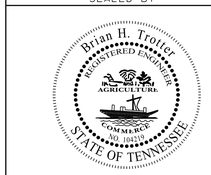

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2A1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	74028
	701-02	CONCRETE DRIVEWAY	S.F.	26123
	701-02.03	CONCRETE CURB RAMP	S.F.	2458
(6)	702-01	CONCRETE CURB	C.Y.	3
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	2291
	703-01	CEMENT CONCRETE DITCH PAVING	C.Y.	20
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	108
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	4
(11)	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	5
	706-01	GUARDRAIL REMOVED	L.F.	2175
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	445
	707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	4
	707-01.13	GATE - CHAIN-LINK FENCE-6 FOOT (5' WALK THRU GATE W/LOCK & KEY)	EACH	1
(4)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	3960
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	16
	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	4400
(12)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	257
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	59
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	416
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	24882
	710-05	LATERAL UNDERDRAIN	L.F.	128
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	8
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1960
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	688
	712-06	SIGNS (CONSTRUCTION)	S.F.	963
	712-06.01	VERTICAL PANELS	S.F.	196
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	280
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	1488
	713-11.01	"U" SECTION STEEL POSTS	LB.	
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	
(14)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
(5)	713-16.20	SIGNS (LED BLANKOUT)	EACH	2
	716-01.21	Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	413
	716-01.22	Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color)	EACH	333
(15)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	11
(15)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	385
(15)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	30
(15)	716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	0.1
(15)	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	2
(15)	716-03.02	PLASTIC WORD PAVEMENT MARKING (RXR)	EACH	2
(15)	716-04.11	PLASTIC PAVEMENT MARKING (BICYCLE SYMBOL W/RIDER)	EACH	22
(15)	716-04.13	PLASTIC PAVEMENT MARKING (BIKELANE SYMBOL & ARROW)	EACH	22
(15)	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(16)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	11.9
(16)	716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	1.7
(15)	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	1.2
(15)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	13.5
	717-01	MOBILIZATION	LS	1
	725-22.72	2IN CONDUIT BORED	L.F.	811
	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1
(17)	730-01.04	MODIFICATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT	LS	1
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	8
	730-03.20	INSTALL PULL BOX (TYPE A)	EACH	6
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	7
(18)	730-05.04	MODIFY EXISTING ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	1206
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	971
(19)	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	463
(19)	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	172
(19)	730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	9
	730-13.03	VEHICLE DETECTOR (4 - CHANNEL, RACK MOUNT)	EACH	4
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	998
	730-14.02	SAW SLOT	L.F.	970
	730-14.03	LOOP WIRE	L.F.	2470
	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1
(20)	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	1
	730-23.30	PEDESTAL POLE (PEDESTRIAN)	EACH	2
	730-23.36	CANTILEVER SIGNAL SUPPORT (2 @ 45' & 50')	EA	1
	730-23.95	CANTILEVER SIGNAL SUPPORT (2 @ 45' & 45')	EACH	1
	730-24.01	FOUNDATION (SIGNAL SUPPORT)	EACH	2
	730-24.07	FOUNDATION (PEDESTRIAN POLE)	EACH	2
	730-26.03	PEDESTRIAN SIGNAL HEAD, PUSHBUTTON & 12" SIGN	EACH	8
	730-35.06	BATTERY BACK-UP AND POWER CONDITIONER	EACH	1
(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	8728
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	477
(4)	740-11.01	TEMPORARY SEDIMENT TUBE 8IN (EROSION CONTROL)	L.F.	40992
(4)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2580
(21)	801-03	WATER (SEEDING & SODDING)	M.G.	1401
(22)	803-01	SODDING (NEW SOD)	S.Y.	114246
(23)	806-02.03	PROJECT MOWING	CYCL	4

NOTE: SEE SHEET 2A2 FOR ALL FOOTNOTES

CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2A2

ESTIMATED BRIDGE QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	419
(1)	604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	113393

(1) INCLUDES ANY ADDITIONAL COST FOR EPOXY-COATED STEEL

(1) SEE SHEET 2S FOR TABULATION OF ITEMS TO BE REMOVED.

(2) INCLUDES 630 C.Y. FOR EPSC MEASURES

(3) FLOWABLE FILL IS USED TO FILL AND ABANDON EXISTING DRAINAGE STRUCUTRES, SEE SHEET 2U FOR TABULATION OF ITEMS TO BE ABANDONED

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

(5) R3-1A AND R3-2A LED BLANK-OUT SIGNS TO BE INSTALLED ON MAST ARMS OF PROPOSED SIGNAL POLES. SEE SHEET 30 FOR DETAILS.

(6) TO BE USED AT THE BUSINESS ENTRANCE STA. 84+96.34 LT.

(7) SEE SHEET 13B FOR ADDITIONAL INFORMATION

(8) THE RETAINING WALL PAY QUANTITY IS BASED ON THE SURFACE AREA BETWEEN THE TOP OF THE RETAINING WALL AND 2'-0" BELOW THE GROUND LINE.

(9) SEE STD. DWG. W-SG-1 FOR DETAILS

(10) SEE TABULATION SHEET 2U FOR LOCATIONS

(11) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THEY PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.

(12) INCLUDES 250 TON FOR EPSC MEASRUES AND 7 TON FOR OUTLET PROTECTION AT SELECTED SIDE DRAINS

(13) DIVERSION CHANNEL INCLUDES THE COST OF TEMPORARY LINER, AS APPROVED BY THE ENGINEER, TO PREVENT EROSION, SILTATION COLLECTION AND RUNOFF INTO STR-4 DURING CONSTRUCTION OF THE NEW CROSS DRAIN AT STA. 103+76.01

(14) REMOVE SIGN, SUPPORT AND FOOTINGS ON EXISTING SIGNS WITHIN THE LIMITS OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER

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

(16) FOR USE AS TEMPORARY TRAFFIC CONTROL MARKING ON INTERMEDIATE LAYERS OF PAVEMENT ONLY

(17) ITEM INCLUDES ALL WORK AND AUXILIARY EQUIPMENT REQUIRED FOR CONNECTION OF LED BLANKOUT SIGNS AND MODIFICATIONS WITHIN THE EXISTING RAILROAD CONTROLLER CABINET FOR BLANKOUT SIGN OPERATION.

(18) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNALS. CHARGES SHALL BE INCLUDED IN THE BID FOR THIS ITEM. INCLUDES THE COST OF THE STEEL CONDUIT RISER ASSEMBLIES AND PROPOSED POWER CABLE OVERHEAD AS REQUIRED.

(19) ALL TRENCH EXCAVATION IS CONSIDERED UNCLASSIFIED AND SHALL NOT BE MEASURED AND PAID FOR SEPARATELY ALL COSTS ASSOCIATED WITH TRENCH EXCAVATION SHALL BE INCLUDED IN THE LINEAR FOOT COST OF THE CONDUIT.

(20) ITEM INCLUDES ALL AUXILIARY EQUIPMENT TO PROVIDE SIGNALIZATION CONTROL AS SPECIFIED IN THE PLANS, AND ALL HARDWARE NECESSARY FOR A FULLY OPERATIONAL SIGNAL

(21) INCLUDES 258 MG FOR TEMPORARY EPSC MEASURES

(22) INCLUDES 1735 SY FOR DITCH LINING AND 112511 SY FOR PERMANENT SLOPE STABILIZATION.

(23) 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.

(24) FOR USE IN REMOVAL OF EXISTING BRIDGE STRUCTURE AT STA. 29+43 AND CONSTRUCTION OF EMBANKMENT AND RETAINING WALL AT THAT LOCATION

(25) ELIMINATE CURB IRON ON CB #1115 & #1116

(26) ELIMINATE CURB IRON ON CB #1118

(27) ELIMINATE CURB IRON ON CB #613 & #1104

(28) TO BE USED WHERE AND AS DIRECTED BY THE ENGINEER

CONSTRUCTABILITY
FIELD
REVIEW

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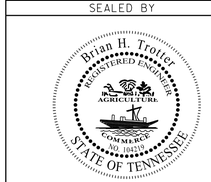

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2B

CONSTRUCTABILITY
FIELD
REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
UTILITIES
QUANTITIES

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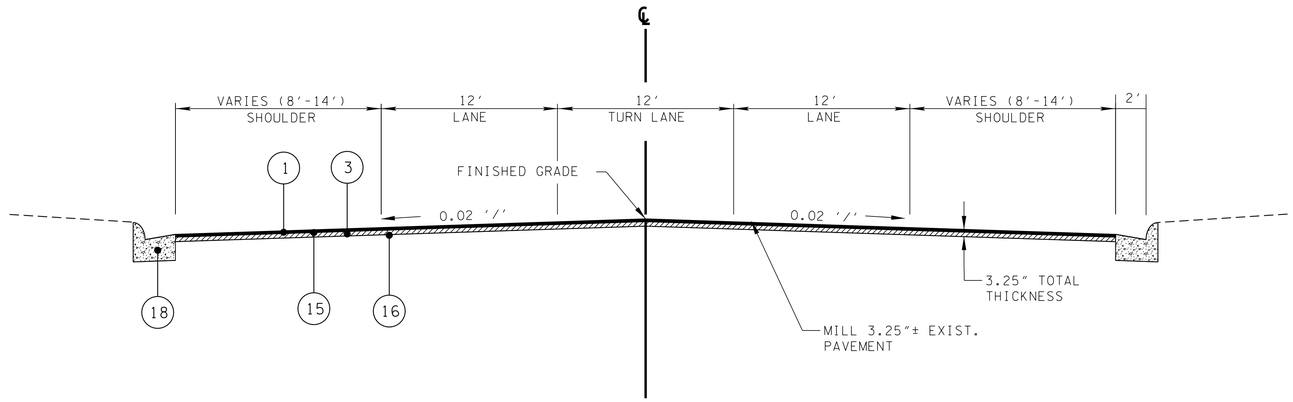
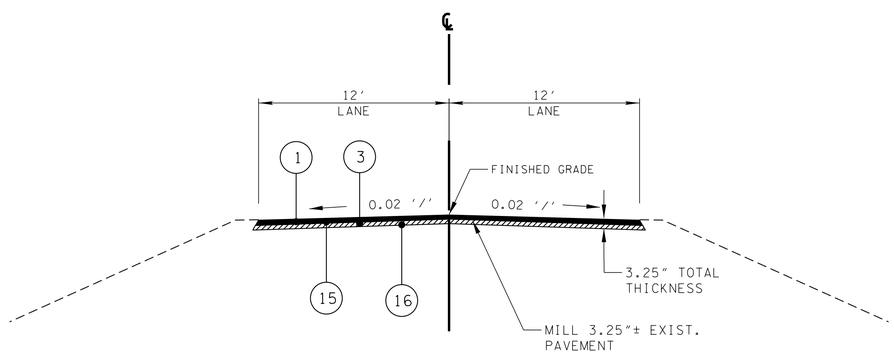
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2C



S.R. 54 TANGENT OVERLAY TYPICAL SECTION
(STD. DWG. RD01-TS-6A)
STA. 15+00.00 TO STA. 16+50.14

SEE SHEET 2P FOR
PAVEMENT SCHEDULE



S.R. 54 TANGENT OVERLAY TYPICAL SECTION
STA. 161+50.00 TO STA. 162+25.00

CONSTRUCTABILITY
FIELD
REVIEW

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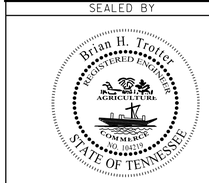

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

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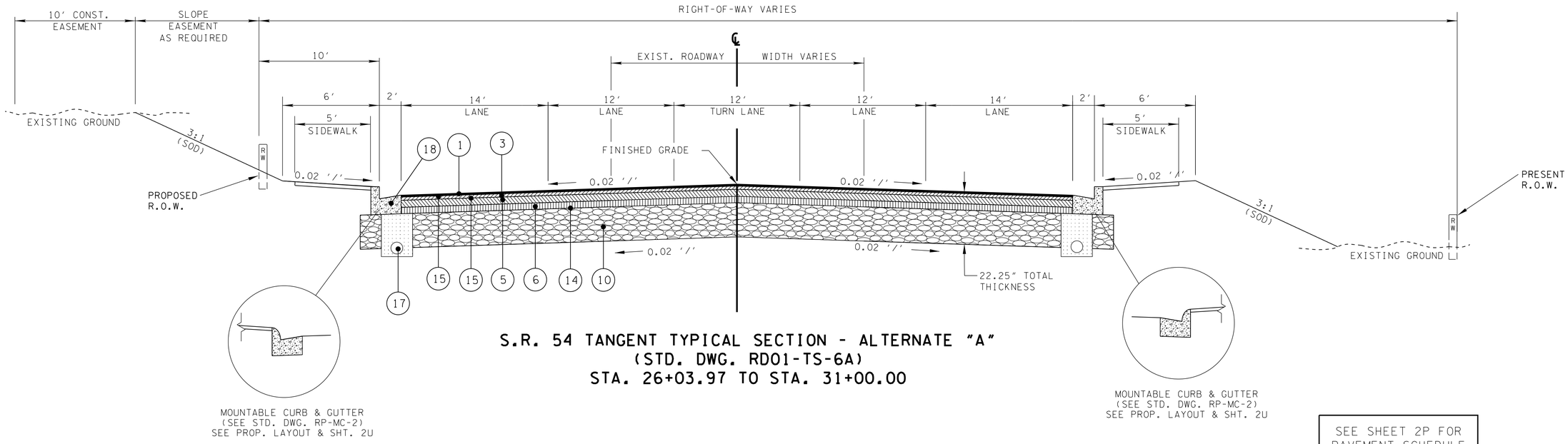
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

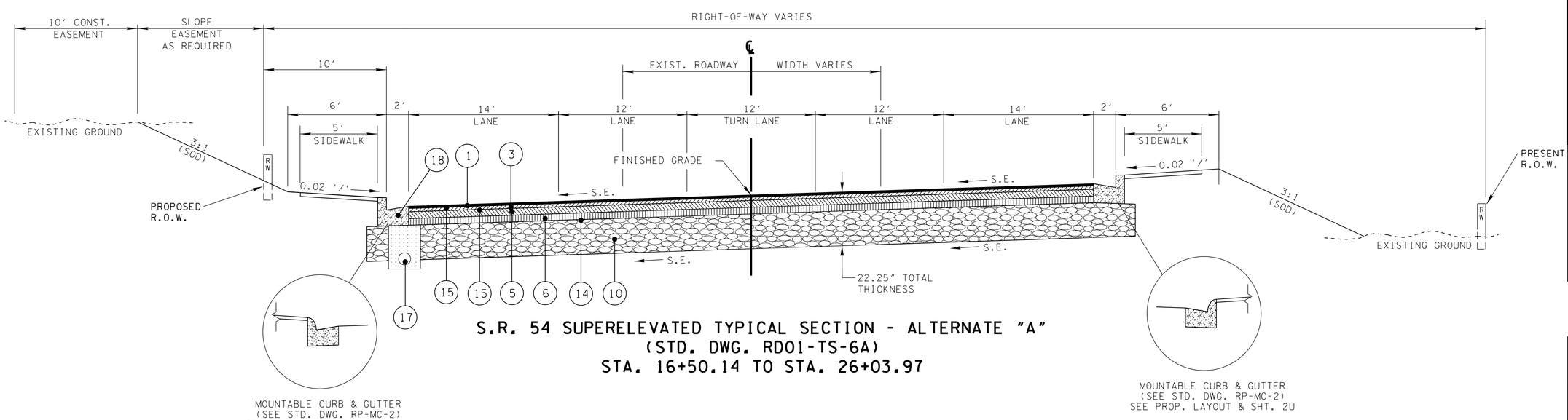
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	2
CONST.	2017	NH-54(26)	2D

REV. 06-22-12: ADDED NOTES & DETAIL FOR MOUNTABLE CURB & GUTTER



S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "A"
(STD. DWG. RD01-TS-6A)
STA. 26+03.97 TO STA. 31+00.00

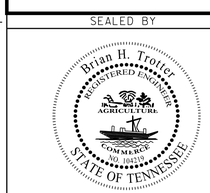
SEE SHEET 2P FOR PAVEMENT SCHEDULE



S.R. 54 SUPERELEVATED TYPICAL SECTION - ALTERNATE "A"
(STD. DWG. RD01-TS-6A)
STA. 16+50.14 TO STA. 26+03.97

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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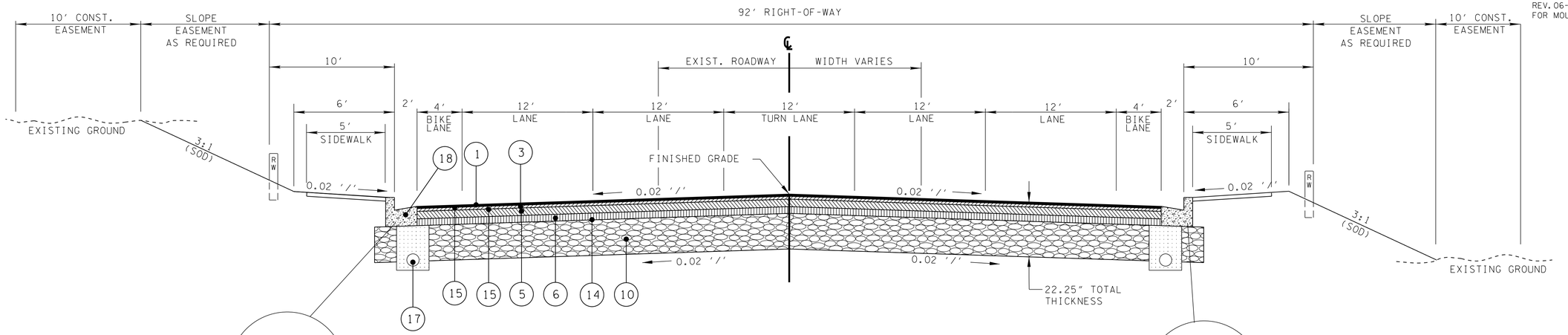
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	2A
CONST.	2017	NH-54(26)	2E

REV. 06-22-12: ADDED NOTES & DETAIL FOR MOUNTABLE CURB & GUTTER

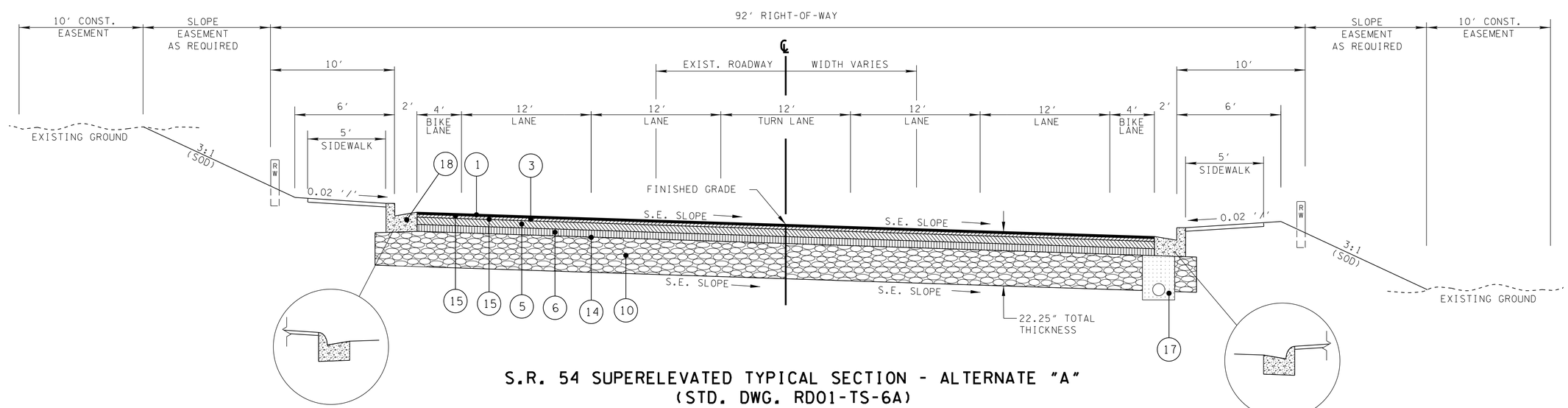


MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "A"
(STD. DWG. RD01-TS-6A)
STA. 31+00.00 TO STA. 32+72.54 (INCLUDES TRANSITION)
STA. 45+06.70 TO STA. 55+91.39
STA. 64+02.85 TO STA. 79+17.04
STA. 96+94.49 TO STA. 101+50.00

MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

SEE SHEET 2P FOR PAVEMENT SCHEDULE



MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

S.R. 54 SUPERELEVATED TYPICAL SECTION - ALTERNATE "A"
(STD. DWG. RD01-TS-6A)
STA. 32+72.54 TO STA. 45+06.70
STA. 55+91.39 TO STA. 64+02.85
STA. 79+17.04 TO STA. 96+94.49

MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

CONSTRUCTABILITY FIELD REVIEW

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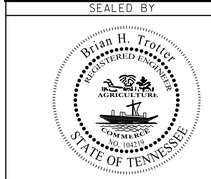

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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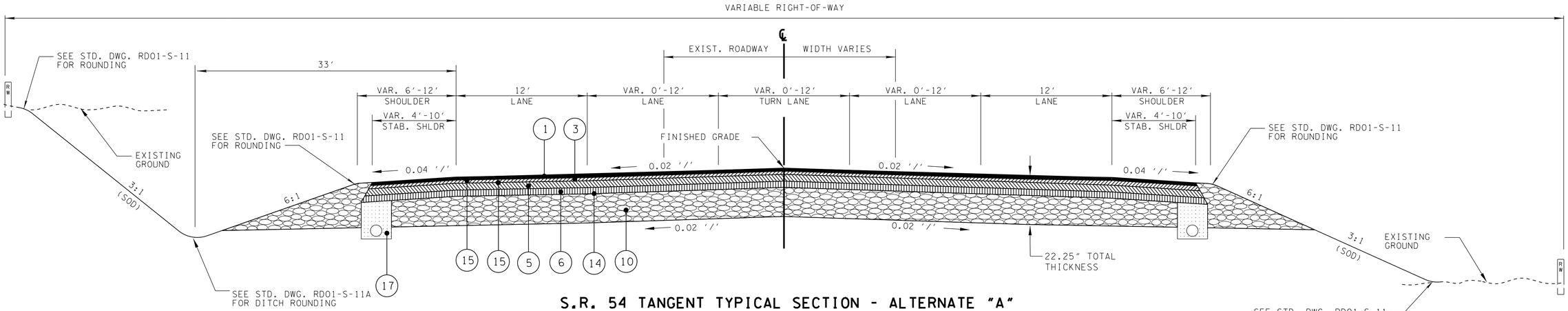
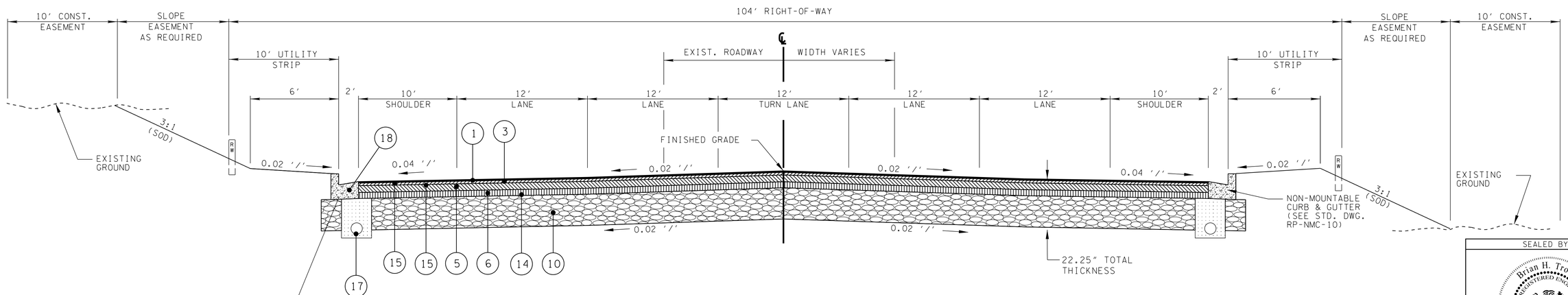
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	2B
CONST.	2017	NH-54(26)	2F

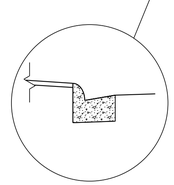
REV. 06-22-12: ADDED NOTES & DETAIL FOR MOUNTABLE CURB & GUTTER



S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "A"
(STD. DWG. RD01-TS-3C)
STA. 152+70.00 TO STA. 161+50.00 (INCLUDES TRANSITION)



S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "A"
(STD. DWG. RD01-TS-6)
STA. 101+50.00 TO STA. 102+50.00 (TRANSITION)
STA. 102+50.00 TO STA. 152+70.00 (INCLUDES TRANSITION)

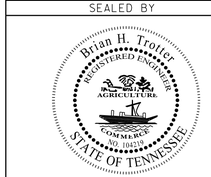


MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

SEE SHEET 2P FOR PAVEMENT SCHEDULE

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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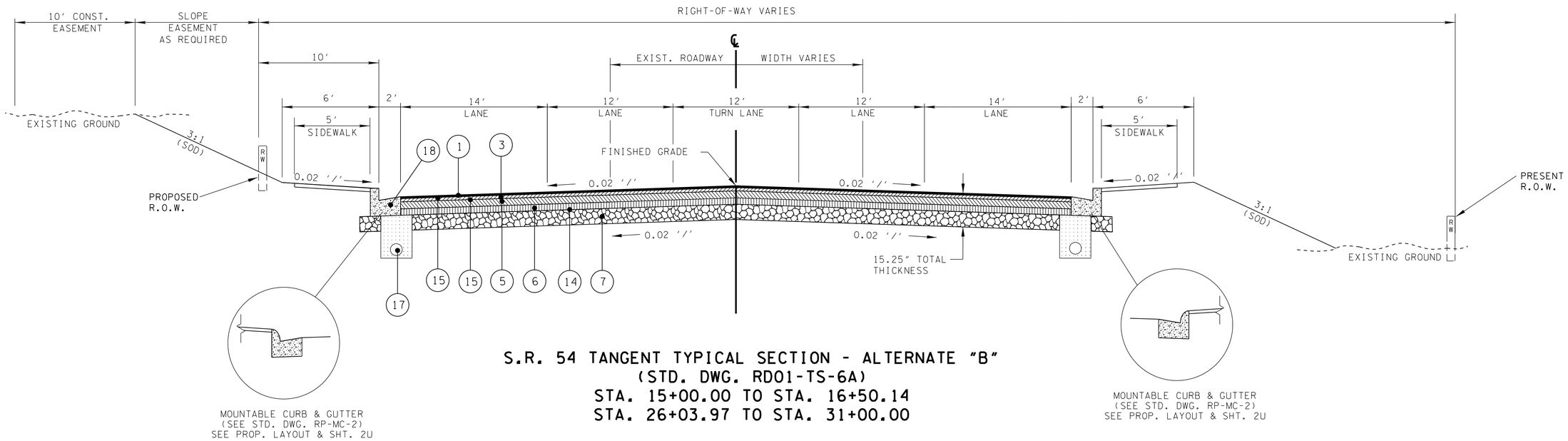
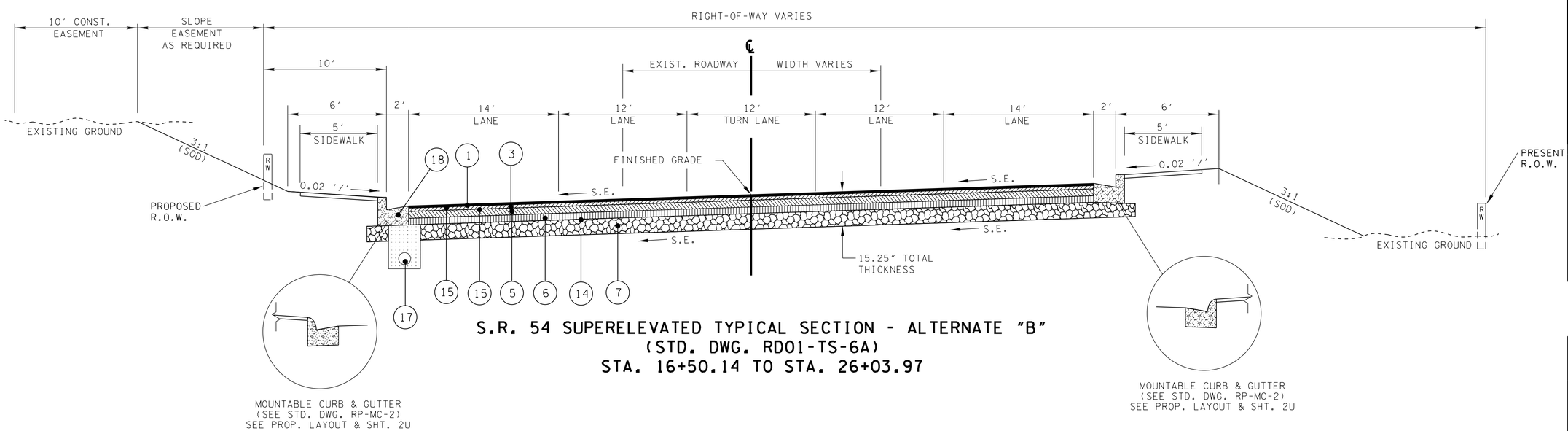
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2G



S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "B"
(STD. DWG. RD01-TS-6A)
STA. 15+00.00 TO STA. 16+50.14
STA. 26+03.97 TO STA. 31+00.00

SEE SHEET 2P FOR PAVEMENT SCHEDULE



S.R. 54 SUPERELEVATED TYPICAL SECTION - ALTERNATE "B"
(STD. DWG. RD01-TS-6A)
STA. 16+50.14 TO STA. 26+03.97

CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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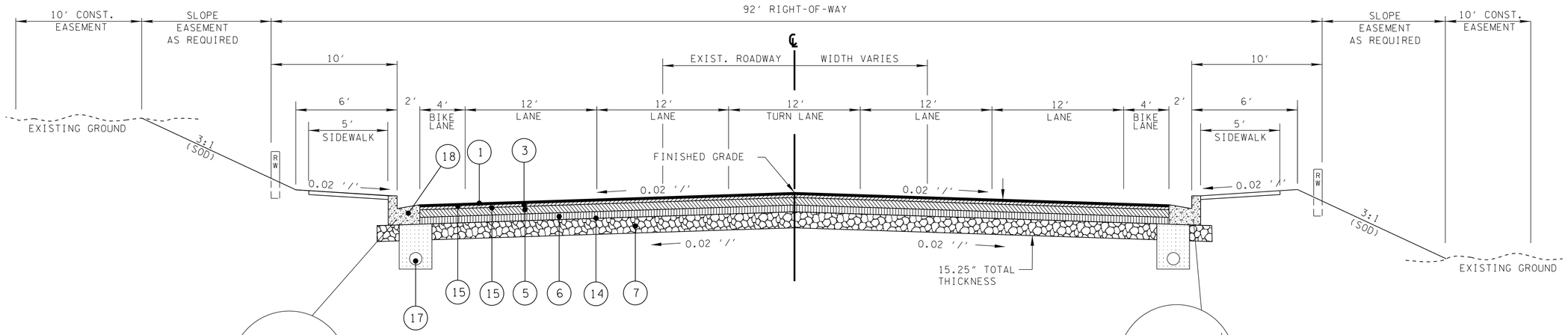
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2H

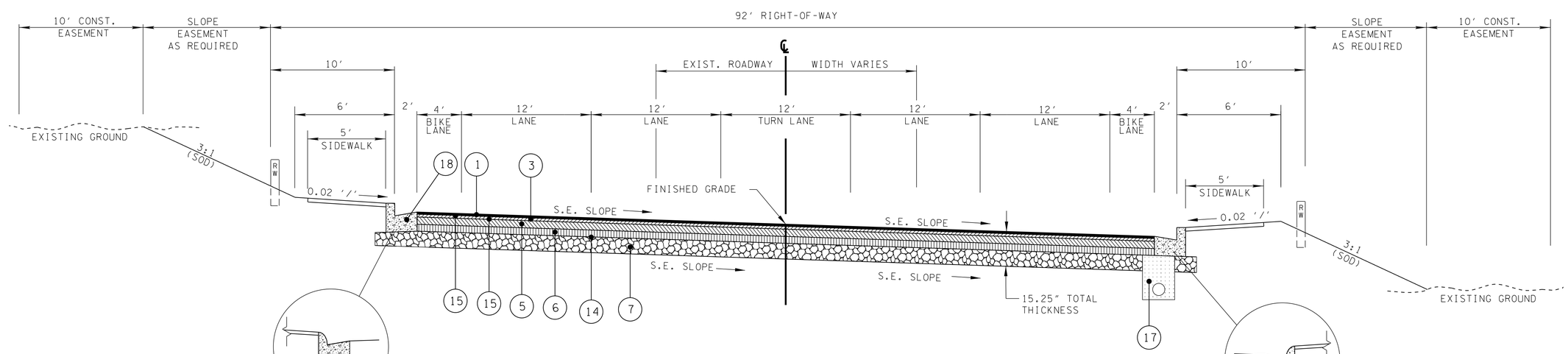


MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "B"
(STD. DWG. RD01-TS-6A)
STA. 31+00.00 TO STA. 32+72.54 (INCLUDES TRANSITION)
STA. 45+06.70 TO STA. 55+91.39
STA. 64+02.85 TO STA. 79+17.04
STA. 96+94.49 TO STA. 101+50.00

MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

SEE SHEET 2P FOR PAVEMENT SCHEDULE



MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

S.R. 54 SUPERELEVATED TYPICAL SECTION - ALTERNATE "B"
(STD. DWG. RD01-TS-6A)
STA. 32+72.54 TO STA. 45+06.70
STA. 55+91.39 TO STA. 64+02.85
STA. 79+17.04 TO STA. 96+94.49

MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

CONSTRUCTABILITY FIELD REVIEW

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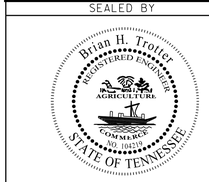

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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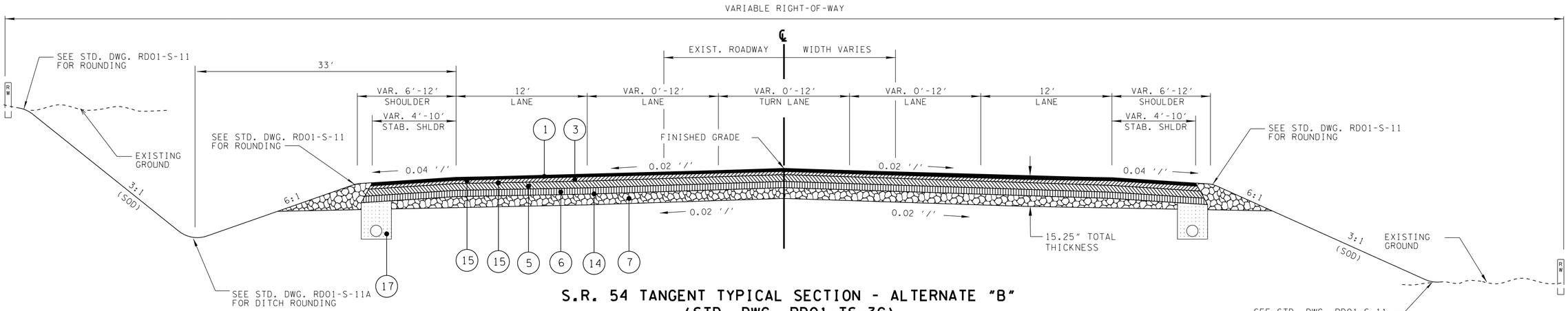
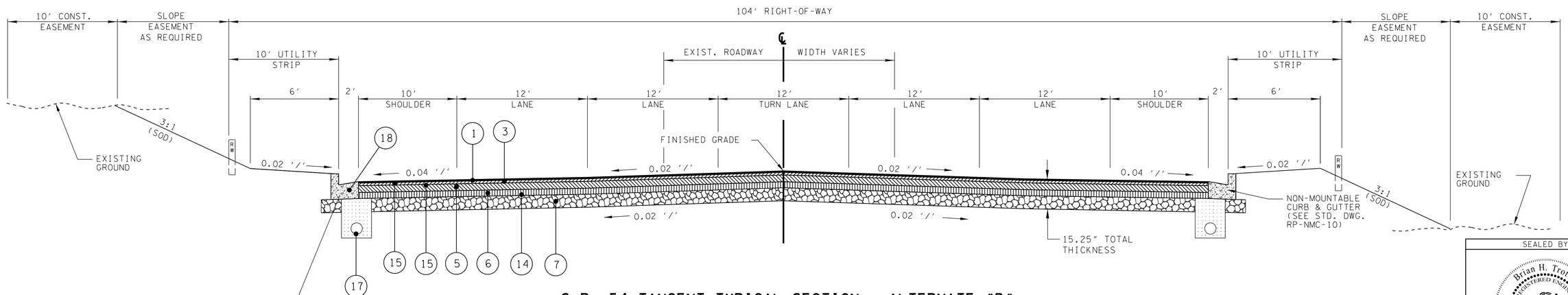
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

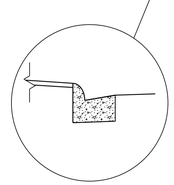
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2I



S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "B"
(STD. DWG. RD01-TS-3C)
STA. 152+70.00 TO STA. 161+50.00 (INCLUDES TRANSITION)



S.R. 54 TANGENT TYPICAL SECTION - ALTERNATE "B"
(STD. DWG. RD01-TS-6)
STA. 101+50.00 TO STA. 102+50.00 (TRANSITION)
STA. 102+50.00 TO STA. 152+70.00 (INCLUDES TRANSITION)



MOUNTABLE CURB & GUTTER
(SEE STD. DWG. RP-MC-2)
SEE PROP. LAYOUT & SHT. 2U

SEE SHEET 2P FOR PAVEMENT SCHEDULE

CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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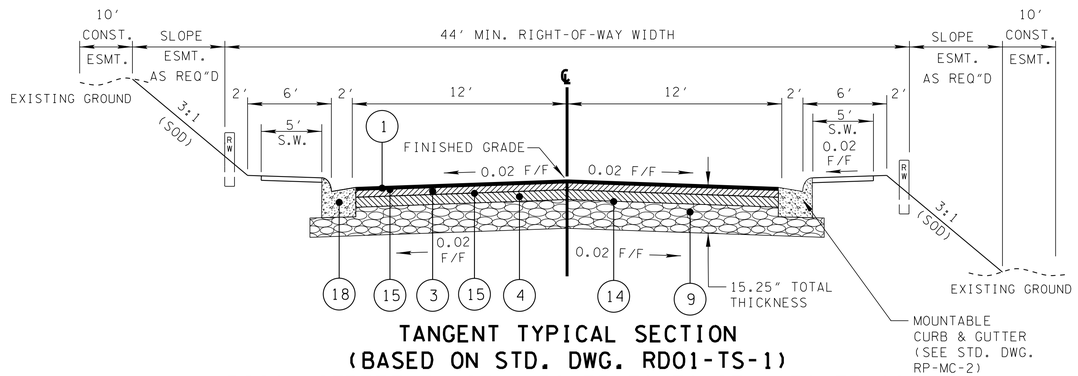
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

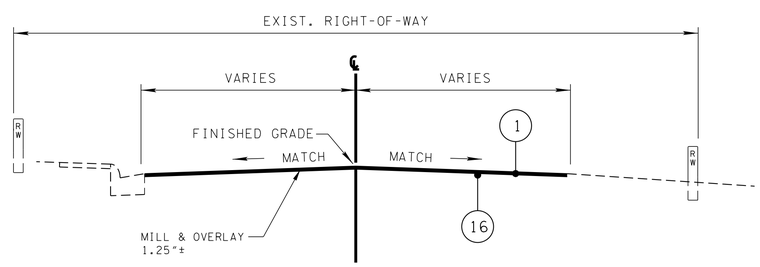
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	2C
CONST.	2017	NH-54(26)	2J

REV. 06-22-12: REPLACED CURB & GUTTER RISON STREET E. & W. WITH MOUNTABLE CURB & GUTTER



TANGENT TYPICAL SECTION
(BASED ON STD. DWG. RD01-TS-1)
RISON STREET E. STA. 30+33.78 TO STA. 30+75.00
RISON STREET W. STA. 29+25.00 TO STA. 29+65.66

SEE SHEET 2P FOR PAVEMENT SCHEDULE



OVERLAY TYPICAL SECTION
RISON STREET W. STA. 25+00.00 TO STA. 29+25.00

CONSTRUCTABILITY FIELD REVIEW

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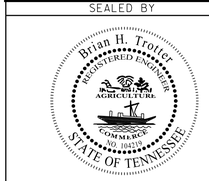

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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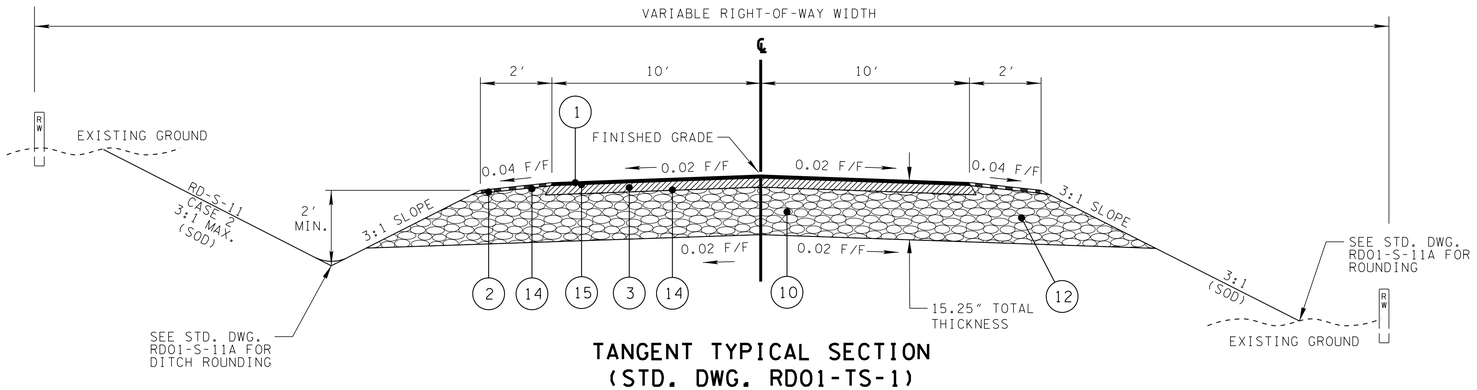
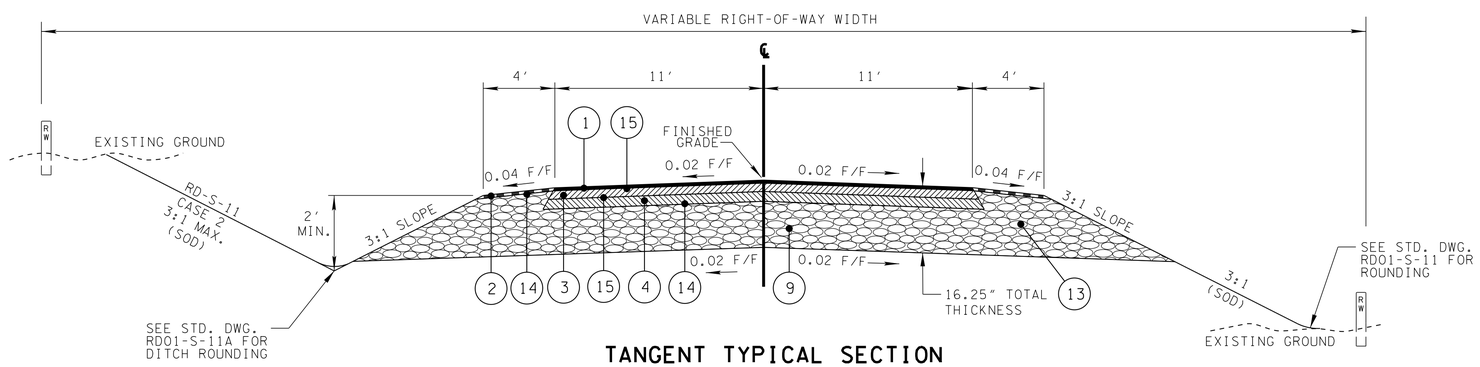
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	2D
CONST.	2017	NH-54(26)	2K



TANGENT TYPICAL SECTION
(STD. DWG. RD01-TS-1)
SPROUL HEIGHTS RD. STA. 28+50.00 TO STA. 29+64.05

SEE SHEET 2P FOR PAVEMENT SCHEDULE



TANGENT TYPICAL SECTION
(STD. DWG. RD01-TS-1)
GUTHRIE RD. STA. 30+37.22 TO STA. 31+25.00

CONSTRUCTABILITY FIELD REVIEW

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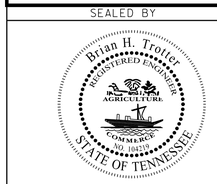

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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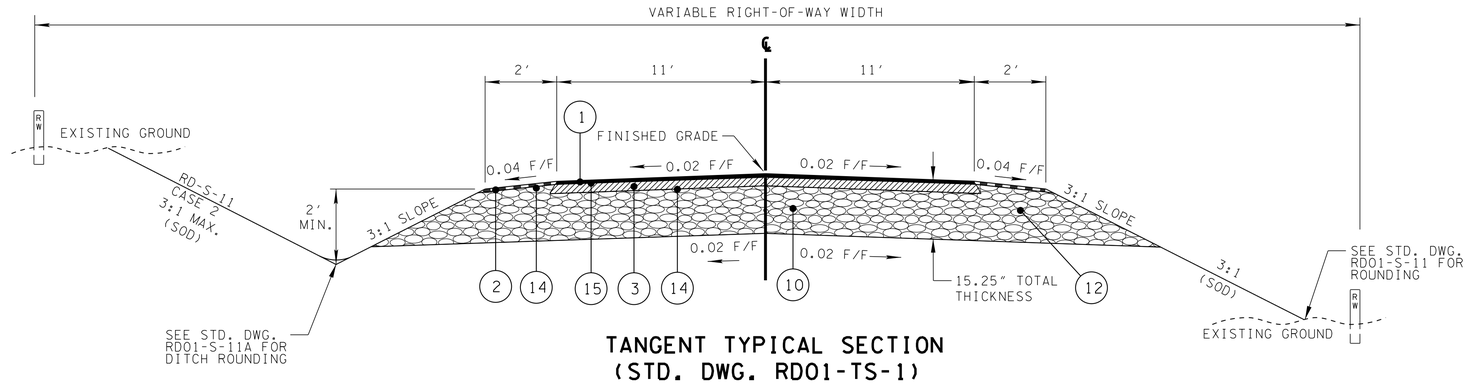
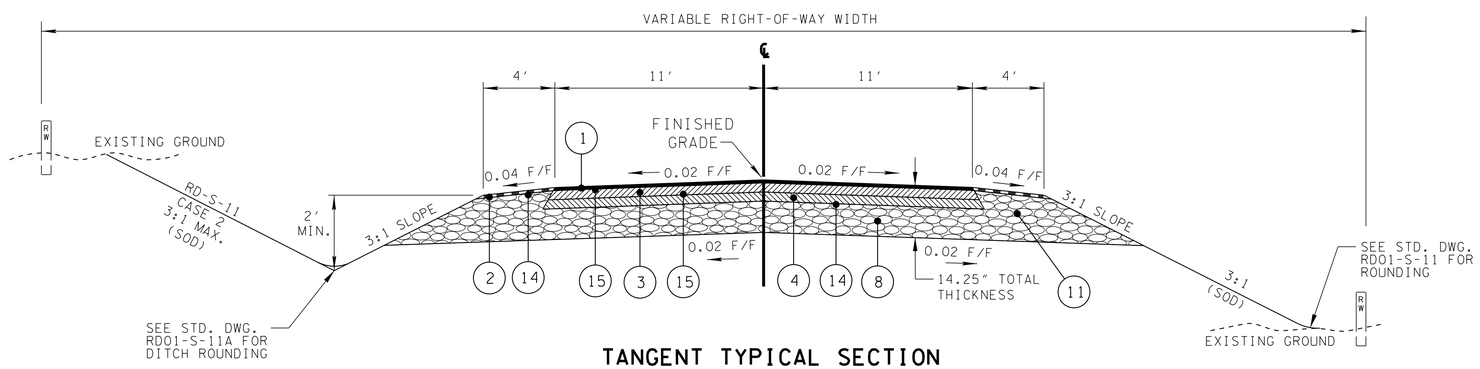
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	2E
CONST.	2017	NH-54(26)	2L



TANGENT TYPICAL SECTION
(STD. DWG. RD01-TS-1)
MIMOSA DR. STA. 30+35.66 TO STA. 31+20.00
COOK ST. STA. 30+57.32 TO STA. 31+25.00
ELM ST. STA. 28+75.00 TO STA. 29+51.50
ALLISON ST. STA. 28+75.00 TO STA. 29+63.26
LOGAN RD. STA. 27+50.00 TO STA. 29+60.53

SEE SHEET 2P FOR
PAVEMENT SCHEDULE



TANGENT TYPICAL SECTION
(STD. DWG. RD01-TS-1)
B.R. SMITH RD. STA. 28+00.00 TO STA. 29+63.38
TANGLEWOOD LN. STA. 30+42.01 TO STA. 31+40.00

CONSTRUCTABILITY FIELD REVIEW

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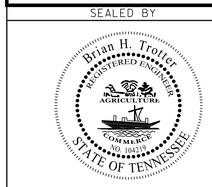

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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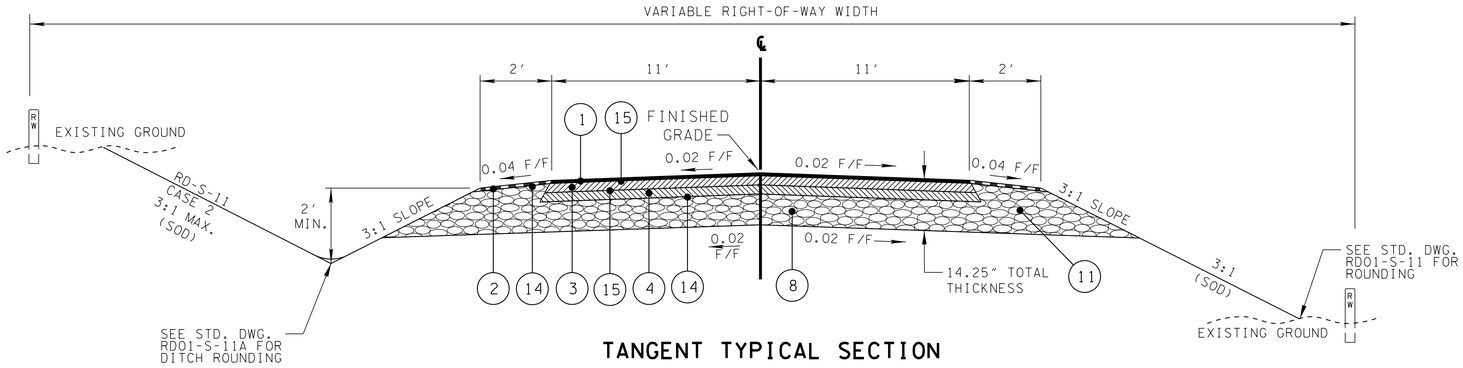
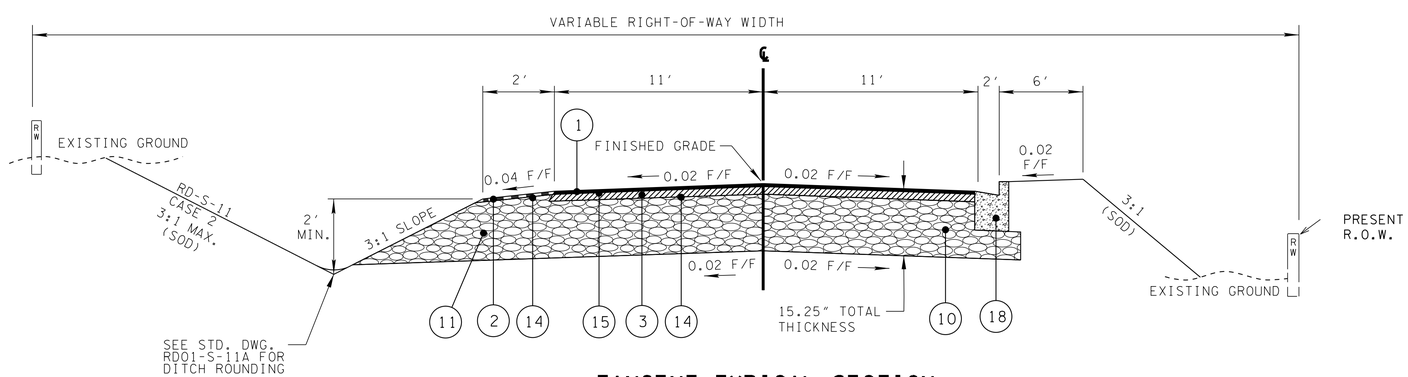
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2M



TANGENT TYPICAL SECTION
(STD. DWG. RD01-TS-1)
SMITH HEIGHTS RD. STA. 28+75.00 TO STA. 29+57.43
SMITH RD. STA. 28+75.00 TO STA. 29+62.50

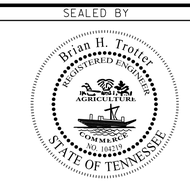
SEE SHEET 2P FOR
PAVEMENT SCHEDULE



TANGENT TYPICAL SECTION
(BASED ON STD. DWG. RD01-TS-1)
CEDAR ST. STA. 28+20.00 TO STA. 29+70.00

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

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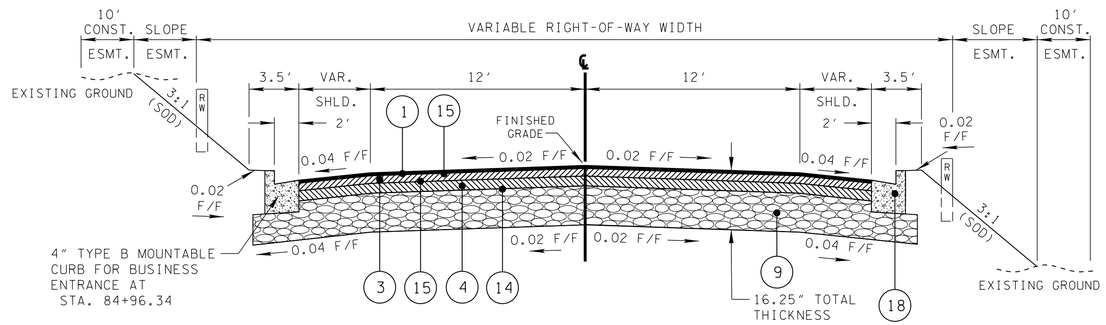
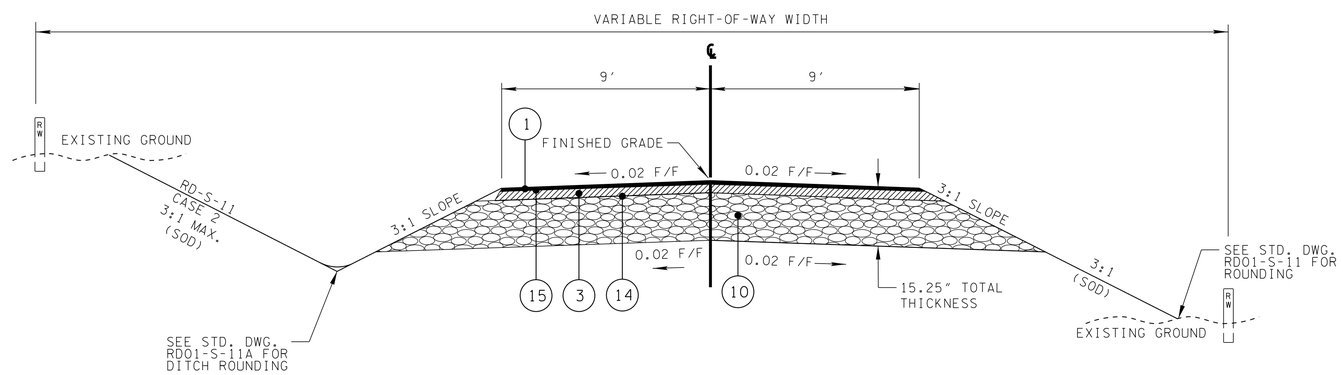
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2N



TANGENT TYPICAL SECTION
(BASED ON STD. DWG. RD01-TS-1)
OLD PARIS-MURRAY RD. STA. 30+30.00 TO STA. 32+00.00
BUSINESS ENTRANCE STA. 84+96.34 (20' WIDTH)

SEE SHEET 2P FOR PAVEMENT SCHEDULE



TANGENT TYPICAL SECTION
(STD. DWG. RD01-TS-1)
LEONARD LN.
STA. 30+44.31 TO STA. 31+30.00

CONSTRUCTABILITY FIELD REVIEW

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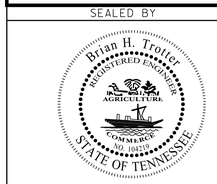

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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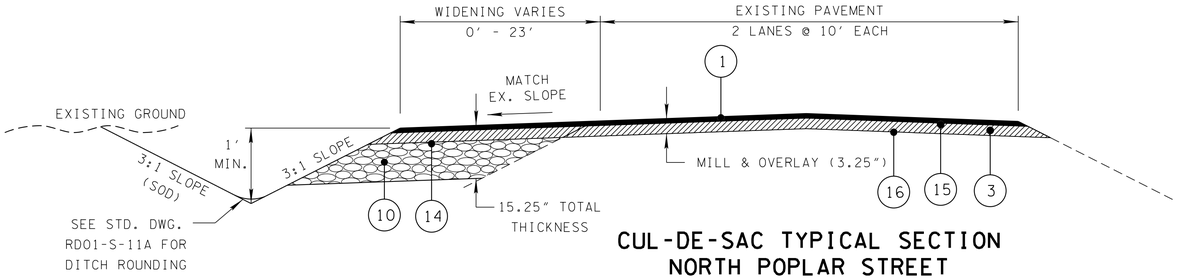
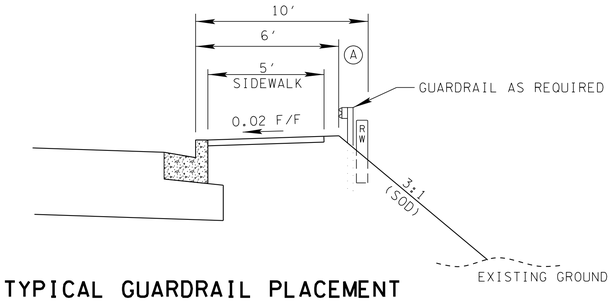
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	2F
CONST.	2017	NH-54(26)	2-0

REV 07-10-12: REMOVED RETAINING WALL DETAILS FROM SHEET, SEE RETAINING WALL CONCEPT DRAWINGS FOR INFORMATION

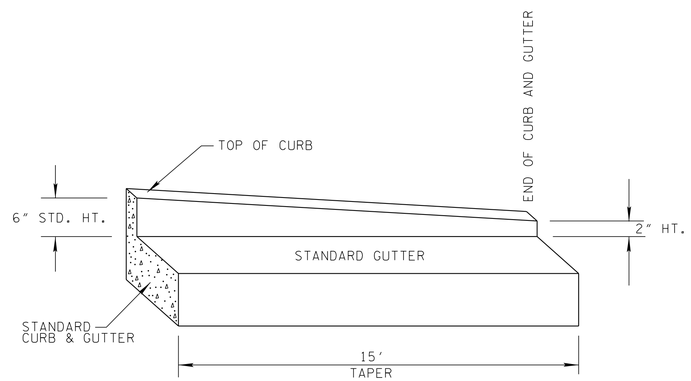


CUL-DE-SAC TYPICAL SECTION
NORTH POPLAR STREET
S.R. 54 STA. 59+09.84 TO STA. 59+65.47

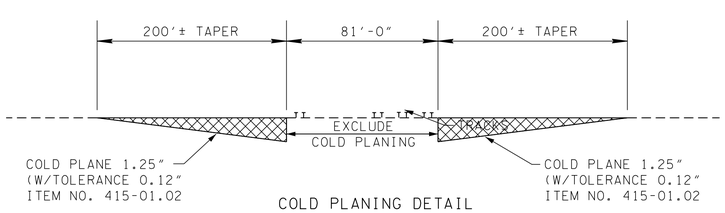


TYPICAL GUARDRAIL PLACEMENT

(A) GUARDRAIL SHOWN FOR PLACEMENT PURPOSES ONLY, SEE PLANS FOR PROPOSED LOCATIONS.



TYPICAL CURB TAPER DETAIL

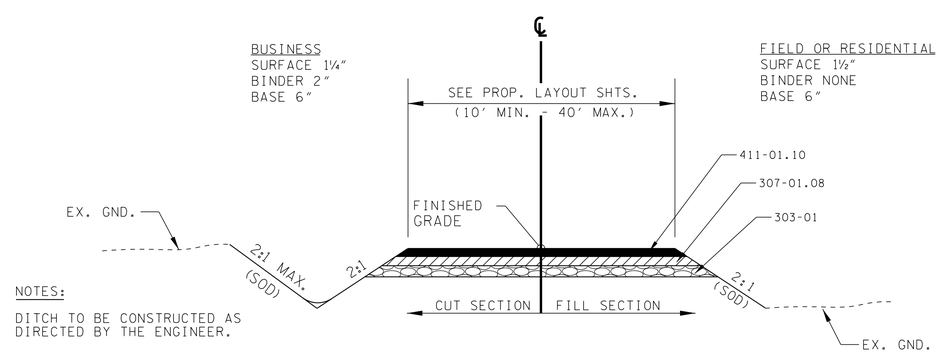


COLD PLANING DETAIL
APPROACHES TO
RR CROSSINGS #3447142C
AND #344714R

NOTES:

COLD PLANE AS CLOSE AS PRACTICAL TO THE FIELD SIDES OF THE RAILROAD CROSSING.

TO CREATE A SMOOTH TRANSITION ACROSS THE RAILROAD'S CROSSING, THE SURFACE MIX SHALL BE CARRIED UP TO AND LEVEL WITH THE FIELD SIDES OF THE CROSSING.



NOTES:

DITCH TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.

FOR PAVED BUSINESS ENTRANCES SLOPES WILL BE FLATTENED TO 12:1 & DITCH ELIMINATED.

SEE R.O.W. NOTES ON SHEET 3 FOR SURFACE TREATMENT.

DRIVEWAY TYPICAL SECTION

CONSTRUCTABILITY
FIELD
REVIEW

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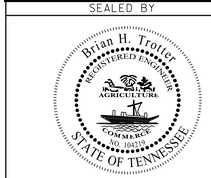

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL
DETAILS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2P

PROPOSED PAVEMENT SCHEDULE

(1) 1 ¼ " BITUMINOUS SURFACE (ROADWAY) (APPROX. 132.5 LB/YD²) ITEM 411-01.10 ACS MIX (PG64-22) GRADING D	**(7) 5" AGGREGATE CEMENT BASE COURSE (ROADWAY) (ALTERNATE B)** ITEM 309-01.01 MINERAL AGGREGATE (A-CBC) ITEM 309-01.02 PORTLAND CEMENT (A-CBC) ITEM 309-02 BITUMINOUS MATERIAL (A-CBC)	**(13) 14 ¾" MINERAL AGGREGATE BASE (SHOULDER)** ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D
(2) 1 ½ " BITUMINOUS SURFACE (SHOULDER) (APPROX. 161.25 LB/YD²) ITEM 411-01.07 ACS MIX (PG 64-22) GRADING E SHOULDER	**(8) 8" MINERAL AGGREGATE BASE (ROADWAY)** ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	**(14) PRIME COAT** ITEM 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC)(RATE 0.30-0.35 GAL/YD²) ITEM 402.02 AGGREGATE FOR COVER MATERIAL (PC)(RATE 8-12 LB/YD2)
(3) 2" BITUMINOUS BINDER (ROADWAY) (APPROX. 226 LB/YD²) ITEM 307-01.08 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING B-M2	**(9) 10" MINERAL AGGREGATE BASE (ROADWAY)** ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	**(15) TACK COAT - GENERAL USE** ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)(RATE 0.07 GAL/YD²)
(4) 3" BITUMINOUS BASE (ROADWAY) (APPROX. 345 LB/YD²) ITEM 307-01.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A	**(10) 12" MINERAL AGGREGATE BASE (ROADWAY) (ALTERNATE A)** ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	**(16) TACK COAT - MILL & OVERLAY** ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)(RATE 0.10 GAL/YD²)
(5) 4" BITUMINOUS BASE (ROADWAY) (APPROX. 460 LB/YD²) ITEM 307-01.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A	**(11) 12 ¾" MINERAL AGGREGATE BASE (SHOULDER)** ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	**(17) AGGREGATE UNDERDRAINS** ITEM 710-02 AGGREGATE UNDERDRAINS (WITH PIPE) SEE STD. DWG. RD-UD-3
(6) 3" BITUMINOUS BASE (ROADWAY) (APPROX. 270 LB/YD²) ITEM 307-01.02 ASPHALT CEMENT (PG64-22) (BPMB-HM) GRADING A-S ITEM 307-01.03 AGGREGATE (BPMB-HM) GRADING A-S MIX	**(12) 13 ¾" MINERAL AGGREGATE BASE (SHOULDER)** ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	**(18) TYPE 6-30 COMBINED CURB & GUTTER (10")** ITEM 702-03 CONCRETE COMBINED CURB AND GUTTER SEE STD. DWG. RP-NMC-10 OR RP-MC-2 (SEE PLAN LOCATIONS)

CONSTRUCTABILITY
FIELD
REVIEW

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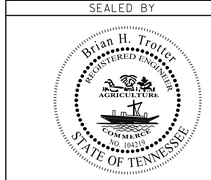

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT
SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	20

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

GUARDRAIL

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

DRAINAGE

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

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

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

(4) 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 THE 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), PER C.Y.

FENCING

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

MISCELLANEOUS

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

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

ROAD CLOSURE

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

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING 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. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.

(2) BEFORE OPEINING THE LANE SHIFTS TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PIAD FOR UNDER ITEM 712-09.01 REMOVABLE PAVEMENT MARKING LINE, LIN. FT. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXSTING CONFLICTING MARKINGS WILL NOT BE MEASURED AN PAID FOR DIRECTLY BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

FINAL PAVEMENT MARKING

(3) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" 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. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (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.

(4) 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

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE 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.

SIGNING

(1) 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.

(2) 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.

(3) 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.

(4) 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

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 CITY OF PARIS AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY OF PARIS.

(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 PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

(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.

CONSTRUCTABILITY
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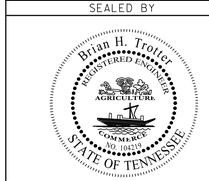

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2R

GENERAL NOTES (CONT.)

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) .

(2) 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.

(3) 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.

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

EROSION PREVENTION AND SEDIMENT CONTROL

INSPECTION, MAINTENANCE & REPAIR

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

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, AND SODDED. 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. SOD, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 803-01.

DEMOLITION

DEMOLITION OF BUILDINGS

(1) IF THE ASBESTOS SURVEY AND ABATEMENT IS NOT PART OF THE ON TRACT, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TDOT HAZARDOUS MATERIALS OFFICE TO VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED FOR ANY BUILDING TO BE REMOVED. IN THE CASE THAT NO SURVEY HAS BEEN COMPLETED THE CONTRACTOR SHALL COORDINATE WITH THE HAZARDOUS MATERIAL OFFICE IN SCHEDULING A SURVEY.

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT SHALL BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES FOR BUILDINGS INCLUDED IN THE PROJECT. ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

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

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

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

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

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

RETAINING WALLS

(1) THE (RIGHT-OF-WAY/EASEMENT) AT VARIOUS RETAINING WALL LOCATIONS SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED THERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.

(2) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON THE RETAINING WALL SHEET(S).

(3) VALUE ENGINEERING CHANGE PROPOSALS WILL NOT BE ACCEPTED FOR RETAINING WALLS. (ITEM NUMBERS: 604-07.01 TO 604-07.05)

(4) ALL COST OF BUILDING, INSTALLING AND BACKFILLING THE RETAINING WALL SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL.

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

ENVIRONMENTAL

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

ECOLOGY

(2) 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.

(3) 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.

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

PROJECT COMMITMENTS

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

CONSTRUCTABILITY FIELD REVIEW

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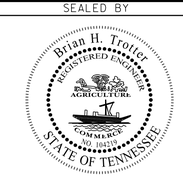

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2S

REMOVAL OF STRUCTURES & OBSTRUCTIONS

SHEET NO.	LOCATION	STATION FROM	STATION TO	OFFSET	DESCRIPTION	REMARKS
5	SR 54	21+14.44		2.84' RT	EXIST. CATCH BASIN	
5	SR 54	23+70.49		4.14' LT	EXIST. CATCH BASIN	
5	SR 54	23+70.49	24+78.02	RT	107 LF 12" STEEL PIPE	
5	SR 54	24+78.08		5.41' LT	EXIST. CATCH BASIN	
5	SR 54	24+81.53		38.87' RT	EXIST. CATCH BASIN	
5	SR 54	24+81.53	24+84.76	RT	42.37 LF 15" CMP	
5	SR 54	28+89.41	28+86.66	RT	69.54 LF 12" CMP	
6	SR 54	34+85.22	34+94.62	RT	30.33 LF 15" CMP & ENDWALL	
6	SR 54	38+55.33	38+93.77	LT	39.85 LF 12" CMP SIDE DRAIN	
6	SR 54	39+31.96	39+44.12	LT	12.95 LF 12" RCP SIDE DRAIN	
6	SR 54	40+56.06	40+71.39	LT	16.42 LF 12" CMP SIDE DRAIN	
6	SR 54	40+82.47	41+18.15	LT	39.10 LF 15" CMP	
6	SR 54	40+82.83	40+84.05	RT	53.94 LF 18" RCP	
6	SR 54	40+81.12	42+38.29	RT	152.38 LF 12" CMP SIDE DRAIN	
6	SR 54	42+39.12		22.17' RT	EXIST. CATCH BASIN	
6	SR 54	42+39.78	42+71.40	RT	31.35 LF 12" RCP SIDE DRAIN	
7	SR 54	47+60.16	47+25.11	LT	28.59 LF 10" RCP & ENDWALL	
7	SR 54	47+64.81	47+95.07	LT	30.27 LF 12" RCP SIDE DRAIN	
7	SR 54	47+81.12		17.14' RT	EXIST. CATCH BASIN	
7	SR 54	48+24.10		27.07' LT	EXIST. CB & 14.51 LF 18" PIPE	
7	SR 54	56+92.94		24.96' LT	EXIST. CATCH BASIN	
7	SR 54	57+14.76	57+50.62	RT	36.06 LF 15" RCP SIDE DRAIN	
8	SR 54	60+54.05		8.51' RT	EXIST. CATCH BASIN	
8	SR 54	60+50.73	60+54.05	LT TO RT	24.97 LF 12" RCP	
8	SR 54	60+31.12	60+85.00	LT	53.40 LF 12" RCP SIDE DRAIN	
8	SR 54	61+20.60	61+47.76	LT	26.91 LF 12" RCP SIDE DRAIN	
8	SR 54	61+76.77	62+02.06	LT	25.07 LF 12" RCP SIDE DRAIN	
8	SR 54	62+06.94	62+41.83	RT	36.64 LF 12" RCP SIDE DRAIN	
8	SR 54	62+21.03	62+42.31	LT	21.06 LF 10" CMP SIDE DRAIN	
8	SR 54	62+61.16	62+78.83	RT	17.81 LF 12" RCP SIDE DRAIN	
8	SR 54	67+76.13	67.91.9	LT	15.78 LF 12" CMP SIDE DRAIN	
8	SR 54	67+97.15	68+18.25	LT	21.10 LF 8" SIDE DRAIN	
8	SR 54	68+56.94	69+00.01	LT	43.08 LF 8" CMP SIDE DRAIN	
8	SR 54	69+26.84		43.04' LT	EXIST. CATCH BASIN	
8	SR 54	69+27.12		1.23' RT	EXIST. CATCH BASIN	
9	SR 54	72+31.88	72+68.56	LT	36.68 LF 12" RCP SIDE DRAIN	
9	SR 54	73+22.03	73+89.19	LT	67.17 LF 12" RCP SIDE DRAIN	
9	SR 54	73+63.65	73+86.29	LT	22.64 LF 12" CMP SIDE DRAIN	
9	SR 54	73+95.18		45.13' LT	EXIST. CATCH BASIN	
9	SR 54	73+94.92		0.75' RT	EXIST. CB, 10.9 LF PIPE & ENDWALL	
9	SR 54	73+96.91	74+09.49	40' LT	6.58 LF 18" CMP SIDE DRAIN	
9	SR 54	74+14.66	74+33.38	40' LT	18.72 LF 15" RCP SIDE DRAIN	
9	SR 54	74+07.78	74+34.86	1.5' LT	27.09 LF 8" PVC SIDE DRAIN	
9	SR 54	75+18.94	75+36.19	40' LT	17.28 LF SIDE DRAIN	
9	SR 54	81+81.44	82+03.77	37' LT	21.67 LF 12" RCP SIDE DRAIN	
10	SR 54	86+02.58	86+47.25	15' RT	44.85 LF 18" CMP SIDE DRAIN	
10	SR 54	87+51.96	88+12.34	7' RT	60.49 LF 18" CMP SIDE DRAIN	
10	SR 54	88+71.96	89+13.13	40' LT	40.77 LF 15" CMP SIDE DRAIN	
11	EXIST. LOGAN RD			LT TO RT	44.95 LF 18" CMP	
11	SR 54	105+07.74	105+35.71	35' RT	30.71 LF 15" CMP	
11	SR 54	105+82.28	106+24.14	30' LT	41.96 LF 18" CMP SIDE DRAIN & ENDWALL	
11	SR 54	106+07.47	106+55.95	20' RT	48.47 LF SIDE DRAIN	
11	SR 54	107+75.00	108+01.60	20' RT	26.61 LF 12" RCP SIDE DRAIN	
11	SR 54	109+03.22	109+23.18	22' RT	19.96 LF 18" CMP SIDE DRAIN	
11	SR 54	109+13.83	109+38.43	27' LT	24.60 LF 18" CMP SIDE DRAIN	
11	SR 54	109+56.88	109+76.52	23' RT	19.66 LF 18" CMP SIDE DRAIN	
13	SR 54	124+83.59	125+53.12	28' LT	69.55 LF 18" CMP SIDE DRAIN	
13	SR 54	124+92.08	125+20.01	23' RT	27.93 LF 18" CMP SIDE DRAIN	
13	SR 54	125+47.81	125+92.40	RT	50.97 LF 18" CMP SIDE DRAIN	
13	SR 54	130+31.76	130+69.49	RT	40.34 LF 18" CMP SIDE DRAIN	
13	SR 54	130+82.65	131+01.71	26' RT	19.37 LF 24" CMP SIDE DRAIN	
13	SR 54	134+04.50	134+24.66	25' LT	20.16 LF 18" CMP SIDE DRAIN	
14	SR 54	140+38.10	140+78.16	24' LT	40.06 LF SIDE DRAIN	
14	SR 54	140+50.05	141+14.88	24' RT	63.96 LF 18" CMP SIDE DRAIN	
14	SR 54	141+48.24	141+78.22	23' LT	30.03 LF SIDE DRAIN	
14	SR 54	144+32.07	144+72.35	36' RT	40.28 LF SIDE DRAIN	
14	SR 54	144+89.25		35.9' LT	EXIST. CATCH BASIN	
14	SR 54	144+89.96	146+29.76	25' LT	140.15 LF UNKNOWN PIPE	
14	SR 54	144+90.20	145+53.38	LT	68.81 LF UNKNOWN PIPE	
14	SR 54	145+52.00	145+71.96	28' RT	20.04 LF SIDE DRAIN	
14	SR 54	146+96.31	147+17.07	24' LT	20.77 LF SIDE DRAIN	
15	SR 54	148+79.97	148+99.77	25' LT	19.81 LF SIDE DRAIN	
15	TANGLEWOOD LN.	31+15.73	31+35.38	16' RT	19.65 LF SIDE DRAIN	
15	SR 54	156+79.09	156+99.33	25' LT	20.24 LF 18" CMP SIDE DRAIN	
15	SR 54	158+06.95	158+93.02	RT	91.89 LF 18" CMP SIDE DRAIN	

CONSTRUCTABILITY FIELD REVIEW

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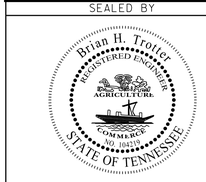

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 1 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2T

BOX BRIDGE TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA	BOX BRIDGE BOX CLASS "A" CONC.	BOX BRIDGE BOX REINF. STEEL	STANDARD DRAWING NO.	BACKFILL ITEM 303-01.01 STD. DWG. STD-15-14 (TONS)	FOUNDATION FILL MATERIAL CU. YD.
		(FT)				SQ. MI.	CU. YD.	LBS.			
48+31.33	SR 54	3 @18	9	97	60°00'00"	0.58	419	113393	STD-15-89	286	217
TOTALS							**419**	**113393**		**286**	**217**

ESTIMATED GRADING QUANTITIES

LOCATION		ROAD & DRAINAGE EXC. (UNCL.) COMMON	ROAD & DRAINAGE EXC. (UNCL.) TOPSOIL	EXCESS EXCAVATION WASTE (1)	BORROW EXCAVATION (UNCLASSIFIED) 203-03	BORROW EXCAVATION (SELECT GRANULAR MATERIAL) 203-03.10 (2)	EMBANKMENT
		(C.Y.)					
STAGE 1 CONSTRUCTION							
	SR 54	31163	17446		72967	20934	120999
	RISON ST. W	42	4	36			1
	SPROUL HEIGHTS RD.	27	10		86		109
	GUTHRIE RD.	204	39	177			0
	MIMOSA DR.	262	42	225			3
	COOK ST.	334	67	290			0
	OLD PARIS-MURRAY HWY.	141	48		507		630
	LEONARD LN.	20	25		106		123
	TANGLEWOOD LN.	274	54	201			37
	EPSC MEASURES	430					
	DRIVEWAYS	529	80		150		609
	EXCESS EXCAVATION				-929		
	STAGE 1 TOTALS	**33426**	**17815**	**929**	**73815**	**20934**	**122511**
STAGE 2 CONSTRUCTION							
	SR 54	50739	11936		924	8926	53971
	RISON ST. E	40	5	34			1
	CEDAR ST.	284	57	247			0
	ELM ST.	234	56	203			0
	ALLISON ST.	243	48	205			6
	B.R. SMITH RD.	86	35	3			72
	LOGAN RD.	118	54		4078		4181
	SMITH HEIGHTS RD.	129	45	98			14
	SMITH RD.	212	51	160			24
	EPSC MEASURES	200					
	DRIVEWAYS	297	45		84		343
	EXCESS EXCAVATION				-951		
	STAGE 2 TOTALS	**52582**	**12332**	**951**	**4136**	**8926**	**58612**
PROJECT TOTALS		**86008**	**30147**	**1880**	**77951**	**29860**	**181123**

(1) EXCESS EXCAVATION WILL BE USED AS EMBANKMENT IN OTHER AREAS TO REDUCE EMBANKMENT VOLUMES
(2) SELECT GRANULAR MATERIAL, (ITEM 203-03.10) IS MEASURED AND PAID FOR PER TON. CY VOLUME IS SHOWN FOR GRADING PURPOSES ONLY

SHRINKAGE 15%

CONSTRUCTABILITY FIELD REVIEW

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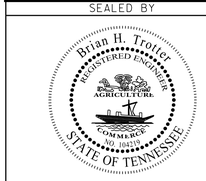

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2U

CURB & GUTTER LOCATION TABLE

STATION	LOCATION	STATION	LOCATION	SIDE		LENGTH (LF)	TYPE 6-30 NON-MOUNTABLE CURB & GUTTER	TYPE 6-33 MOUNTABLE CURB & GUTTER	REMARKS
FROM		TO		LT	RT		702-03 CONCRETE COMBINED CURB & GUTTER (CY)		
15+00.00	SR 54	29+25.00	RISON ST. W	X		182.37		15.97	
29+25.00	RISON ST. W	19+27.77	SR 54	X		275.86		24.16	
19+27.77	SR 54	29+29.00	SPROUL HEIGHTS	X		2165.76	172.24		
29+15.00	SPROUL HEIGHTS	45+45.00	SR 54	X		486.96	38.73		
45+45.00	SR 54	46+78.50	SR 54	X		133.50		11.69	
46+78.50	SR 54	56+73.95	SR 54	X		995.45	79.17		
56+73.95	SR 54	63+29.06	SR 54	X		646.63		56.63	
63+29.06	SR 54	28+20.18	CEDAR ST	X		993.60	79.02		
29+28.42	CEDAR ST	29+10.00	ELM ST.	X		555.57	44.18		ALONG SR 54
29+10.00	ELM ST.	29+15.00	ALLSION ST.	X		519.19	41.29		ALONG SR 54
29+15.00	ALLISON ST.	29+10.00	BR SMITH RD.	X		582.17	46.30		ALONG SR 54
29+10.00	BR SMITH RD.	99+97.64	SR 54	X		1211.74	96.37		
99+97.64	SR 54	28+90.00	LOGAN RD.	X		271.97		23.82	
29+80.00	LOGAN RD.	1+50.00	STA. 125+00 BUS. ENT.	X		2379.41	189.23		ALONG SR 54
1+50.00	STA. 125+00 BUS. ENT.	29+08.00	SMITH HEIGHTS RD.	X		823.78	65.52		ALONG SR 54
29+08.00	SMITH HEIGHTS RD.	29+05.00	SMITH RD	X		2027.59	161.25		ALONG SR 54
15+00.00	SR 54	30+75.00	RISON ST. E		X	181.18		15.87	
30+75.00	RISON ST. E	19+47.02	SR 54		X	303.98		26.62	
19+47.02	SR 54	40+90.23	SR 54		X	2134.23	169.74		
40+90.23	SR 54	42+38.29	SR 54		X	145.50		12.74	
42+38.29	SR 54	44+27.60	SR 54		X	186.36	14.82		
44+27.60	SR 54	46+32.18	SR 54		X	204.57		17.91	
46+32.18	SR 54	31+02.00	GUTHRIE RD.		X	1153.00	91.70		
31+02.00	GUTHRIE RD	31+20.00	MIMOSA DR.		X	549.53	43.70		ALONG SR 54
30+85.00	MIMOSA DR.	30+90.00	COOK ST.		X	375.23	29.84		ALONG SR 54
31+25.00	COOK ST.	32+00.00	OLD PARIS-MURRAY		X	2806.30	223.19		ALONG SR 54
32+00.00	OLD PARIS-MURRAY	30+77.00	PRIVATE RD		X	4985.76	396.52		ALONG SR 54
30+77.00	LEONARD LN.	31+20.00	TANGLEWOOD LN		X	922.79	73.39		ALONG SR 54
31+20.00	TANGLEWOOD LN.	152+70.00	SR 54		X	369.20	29.36		
SUB-TOTAL							2085.56	205.40	
TOTAL							2290.97		

FILL & ABANDON EXISTING DRAINAGE STRUCTURES

STATION		LOCATION	OFFSET	DESCRIPTION	LENGTH	FLOWABLE FILL
FROM	TO				(LF)	(CY)
24+79.27	24+81.41	SR 54	LT TO RT	15" CMP	43.60	1.98
40+46.46	40+80.87	SR 54	16' +/- LT	12" CMP	39.52	1.15
40+80.87	40+82.35	SR 54	LT TO RT	18" RCP	43.73	2.86
60+85.00	60+56.77	SR 54	LT TO RT	12" RCP	109.81	3.19
69+26.84	69+27.03	SR 54	LT TO RT	18" RCP	44.61	2.92
29+59.36	29+52.41	CEDAR ST.	LT TO RT	12" CMP	39.90	1.16
73+95.27	73+94.92	SR 54	LT TO RT	15" RCP	45.99	2.09
29+60.16	29+56.96	ELM ST.	LT TO RT	24" CMP	32.10	3.74
29+65.46	29+62.04	ALLISON ST.	LT TO RT	12" UNKNOWN	29.78	0.87
85+26.40	84+82.39	SR 54	LT TO RT	24" CMP	88.42	10.29
28+32.28	28+65.84	BR SMITH RD	LT TO RT	24" CMP	49.79	5.79
29+60.44	29+65.86	BR SMITH RD	LT TO RT	18" CMP	60.55	3.96
103+63.55	104+20.37	SR 54	LT TO RT	3'X3' RCBC	120.25	40.08
29+70.36	29+75.29	SMITH HEIGHTS RD	LT TO RT	15" CMP	30.35	1.38
137+75.32	137+03.24	SR 54	LT TO RT	48" CMP	146.97	68.40
144+88.80	144+24.86	SR 54	LT TO RT	24" CMP	125.62	14.62
150+69.25	150+71.07	SR 54	LT TO RT	18" PIPE	100.29	6.56
TOTAL						171.05

R.O.W. MARKERS

SHEET NO.	QUANTITIES			
	"A"	"B"	"C"	TOTALS
15A	2	8	6	16
TOTALS	**2**	**8**	**6**	**16**

CAPPING EXISTING CATCH BASIN

STATION	LOCATION	OFFSET	EACH
16+78.26	SR 54	21.38' LT	1
16+77.84	SR 54	27.96' RT	1
40+44.40	SR 54	33.36' LT	1
40+81.59	SR 54	16.08' LT	1
TOTAL			4

CONSTRUCTABILITY
FIELD
REVIEW

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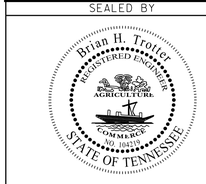

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

SHEET 3 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2V

CATCH BASINS & JUNCTION BOXES - TABULATION 1

	SHEET NO.	LOCATION	STATION	SIDE	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEVATION	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH (FT)	STANDARD DRAWING NO.	PAY ITEMS (EACH)																	
												TYPE 2	TYPE 12				TYPE 14						TYPE 25			TYPE 26	TYPE 42	
												611-02.11	611-12.01	611-12.02	611-12.03	611-12.04	611-14.02	611-14.03	611-14.04	611-14.05	611-14.06	611-14.07	611-25.01	611-25.02	611-25.03	611-26.02	611-42.01	611-42.02
												J.B.	0' - 4'	4' - 8'	8' - 12'	12' - 16'	4' - 8'	8' - 12'	12' - 16'	16' - 20'	20' - 24'	24' - 28'	0'-4'	4'-8'	8' - 12'	4'-8'	0' - 4'	4' - 8'
	5B	SR 54	21+00.00	LT	34.00	501	495.534	14	8X3	4.05	D-CB-14P						1											
	5B	SR 54	23+50.00	LT	34.00	502	490.116	14	8X3	4.38	D-CB-14P						1											
	5B	SR 54	24+55.00	LT	34.00	503	487.103	14	8X3	4.38	D-CB-14P						1											
	5B	SR 54	26+66.00	LT	34.00	504	483.357	12	4X3	4.05	D-CB-12P			1														
	5B	SR 54	29+50.00	LT	34.00	505	477.338	12	4X3	7.34	D-CB-12P			1														
	5B	SR 54	28+43.00	LT	74.00	508	449.583	JB	4X4	10.83	D-JBS-2	1																
	5B	SR 54	24+70.00	RT	34.00	510	487.905	12	4X3	6.91	D-CB-12P			1														
	5B	SR 54	26+66.00	RT	34.00	520	483.357	12	4X3	3.88	D-CB-12P		1															
	5B	SR 54	29+50.00	RT	34.00	521	477.330	12	4X3	4.05	D-CB-12P			1														
	6B	SR 54	32+50.00	LT	36.00	601	465.493	12	4X3	5.49	D-CB-12P			1														
	6B	SR 54	33+87.00	LT	36.00	602	459.540	12	4X3	7.24	D-CB-12P			1														
	6B	SR 54	32+00.00	RT	36.00	605	467.807	12	4X3	4.05	D-CB-12P			1														
	6B	SR 54	34+00.00	RT	36.00	606	458.008	12	4X3	4.05	D-CB-12P			1														
	6B	SR 54	38+30.00	LT	36.00	608	439.930	12	4X3	3.88	D-CB-12P		1															
	6B	SR 54	38+00.00	RT	36.00	611	439.348	12	4X4	14.77	D-CB-12SB					1												
	6B	SR 54	40+00.00	RT	36.00	612	434.307	12	4X4	8.73	D-CB-12SB				1													
(1)	6B	SR 54	41+44.00	RT	36.00	613	432.918	25	4X3	5.59	D-CB-25P													1				
	6B	SR 54	41+80.00	RT	36.00	614	432.859	26	8X3	4.49	D-CB-26P															1		
	6B	SR 54	42+16.00	RT	36.00	615	432.915	25	4X3	4.05	D-CB-25P													1				
	6B	SR 54	44+00.00	RT	36.00	616	433.833	12	4X3	4.05	D-CB-12P			1														
	6B	SR 54	42+45.00	LT	45.00	617	434.200	42	4X4	3.80	D-CB-42SB																1	
	6B	SR 54	42+45.00	LT	36.00	618	433.147	12	4X3	4.59	D-CB-12P			1														
	6B	SR 54	41+80.00	LT	36.00	619	432.939	14	8X3	4.96	D-CB-14P						1											
	6B	SR 54	41+09.00	LT	36.00	620	433.166	12	4X3	5.64	D-CB-12P			1														
	6B	SR 54	41+09.00	LT	53.00	621	432.796	42	32X32	2.96	D-CB-42S																1	
	6B	SR 54	40+25.00	LT	36.00	622	435.598	12	4X4	8.57	D-CB-12SB				1													
	7B	SR 54	45+50.00	LT	45.00	701	435.050	42	32x32	2.96	D-CB-42S																1	
	7B	SR 54	45+50.00	LT	36.00	702	434.548	25	4X3	4.21	D-CB-25P													1				
	7B	SR 54	46+76.00	LT	36.00	703	435.048	25	4X3	4.05	D-CB-25P													1				
	7B	SR 54	46+76.00	LT	48.00	704	434.830	42	32X32	3.08	D-CB-42S																1	
	7B	SR 54	46+50.00	LT	47.00	705	435.400	42	32X32	2.96	D-CB-42S																1	
	7B	SR 54	46+30.00	RT	36.00	706	434.745	25	4X3	3.88	D-CB-25P												1					
	7B	SR 54	49+21.00	LT	36.00	711	435.939	12	4X4	4.96	D-CB-12SB			1														
	7B	SR 54	50+40.00	LT	36.00	712	436.411	12	4X3	4.59	D-CB-12P			1														
	7B	SR 54	51+64.00	LT	36.00	713	437.152	12	4X3	4.59	D-CB-12P			1														
	7B	SR 54	53+40.00	LT	36.00	714	441.113	12	4X3	4.59	D-CB-12P			1														
	7B	SR 54	56+00.00	LT	36.00	716	453.878	12	4X3	4.05	D-CB-12P			1														
	7B	SR 54	48+60.00	RT	36.00	721	436.697	12	4X3	4.59	D-CB-12P			1														
	7B	SR 54	50+81.00	RT	36.00	722	436.573	12	4X3	4.42	D-CB-12P			1														
	7B	SR 54	54+00.00	RT	36.00	723	443.327	12	4X3	4.05	D-CB-12P			1														
	7B	SR 54	56+00.00	RT	36.00	724	453.939	12	4X3	4.05	D-CB-12P			1														
	8B	SR 54	58+20.00	RT	36.00	801	469.367	14	8X3	4.05	D-CB-14P						1											
	8B	SR 54	62+94.00	RT	36.00	802	497.390	12	4X3	3.88	D-CB-12P		1															
	8B	SR 54	62+50.00	LT	36.00	803	494.723	25	4X3	4.05	D-CB-25P													1				
	8B	SR 54	61+15.00	LT	36.00	804	487.321	25	4X3	4.05	D-CB-25P													1				
	8B	SR 54	59+00.00	LT	36.00	805	473.363	25	4X3	4.05	D-CB-25P													1				
	8B	SR 54	67+22.00	LT	36.00	810	502.184	12	4X3	3.88	D-CB-12P		1															
	8B	SR 54	68+35.00	LT	45.50	811	501.300	42	32X32	2.96	D-CB-42S																1	
	8B	SR 54	68+35.00	LT	36.00	812	501.406	12	4X3	4.05	D-CB-12P			1														
	8B	SR 54	69+15.00	LT	46.00	813	500.500	42	32X32	2.96	D-CB-42S																1	
	8B	SR 54	69+15.00	LT	36.00	814	500.855	12	4X3	4.05	D-CB-12P			1														
	8B	SR 54	69+60.00	RT	36.00	815	500.545	12	4X3	4.32	D-CB-12P			1														
	9B	SR 54	71+66.00	RT	36.00	901	499.126	12	4X3	3.88	D-CB-12P		1															
	9B	SR 54	73+48.00	RT	36.00	902	497.873	12	4X3	4.05	D-CB-12P			1														
	9B	SR 54	74+05.48	RT	36.00	903	497.631	14	8X3	4.38	D-CB-14P						1											
	9B	SR 54	74+61.00	RT	36.00	904	497.713	14	8' DIA	7.04	D-CB-14RB						1											
	9B	SR 54	77+00.00	RT	36.00	905	500.474	12	4X3	3.88	D-CB-12P		1															
	SUBTOTAL - TABULATION 1											**1**	**6**	**24**	**2**	**1**	**7**	**0**	**0**	**0**	**0**	**0**	**1**	**7**	**0**	**1**	**7**	**0**

(1) OMIT CURB IRON, INSTALL GRATE ONLY

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
NO. 108128
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 4 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2W

CATCH BASINS & JUNCTION BOXES - TABULATION 2

SHEET NO.	LOCATION	STATION	SIDE	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEVATION	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH (FT)	STANDARD DRAWING NO.	PAY ITEMS (EACH)																	
											TYPE 2	TYPE 12				TYPE 14						TYPE 25			TYPE 26	TYPE 42	
											611-02.11	611-12.01	611-12.02	611-12.03	611-12.04	611-14.02	611-14.03	611-14.04	611-14.05	611-14.06	611-14.07	611-25.01	611-25.02	611-25.03	611-26.02	611-42.01	611-42.02
											J.B.	0' - 4'	4' - 8'	8' - 12'	12' - 16'	4' - 8'	8' - 12'	12' - 16'	16' - 20'	20' - 24'	24' - 28'	0'-4'	4'-8'	8' - 12'	4'-8'	0' - 4'	4' - 8'
9B	SR 54	74+50.00	LT	36.00	910	497.672	14	8X3	6.35	D-CB-14P						1											
9B	SR 54	74+50.00	LT	48.00	911	496.750	42	32X32	3.08	D-CB-42S																1	
9B	SR 54	74+09.80	LT	36.00	912	497.626	14	8X3	5.80	D-CB-14P						1											
9B	SR 54	74+16.50	LT	47.25	913	496.000	42	32X32	2.96	D-CB-42S																1	
9B	SR 54	73+62.00	LT	36.00	914	497.783	12	4X3	4.38	D-CB-12P			1														
9B	SR 54	73+62.00	LT	47.00	915	497.500	42	32X32	2.96	D-CB-42S																1	
9B	SR 54	75+42.00	LT	47.00	916	497.780	42	32X32	2.96	D-CB-42S																1	
9B	SR 54	75+96.00	LT	36.00	917	499.097	12	4X3	4.50	D-CB-12P			1														
9B	SR 54	75+96.00	LT	46.00	918	498.500	42	32X32	2.96	D-CB-42S																1	
9B	ELM ST.	29+00.00	LT	19.44	919	501.230	42	32X32	2.96	D-CB-42S																1	
9B	SR 54	78+12.00	LT	48.50	920	501.000	42	32X32	2.96	D-CB-42S																1	
9B	SR 54	77+79.82	LT	46.28	921	501.232	14	8X3	4.38	D-CB-14P						1											
9B	SR 54	71+66.00	LT	36.00	922	499.126	12	4X3	3.88	D-CB-12P		1															
9B	SR 54	81+75.00	RT	36.00	930	500.166	12	4X3	3.88	D-CB-12P		1															
9B	ALLISON ST.	29+00.00	RT	16.62	931	498.473	42	32X32	2.96	D-CB-42S																1	
9B	SR 54	81+65.00	LT	50.00	932	498.800	42	32X32	2.96	D-CB-42S																1	
9B	SR 54	81+80.00	LT	36.00	933	498.810	14	8X3	4.38	D-CB-14P						1											
9B	SR 54	83+00.00	LT	36.00	934	495.080	14	8X3	4.38	D-CB-14P						1											
10B	SR 54	84+43.00	LT	36.00	1001	492.525	12	4X3	14.05	D-CB-12S					1												
10B	SR 54	84+76.00	LT	50.00	1002	490.500	42	32X32	2.96	D-CB-42S																1	
10B	SR 54	84+76.00	LT	36.00	1003	492.348	14	8' DIA	13.55	D-CB-14RB								1									
10B	SR 54	84+76.00	RT	36.00	1004	493.584	14	8X3	4.01	D-CB-14P						1											
10B	SR 54	85+16.00	LT	36.00	1006	492.438	12	4X3	13.01	D-CB-12S					1												
10B	SR 54		LT		1007		EXIST																				
10B	SR 54	85+89.00	LT	36.00	1008	493.174	12	4X3	4.05	D-CB-12P			1														
10B	SR 54	87+50.00	RT	36.00	1009	498.872	12	4X3	3.88	D-CB-12P		1															
10B	SR 54	88+60.00	LT	36.00	1010	500.997	14	8X3	4.38	D-CB-14P						1											
10B	SR 54	90+61.00	LT	36.00	1011	505.576	12	4X3	4.05	D-CB-12P			1														
10B	SR 54	90+61.00	LT	46.00	1012	505.300	42	32X32	2.96	D-CB-42S																1	
10B	SR 54	84+43.00	RT	36.00	1013	493.725	14	8' DIA	15.91	D-CB-14RB								1									
10B	SR 54	95+47.89	RT	48.38	1014	485.910	2	4X4	4.55	D-JBS-2	1																
10B	SR 54	96+85.00	LT	45.50	1016	499.000	42	32X32	2.96	D-CB-42S																1	
10B	SR 54	96+85.00	LT	36.00	1017	498.884	12	4X3	4.05	D-CB-12P			1														
11B	SR 54	99+19.00	LT	36.00	1102	492.600	12	4X3	4.05	D-CB-12P			1														
(1) 11B	SR 54	100+91.70	LT	36.00	1104	487.961	25	8 DIA	9.85	D-CB-25RB														1			
11B	LOGAN RD	28+92.00	RT	17.00	1105	487.905	12	4X3	7.91	D-CB-12P			1														
11B	SR 54	101+75.00	LT	85.00	1106	487.000	42	32X32	5.22	D-CB-42S																	1
11B	SR 54	101+77.00	LT	36.00	1107	486.057	25	4X3	3.88	D-CB-25P												1					
11B	SR 54	99+19.00	RT	36.00	1108	492.600	12	4X3	3.88	D-CB-12P		1															
11B	SR 54	101+09.50	RT	36.00	1109	487.486	14	8 DIA	10.72	D-CB-14RB							1										
11B	SR 54	103+10.00	LT	42.00	1111	484.735	14	8X3	4.05	D-CB-14P						1											
11B	SR 54	103+60.00	LT	42.00	1112	484.925	14	8 DIA	23.51	D-CB-14RB										1							
11B	SR 54	106+32.00	LT	42.00	1113	491.669	12	4X3	4.05	D-CB-12P			1														
11B	SR 54	109+13.00	LT	42.00	1114	505.485	12	4X3	3.88	D-CB-12P		1															
(1) 11B	SR 54	109+50.00	RT	42.00	1115	506.842	12	4X3	3.88	D-CB-12P		1															
(1) 11B	SR 54	106+32.00	RT	42.00	1116	491.669	12	4X3	4.05	D-CB-12P			1														
11B	SR 54	103+92.63	RT	42.00	1117	485.224	14	8 DIA	24.55	D-CB-14RB											1						
(1) 11B	SR 54	103+06.00	RT	42.00	1118	484.734	14	8X3	4.38	D-CB-14P						1											
11B	SR 54	102+75.00	RT	42.00	1119	484.796	12	4X3	3.88	D-CB-12P		1															
12B	SR 54	118+50.00	LT	42.00	1201	491.146	12	4X3	3.88	D-CB-12P		1															
12B	SR 54	121+20.00	LT	42.00	1202	479.088	12	4X3	4.05	D-CB-12P			1														
12B	SR 54	118+50.00	RT	42.00	1203	491.146	12	4X3	3.88	D-CB-12P		1															
12B	SR 54	121+20.00	RT	42.00	1204	479.088	12	4X3	4.05	D-CB-12P			1														
13B	SR 54	123+68.00	LT	42.00	1301	474.174	12	4X3	4.45	D-CB-12P			1														
13B	SR 54	124+50.00	LT	42.00	1302	473.848	14	8 DIA	5.38	D-CB-14RB						1											
13B	SR 54	125+32.00	LT	42.00	1303	474.166	12	4X3	3.88	D-CB-12P		1															
SUBTOTALS - TABULATION 2											**1**	**10**	**12**	**0**	**2**	**10**	**1**	**2**	**0**	**1**	**1**	**1**	**0**	**1**	**0**	**12**	**1**

(1) OMIT CURB IRON, INSTALL GRATE ONLY

CONSTRUCTABILITY FIELD REVIEW

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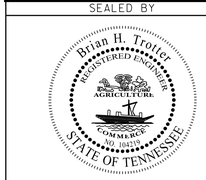

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 5 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2X

CROSS DRAIN TABULATION

STATION	LOCATION	RCP CLASS III OR CMP 10 GA. OR HDPE OR PVC FILL HEIGHT < OR = 18 FT.				RCP CLASS III			RCP CLASS IV JACKED-IN-PLACE			SKEW	END TREATMENT									OUTLET PROTECTION		REMARKS
													INLET		OUTLET		18 IN EW CROSS DRAIN 3:1 611-07.54	24 IN EW CROSS DRAIN 3:1 611-07.57	30 IN EW CROSS DRAIN 3:1 611-07.60	CL. A CONCRETE (PIPE ENDWALLS) 611-07.01 (C.Y.)	STEEL BAR REINF. (PIPE ENDWALLS) 611-07.02 (LB.)	MACHINED RIP-RAP (CLASS B) 709-05.08 (TON)	MACHINED RIP-RAP (CLASS C) 709-05.09 (TON)	
		18"	24"	30"	36"	18"	42"	48"	18"	42"	48"													
		607-03.30	607-05.30	607-06.30	607-07.30	607-03.02	607-08.02	607-09.02	607-03.05	607-08.05	607-09.05		TYPE	DWG NO.	TYPE	DWG NO.								
		(L.F.)															(EACH)							
																						11.34		RIP-RAP TO BE PLACED AT INLET
28+43.21	SR 54		51.22									89°43'54"	24" 3:1	D-PE-24A D-PE-24B				1						
95+48.10	SR 54			50.04								90°47'09"			30" 3:1	D-PE-30A D-PE-30B			1				14.18	
103+76.01	SR 54						145.97			80.95		68°11'33"	42" TY A	D-PE-1	42" TY A	D-PE-1				9.70	168			
129+91.59	SR 54			36.75	45.07							89°16'32"	30" TY ST	D-PE-4	36" TY A	D-PE-1				7.35	170			
137+34.81	SR 54							153.43			118	61°25'12"	48" TY A	D-PE-1	48" TY A	D-PE-1				13.20	200			
150+79.00	SR 54					88.49			68.15			90°00'00"	18" 3:1	D-PE-18A D-PE-18B	18" 3:1	D-PE-18A D-PE-18B	2						7.83	
28+75.00	BR SMITH	35.75										90°00'00"	18" 3:1	D-PE-18A D-PE-18B	18" 3:1	D-PE-18A D-PE-18B	2							
TOTALS		**35.75**	**51.22**	**86.79**	**45.07**	**88.49**	**145.97**	**153.43**	**68.15**	**80.95**	**118**						**4**	**1**	**1**	**30.25**	**538**	**11.34**	**22.01**	

CATCH BASINS & JUNCTION BOXES - TABULATION 3

SHEET NO.	LOCATION	STATION	SIDE	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEVATION	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH (FT)	STANDARD DRAWING NO.	PAY ITEMS (EACH)																	
											TYPE 2	TYPE 12				TYPE 14						TYPE 25			TYPE 26	TYPE 42	
											611-02.11	611-12.01	611-12.02	611-12.03	611-12.04	611-14.02	611-14.03	611-14.04	611-14.05	611-14.06	611-14.07	611-25.01	611-25.02	611-25.03	611-26.02	611-42.01	611-42.02
											J.B.	0' - 4'	4' - 8'	8' - 12'	12' - 16'	4' - 8'	8' - 12'	12' - 16'	16' - 20'	20' - 24'	24' - 28'	0'-4'	4'-8'	8' - 12'	4'-8'	0' - 4'	4' - 8'
13B	SR 54	123+68.00	RT	42.00	1304	474.174	12	4X3	4.45	D-CB-12P			1														
13B	SR 54	124+50.00	RT	42.00	1305	473.848	14	8 DIA	6.03	D-CB-14RB						1											
13B	SR 54	125+32.00	RT	42.00	1306	474.166	12	4X4	6.84	D-CB-12SB			1														
13B	SR 54	126+00.00	RT	42.00	1307	474.919	14	8 DIA	10.42	D-CB-14RB							1										
13B	SR 54	129+92.00	LT	42.00	1310	483.984	14	8 DIA	16.31	D-CB-14RB									1								
13B	SR 54	129+91.00	RT	42.00	1311	483.963	14	8 DIA	17.45	D-CB-14RB									1								
13B	SR 54	133+00.00	LT	42.00	1312	490.637	12	4X3	4.05	D-CB-12P			1														
13B	SR 54	133+00.00	RT	42.00	1313	490.637	12	4X3	4.05	D-CB-12P			1														
13B	SR 54	134+92.00	LT	42.00	1314	495.548	12	4X3	3.97	D-CB-12P		1															
14B	SR 54	137+00.00	RT	42.00	1401	500.694	12	4X3	4.05	D-CB-12P			1														
14B	SR 54	137+00.00	LT	42.00	1403	500.694	12	4X3	6.69	D-CB-12P			1														
14B	SR 54	140+86.00	LT	42.00	1405	510.166	12	4X3	4.05	D-CB-12P			1														
14B	SR 54	141+03.00	RT	42.00	1406	510.578	12	4X3	3.88	D-CB-12P		1															
14B	SR 54	144+16.00	RT	42.00	1407	518.153	12	4X3	4.05	D-CB-12P			1														
14B	SR 54	144+47.00	LT	42.00	1409	518.901	12	4X3	6.82	D-CB-12P			1														
14B	SR 54	145+53.50	LT	64.00	1410	516.000	42	32X32	2.96	D-CB-42S																1	
14B	SR 54	145+53.50	LT	42.00	1411	521.463	12	4X3	8.73	D-CB-12P				1													
14B	SR 54	147+00.00	RT	42.00	1412	524.980	12	4X3	3.88	D-CB-12P		1															
15B	SR 54	150+79.00	RT	42.00	1501	529.460	12	4X3	14.14	D-CB-12P					1												
15B	SR 54	151+50.00	LT	42.00	1502	528.516	12	4X3	3.88	D-CB-12P		1															
SUBTOTAL TABULATION 1											**1**	**6**	**24**	**2**	**1**	**7**	**0**	**0**	**0**	**0**	**0**	**1**	**7**	**0**	**1**	**7**	**0**
SUBTOTAL TABULATION 2											**1**	**10**	**12**	**0**	**2**	**10**	**1**	**2**	**0**	**1**	**1**	**1**	**0**	**1**	**0**	**12**	**1**
SUBTOTAL TABULATION 3											**0**	**4**	**9**	**1**	**1**	**1**	**1**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**
TOTALS											**2**	**20**	**45**	**3**	**4**	**18**	**2**	**2**	**2**	**1**	**1**	**2**	**7**	**1**	**1**	**20**	**1**

CONSTRUCTABILITY FIELD REVIEW

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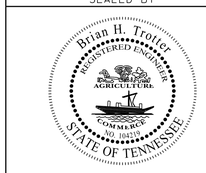

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 6 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2Y

STORM DRAINAGE PIPES - TABULATION 1

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	RCP CLASS III 607-03.02 18"	607-05.02 24"	607-06.02 30"	607-09.02 48"	RCP CLASS IV 607-03.05 18"	607-06.05 30"	CMP 10 GA 607-37.02 18"
						(L.F.)						
5B	501	491.484	502	486.066	2.25%	240.54						
5B	502	485.736	503	483.053	2.78%	96.39						
5B	503	482.723	504	479.477	1.53%	212.59						
5B	504	479.307	505	473.458	2.09%	280.00						
5B/6B	505	470.000	601	460.170	3.32%	296.01						
5B	510	481.000	511	480.231	3.76%	20.46						
5B	520	479.477	521	473.619	2.09%	280.00						
5B/6B	521	473.449	605	463.927	3.87%	246.01						
6B	601	460.000	602	455.660	3.26%	133.29						
6B	602	452.300	603	452.000	1.09%		27.46					
6B	605	463.757	606	454.128	4.93%	195.50						
6B	606	453.958	607	453.737	0.80%	27.63						
6B	608	436.050	609	435.025	5.24%	19.57						
6B	611	424.580	610	424.300	0.39%			71.59				
6B	612	425.580	611	424.750	0.43%			192.57				
6B	613	427.330	612	426.750	0.43%	135.04						
6B	614	428.370	613	428.250	0.41%	29.39						
6B	615	428.865	614	428.700	0.56%	29.39						
6B	616	429.783	615	429.035	0.42%	176.85						
6B	617	430.400	618	429.227	16.46%	7.13						
6B	618	428.557	619	428.309	0.45%		55.06					
6B	619	427.979	620	427.700	0.42%		66.19					
6B	620	427.530	622	427.200	0.41%		81.41					
6B	621	429.836	620	428.746	6.62%	16.46						
6B	622	427.030	612	425.750	1.79%						71.59	
7B	701	432.090	702	430.668	19.95%	7.13						
6B/7B	702	430.338	618	428.727	0.54%		299.67					
7B	703	430.998	702	430.508	0.41%	120.00						
7B	704	431.750	703	431.168	5.75%	10.13						
7B	705	432.440	704	431.870	2.44%	23.35						
6B/7B	706	430.865	616	429.953	0.40%	225.85						
7B	711	430.979	710	430.750	0.63%			36.23				
7B	712	431.821	711	431.250	0.51%		113.00					
7B	713	432.562	712	431.991	0.48%		120.00					
7B	714	436.693	713	432.732	2.30%		172.00					
7B	716	449.828	714	437.233	4.92%	256.00						
7B	721	431.107	720	430.950	0.46%		34.16					
7B	722	432.153	721	431.277	0.40%		217.00					
7B	723	439.277	722	432.693	2.09%	315.00						
7B	724	449.889	723	439.447	5.33%	196.00						
7B/8B	801	465.317	724	450.059	7.09%	215.30						
8B	802	493.510	803	490.843	3.32%					80.22		
8B	803	490.673	804	483.441	5.66%	127.76						
8B	804	483.271	805	469.483	6.60%	209.00						
7B/8B	805	469.313	716	449.998	6.57%	293.89						
8B	810	498.304	812	497.526	0.71%	109.00						
8B	811	498.340	812	497.526	11.70%	6.96						
8B	812	497.356	814	496.975	0.50%	76.00						
8B	813	497.540	814	496.975	6.95%	8.13						
8B	814	496.805	815	496.400	0.50%					80.78		
8B	815	496.230	816	495.800	3.26%	13.17						
9B	901	495.246	902	493.993	0.71%	176.00						
9B	902	493.823	903	493.581	0.47%	51.48						
9B	903	493.251	904	493.000	0.53%	47.52						
9B	904	490.670	906	489.967	4.91%			14.31				
9B	905	496.590	904	493.253	1.43%	233.00						
9B	910	491.320	904	491.000	0.47%						67.98	
9B	911	493.670	910	493.620	0.42%	12.00						
9B	912	491.830	910	491.650	0.56%		32.20					
9B	913	493.040	912	492.950	0.78%	11.52						
9B	914	493.400	912	493.200	0.53%	38.00						
9B	915	494.540	914	493.903	7.53%	8.46						
9B	916	494.820	911	493.790	1.12%	92.01						
SUBTOTAL - TABULATION 1						**5324.91**	**1218.15**	**314.69**	**0.00**	**161.00**	**139.57**	**0.00**

STORM DRAINAGE PIPES - TABULATION 2

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	RCP CLASS III 607-03.02 18"	607-05.02 24"	607-06.02 30"	607-09.02 48"	RCP CLASS IV 607-03.05 18"	607-06.05 30"	CMP 10 GA 607-37.02 18"
						(L.F.)						
9B	917	494.600	910	493.620	0.69%	142.00						
9B	918	495.540	917	495.217	4.33%	7.46						
9B	919	498.270	921	497.182	2.06%	52.88						
9B	920	498.040	921	497.182	2.87%	29.89						
9B	921	496.852	917	495.217	0.91%	180.48						
9B	922	495.246	914	493.903	0.70%	192.00						
9B/10B	930	496.286	1013	489.345	2.62%	264.46						
9B	931	495.513	934	491.030	4.52%	99.28						
9B	932	495.840	933	494.760	5.81%	18.59						
9B	933	494.430	934	491.300	2.82%	110.90						
9B/10B	934	490.700	1001	488.645	1.51%	135.68						
10B	1001	478.470	1013	478.150	0.48%						66.17	
10B	1002	487.540	1003	487.388	1.64%	9.29						
10B	1003	478.800	1001	478.645	0.58%		26.70					
10B	1004	489.534	1013	489.345	0.75%	25.35						
10B	1006	479.430	1003	479.250	0.54%		33.63					
10B	1007	479.710	1006	479.600	0.63%		17.45					
10B	1008	489.124	1006	488.558	0.80%	70.33						
10B	1009	494.992	1004	489.704	1.97%	268.44						
10B	1010	496.617	1008	489.294	2.79%	262.46						
10B	1011	501.526	1010	496.947	2.37%	193.14						
10B	1012	502.340	1011	501.696	7.92%	8.13						
10B	1013	477.820	1005	475.747	3.54%			58.56				
10B	1016	496.040	1017	495.004	15.63%	6.63						
10B/11B	1017	494.834	1102	488.720	2.66%	230.00						
11B	1101	482.428	1104	482.074	8.85%							4.00
11B	1102	488.550	1104	483.581	2.98%	166.70						
11B	1105	480.000	1103	476.000	7.08%	56.46						
11B	1106	481.780	1105	481.500	0.65%	42.92						
11B	1107	482.177	1106	481.900	0.59%	47.17						
11B	1108	488.720	1109	483.109	3.04%	184.50						
11B	1109	476.770	1110	476.660	0.52%				21.10			
11B	1111	480.685	1112	480.385	0.71%	42.00						
11B	1113	487.619	1112	480.385	2.70%	268.00						
11B	1114	501.605	1113	487.789	4.99%	277.00						
11B	1115	502.962	1116	487.789	4.83%	314.00						
11B	1116	487.619	1117	480.000	3.26%	233.37						
11B	1118	480.354	1117	480.000	0.45%	78.63						
11B	1119	480.916	1118	480.684	0.93%	25.00						
12B	1201	487.266	1202	475.208	4.53%	266.00						
12B/13B	1202	475.038	1301	470.294	1.94%	244.00						
12B	1203	487.266	1204	475.208	4.53%	266.00						
12B/13B	1204	475.038	1304	470.294	1.94%	244.00						
13B	1301	469.727	1302	469.258	0.62%		76.00					
13B	1302	468.468	1305	468.150	0.40%						79.08	
13B	1303	470.286	1302	469.798	0.64%	76.00						
13B	1304	469.727	1305	469.258	0.62%		76.00					
13B	1305	467.820	1306	467.500	0.42%			76.00				
13B	1306	467.330	1307	467.050	0.44%			64.00				
13B	1307	464.500	1308	462.456	4.66%			43.89				
13B	1312	486.587	1310	479.583	2.32%	302.00						
13B	1313	486.587	1311	479.583	2.30%	305.00						
13B	1314	491.578	1312	486.757	2.56%	188.00						
13B/14B	1401	496.644	1313	486.757	2.50%	396.00						
14B	1403	494.000	1402	491.650	8.56%	27.46						
14B	1406	506.698	1401	496.814	2.48%	399.00						
14B	1407	514.103	1408	512.702	6.94%	20.20						
14B	1409	512.080	1405	506.286	1.62%	357.00						
14B	1405	506.116	1403	496.814	2.44%	382.00						
14B	1410	513.040	1411	512.900	0.70%	20.13						
14B	1411	512.730	1409	512.250	0.47%	102.50						
14B	1412	521.100	1407	514.273	2.44%	280.00						
15B	1502	524.636	1503	524.250	1.88%	20.51						
SUBTOTAL - TABULATION 1						**5324.91**	**1218.15**	**314.69**	**0.00**	**161.00**	**139.57**	**0.00**
SUBTOTAL - TABULATION 2						**7938.94**	**229.78**	**242.45**	**21.10**	**0.00**	**145.25**	**4.00**
TOTALS						**13263.85**	**1447.93**	**557.14**	**21.10**	**161.00**	**284.82**	**4.00**

CONSTRUCTABILITY FIELD REVIEW

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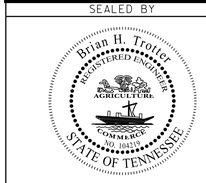

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 7 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2Z

SPECIAL DITCHES

STATION FROM	STATION TO	LOCATION	SIDE LT	SIDE RT	WIDTH (L.F.)	LENGTH (L.F.)	SODDING (NEW SOD) 803-01 (S.Y.)	MACHINED RIP-RAP (CLASS C) 709-05.09 (TON)	CEMENT CONCRETE DITCH PAVING 703-01 (C.Y.)	GEOTEXTILE (TYPE IV) STABILIZATION 740-10.04 (S.Y.)	REMARKS
28+50.00	30+25.00	SR 54	X		4	187.00	83.11	169.69		228.56	"V"
34+00.00	35+14.50	SR 54	X		8	114.5	101.78				"V"
35+35.63	40+50.00	SR 54	X		4	514.4	742.98				4' F.B.
42+50.00	45+45.00	SR 54	X		3	295.0	65.56		13.23		BEHIND RET. WALL 2
48+67.00	50+50.00	SR 54	X		8	183.0	162.67				"V"
78+12.00	79+66.00	SR 54	X		8	154.0	136.89				"V"
79+85.00	81+65.00	SR 54	X		8	180.0	160.00				"V"
85+50.00	87+00.00	SR 54	X		8	150.0	133.33				"V"
126+00.00	127+00.00	SR 54		X	4	99.65	44.29	90.42		121.79	"V"
137+00.00	138+05.25	SR 54	X		4	103.57	46.03	93.98		126.59	"V"
144+88.50	145+53.50	SR 54	X		8	65.0	57.78				"V"
158+60.00	160+00.00	SR 54	X		3	140.0			6.28		IN FRONT OF RET. WALL 4
TOTALS							**1734.41**	**354.09**	**19.51**	**476.94**	

STORM DRAINAGE ENDWALLS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STANDARD DRAWING	18 IN ENDWALL CROSS DRAIN 3:1 611-07.54 (EACH)	24 IN ENDWALL CROSS DRAIN 3:1 611-07.57 (EACH)	30 IN ENDWALL CROSS DRAIN 3:1 611-07.60 (EACH)	48 IN ENDWALL CROSS DRAIN 3:1 611-07.69 (EACH)	MACHINED RIP-RAP (CLASS B) 709-05.08	MACHINED RIP-RAP (CLASS C) 709-05.09	REMARKS
5B	SR 54	24+70.00	55.0 RT	511	D-PE-18A	1				3.65		
6B	SR 54	33+87.00	60.0 LT	603	D-PE-24A		1	1		5.19		
6B	SR 54	34+00.00	64.17 RT	607	D-PE-18A	1				3.65		
6B	SR 54	38+00.00	89 RT	610	D-PE-30A			1		6.89		
6B	SR 54	38+30.00	58.5 LT	609	D-PE-18A	1				3.65		
8B	SR 54	69+60.00	49.17 RT	816	D-PE-18A	1				3.65		
9B	SR 54	74+61.00	53.69 RT	906	D-PE-30A			1			14.18	
10B	SR 54	84+43.00	99.19 RT	1005	D-PE-30A			1			14.18	
11B	LOGAN RD	28+92.00	36 LT	1103	D-PE-18A	1					10.89	
11B	SR 54	101+12.94	60.25 RT	1110	D-PE-48A				1	12.96		
13B	SR 54	126+05.00	89 RT	1308	D-PE-30A			1				OUTLET CL. C RIP-RAP DT.
14B	SR 54	137+00.00	70 LT	1402	D-PE-18A	1						OUTLET CL. C RIP-RAP DT.
14B	SR 54	144+16.00	66.7 RT	1408	D-PE-18A	1				3.65		
15B	SR 54	151+50.00	63 LT	1503	D-PE-18A	1				3.65		
TOTALS						8	1	5	1	46.94	39.25	

BOX CULVERT TABULATION

STATION	LOCATION	SPAN (FT)	HEIGHT (FT)	LENGTH (FT)	SKEW	DRAINAGE AREA ACRES	BOX CULVERT CLASS "A" CONC. CU. YD.	BOX CULVERT REINF. STEEL LBS.	DRAWING NO. (1)	BACKFILLING ITEM 303-01.01 DWG. STD-15-14 TONS	FOUNDATION FILL MATERIAL CU. YD.
119+45.82	SR 54	5	5	51' EXT. LT - 73' EXT. RT	89°19'04"	90.4	97.00	19996.00	STD-15-35	544.00	46.00
127+18.94	SR 54	6	6	59.3' EXT. RT	89°42'10"	177.0	49.00	10543.00	STD-15-35	288.00	22.00
159+15.39	SR 54	6	6	45' EXT. RT.	89°28'28"	153.0	42.00	8212.00	STD-15-35	241.00	19.00
TOTALS							**188.00**	**38751.00**		**1073.00**	**87.00**

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter, REGISTERED ENGINEER, AGRICULTURE, COMMERCE, NO. 104319, STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 8 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AA

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS														
	303-01	ALT A 303-01	307-01.01	307-01.02	307-01.03	307-01.08	ALTERNATE B 309-01.01	309-01.02	309-02	402-01	402-02	403-01	411-01.07	411-01.10	701-02
	(TON)														(S.F.)
SR 54		85939.52	26120.61	498.28	14833.38	12972.64	34017.96	1313.09	101.37	172.07	681.41	69.36		7605.64	
RISON ST. W.	106.52		24.91			16.31				0.22	0.87	0.63		93.12	
RISON ST. E.	106.82		25.03			16.40				0.22	0.87	0.09		9.61	
SPROUL HEIGHTS RD.	357.92					35.26				0.53	2.11	0.09	3.16	20.67	
GUTHRIE RD.	279.39		66.53			43.58				0.60	2.38	0.23	0.84	25.55	
NORTH POPLAR ST.	67.83					13.83				0.14	0.55	0.10		14.14	
MIMOSA DR.	301.73					41.19				0.53	2.21	0.11	0.32	24.15	
COOK ST.	316.45					43.29				0.29	2.32	0.12	0.59	25.38	
CEDAR ST.	418.74					53.78				0.76	3.00	0.14	1.95	31.53	
ELM ST.	327.78					43.38				0.59	2.35	0.12	0.64	25.43	
ALLISON ST.	319.83					41.70				0.57	2.27	0.11	0.73	24.45	
APT. COMPLEX STA. 84+96.34	52.91		14.70			9.63				0.13	0.51	0.05		5.65	
B.R. SMITH RD.	417.61		108.71			71.21				1.08	4.28	0.38	6.76	41.75	
OLD PARIS-MURRAY HWY.	501.22		127.20			83.33				1.12	4.42	0.45		48.85	
LOGAN RD.	593.91					85.76				1.23	4.86	0.23	4.13	50.28	
SMITH HEIGHTS RD.	191.93		54.64			35.79				0.49	1.95	0.19	0.60	20.98	
LEONARD LN.	192.22					23.88				0.32	1.27	0.06		14.00	
TANGLEWOOD LN.	251.45		75.64			49.55				0.68	2.69	0.27	0.74	29.05	
SMITH RD.	220.55		56.92			37.29				0.55	2.16	0.20	2.45	21.86	
DRIVEWAYS	4083.62					545.79				18.29	72.42	1.46		926.09	26122.41
TEMP. WIDENING - STAGE 1	307.15		50.07			32.80				0.44	1.74	0.09			
GENERAL TRAFFIC CONTROL	14303.27														
TOTALS	**23718.85**	**85939.52**	**26724.96**	**498.28**	**14833.38**	**14296.39**	**34017.96**	**1313.09**	**101.37**	**200.85**	**796.64**	**74.48**	**22.91**	**9058.18**	**26122.41**

GUARDRAIL TABULATION

SHEET NO.	LOCATION	SIDE		STATION		GUARDRAIL		TERMINAL
						GUARDRAIL REMOVED 706-01	AT BRIDGE ENDS 705-01.01	TYPE 38 705-04.07
		LT	RT	FROM	TO	(L.F.)		(EACH)
5	SR 54	X		25+80.00	28+86.25	306.25		
5	SR 54		X	27+66.00	28+97.25	131.25		
5	SR 54	X		29+93.25	30+37.00	43.75		
5	SR 54		X	30+11.50	34+92.75	481.25		
5	SR 54	X		30+61.00	34+92.25	431.25		
6	SR 54	X		36+02.25	40+40.67	443.75		
6	SR 54		X	36+02.00	39+39.50	337.5		
6B	SR 54	X		34+00.00	34+75.00		26.9	1
6B	SR 54		X	33+96.50	34+75.00		26.9	1
6B	SR 54	X		36+20.00	36+95.00		26.9	1
6B	SR 54		X	36+20.00	36+98.50		26.9	1
TOTALS						**2175**	**107.6**	**4**

CONSTRUCTABILITY FIELD REVIEW

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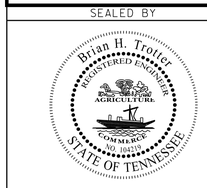

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 9 OF 10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AB

SIDE DRAIN TABULATION 1

STATION	LOCATION	LT	RT	DESCRIPTION	SURFACE WIDTH (FT.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT. 18"	24"	30"	23" X 14"	MACHINED RIP-RAP (CLASS A-1) 709-05.06 (TON)	REMARKS
15+52.24	SR 54		X	BUSINESS	38						NO S.D. REQD.
16+00.00	SR 54	X		BUSINESS	40						NO S.D. REQD.
29+33.69	RISON ST.	X		BUSINESS	20						NO S.D. REQD.
19+07.00	SR 54	X		BUSINESS	18						NO S.D. REQD.
19+10.12	SR 54		X	BUSINESS	40						NO S.D. REQD.
20+50.77	SR 54		X	PRIVATE	12						NO S.D. REQD.
21+06.72	SR 54		X	BUSINESS	10						NO S.D. REQD.
21+41.95	SR 54		X	BUSINESS	14						NO S.D. REQD.
21+50.31	SR 54	X		BUSINESS	12						NO S.D. REQD.
22+67.00	SR 54	X		BUSINESS	16						NO S.D. REQD.
24+79.30	SR 54	X		BUSINESS	10						NO S.D. REQD.
25+65.50	SR 54	X		BUSINESS	20						NO S.D. REQD.
30+48.81	SR 54	X		FIELD	10						NO S.D. REQD.
38+66.65	SR 54	X		PRIVATE	10			55.0		1.56	
38+87.81	SR 54	X		PRIVATE	10						SHARED 38+66.65
39+31.37	SR 54		X	BUSINESS	20						NO S.D. REQD.
39+39.52	SR 54	X		PRIVATE	10			26.0		1.56	
39+98.92	SR 54	X		PRIVATE	10			15.5		1.56	
29+13.44	SPROUL HGTS		X	PRIVATE	10			15.5		1.56	
41+50.00	SR 54		X	BUSINESS	40						NO S.D. REQD.
43+73.00	SR 54		X	BUSINESS	25						NO S.D. REQD.
45+00.00	SR 54		X	BUSINESS	40						NO S.D. REQD.
45+95.00	SR 54		X	BUSINESS	20						NO S.D. REQD.
46+15.00	SR 54	X		BUSINESS	40						NO S.D. REQD.
46+64.66	SR 54		X	BUSINESS	40						NO S.D. REQD.
47+07.94	SR 54	X		BUSINESS	25						NO S.D. REQD.
47+44.53	SR 54		X	BUSINESS	40						NO S.D. REQD.
47+81.03	SR 54	X		BUSINESS	25						NO S.D. REQD.
50+54.17	SR 54	X		FIELD	10						NO S.D. REQD.
51+00.67	SR 54	X		BUSINESS	25						NO S.D. REQD.
51+10.00	SR 54		X	BUSINESS	25						NO S.D. REQD.
52+10.00	SR 54		X	BUSINESS	25						NO S.D. REQD.
52+75.00	SR 54		X	BUSINESS	25						NO S.D. REQD.
57+23.00	SR 54	X		BUSINESS	25						NO S.D. REQD.
58+36.00	SR 54	X		BUSINESS	25						NO S.D. REQD.
59+72.79	SR 54	X		BUSINESS	40						NO S.D. REQD.
60+80.03	SR 54	X		BUSINESS	20						NO S.D. REQD.
61+57.62	SR 54	X		BUSINESS	40						NO S.D. REQD.
30+96.15	MIMOSA DR.		X	BUSINESS	20						NO S.D. REQD.
62+33.86	SR 54	X		PRIVATE	10						NO S.D. REQD.
64+45.00	SR 54		X	PRIVATE	10						NO S.D. REQD.
65+12.82	SR 54	X		PRIVATE	10						NO S.D. REQD.
65+40.82	SR 54	X		PRIVATE	10						NO S.D. REQD.
30+78.02	COOK ST		X	PRIVATE	10						NO S.D. REQD.
30+93.04	COOK ST	X		PRIVATE	10						NO S.D. REQD.
66+42.69	SR 54	X		PRIVATE	10						NO S.D. REQD.
66+65.96	SR 54		X	PRIVATE	10						NO S.D. REQD.
67+18.06	SR 54		X	PRIVATE	10						NO S.D. REQD.
67+37.25	SR 54	X		PRIVATE	10						NO S.D. REQD.
68+32.04	SR 54		X	PRIVATE	10	16.9					
68+50.50	SR 54	X		PRIVATE	10						NO S.D. REQD.
69+11.45	SR 54		X	PRIVATE	10	22.5					
69+39.87	SR 54	X		PRIVATE	10						NO S.D. REQD.
70+10.49	SR 54		X	PRIVATE	10						NO S.D. REQD.
71+28.35	SR 54		X	PRIVATE	10						NO S.D. REQD.
71+70.00	SR 54		X	PRIVATE	10						NO S.D. REQD.
72+09.86	SR 54		X	PRIVATE	10						NO S.D. REQD.
28+45.49	CEDAR ST.	X		PRIVATE	10						NO S.D. REQD.
28+52.88	CEDAR ST.		X	BUSINESS	10						NO S.D. REQD.
72+54.13	SR 54		X	PRIVATE	10						NO S.D. REQD.
72+99.27	SR 54		X	PRIVATE	10						NO S.D. REQD.
73+63.61	SR 54		X	PRIVATE	10	20.8					
73+77.00	SR 54	X		PRIVATE	10						NO S.D. REQD.
74+21.98	SR 54		X	PRIVATE	10		22.3				
74+26.30	SR 54	X		PRIVATE	10						NO S.D. REQD.
74+89.45	SR 54		X	PRIVATE	10						NO S.D. REQD.
75+27.45	SR 54	X		PRIVATE	10						NO S.D. REQD.
75+81.32	SR 54	X		PRIVATE	10						NO S.D. REQD.
76+27.24	SR 54		X	PRIVATE	10						NO S.D. REQD.
77+11.00	SR 54		X	PRIVATE	10						NO S.D. REQD.
28+80.19	ELM ST.	X		PRIVATE	20						NO S.D. REQD.
77+76.71	SR 54		X	PRIVATE	10						NO S.D. REQD.
78+78.69	SR 54		X	PRIVATE	10						NO S.D. REQD.
79+10.07	SR 54		X	PRIVATE	10						NO S.D. REQD.
79+73.56	SR 54	X		PRIVATE	10						NO S.D. REQD.
SUBTOTAL - TABULATION 1						**60.2**	**22.3**	**112.0**	**0.0**	**6.24**	

SIDE DRAIN TABULATION 2

STATION	LOCATION	LT	RT	DESCRIPTION	SURFACE WIDTH (FT.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT. 18"	24"	30"	23" X 14"	MACHINED RIP-RAP (CLASS A-1) 709-05.06 (TON)	REMARKS
80+22.94	SR 54		X	PRIVATE	10						NO S.D. REQD.
80+27.40	SR 54	X		PRIVATE	10	19.0					
80+66.06	SR 54	X		SIDEWALK	5	7.0					
80+67.71	SR 54		X	PRIVATE	10						NO S.D. REQD.
81+06.09	SR 54		X	PRIVATE	10						NO S.D. REQD.
82+00.00	SR 54		X	PRIVATE	10						NO S.D. REQD.
82+52.31	SR 54		X	PRIVATE	10						NO S.D. REQD.
29+09.08	ALLSION ST.		X	PRIVATE	10						NO S.D. REQD.
83+48.74	SR 54		X	BUSINESS	10						NO S.D. REQD.
84+96.34	SR 54	X		BUSINESS	20						NO S.D. REQD.
86+13.63	SR 54		X	BUSINESS	20				29.9		
86+66.06	SR 54		X	PRIVATE	22						NO S.D. REQD.
87+82.50	SR 54		X	BUSINESS	36.5						NO S.D. REQD.
28+50.00	B.R. SMITH	X		BUSINESS	20	31.0					
88+86.10	SR 54	X		PRIVATE	30						NO S.D. REQD.
90+22.74	SR 54	X		PRIVATE	10						NO S.D. REQD.
90+35.13	SR 54		X	PRIVATE	10	19.3					
30+91.00	OLD PARIS-MURRAY		X	PRIVATE	16						NO S.D. REQD.
31+43.28	OLD PARIS-MURRAY		X	PRIVATE	10	28.4					
92+25.19	SR 54	X		BUSINESS	40						NO S.D. REQD.
93+37.57	SR 54		X	PRIVATE	16						NO S.D. REQD.
96+05.41	SR 54	X		BUSINESS	40						NO S.D. REQD.
96+78.61	SR 54		X	PRIVATE	15						NO S.D. REQD.
100+70.00	SR 54		X	PRIVATE	20						NO S.D. REQD.
100+87.19	SR 54	X		BUSINESS	20						NO S.D. REQD.
101+33.77	SR 54	X		BUSINESS	20						NO S.D. REQD.
28+65.66	LOGAN RD.		X	BUSINESS	30						NO S.D. REQD.
103+00.00	SR 54		X	PRIVATE	12						NO S.D. REQD.
106+00.46	SR 54	X		PRIVATE	10						NO S.D. REQD.
106+15.62	SR 54	X		PRIVATE	10						NO S.D. REQD.
106+41.92	SR 54		X	PRIVATE	10						NO S.D. REQD.
107+13.17	SR 54		X	PRIVATE	10						NO S.D. REQD.
109+05.58	SR 54		X	PRIVATE	10						NO S.D. REQD.
109+40.13	SR 54		X	PRIVATE	10						NO S.D. REQD.
109+57.53	SR 54	X		FIELD	10						NO S.D. REQD.
111+26.65	SR 54		X	PRIVATE	15						NO S.D. REQD.
112+08.13	SR 54		X	PRIVATE	10						NO S.D. REQD.
112+67.44	SR 54	X		PRIVATE	10						NO S.D. REQD.
121+39.54	SR 54	X		PRIVATE	10						NO S.D. REQD.
125+00.00	SR 54	X		BUSINESS	20						NO S.D. REQD.
125+05.73	SR 54		X	PRIVATE	19						NO S.D. REQD.
128+50.11	SR 54		X	PRIVATE	12						NO S.D. REQD.
128+95.84	SR 54	X		PRIVATE	10						NO S.D. REQD.
130+93.90	SR 54		X	PRIVATE	10						NO S.D. REQD.
134+15.15	SR 54	X		PRIVATE	10						NO S.D. REQD.
135+67.22	SR 54		X	BUSINESS	18						NO S.D. REQD.
136+50.03	SR 54	X		PRIVATE	10						NO S.D. REQD.
140+56.70	SR 54	X		PRIVATE	32						NO S.D. REQD.
141+33.42	SR 54		X	PRIVATE	32						NO S.D. REQD.
141+66.52	SR 54	X		BUSINESS	20						NO S.D. REQD.
143+50.25	SR 54		X	PRIVATE	32						NO S.D. REQD.
144+21.81	SR 54	X		PRIVATE	20						NO S.D. REQD.
144+44.31	SR 54		X	LORENA LN.	16						NO S.D. REQD.
145+62.80	SR 54		X	PRIVATE	10						NO S.D. REQD.
146+02.75	SR 54	X		PRIVATE	15						NO S.D. REQD.
147+07.17	SR 54	X		PRIVATE	15						NO S.D. REQD.
148+90.02	SR 54	X		PRIVATE	10						NO S.D. REQD.
31+19.61	TANGLEWOOD LN		X	PRIVATE	10						NO S.D. REQD.
149+68.22	SR 54	X		PRIVATE	10						NO S.D. REQD.
152+13.73	SR 54		X	BUSINESS	18						NO S.D. REQD.
156+87.19	SR 54	X		PRIVATE	10	18.0					
158+22.98	SR 54		X	BUSINESS	16	25.5					
SUBTOTAL - TABULATION 1						60.2	22.3	112.0	0.0	6.24	
SUBTOTAL - TABULATION 2						148.2	0.0	0.0	29.9	0.0	
TOTALS						**208.4**	**22.3**	**112.0**	**29.9**	**6.24**	

CONSTRUCTABILITY FIELD REVIEW

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 10 OF 10

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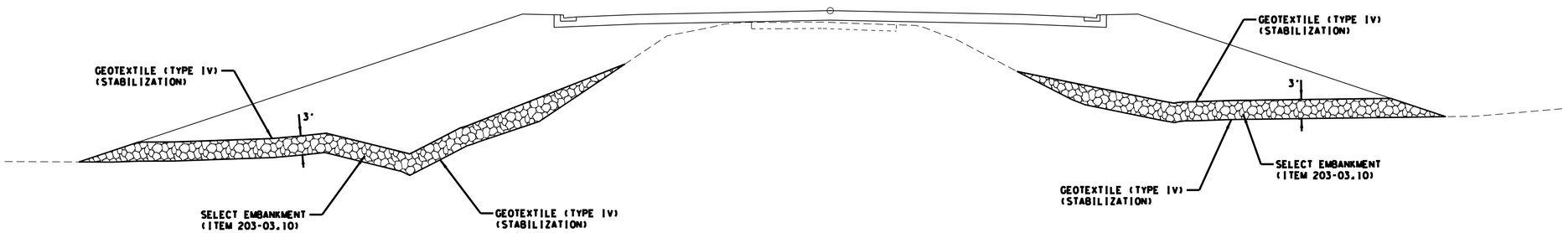
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AC



S.R. 54 SELECT EMBANKMENT MATERIAL

STA. 26+00 TO STA. 30+00
STA. 31+00 TO STA. 34+50
STA. 36+50 TO STA. 40+00
STA. 84+50 TO STA. 85+50
STA. 94+50 TO STA. 96+00
STA. 103+00 TO STA. 105+00
STA. 117+00 TO STA. 121+00
STA. 126+00 TO STA. 130+50
STA. 136+50 TO STA. 139+50
STA. 159+00 TO STA. 160+50

CONSTRUCTABILITY
FIELD
REVIEW

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DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL

SELECT EMBANKMENT

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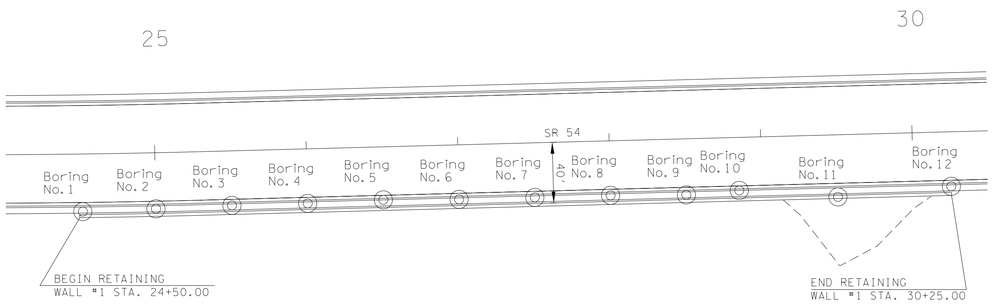
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AD

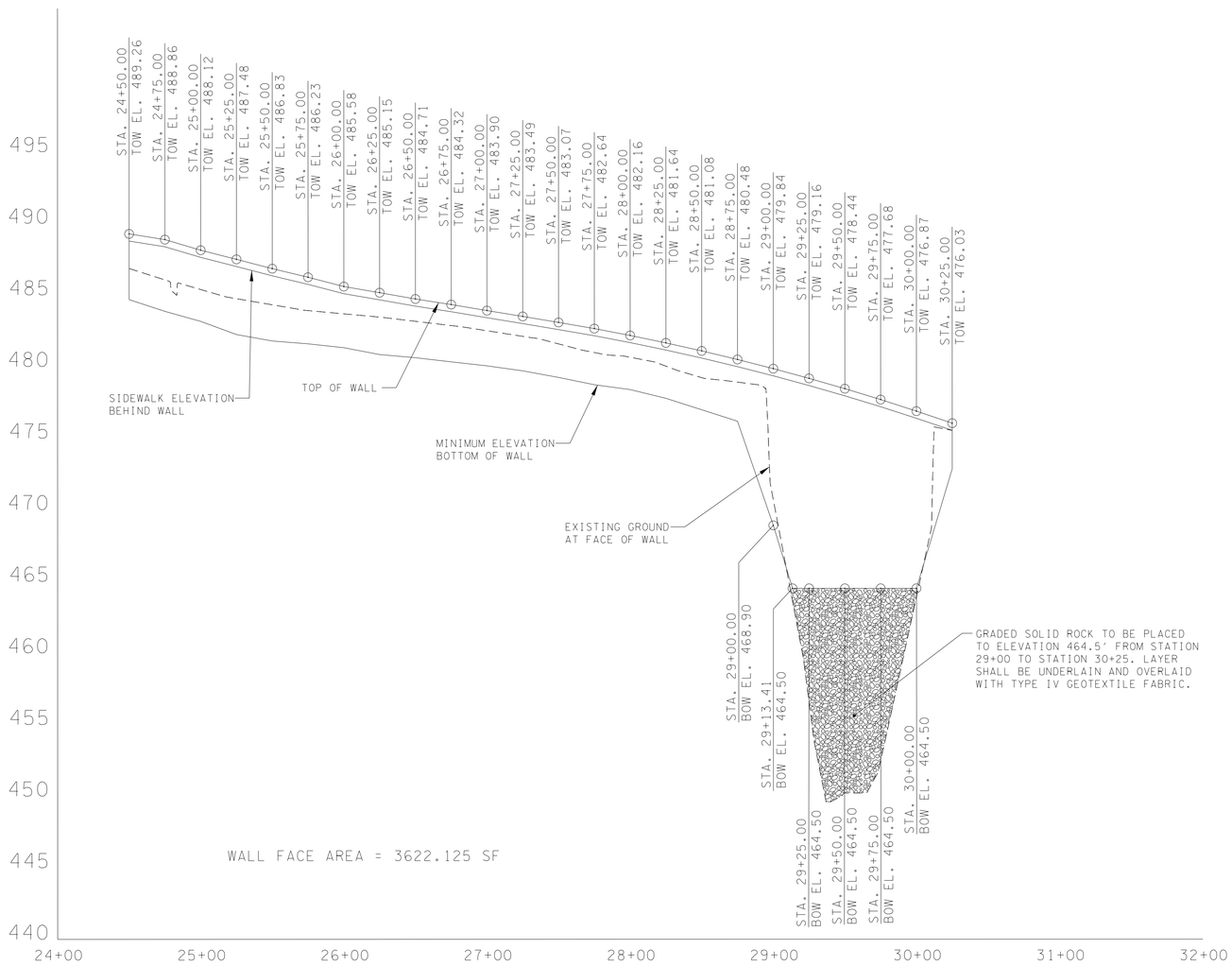
WALL PLAN VIEW (1" = 50')

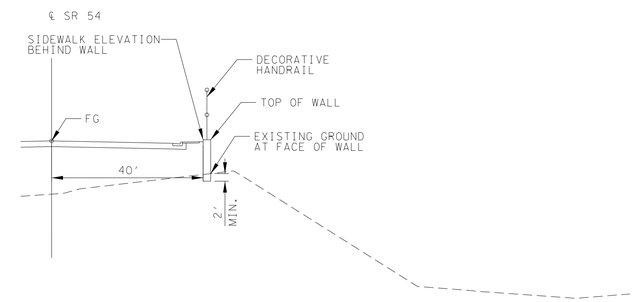


STAKING POINTS FOR DRILLING

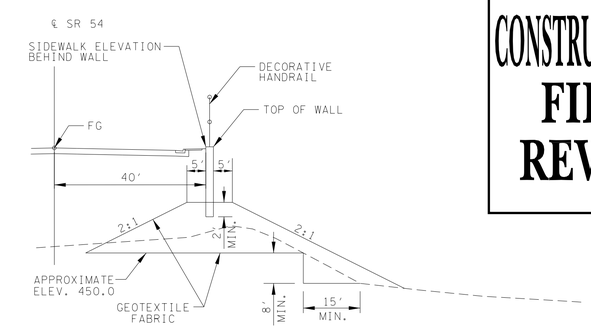
NO.	STATION	CENTERLINE REFERENCE	N	E	EX. GROUND ELEVATION
1	24+52.00	38.00' RT	727179.76	1283121.01	486.30
2	25+00.00	37.00' RT	727227.19	1283112.87	484.90
3	25+50.00	36.00' RT	727276.55	1283104.05	483.90
4	26+00.00	36.00' RT	727326.10	1283096.14	483.30
5	26+50.00	35.00' RT	727375.29	1283087.28	482.00
6	27+00.00	36.00' RT	727424.81	1283080.39	481.30
7	27+50.00	36.00' RT	727474.33	1283072.48	480.90
8	28+00.00	36.00' RT	727523.25	1283064.67	479.60
9	28+50.00	37.00' RT	727573.31	1283057.70	479.30
10	28+85.00	35.00' RT	727622.18	1283047.87	481.80
11	29+50.00	41.00' RT	727672.36	1283045.94	450.20
12	30+25.00	36.00' RT	727745.14	1283029.26	477.10

WALL ELEVATION VIEW





TYPICAL SECTION STA. 24+50 TO STA. 29+00



TYPICAL SECTION STA. 29+00 TO STA. 30+00

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #1
SR 54
STA. 24+50 RT. TO STA. 30+25 RT.

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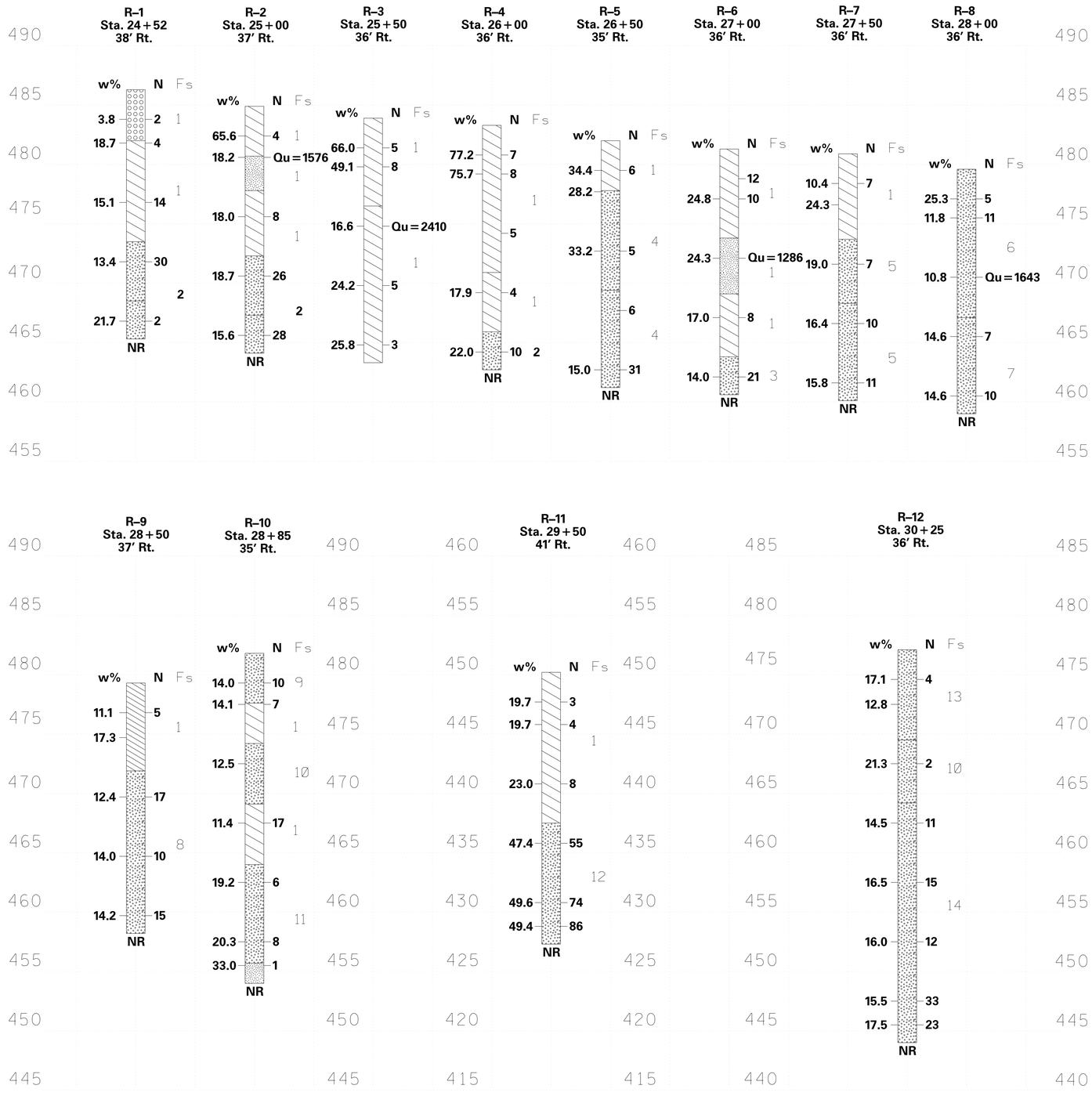
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AE



PROFILE
SCALE: 1" = 50′ HORIZ.
1" = 5′ VERT.

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤35% PASSING #200)						SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1,A-2 A-3	A-4,A-5 A-6,A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL & SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS		SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS

ADDITIONAL ROCK SYMBOLS

SYMBOL	SHALE	LIMESTONE	DOLOMITE	WEATHERED SHALE	EXISTING ROADWAY FILL	RANDOM BACKFILL	WEATHERED LIMESTONE	GRADED SOLID ROCK

○	Rockline Soundings	RQD	Rock Quality Designation
◔	Disturbed Sample Boring	REC	% Core Recovered
◎	Undisturbed Sample Boring	Qu (psf)	Unconfined Compressive Strength
⊙	Undisturbed Sample Boring & Rock Core	Qu (ksf)	Unconfined Compressive Strength (Rock Core)
●	Rock Core	UU (psf)	Unconsolidated Undrained Triaxial Strength
▼ (Date)	Water Elevation	w%	Moisture Content
✳	Liquifaction is Probable at These Locations	R	Refusal
N	Penetration Resistance	NR	Refusal Not Encountered
		Fs	Side Friction Value For Interval (KSF), Factored Unit Resistance

CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #1
SR 54
STA. 24+50 RT. TO STA. 30+25 RT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AF

ACCEPTABLE WALL TYPES

THE RETAINING WALL(S) SHALL BE ONE OF THE WALL TYPES AS LISTED BELOW OR ON FORTHCOMING "RETAINING WALL DETAILS" SHEET(S). FOR RETAINING WALL SYSTEMS LISTED AS BIN WALL, CRIB WALL, PRECAST GRAVITY WALL, MSE (EITHER SEGMENTAL PANEL OR MODULAR BLOCK) AND GROUND ANCHOR WALL; THE SPECIFIC WALL SYSTEM SUPPLIER/INSTALLER SHALL BE ONE OF THOSE LISTED AS PRE-APPROVED IN QPL 38.

CAST-IN-PLACE CONCRETE GRAVITY WALL
CAST-IN-PLACE CONCRETE CANTILEVER WALL
MECHANICALLY STABILIZED EARTH (MSE) WALL - SEGMENTAL PRECAST
MECHANICALLY STABILIZED EARTH (MSE) WALL - MODULAR BLOCK

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALLS SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 - EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS AND HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN 1) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS AND 2) PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS. NOTE TO GEOTECHNICAL SHEET PREPARER-REFER TO ANY OTHER DESIGN MANUAL(S) THAT WILL GOVERN DESIGN SUCH AS ANCHOR WALL OR SOIL NAIL MANUAL.

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN QPL 38, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (I.E. REINFORCEMENT CONNECTION DEVICES, SPECIFIC MANUFACTURER AND PROPERTIES OF GEOGRID) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT, IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE WALL CONCEPT SHEET AND RELATED RETAINING WALL SHEETS TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS AND PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS.
- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY-GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. FOR MSE WALLS, THE WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL REQUIREMENTS. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.
- UNLESS OTHERWISE STATED, THE WALL DESIGNER CAN ASSUME THAT MINIMUM GLOBAL STABILITY AND SETTLEMENT CRITERIA IS ACHIEVED WITH A WALL DESIGN MEETING OTHER MINIMUM EXTERNAL STABILITY REQUIREMENTS AND ASSUMING WALL FOUNDATION CONDITIONS ARE MET. WHILE THE WALL DESIGNER'S DESIGN MUST DEMONSTRATE COMPLIANCE WITH EXTERNAL STABILITY REQUIREMENTS AS DISCUSSED ABOVE, THE WALL DESIGNER MAY PROVIDE CERTIFICATION (BY SIGNING AND STAMPING BY PROFESSIONAL ENGINEER REGISTERED IN STATE OF TENNESSEE) OF THE WALLS PLANS AND CALCULATIONS "FOR INTERNAL STABILITY ONLY".
- LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND EXTREME EVENT II AS GIVEN IN TABLE 4-1 OF PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS SHALL BE EVALUATED FOR MSE WALLS. LOAD COMBINATIONS FOR OTHER WALL TYPES SHALL BE AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS (AND/OR OTHER PERTINENT DESIGN MANUALS).

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM OF A 1:1 SLOPE IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	MSE WALLS	CIP WALLS
DESIGN LIFE	75 YEARS	75 YEARS
SEISMIC ACCELERATION COEFFICIENT (As)	✳	✳
EFFECTIVE (DRAINED) FRICTION ANGLE		
RETAINED BACKFILL-UNCLASSIFIED SITE OR BORROW SOIL	30°	30°
RETAINED BACKFILL-SELECT BACKFILL	34° TO MAX 40°	34° TO MAX 40°
REINFORCED BACKFILL	34° TO MAX 40°	NOT APPLICABLE
UNIT WEIGHT		
UNCLASSIFIED SITE OR BORROW SOIL	120 POUNDS PER CUBIC FOOT	120 POUNDS PER CUBIC FOOT
SELECT BACKFILL MATERIAL	VARIES	VARIES
DESIGN BASIS		
COEFFICIENT OF SLIDING FRICTION	SEE TABLE 2	SEE TABLE 3
NOMINAL BEARING RESISTANCE	SEE TABLE 2	SEE TABLE 3
MINIMUM LENGTH OF SOIL REINFORCEMENT, L	GREATER OF 8-FT OR 0.7H OR AS SPECIFIED ON THE PLANS	NOT APPLICABLE
LIMITING ECCENTRICITY	L/4 (SOIL), 3L/8 (ROCK)	B/3 (SOIL), 9B/20 (ROCK)
RESISTANCE FACTORS		
SLIDING-STATIC	1.0	1.0
SLIDING-COMBINED STATIC+EARTHQUAKE	1.0	1.0
BEARING-STATIC	0.65	0.55
BEARING-COMBINED STATIC+EARTHQUAKE	0.9	0.8
PULLOUT RESISTANCE		
STATIC	0.90	NOT APPLICABLE
COMBINED STATIC/EARTHQUAKE	1.20	NOT APPLICABLE
TENSILE RESISTANCE OF METALLIC REINFORCEMENTS AND CONNECTORS		
STATIC		
-STRIP REINFORCEMENT	0.75	NOT APPLICABLE
-GRID REINFORCEMENT	0.65	
COMBINED STATIC/EARTHQUAKE		
-STRIP REINFORCEMENT	1.00	NOT APPLICABLE
-GRID REINFORCEMENT	0.85	
TENSILE RESISTANCE OF GEOSYNTHETIC REINFORCEMENTS AND CONNECTORS		
STATIC	0.90	NOT APPLICABLE
COMBINED STATIC/EARTHQUAKE	1.20	NOT APPLICABLE

TABLE 1.1
NOTES FOR TABLE 1

NO.	NOTE
1	A MAXIMUM FRICTION ANGLE OF 34 DEGREES CAN BE ASSUMED FOR MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. A HIGHER FRICTION ANGLE THAN 34 DEGREES CAN BE UTILIZED IF THE CONTRACTOR SUBMITS INDEPENDENT TESTING AND IT IS VERIFIED BY TDOT. HOWEVER, IN NO CASE SHALL THE FRICTION ANGLE FOR ANALYSIS EXCEED 40-DEGREES.
1A	SELECT BACKFILL UNIT WEIGHT TO BE DETERMINED BY CONTRACTOR/DESIGNER DEPENDING ON ACTUAL BACKFILL MATERIAL USED. SELECT BACKFILL IS DEFINED AS MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. IN ORDER TO UTILIZE Φ FOR SELECT BACKFILL DESIGN, SELECT BACKFILL MUST BE PLACED FOR A MINIMUM ZONE FORMED BY A 1:1 SLOPE FROM 2 FEET BEHIND THE BOTTOM OF BACK OF WALL FOOTING OR REINFORCED SOIL ZONE FOR MSE WALLS UP TO FINISHED GRADE.
2	H IS DESIGN HEIGHT OF THE WALL AND IS DEFINED AS THE DIFFERENCE IN ELEVATION BETWEEN THE FINISHED GRADE AT THE TOP OF THE WALL AND THE TOP OF LEVELING PAD OR BOTTOM OF FOOTING FOR NON-MSE WALLS. THE TOP OF THE LEVELING PAD SHALL ALWAYS BE BELOW THE MINIMUM EMBEDMENT REFERENCE LINE AS INDICATED ON THE PLANS FOR THAT LOCATION. THE LENGTH OF THE SOIL REINFORCEMENT, L, IS MEASURED FROM THE BACKFACE OF THE WALL FACING UNIT. IN CASE OF GRID TYPE REINFORCEMENTS THE LENGTH OF THE SOIL REINFORCEMENT IS MEASURED FROM THE BACKFACE OF THE WALL FACING UNIT TO THE LAST FULL TRANSVERSE MEMBER. FOR MODULAR BLOCKFACING UNITS, THE TOTAL LENGTH OF THE REINFORCEMENT, Br AS MEASURED FROM THE FRONT FACE OF THE WALL IS THE LENGTH L AS DEFINED ABOVE PLUS THE WIDTH OF THE MODULAR BLOCK UNIT (THE HORIZONTAL DIMENSION OF THE BLOCK UNIT MEASURED PERPENDICULAR TO THE WALL FACE).
2A	WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL STABILITY REQUIREMENTS. MINIMUM REINFORCEMENT LENGTHS MAY BE REQUIRED FOR GLOBAL STABILITY. THIS REQUIREMENT WILL BE SHOWN IN THE PLANS.
2B	ALL DESIGN SECTION REINFORCEMENT LENGTHS SHALL BE EQUAL.
3	THESE VALUES WILL BE PROVIDED IN TABLES 2 AND/OR 3
4	PASSIVE RESISTANCE SHALL NOT BE CONSIDERED IN EVALUATION OF SLIDING RESISTANCE. NO SHEAR KEYS NOR DOWELS WILL BE PERMITTED.
5	FOR ALL LIMIT STATES, THE DESIGN LOADING FOR THE MSE RETAINING WALL SYSTEM SHALL NOT EXCEED THE FACTORED GENERAL AND LOCAL BEARING RESISTANCE SPECIFIED IN TABLES 2 OR 3.
6	LIVE LOAD DUE TO VEHICULAR TRAFFIC SHALL BE INCLUDED IN THE COMPUTATIONS TO DETERMINE THE MAXIMUM TENSILE FORCES IN REINFORCEMENT LAYERS, BUT SHALL BE NEGLECTED IN THE COMPUTATIONS FOR PULLOUT RESISTANCE.
7	APPLY TO GROSS CROSS-SECTION LESS SACRIFICIAL AREA. FOR SECTIONS WITH HOLES, REDUCE GROSS AREA IN ACCORDANCE WITH ARTICLE 6.8.3 OF AASHTO (2012) AND APPLY TO NET SECTION LESS SACRIFICIAL AREA.
8	APPLIES TO GRID REINFORCEMENTS CONNECTED TO A RIGID FACING ELEMENT, E.G., A CONCRETE PANEL OR BLOCK. FOR GRID REINFORCEMENTS CONNECTED TO A FLEXIBLE FACING MAT OR WHICH ARE CONTINUOUS WITH THE FACING MAT, USE THE RESISTANCE FACTOR FOR STRIP REINFORCEMENTS.

✳ ✳ WALL DESIGN IS TO INCLUDE EXTREME EVENT I STATE LOADS. THE TDOT STRUCTURES DIVISION WILL PROVIDE GROUND MOTION VALUES FOR THE SITE. THIS BOX IS TO BE REMOVED AFTER STRUCTURES DIVISION HAS INSERTED THIS (Ax) VALUE.

WALL FASCIA REQUIREMENTS

THE ACCEPTABLE WALL TYPES LISTED ARE FOR GEOTECHNICAL RECOMMENDATIONS ONLY. AESTHETIC REQUIREMENTS MAY NECESSIATE A REEVALUATION OF THE ACCEPTABLE WALL TYPES. FASCIA REQUIREMENTS SHALL BE DETERMINED BY THE TDOT STRUCTURES DIVISION. THIS BOX IS TO BE REMOVED AFTER TDOT STRUCTURES DIVISION HAS REVISED THE ACCEPTABLE WALL TYPES TO SATISFY THE FASCIA REQUIREMENTS.

TABLE 2-FOUNDATION PARAMETERS AND REQUIREMENTS FOR MSE WALLS

STATION LIMITS	FOUNDATION (REINFORCED ZONE) BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
24+50 (BOW) TO 29+00	ON SOIL AT MINIMUM EMBEDMENT DEPTH	3300	0.35
29+00 TO 30+25 (EOW)	ON GRADED SOLID ROCK	10000	0.60

TABLE 3-FOUNDATION PARAMETERS AND REQUIREMENTS FOR OTHER GRAVITY OR SEMI-GRAVITY WALLS

STATION LIMITS	FOUNDATION BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
24+50 (BOW) TO 29+00	ON SOIL AT MINIMUM EMBEDMENT DEPTH	3300	0.35
29+00 TO 30+25 (EOW)	ON GRADED SOLID ROCK	10000	0.60

OTHER DESIGN REQUIREMENTS

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALLS. DETAILS OF THIS DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS.

IF A CONCRETE CANTILEVER WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL STEM WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS
GEOTECHNICAL DESIGN NOTES AND REQUIREMENTS

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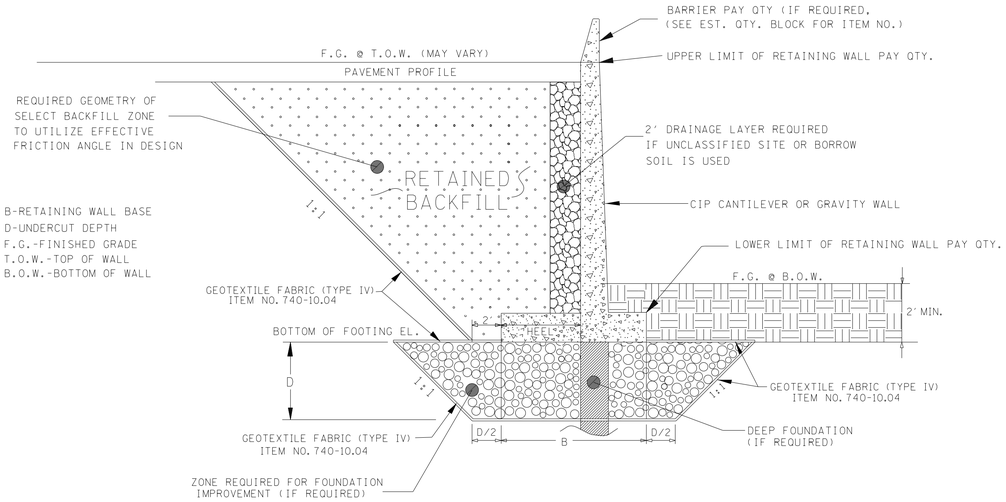
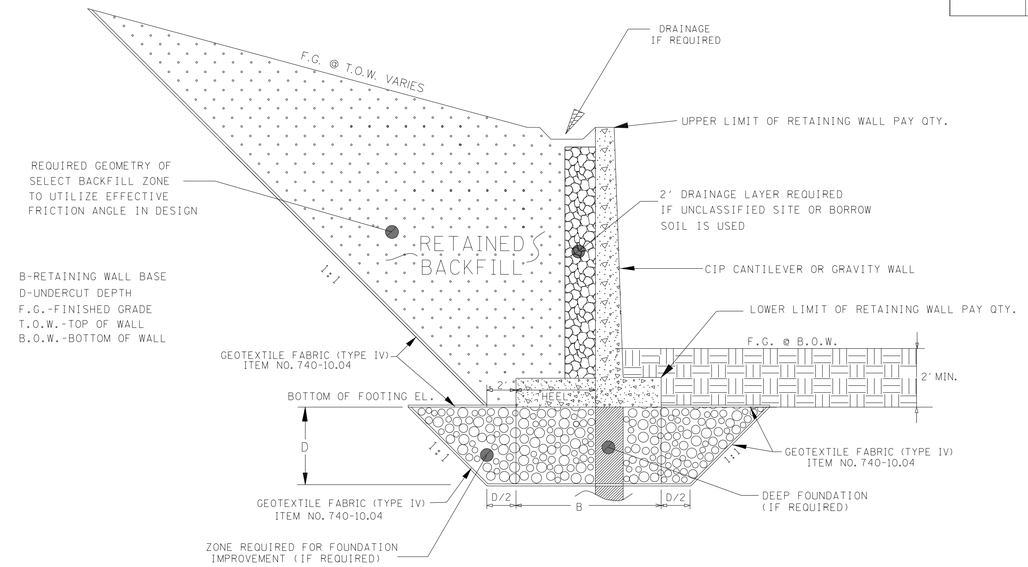
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.
VER. 09/25/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2017	NH-54(26)	2AG

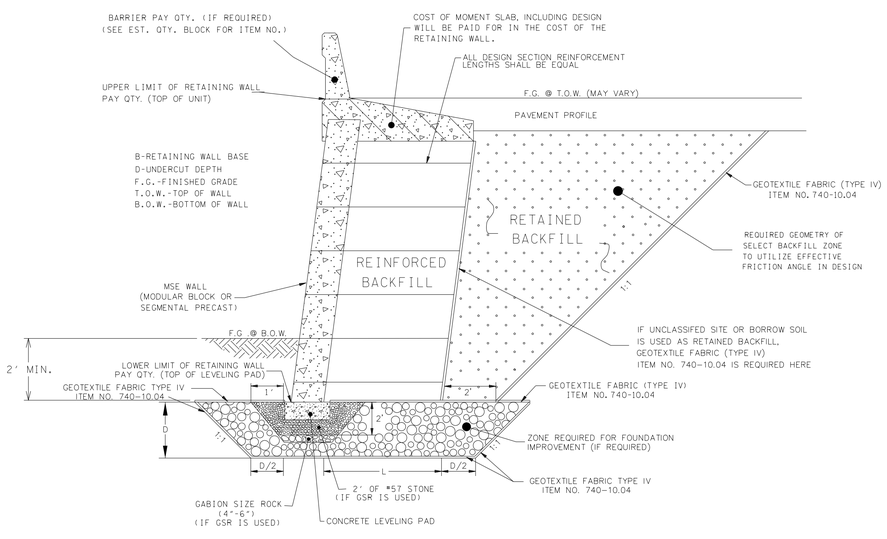


TYPICAL DETAIL
CIP CONCRETE CANTILEVER OR GRAVITY WALL
BARRIER REQUIRED

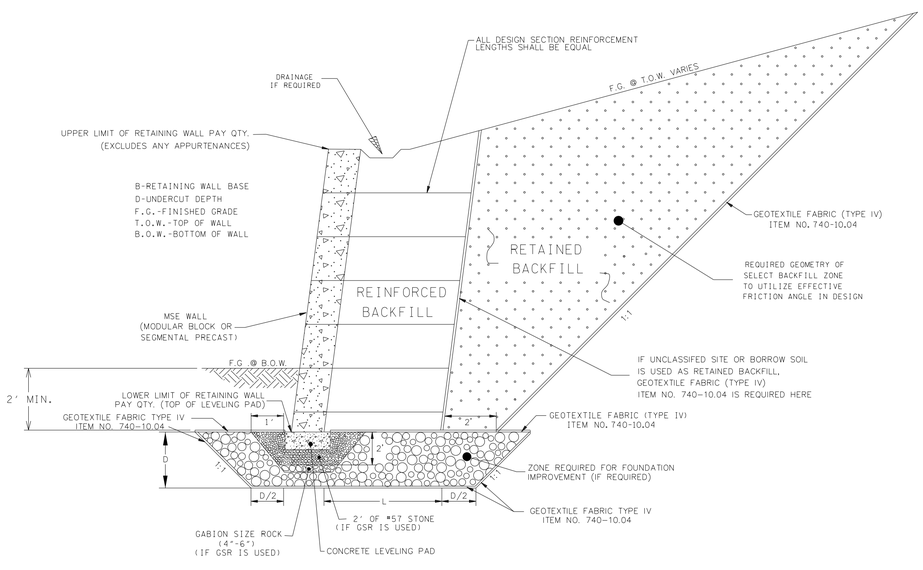


TYPICAL DETAIL
CIP CONCRETE CANTILEVER OR GRAVITY WALL

CONSTRUCTABILITY
FIELD
REVIEW



TYPICAL DETAIL
MSE WALL – MODULAR BLOCK\SEGMENTAL PRECAST
BARRIER REQUIRED



TYPICAL DETAIL
MSE WALL – MODULAR BLOCK\SEGMENTAL PRECAST

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAIL
CIP CANTILEVER WALL
GRAVITY WALL
MSE MODULAR BLOCK
MSE SEGMENTAL PRECAST

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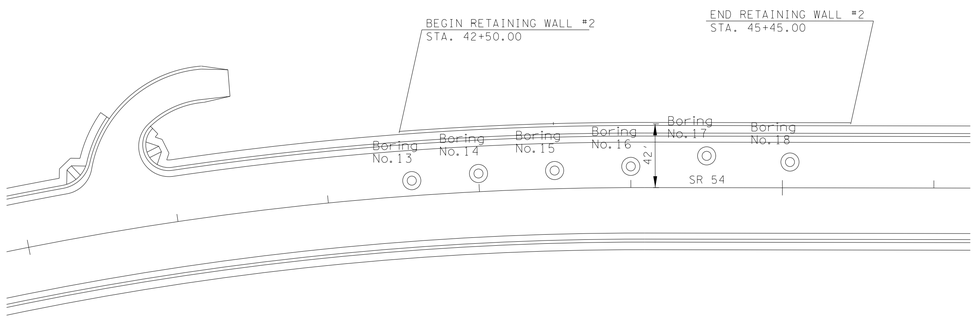
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AH

REV 07-10-12: ADJUSTED WALL LENGTH AND BORING LOCATIONS TO COORDINATE WITH PROFILE

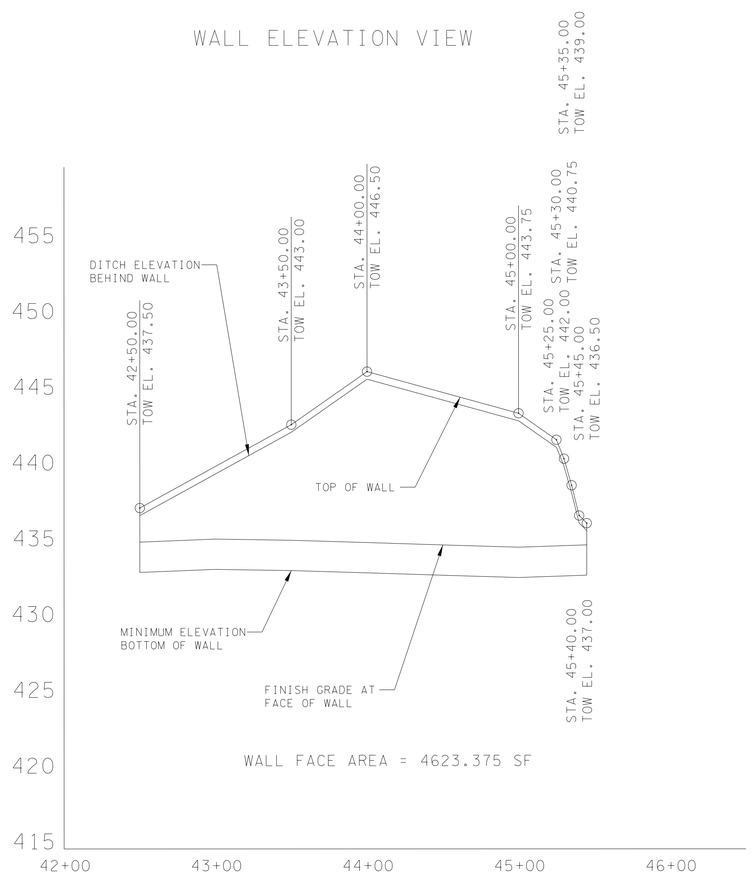
WALL PLAN VIEW (1" = 50')

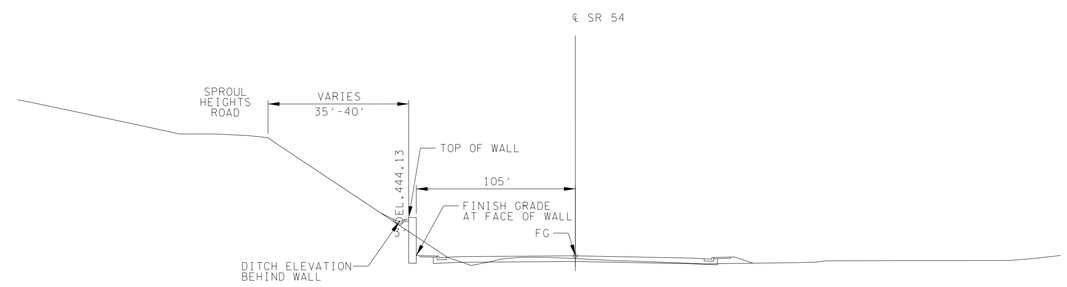


STAKING POINTS FOR DRILLING

NO.	STATION	CENTERLINE REFERENCE	N	E	EX. GROUND ELEVATION
13	42+56.00	10' LT.	728960.30	1282977.06	433.30
14	43+00.00	12' LT.	729004.41	1282987.54	433.50
15	43+50.00	12' LT.	729052.45	1283002.40	434.10
16	44+00.00	14' LT.	729100.62	1283017.00	434.40
17	44+50.00	15' LT.	729148.21	1283032.56	434.60
18	45+05.00	17' LT.	729200.89	1283048.57	434.60

WALL ELEVATION VIEW





TYPICAL SECTION STA. 44+50

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #2
SR 54
STA. 42+50 LT. TO STA. 45+45 LT.

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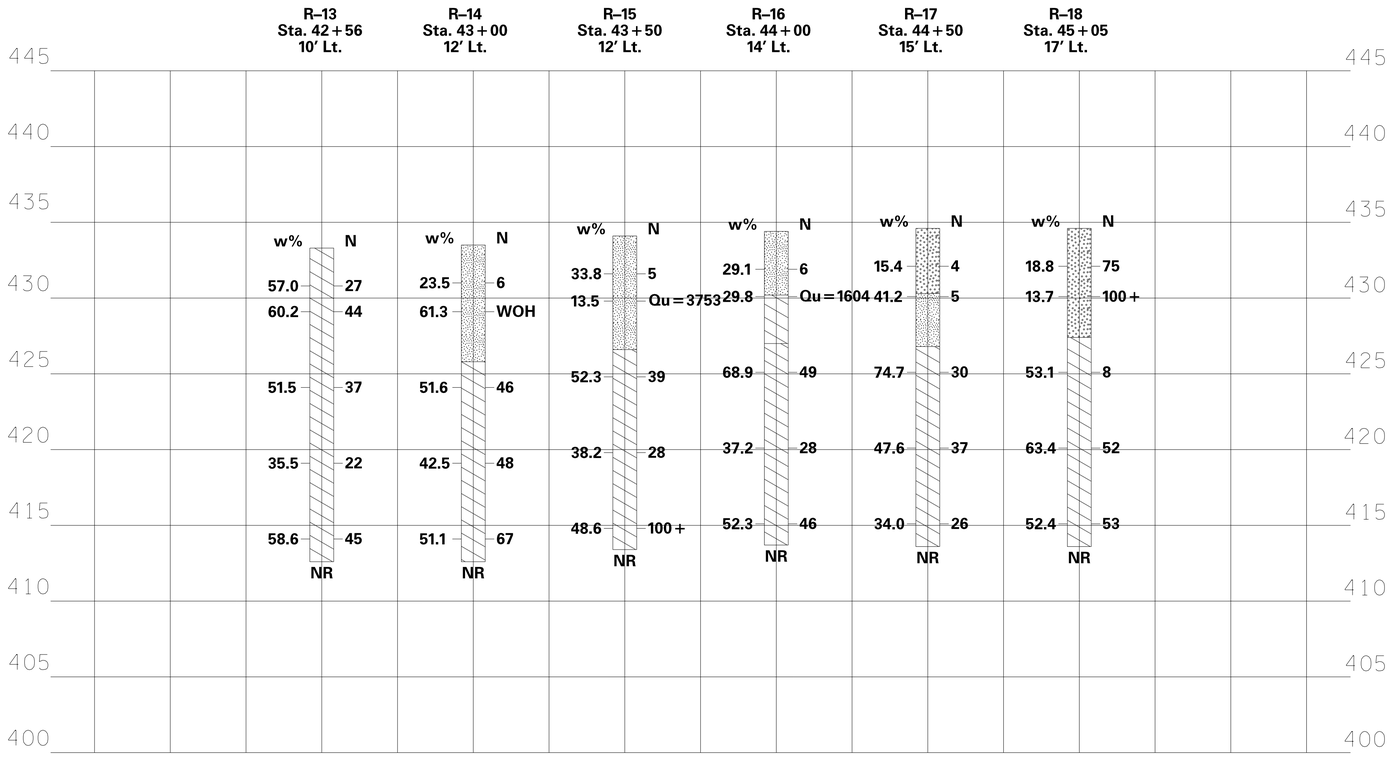
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AI



PROFILE
SCALE: 1" = 50′ HORIZ.
1" = 5′ VERT.

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤35% PASSING #200)						SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1,A-2 A-3	A-4,A-5 A-6,A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL & SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS		SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS

ADDITIONAL ROCK SYMBOLS

SYMBOL	SHALE	LIMESTONE	DOLOMITE	WEATHERED SHALE	EXISTING ROADWAY FILL	RANDOM BACKFILL	WEATHERED LIMESTONE	GRADED SOLID ROCK

○	Rockline Soundings	RQD	Rock Quality Designation
◔	Disturbed Sample Boring	REC	% Core Recovered
◎	Undisturbed Sample Boring	Qu (psf)	Unconfined Compressive Strength
⊙	Undisturbed Sample Boring & Rock Core	Qu (ksf)	Unconfined Compressive Strength (Rock Core)
●	Rock Core	UU (psf)	Unconsolidated Undrained Triaxial Strength
▼ (Date)	Water Elevation	w%	Moisture Content
✳	Liquifaction is Probable at These Locations	R	Refusal
N	Penetration Resistance	NR	Refusal Not Encountered

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #2
SR 54
STA. 42+50 LT. TO STA. 45+45 LT.

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P.E. NO. _____

PROJECT NO.	YEAR	SHEET NO.
NH-54(26)	2017	2AJ

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE WALL CONCEPT SHEET AND RELATED RETAINING WALL SHEETS TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2010 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS AND PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS.

- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY-GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. FOR MSE WALLS, THE WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL REQUIREMENTS. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.

- UNLESS OTHERWISE STATED, THE WALL DESIGNER CAN ASSUME THAT MINIMUM GLOBAL STABILITY AND SETTLEMENT CRITERIA IS ACHIEVED WITH A WALL DESIGN MEETING OTHER MINIMUM EXTERNAL STABILITY REQUIREMENTS AND ASSUMING WALL FOUNDATION CONDITIONS ARE MET. WHILE THE WALL DESIGNER'S DESIGN MUST DEMONSTRATE COMPLIANCE WITH EXTERNAL STABILITY REQUIREMENTS AS DISCUSSED ABOVE, THE WALL DESIGNER MAY PROVIDE CERTIFICATION (BY SIGNING AND STAMPING BY PROFESSIONAL ENGINEER REGISTERED IN STATE OF TENNESSEE) OF THE WALLS PLANS AND CALCULATIONS "FOR INTERNAL STABILITY ONLY".

- LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND EXTREME EVENT II AS GIVEN IN TABLE 4-1 OF PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS SHALL BE EVALUATED FOR MSE WALLS. LOAD COMBINATIONS FOR OTHER WALL TYPES SHALL BE AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2007 AND INTERIMS.

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO THE FOLLOWING APPLICABLE REGULARTORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES REQUIRED FOR SITE ACCESS SHALL NOT EXCEED THREE (3) VERTICAL FEET. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

ACCEPTABLE WALL TYPES

THE RETAINING WALL SHALL BE ONE OF THE WALL TYPES LISTED BELOW. FOR RETAINING WALL SYSTEMS LISTED AS BIN WALL, CRIB WALL, MSE (EITHER SEGMENTAL PANEL OR MODULAR BLOCK) AND GROUND ANCHOR WALL, THE SPECIFIC WALL SYSTEM SUPPLIER/INSTALLER SHALL BE ONE OF THOSE LISTED AS PRE-APPROVED IN THE SPECIAL PROVISION 624.

- ANCHOR WALL
- SOLDIER PILE/LAGGING WALL

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	VALUE-ANCHOR WALLS	NOTE *
DESIGN LIFE	75 YEARS	
SEISMIC ACCELERATION COEFFICIENT (As)		
PULLOUT RESISTANCE OF ANCHORS		
COHESIONLESS (GRANULAR) SOILS	0.65	1
COHESIVE SOILS	0.70	
ROCK	0.50	
WHERE PROOF TESTS ARE CONDUCTED	1.0	2
TENSILE RESISTANCE OF ANCHOR TENDON		
MILD STEEL, (E.G., ASTM A615 BARS)	0.90	3
HIGH STRENGTH STEEL (E.G., ASTM A722 BARS)	0.80	
FLEXURAL CAPACITY OF VERTICAL ELEMENTS	0.90	
RESISTANCE FACTORS OF A SINGLE DRIVEN PILE		
STATIC ANALYSIS METHODS		
SLIDE BEARING RESISTANCE AND END BEARING: CLAY AND MIXED SOILS		
α -METHOD (TOMLINSON, 1987; SKEMPTON, 1951)	0.35	
b -METHOD (ESRIG & KIRBY, 1997; SKEMPTON 1951)	0.25	
l -METHOD (VIJAYVERGIYA & FOCHT, 1972; SKEMPTON 1951)	0.40	
SLIDE BEARING RESISTANCE AND END BEARING: SAND		
NORDLUND/THURMAND METHOD (HANNIGAN ET AL, 2005	0.45	
SPT-METHOD (MEYERHOF)	0.30	
CPT-METHOD (SCHMERTMANN)	0.50	
END BEARING IN ROCK (CANADIAN GEOTECH SOCIETY)	0.45	
LATERAL GEOTECHNICAL RESISTANCE OF A SINGLE PILE		
ALL SOILS AND ROCK	1.0	
RESISTANCE FACTORS OF A SINGLE DRILLED PILE/SHAFT		
SIDE RESISTANCE IN CLAY		
α -METHOD (O'NEILL AND REESE, 1999)	0.45	
TIP RESISTANCE IN CLAY		
TOTAL STRESS (O'NEILL AND REESE, 1999)	0.40	
SIDE BEARING RESISTANCE IN SAND		
b -METHOD (O'NEILL AND REESE, 1999)	0.55	
TIP RESISTANCE IN SAND		
O'NEILL AND REESE, 1999	0.50	
SIDE BEARING RESISTANCE IN INTERMEDIATE GEOMATERILS (IGMs)		
O'NEILL AND REESE, 1999	0.60	
TIP RESISTANCE IN INTERMEDIATE GEOMATERILS (IGMs)		
O'NEILL AND REESE, 1999	0.55	
SIDE BEARING RESISTANCE IN ROCK		
HORVATH AND KENNEY (1979), O'NEILL AND REESE (1999)	0.55	
CARTER AND KULHAWY (1988)	0.50	
TIP RESISTANCE IN ROCK		
CANADIAN GEOTECH. SOCIETY)1985), O'NEILL AND REESE (1999)	0.50	
LATERAL GEOTECHNICAL RESISTANCE OF A SINGLE PILE/SHAFT		
ALL MATERIALS	1.0	
*REFER TO TABLE 1.1 FOR NOTES.		

TABLE 1.1
NOTES FOR TABLE 1

NO.	NOTE
1	APPLY TO PRESUMPTIVE ULTIMATE UNIT BOND STRESSES FOR PRELIMINARY DESIGN ONLY
2	APPLY WHERE PROOF TEST(S) ARE CONDUCTED ON EVERY PRODUCTION ANCHOR TO A LOAD OF 1.0 OR GREATER TIMES THE FACTORED LOAD ON THE ANCHOR.
3	APPLY TO MAXIMUM PROOF TEST FOR ANCHORS
	UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE FACTORS SHALL BE TAKEN AS 1.0 WHEN INVESTIGATING AN EXTREME EVENT LIMIT STATE

TABLE 4-DESIGN PARAMETERS FOR ANCHORED WALL

STATION LIMITS	ELEVATION INTERNAL	MATERIAL	FRICTION ANGLE	COHESION	UNIT WEIGHT
42+50 (BOW) TO 45+45 (EOW)	TOP OF WALL TO BASE OF WALL	RETAINED BACKFILL	30 DEGREES	0	120 PCF

TABLE 4.1-DESIGN PARAMETERS FOR SOLDIER PILE/LAGGING WALL

STATION LIMITS	MINIMUM EMBEDMENT (FT)	PASSIVE RESISTANCE FOR PILE (LBS/FT)	NOMINAL PULLOUT RESISTANCE
42+50 (BOW) TO 45+45 (EOW)	25	10,000*	**

* ASSUMING 12 IN. WIDTH PILE WITH A SPACING OF 8 FT. C/C
** REQUIRED BASED ON WALL TYPE

OTHER DESIGN REQUIREMENTS

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALLS. DETAILS OF THIS DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS. IF A CONCRETE CANTILEVER WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL STEM WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

CONSTRUCTION NOTES

ASSUME DRILLING THROUGH IN-PLACE ROCK OR COLLUVIUM REQUIRED FOR INSTALLTION OF SOLDIER PILES.

TYPICAL CROSS-SECTION ON PREVIOUS SHEET DEPICTS CONDITIONS FOR DESIGN LOADS. CONTRACTOR EXPECTED TO ENCOUNTER LESS WEATHERED MATERIAL DURING WALL EXCAVATION.

DUE TO THE SITE GEOLOGY AND THE POTENTIAL CORROSIVE ENVIRONMENT AT THE ANCHOR AREA, IT IS RECOMMENDED THAT THE TENDON BOND LENGTH BE ENCAPSULATED TO PROVIDE ADDITIONAL CORROSION PROTECTION (DOUBLE CORROSION PROTECTION), THE ENCAPSULATION SHALL BE FABRICATED FROM ONE THE FOLLOWING:

i. HIGH DENSITY CORRUGATED POLYETHYLENE TUBING CONFORMING TO THE REQUIREMENTS OF ASSHTO M 252 AND HAVING A MINIMUM WALL THICKNESS OF 0.06 INCH EXEPT PREGROUTED TENDONS, WHICK MAY HAVE A MINIMUM WALL THICHNESS OF 0.04 INCH.

ii. CORRUGATED POLYVINYL CHLORIDE TUBES MANUFACTURED FROM RIGID PVC COMPOUNDS CONFORMING TO ASTM D 1784, CLASS 13646-B.

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

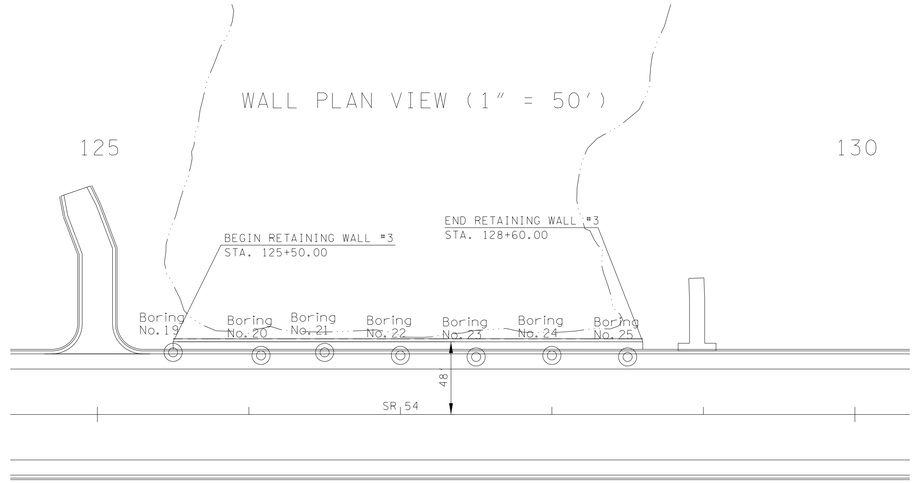
GEOTECHNICAL DESIGN NOTES
AND REQUIREMENTS

RETAINING WALL NO. 2
STATE ROUTE 54
STATION 42+50 TO 45+45
HENRY COUNTY
2016

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AK

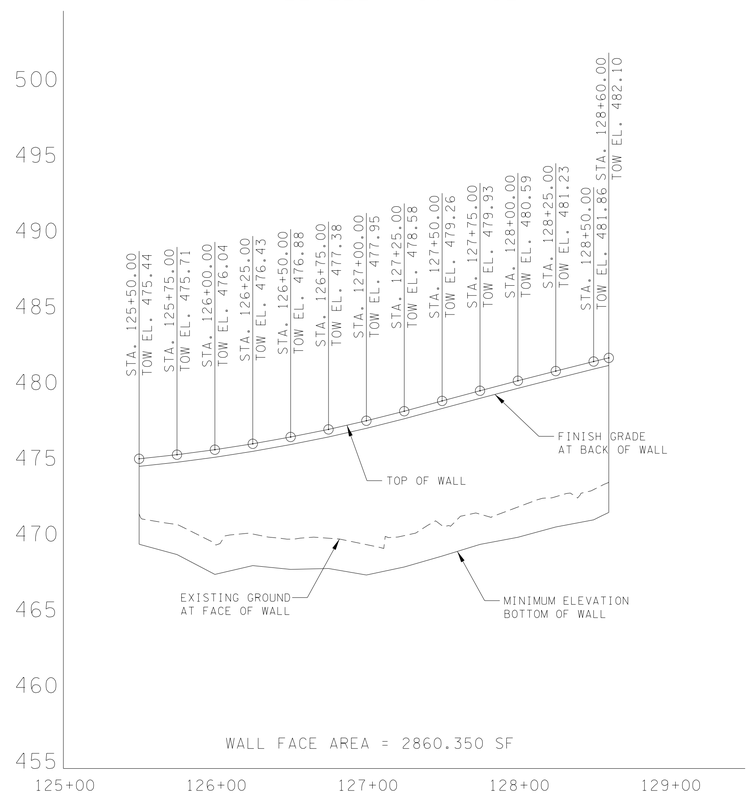
WALL PLAN VIEW (1" = 50')

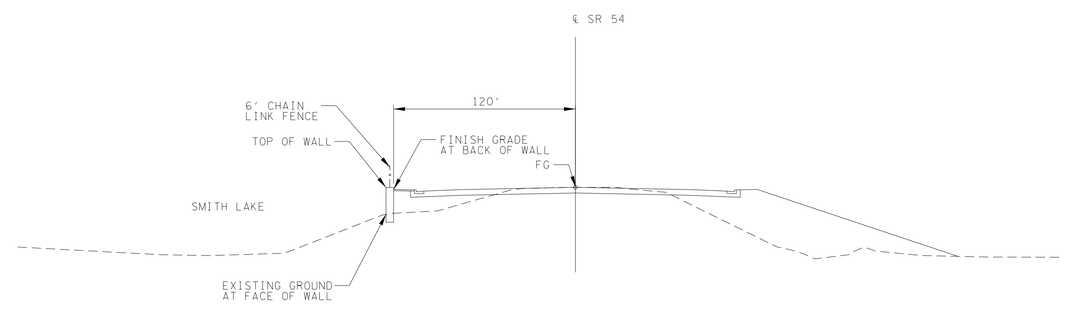


STAKING POINTS FOR DRILLING

NO.	STATION	CENTERLINE REFERENCE	N	E	EX. GROUND ELEVATION
19	125+50.00	41' LT.	737012.95	1283084.87	472.20
20	126+08.00	39' LT.	737067.45	1283063.84	469.10
21	126+50.00	41' LT.	737110.01	1283060.78	470.90
22	127+00.00	39' LT.	737158.84	1283049.95	471.40
23	127+50.00	38' LT.	737207.56	1283038.63	472.20
24	128+00.00	39' LT.	737255.78	1283025.38	472.90
25	128+50.00	38' LT.	737304.49	1283014.06	475.00

WALL ELEVATION VIEW





TYPICAL SECTION STA. 126+75

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #3
SR 54
STA. 125+50 LT. TO STA. 128+60 LT.

7/26/2016 12:39:10 PM
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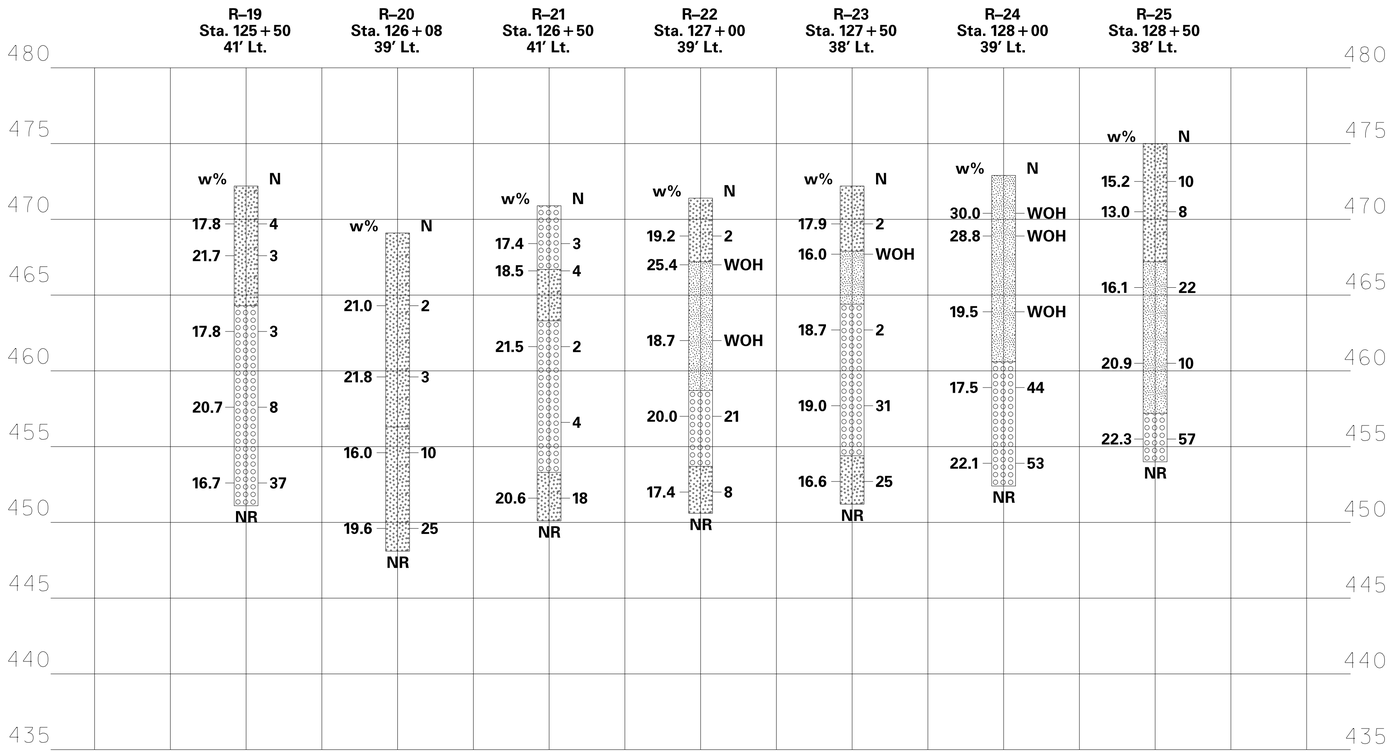
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AL



PROFILE
SCALE: 1" = 50′ HORIZ.
1" = 5′ VERT.

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤35% PASSING #200)						SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1,A-2 A-3	A-4,A-5 A-6,A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL & SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS		SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS

ADDITIONAL ROCK SYMBOLS

SYMBOL	SHALE	LIMESTONE	DOLOMITE	WEATHERED SHALE	EXISTING ROADWAY FILL	RANDOM BACKFILL	WEATHERED LIMESTONE	GRADED SOLID ROCK

○	Rockline Soundings	RQD	Rock Quality Designation
◔	Disturbed Sample Boring	REC	% Core Recovered
◎	Undisturbed Sample Boring	Qu (psf)	Unconfined Compressive Strength
⊙	Undisturbed Sample Boring & Rock Core	Qu (ksf)	Unconfined Compressive Strength (Rock Core)
●	Rock Core	UU (psf)	Unconsolidated Undrained Triaxial Strength
▼(Date)	Water Elevation	w%	Moisture Content
✳	Liquifaction is Probable at These Locations	R	Refusal
N	Penetration Resistance	NR	Refusal Not Encountered

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #3
SR 54
STA. 125+50 LT. TO STA. 128+60 LT.

7/26/2016 12:39:36 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AM

ACCEPTABLE WALL TYPES

THE RETAINING WALL(S) SHALL BE ONE OF THE WALL TYPES AS LISTED BELOW OR ON FORTHCOMING "RETAINING WALL DETAILS" SHEET(S). FOR RETAINING WALL SYSTEMS LISTED AS BIN WALL, CRIB WALL, PRECAST GRAVITY WALL, MSE (EITHER SEGMENTAL PANEL OR MODULAR BLOCK) AND GROUND ANCHOR WALL; THE SPECIFIC WALL SYSTEM SUPPLIER/INSTALLER SHALL BE ONE OF THOSE LISTED AS PRE-APPROVED IN QPL 38.

CAST-IN-PLACE CONCRETE GRAVITY WALL
CAST-IN-PLACE CONCRETE CANTILEVER WALL
MECHANICALLY STABILIZED EARTH (MSE) WALL - SEGMENTAL PRECAST
MECHANICALLY STABILIZED EARTH (MSE) WALL - MODULAR BLOCK

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALLS SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 - EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS AND HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN 1) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS AND 2) PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS. NOTE TO GEOTECHNICAL SHEET PREPARER-REFER TO ANY OTHER DESIGN MANUAL(S) THAT WILL GOVERN DESIGN SUCH AS ANCHOR WALL OR SOIL NAIL MANUAL.

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN QPL 38, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (I.E. REINFORCEMENT CONNECTION DEVICES, SPECIFIC MANUFACTURER AND PROPERTIES OF GEOGRID) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT, IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE WALL CONCEPT SHEET AND RELATED RETAINING WALL SHEETS TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS AND PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS.
- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY-GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. FOR MSE WALLS, THE WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL REQUIREMENTS. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.
- UNLESS OTHERWISE STATED, THE WALL DESIGNER CAN ASSUME THAT MINIMUM GLOBAL STABILITY AND SETTLEMENT CRITERIA IS ACHIEVED WITH A WALL DESIGN MEETING OTHER MINIMUM EXTERNAL STABILITY REQUIREMENTS AND ASSUMING WALL FOUNDATION CONDITIONS ARE MET. WHILE THE WALL DESIGNER'S DESIGN MUST DEMONSTRATE COMPLIANCE WITH EXTERNAL STABILITY REQUIREMENTS AS DISCUSSED ABOVE, THE WALL DESIGNER MAY PROVIDE CERTIFICATION (BY SIGNING AND STAMPING BY PROFESSIONAL ENGINEER REGISTERED IN STATE OF TENNESSEE) OF THE WALLS PLANS AND CALCULATIONS "FOR INTERNAL STABILITY ONLY".
- LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND EXTREME EVENT II AS GIVEN IN TABLE 4-1 OF PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS SHALL BE EVALUATED FOR MSE WALLS. LOAD COMBINATIONS FOR OTHER WALL TYPES SHALL BE AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS (AND/OR OTHER PERTINENT DESIGN MANUALS).

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM OF A 1:1 SLOPE IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	MSE WALLS	CIP WALLS
DESIGN LIFE	75 YEARS	75 YEARS
SEISMIC ACCELERATION COEFFICIENT (As)	✳	✳
EFFECTIVE (DRAINED) FRICTION ANGLE		
RETAINED BACKFILL-UNCLASSIFIED SITE OR BORROW SOIL	30°	30°
RETAINED BACKFILL-SELECT BACKFILL	34° TO MAX 40°	34° TO MAX 40°
REINFORCED BACKFILL	34° TO MAX 40°	NOT APPLICABLE
UNIT WEIGHT		
UNCLASSIFIED SITE OR BORROW SOIL	120 POUNDS PER CUBIC FOOT	120 POUNDS PER CUBIC FOOT
SELECT BACKFILL MATERIAL	VARIES	VARIES
DESIGN BASIS		
COEFFICIENT OF SLIDING FRICTION	SEE TABLE 2	SEE TABLE 3
NOMINAL BEARING RESISTANCE	SEE TABLE 2	SEE TABLE 3
MINIMUM LENGTH OF SOIL REINFORCEMENT, L	GREATER OF 8-FT OR 0.7H OR AS SPECIFIED ON THE PLANS	NOT APPLICABLE
LIMITING ECCENTRICITY	L/4 (SOIL), 3L/8 (ROCK)	B/3 (SOIL), 9B/20 (ROCK)
RESISTANCE FACTORS		
SLIDING-STATIC	1.0	1.0
SLIDING-COMBINED STATIC+EARTHQUAKE	1.0	1.0
BEARING-STATIC	0.65	0.55
BEARING-COMBINED STATIC+EARTHQUAKE	0.9	0.8
PULLOUT RESISTANCE		
STATIC	0.90	NOT APPLICABLE
COMBINED STATIC/EARTHQUAKE	1.20	NOT APPLICABLE
TENSILE RESISTANCE OF METALLIC REINFORCEMENTS AND CONNECTORS		
STATIC		
-STRIP REINFORCEMENT	0.75	NOT APPLICABLE
-GRID REINFORCEMENT	0.65	
COMBINED STATIC/EARTHQUAKE		
-STRIP REINFORCEMENT	1.00	NOT APPLICABLE
-GRID REINFORCEMENT	0.85	
TENSILE RESISTANCE OF GEOSYNTHETIC REINFORCEMENTS AND CONNECTORS		
STATIC	0.90	NOT APPLICABLE
COMBINED STATIC/EARTHQUAKE	1.20	NOT APPLICABLE

TABLE 1.1
NOTES FOR TABLE 1

NO.	NOTE
1	A MAXIMUM FRICTION ANGLE OF 34 DEGREES CAN BE ASSUMED FOR MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. A HIGHER FRICTION ANGLE THAN 34 DEGREES CAN BE UTILIZED IF THE CONTRACTOR SUBMITS INDEPENDENT TESTING AND IT IS VERIFIED BY TDOT. HOWEVER, IN NO CASE SHALL THE FRICTION ANGLE FOR ANALYSIS EXCEED 40-DEGREES.
1A	SELECT BACKFILL UNIT WEIGHT TO BE DETERMINED BY CONTRACTOR/DESIGNER DEPENDING ON ACTUAL BACKFILL MATERIAL USED. SELECT BACKFILL IS DEFINED AS MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. IN ORDER TO UTILIZE ϕ FOR SELECT BACKFILL DESIGN, SELECT BACKFILL MUST BE PLACED FOR A MINIMUM ZONE FORMED BY A 1:1 SLOPE FROM 2 FEET BEHIND THE BOTTOM OF BACK OF WALL FOOTING OR REINFORCED SOIL ZONE FOR MSE WALLS UP TO FINISHED GRADE.
2	H IS DESIGN HEIGHT OF THE WALL AND IS DEFINED AS THE DIFFERENCE IN ELEVATION BETWEEN THE FINISHED GRADE AT THE TOP OF THE WALL AND THE TOP OF LEVELING PAD OR BOTTOM OF FOOTING FOR NON-MSE WALLS. THE TOP OF THE LEVELING PAD SHALL ALWAYS BE BELOW THE MINIMUM EMBEDMENT REFERENCE LINE AS INDICATED ON THE PLANS FOR THAT LOCATION. THE LENGTH OF THE SOIL REINFORCEMENT, L, IS MEASURED FROM THE BACKFACE OF THE WALL FACING UNIT. IN CASE OF GRID TYPE REINFORCEMENTS THE LENGTH OF THE SOIL REINFORCEMENT IS MEASURED FROM THE BACKFACE OF THE WALL FACING UNIT TO THE LAST FULL TRANSVERSE MEMBER. FOR MODULAR BLOCKFACING UNITS, THE TOTAL LENGTH OF THE REINFORCEMENT, Br AS MEASURED FROM THE FRONT FACE OF THE WALL IS THE LENGTH L AS DEFINED ABOVE PLUS THE WIDTH OF THE MODULAR BLOCK UNIT (THE HORIZONTAL DIMENSION OF THE BLOCK UNIT MEASURED PERPENDICULAR TO THE WALL FACE).
2A	WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL STABILITY REQUIREMENTS. MINIMUM REINFORCEMENT LENGTHS MAY BE REQUIRED FOR GLOBAL STABILITY. THIS REQUIREMENT WILL BE SHOWN IN THE PLANS.
2B	ALL DESIGN SECTION REINFORCEMENT LENGTHS SHALL BE EQUAL.
3	THESE VALUES WILL BE PROVIDED IN TABLES 2 AND/OR 3
4	PASSIVE RESISTANCE SHALL NOT BE CONSIDERED IN EVALUATION OF SLIDING RESISTANCE. NO SHEAR KEYS NOR DOWELS WILL BE PERMITTED.
5	FOR ALL LIMIT STATES, THE DESIGN LOADING FOR THE MSE RETAINING WALL SYSTEM SHALL NOT EXCEED THE FACTORED GENERAL AND LOCAL BEARING RESISTANCE SPECIFIED IN TABLES 2 OR 3.
6	LIVE LOAD DUE TO VEHICULAR TRAFFIC SHALL BE INCLUDED IN THE COMPUTATIONS TO DETERMINE THE MAXIMUM TENSILE FORCES IN REINFORCEMENT LAYERS, BUT SHALL BE NEGLECTED IN THE COMPUTATIONS FOR PULLOUT RESISTANCE.
7	APPLY TO GROSS CROSS-SECTION LESS SACRIFICIAL AREA. FOR SECTIONS WITH HOLES, REDUCE GROSS AREA IN ACCORDANCE WITH ARTICLE 6.8.3 OF AASHTO (2012) AND APPLY TO NET SECTION LESS SACRIFICIAL AREA.
8	APPLIES TO GRID REINFORCEMENTS CONNECTED TO A RIGID FACING ELEMENT, E.G., A CONCRETE PANEL OR BLOCK. FOR GRID REINFORCEMENTS CONNECTED TO A FLEXIBLE FACING MAT OR WHICH ARE CONTINUOUS WITH THE FACING MAT, USE THE RESISTANCE FACTOR FOR STRIP REINFORCEMENTS.

✳ ✳

WALL DESIGN IS TO INCLUDE EXTREME EVENT I STATE LOADS. THE TDOT STRUCTURES DIVISION WILL PROVIDE GROUND MOTION VALUES FOR THE SITE. THIS BOX IS TO BE REMOVED AFTER STRUCTURES DIVISION HAS INSERTED THIS (Ax) VALUE.

WALL FASCIA REQUIREMENTS

THE ACCEPTABLE WALL TYPES LISTED ARE FOR GEOTECHNICAL RECOMMENDATIONS ONLY. AESTHETIC REQUIREMENTS MAY NECESSIATE A REEVALUATION OF THE ACCEPTABLE WALL TYPES. FASCIA REQUIREMENTS SHALL BE DETERMINED BY THE TDOT STRUCTURES DIVISION. THIS BOX IS TO BE REMOVED AFTER TDOT STRUCTURES DIVISION HAS REVISED THE ACCEPTABLE WALL TYPES TO SATISFY THE FASCIA REQUIREMENTS.

TABLE 2-FOUNDATION PARAMETERS AND REQUIREMENTS FOR MSE WALLS

STATION LIMITS	FOUNDATION (REINFORCED ZONE) BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
125+50 (BOW) TO 128+60 (EOW)	UNDERCUT 5 FEET BELOW PROPOSED FOOTING ELEVATION AND REPLACE WITH GRADED SOLID ROCK	9000	0.60

TABLE 3-FOUNDATION PARAMETERS AND REQUIREMENTS FOR OTHER GRAVITY OR SEMI-GRAVITY WALLS

STATION LIMITS	FOUNDATION BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
125+50 (BOW) TO 128+60 (EOW)	UNDERCUT 5 FEET BELOW PROPOSED FOOTING ELEVATION AND REPLACE WITH GRADED SOLID ROCK. SELECT GRANULAR MATERIAL (AS DEFINED UNDER NOTE 1A OF TABLE 1.1) MAY BE USED IN LIEU OF GRADED SOLID ROCK.	9000	0.60

OTHER DESIGN REQUIREMENTS

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALLS. DETAILS OF THIS DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS.

IF A CONCRETE CANTILEVER WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL STEM WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS
GEOTECHNICAL DESIGN NOTES AND REQUIREMENTS

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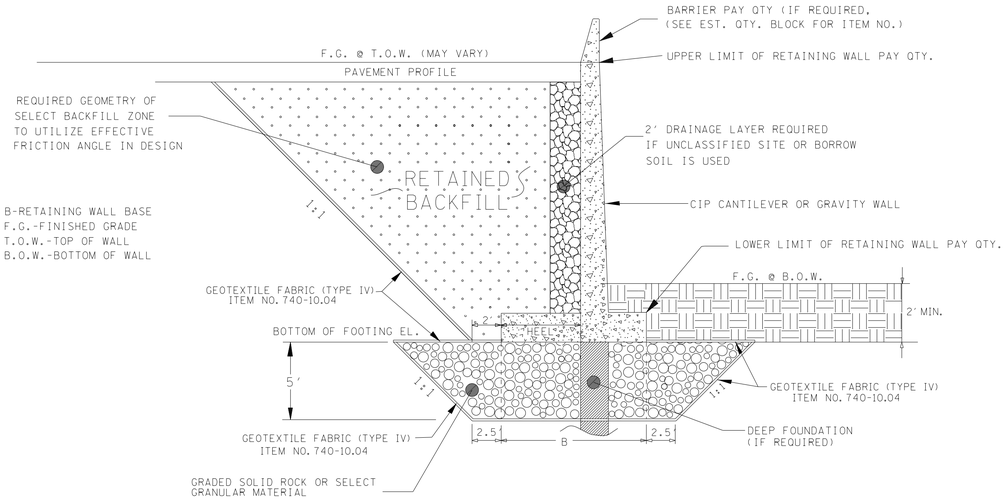
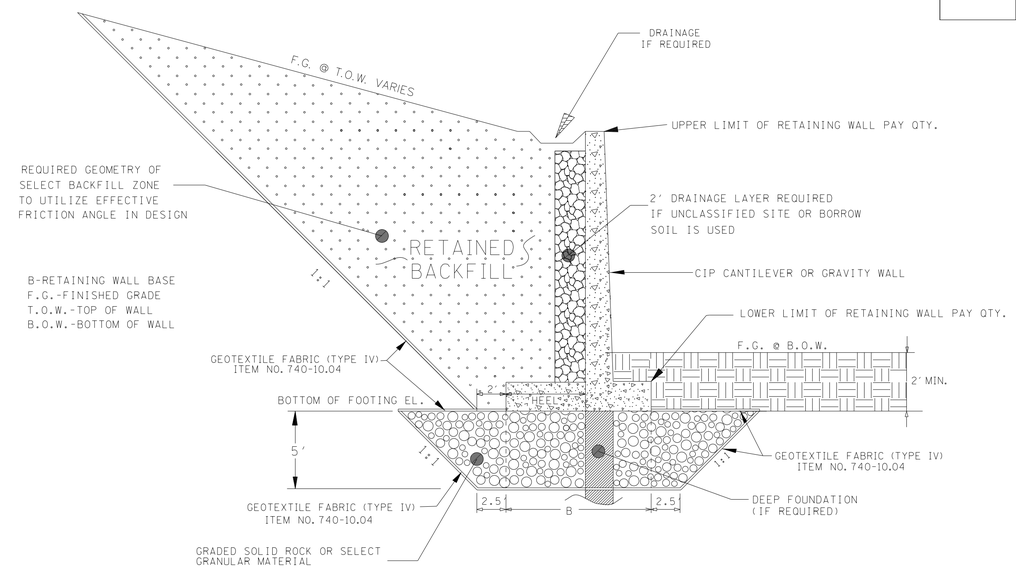
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.
VER. 09/25/2015

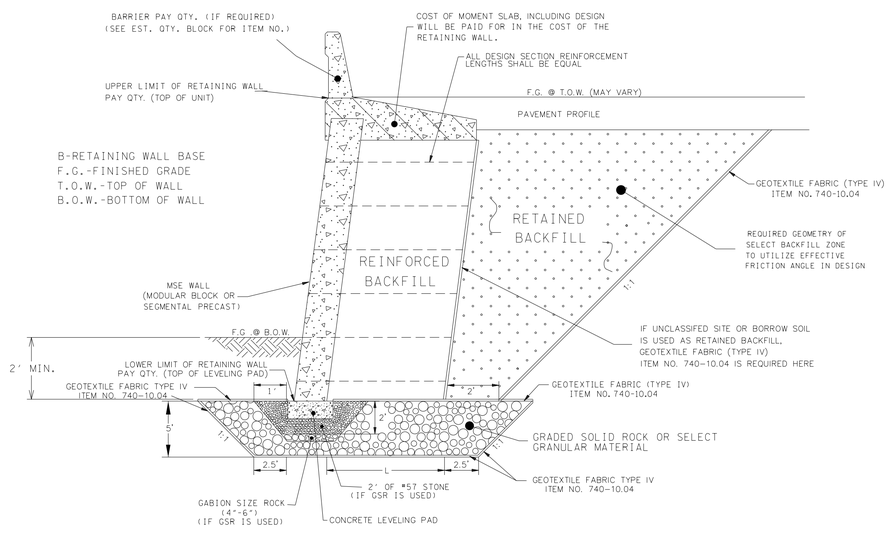
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AN



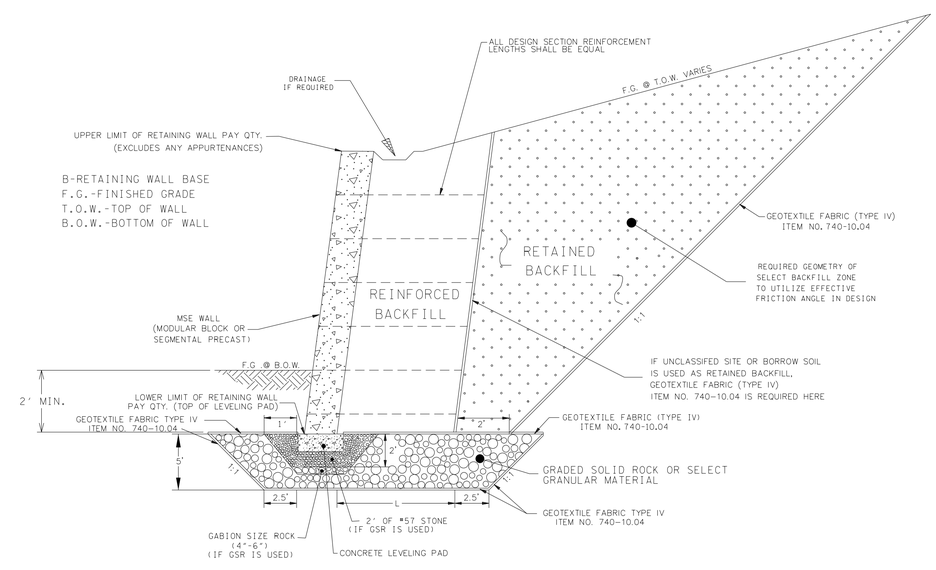
TYPICAL DETAIL
CIP CONCRETE CANTILEVER OR GRAVITY WALL
BARRIER REQUIRED



TYPICAL DETAIL
CIP CONCRETE CANTILEVER OR GRAVITY WALL



TYPICAL DETAIL
MSE WALL – MODULAR BLOCK\SEGMENTAL PRECAST
BARRIER REQUIRED



TYPICAL DETAIL
MSE WALL – MODULAR BLOCK\SEGMENTAL PRECAST

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAIL

CIP CANTILEVER WALL
GRAVITY WALL
MSE MODULAR BLOCK
MSE SEGMENTAL PRECAST

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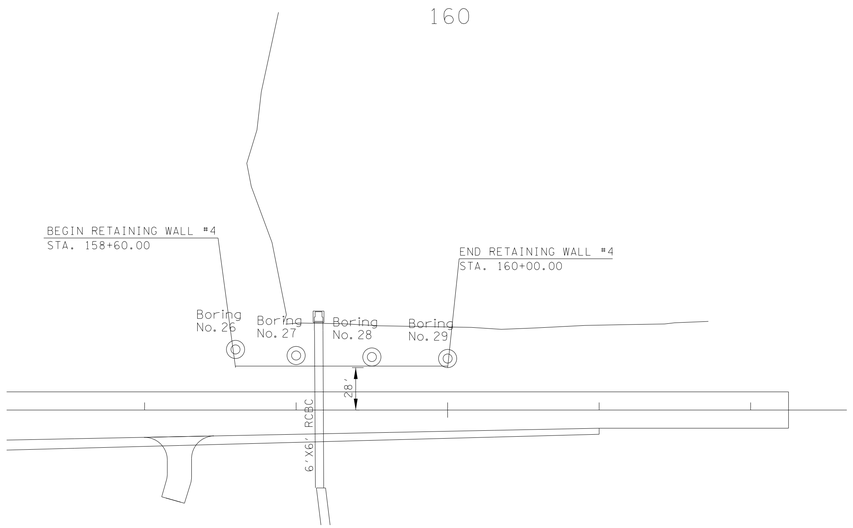
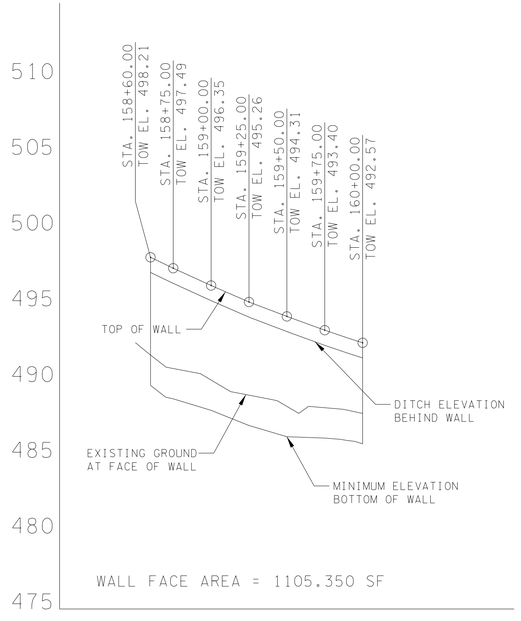
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2A0

WALL PLAN VIEW (1" = 50')

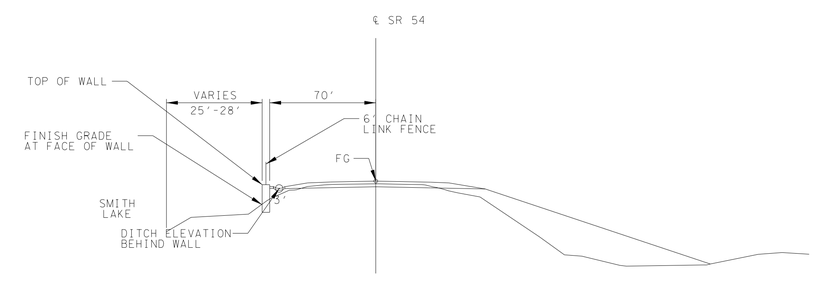


WALL ELEVATION VIEW



STAKING POINTS FOR DRILLING

NO.	STATION	CENTERLINE REFERENCE	N	E	EX. GROUND ELEVATION
26	158+60.00	28' LT.	740221.8168	1282272.91	486.80
27	159+00.00	28' LT.	740261.5731	1282266.957	486.00
28	159+50.00	28' LT.	740310.2856	1282255.639	485.80
29	160+00.00	28' LT.	740358.9981	1282244.321	485.50



TYPICAL SECTION STA. 159+75

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #4
SR 54
STA. 158+60 LT. TO STA. 160+00 LT.

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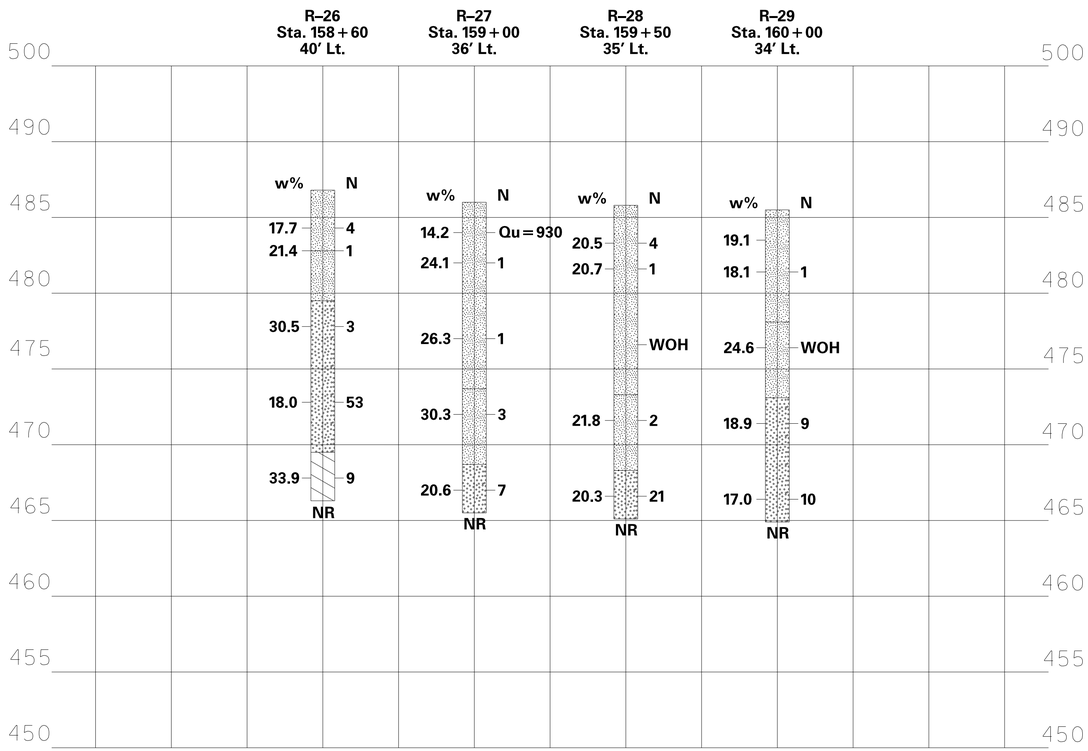
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AP



PROFILE
SCALE: 1" = 50′ HORIZ.
1" = 5′ VERT.

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1,A-2 A-3	A-4,A-5 A-6,A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL & SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS		SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS

ADDITIONAL ROCK SYMBOLS

SYMBOL	SHALE	LIMESTONE	DOLOMITE	WEATHERED SHALE	EXISTING ROADWAY FILL	RANDOM BACKFILL	WEATHERED LIMESTONE	GRADED SOLID ROCK

○	Rockline Soundings	RQD	Rock Quality Designation
◔	Disturbed Sample Boring	REC	% Core Recovered
◎	Undisturbed Sample Boring	Qu (psf)	Unconfined Compressive Strength
⊙	Undisturbed Sample Boring & Rock Core	Qu (ksf)	Unconfined Compressive Strength (Rock Core)
●	Rock Core	UU (psf)	Unconsolidated Undrained Triaxial Strength
▼ (Date)	Water Elevation	w%	Moisture Content
✳	Liquifaction is Probable at These Locations	R	Refusal
N	Penetration Resistance	NR	Refusal Not Encountered

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONCEPTUAL DRAWING
RETAINING WALL #4
SR 54
STA. 158+60 LT. TO STA. 160+00 LT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AQ

ACCEPTABLE WALL TYPES

THE RETAINING WALL(S) SHALL BE ONE OF THE WALL TYPES AS LISTED BELOW OR ON FORTHCOMING "RETAINING WALL DETAILS" SHEET(S). FOR RETAINING WALL SYSTEMS LISTED AS BIN WALL, CRIB WALL, PRECAST GRAVITY WALL, MSE (EITHER SEGMENTAL PANEL OR MODULAR BLOCK) AND GROUND ANCHOR WALL; THE SPECIFIC WALL SYSTEM SUPPLIER/INSTALLER SHALL BE ONE OF THOSE LISTED AS PRE-APPROVED IN QPL 38.

CAST-IN-PLACE CONCRETE GRAVITY WALL
CAST-IN-PLACE CONCRETE CANTILEVER WALL
MECHANICALLY STABILIZED EARTH (MSE) WALL - SEGMENTAL PRECAST
MECHANICALLY STABILIZED EARTH (MSE) WALL - MODULAR BLOCK

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALLS SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 - EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS AND HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN 1) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS AND 2) PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS. NOTE TO GEOTECHNICAL SHEET PREPARER-REFER TO ANY OTHER DESIGN MANUAL(S) THAT WILL GOVERN DESIGN SUCH AS ANCHOR WALL OR SOIL NAIL MANUAL.

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN QPL 38, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (I.E. REINFORCEMENT CONNECTION DEVICES, SPECIFIC MANUFACTURER AND PROPERTIES OF GEOGRID) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT, IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE WALL CONCEPT SHEET AND RELATED RETAINING WALL SHEETS TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS AND PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS.
- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY-GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. FOR MSE WALLS, THE WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL REQUIREMENTS. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.
- UNLESS OTHERWISE STATED, THE WALL DESIGNER CAN ASSUME THAT MINIMUM GLOBAL STABILITY AND SETTLEMENT CRITERIA IS ACHIEVED WITH A WALL DESIGN MEETING OTHER MINIMUM EXTERNAL STABILITY REQUIREMENTS AND ASSUMING WALL FOUNDATION CONDITIONS ARE MET. WHILE THE WALL DESIGNER'S DESIGN MUST DEMONSTRATE COMPLIANCE WITH EXTERNAL STABILITY REQUIREMENTS AS DISCUSSED ABOVE, THE WALL DESIGNER MAY PROVIDE CERTIFICATION (BY SIGNING AND STAMPING BY PROFESSIONAL ENGINEER REGISTERED IN STATE OF TENNESSEE) OF THE WALLS PLANS AND CALCULATIONS "FOR INTERNAL STABILITY ONLY".
- LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND EXTREME EVENT II AS GIVEN IN TABLE 4-1 OF PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS SHALL BE EVALUATED FOR MSE WALLS. LOAD COMBINATIONS FOR OTHER WALL TYPES SHALL BE AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 AND INTERIMS (AND/OR OTHER PERTINENT DESIGN MANUALS).

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM OF A 1:1 SLOPE IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	MSE WALLS	CIP WALLS
DESIGN LIFE	75 YEARS	75 YEARS
SEISMIC ACCELERATION COEFFICIENT (As)	✳	✳
EFFECTIVE (DRAINED) FRICTION ANGLE		
RETAINED BACKFILL-UNCLASSIFIED SITE OR BORROW SOIL	30°	30°
RETAINED BACKFILL-SELECT BACKFILL	34° TO MAX 40°	34° TO MAX 40°
REINFORCED BACKFILL	34° TO MAX 40°	NOT APPLICABLE
UNIT WEIGHT		
UNCLASSIFIED SITE OR BORROW SOIL	120 POUNDS PER CUBIC FOOT	120 POUNDS PER CUBIC FOOT
SELECT BACKFILL MATERIAL	VARIES	VARIES
DESIGN BASIS		
COEFFICIENT OF SLIDING FRICTION	SEE TABLE 2	SEE TABLE 3
NOMINAL BEARING RESISTANCE	SEE TABLE 2	SEE TABLE 3
MINIMUM LENGTH OF SOIL REINFORCEMENT, L	GREATER OF 8-FT OR 0.7H OR AS SPECIFIED ON THE PLANS	NOT APPLICABLE
LIMITING ECCENTRICITY	L/4 (SOIL), 3L/8 (ROCK)	B/3 (SOIL), 9B/20 (ROCK)
RESISTANCE FACTORS		
SLIDING-STATIC	1.0	1.0
SLIDING-COMBINED STATIC+EARTHQUAKE	1.0	1.0
BEARING-STATIC	0.65	0.55
BEARING-COMBINED STATIC+EARTHQUAKE	0.9	0.8
PULLOUT RESISTANCE		
STATIC	0.90	NOT APPLICABLE
COMBINED STATIC/EARTHQUAKE	1.20	NOT APPLICABLE
TENSILE RESISTANCE OF METALLIC REINFORCEMENTS AND CONNECTORS		
STATIC		
-STRIP REINFORCEMENT	0.75	NOT APPLICABLE
-GRID REINFORCEMENT	0.65	
COMBINED STATIC/EARTHQUAKE		
-STRIP REINFORCEMENT	1.00	NOT APPLICABLE
-GRID REINFORCEMENT	0.85	
TENSILE RESISTANCE OF GEOSYNTHETIC REINFORCEMENTS AND CONNECTORS		
STATIC	0.90	NOT APPLICABLE
COMBINED STATIC/EARTHQUAKE	1.20	NOT APPLICABLE

TABLE 1.1
NOTES FOR TABLE 1

NO.	NOTE
1	A MAXIMUM FRICTION ANGLE OF 34 DEGREES CAN BE ASSUMED FOR MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. A HIGHER FRICTION ANGLE THAN 34 DEGREES CAN BE UTILIZED IF THE CONTRACTOR SUBMITS INDEPENDENT TESTING AND IT IS VERIFIED BY TDOT. HOWEVER, IN NO CASE SHALL THE FRICTION ANGLE FOR ANALYSIS EXCEED 40-DEGREES.
1A	SELECT BACKFILL UNIT WEIGHT TO BE DETERMINED BY CONTRACTOR/DESIGNER DEPENDING ON ACTUAL BACKFILL MATERIAL USED. SELECT BACKFILL IS DEFINED AS MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1. MATERIALS OF TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. IN ORDER TO UTILIZE ϕ FOR SELECT BACKFILL DESIGN, SELECT BACKFILL MUST BE PLACED FOR A MINIMUM ZONE FORMED BY A 1:1 SLOPE FROM 2 FEET BEHIND THE BOTTOM OF BACK OF WALL FOOTING OR REINFORCED SOIL ZONE FOR MSE WALLS UP TO FINISHED GRADE.
2	H IS DESIGN HEIGHT OF THE WALL AND IS DEFINED AS THE DIFFERENCE IN ELEVATION BETWEEN THE FINISHED GRADE AT THE TOP OF THE WALL AND THE TOP OF LEVELING PAD OR BOTTOM OF FOOTING FOR NON-MSE WALLS. THE TOP OF THE LEVELING PAD SHALL ALWAYS BE BELOW THE MINIMUM EMBEDMENT REFERENCE LINE AS INDICATED ON THE PLANS FOR THAT LOCATION. THE LENGTH OF THE SOIL REINFORCEMENT, L, IS MEASURED FROM THE BACKFACE OF THE WALL FACING UNIT. IN CASE OF GRID TYPE REINFORCEMENTS THE LENGTH OF THE SOIL REINFORCEMENT IS MEASURED FROM THE BACKFACE OF THE WALL FACING UNIT TO THE LAST FULL TRANSVERSE MEMBER. FOR MODULAR BLOCKFACING UNITS, THE TOTAL LENGTH OF THE REINFORCEMENT, Br AS MEASURED FROM THE FRONT FACE OF THE WALL IS THE LENGTH L AS DEFINED ABOVE PLUS THE WIDTH OF THE MODULAR BLOCK UNIT (THE HORIZONTAL DIMENSION OF THE BLOCK UNIT MEASURED PERPENDICULAR TO THE WALL FACE).
2A	WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL STABILITY REQUIREMENTS. MINIMUM REINFORCEMENT LENGTHS MAY BE REQUIRED FOR GLOBAL STABILITY. THIS REQUIREMENT WILL BE SHOWN IN THE PLANS.
2B	ALL DESIGN SECTION REINFORCEMENT LENGTHS SHALL BE EQUAL.
3	THESE VALUES WILL BE PROVIDED IN TABLES 2 AND/OR 3
4	PASSIVE RESISTANCE SHALL NOT BE CONSIDERED IN EVALUATION OF SLIDING RESISTANCE. NO SHEAR KEYS NOR DOWELS WILL BE PERMITTED.
5	FOR ALL LIMIT STATES, THE DESIGN LOADING FOR THE MSE RETAINING WALL SYSTEM SHALL NOT EXCEED THE FACTORED GENERAL AND LOCAL BEARING RESISTANCE SPECIFIED IN TABLES 2 OR 3.
6	LIVE LOAD DUE TO VEHICULAR TRAFFIC SHALL BE INCLUDED IN THE COMPUTATIONS TO DETERMINE THE MAXIMUM TENSILE FORCES IN REINFORCEMENT LAYERS, BUT SHALL BE NEGLECTED IN THE COMPUTATIONS FOR PULLOUT RESISTANCE.
7	APPLY TO GROSS CROSS-SECTION LESS SACRIFICIAL AREA. FOR SECTIONS WITH HOLES, REDUCE GROSS AREA IN ACCORDANCE WITH ARTICLE 6.8.3 OF AASHTO (2012) AND APPLY TO NET SECTION LESS SACRIFICIAL AREA.
8	APPLIES TO GRID REINFORCEMENTS CONNECTED TO A RIGID FACING ELEMENT, E.G., A CONCRETE PANEL OR BLOCK. FOR GRID REINFORCEMENTS CONNECTED TO A FLEXIBLE FACING MAT OR WHICH ARE CONTINUOUS WITH THE FACING MAT, USE THE RESISTANCE FACTOR FOR STRIP REINFORCEMENTS.

✳ ✳

WALL DESIGN IS TO INCLUDE EXTREME EVENT I STATE LOADS. THE TDOT STRUCTURES DIVISION WILL PROVIDE GROUND MOTION VALUES FOR THE SITE. THIS BOX IS TO BE REMOVED AFTER STRUCTURES DIVISION HAS INSERTED THIS (Ax) VALUE.

WALL FASCIA REQUIREMENTS

THE ACCEPTABLE WALL TYPES LISTED ARE FOR GEOTECHNICAL RECOMMENDATIONS ONLY. AESTHETIC REQUIREMENTS MAY NECESSIATE A REEVALUATION OF THE ACCEPTABLE WALL TYPES. FASCIA REQUIREMENTS SHALL BE DETERMINED BY THE TDOT STRUCTURES DIVISION. THIS BOX IS TO BE REMOVED AFTER TDOT STRUCTURES DIVISION HAS REVISED THE ACCEPTABLE WALL TYPES TO SATISFY THE FASCIA REQUIREMENTS.

TABLE 2-FOUNDATION PARAMETERS AND REQUIREMENTS FOR MSE WALLS

STATION LIMITS	FOUNDATION (REINFORCED ZONE) BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
158+60 (BOW) TO 160+00 (EOW)	UNDERCUT 1 FOOT BELOW PROPOSED FOOTING ELEVATION AND REPLACE WITH SELECT GRANULAR MATERIAL (AS DEFINED UNDER NOTE 1A TABLE 1.1)	4500	0.60

TABLE 3-FOUNDATION PARAMETERS AND REQUIREMENTS FOR OTHER GRAVITY OR SEMI-GRAVITY WALLS

STATION LIMITS	FOUNDATION BEARING CONDITION REQUIREMENT	NOMINAL BEARING RESISTANCE (psf)	COEFFICIENT OF SLIDING FRICTION
158+60 (BOW) TO 160+00 (EOW)	UNDERCUT 1 FOOT BELOW PROPOSED FOOTING ELEVATION AND REPLACE WITH SELECT GRANULAR MATERIAL (AS DEFINED UNDER NOTE 1A TABLE 1.1)	4500	0.60

OTHER DESIGN REQUIREMENTS

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALLS. DETAILS OF THIS DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS.

IF A CONCRETE CANTILEVER WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL STEM WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS
GEOTECHNICAL DESIGN NOTES AND REQUIREMENTS

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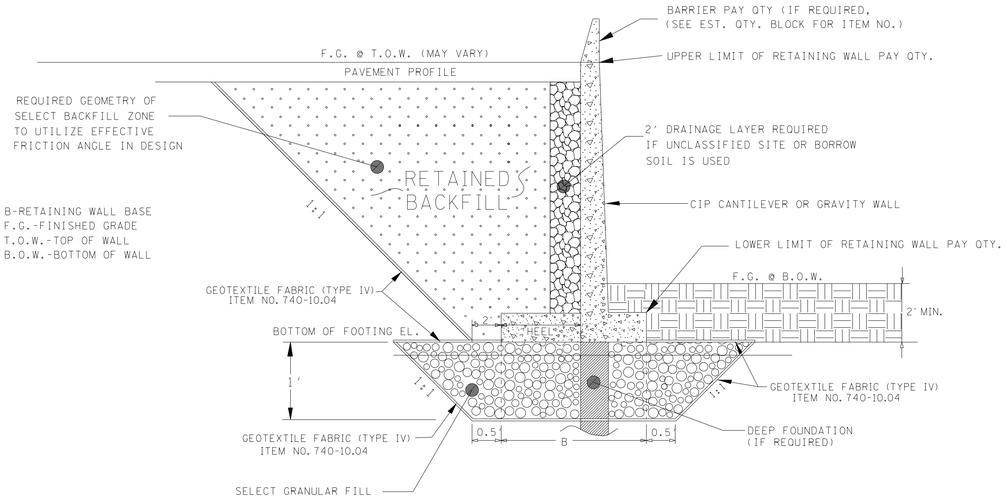
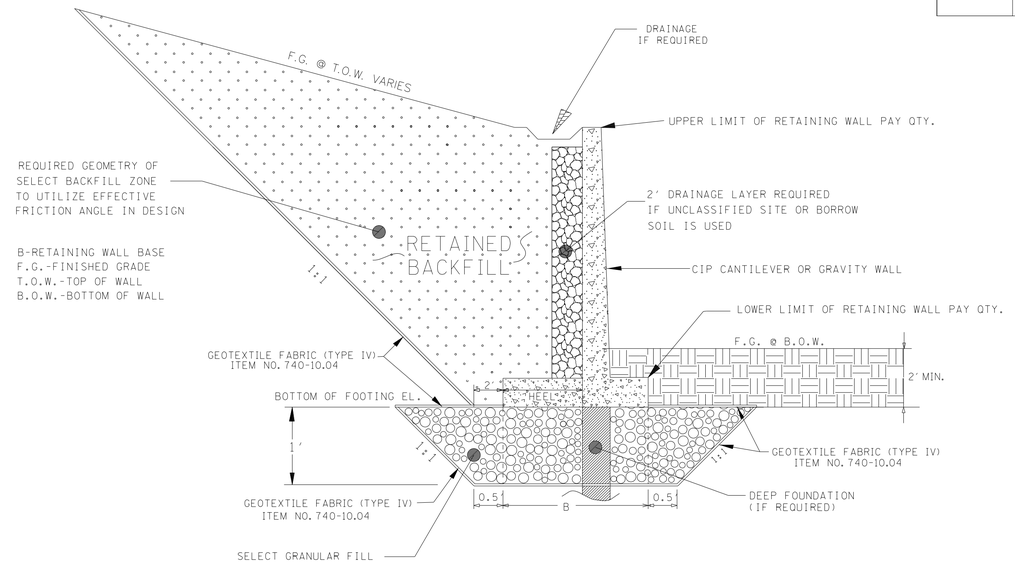
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.
VER. 09/25/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	2AR

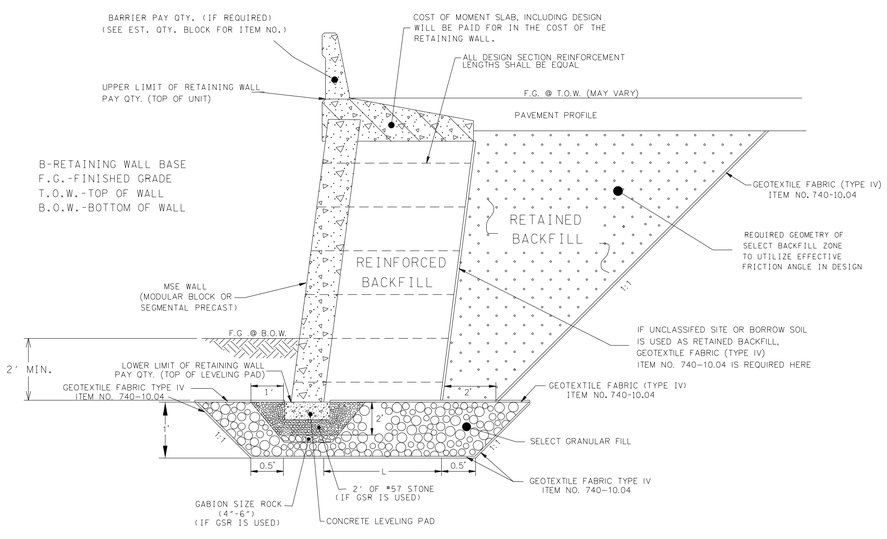


TYPICAL DETAIL
CIP CONCRETE CANTILEVER OR GRAVITY WALL
BARRIER REQUIRED

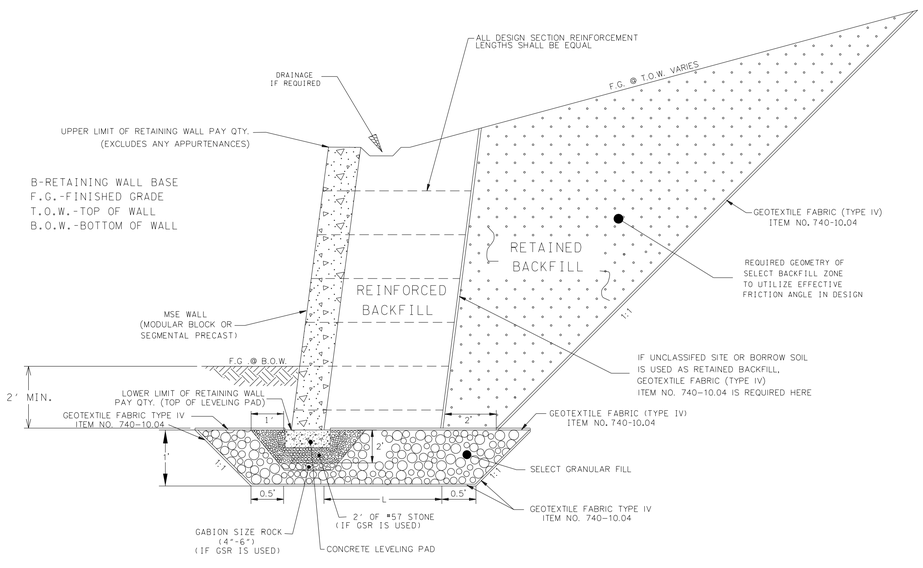


TYPICAL DETAIL
CIP CONCRETE CANTILEVER OR GRAVITY WALL

CONSTRUCTABILITY
FIELD
REVIEW



TYPICAL DETAIL
MSE WALL – MODULAR BLOCK\SEGMENTAL PRECAST
BARRIER REQUIRED



TYPICAL DETAIL
MSE WALL – MODULAR BLOCK\SEGMENTAL PRECAST

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAIL

CIP CANTILEVER WALL
GRAVITY WALL
MSE MODULAR BLOCK
MSE SEGMENTAL PRECAST

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	3
CONST.	2017	NH-54(26)	3

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) 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.

(8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(9) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(10) EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

UTILITY OWNERS

WATER

NORTH WEST HENRY UTILITY
905 SPRING HILL CREEK RD.
PARIS, TN 38242
PHONE : 731-644-7911
CONTACT: DALE O'DANIEL

BOARD OF PUBLIC UTILITIES
117 E WASHINGTON STREET
P.O. BOX 460
PARIS, TN 38242
PHONE: 731-642-1322
CONTACT: JOHN ETHERIDGE

SANITARY SEWERS

BOARD OF PUBLIC UTILITIES
117 E WASHINGTON STREET
P.O. BOX 460
PARIS, TN 38242
PHONE: 731-642-1322
CONTACT: JOHN ETHERIDGE

POWER

BOARD OF PUBLIC UTILITIES
117 E WASHINGTON STREET
P.O. BOX 460
PARIS, TN 38242
PHONE: 731-642-1322
CONTACT: JOHN ETHERIDGE

GAS

PARIS HENRY COUNTY NATURAL GAS
215 WEST WOOD ST.
PARIS, TN 38242
PHONE: 731-642-5635
CONTACT: MANAGER GLENN JACKSON
MANAGER TAE EATON

TELEPHONE

AT&T
315 EAST COLLEGE STREET
JACKSON, TN 38301
PHONE: 731-423-5037
CONTACT: DON ROE

CABLE

CHARTER COMMUNICATIONS (MID-SOUTH REGION)
2177 NORTH ROYAL STREET
JACKSON, TN 38305
PHONE: 731-343-5223
CONTACT: MAX RENFRO

CONSTRUCTABILITY
FIELD
REVIEW

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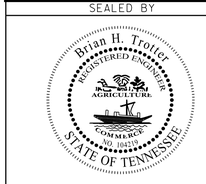

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. NOTES
UTILITY NOTES
UTILITY
OWNERS

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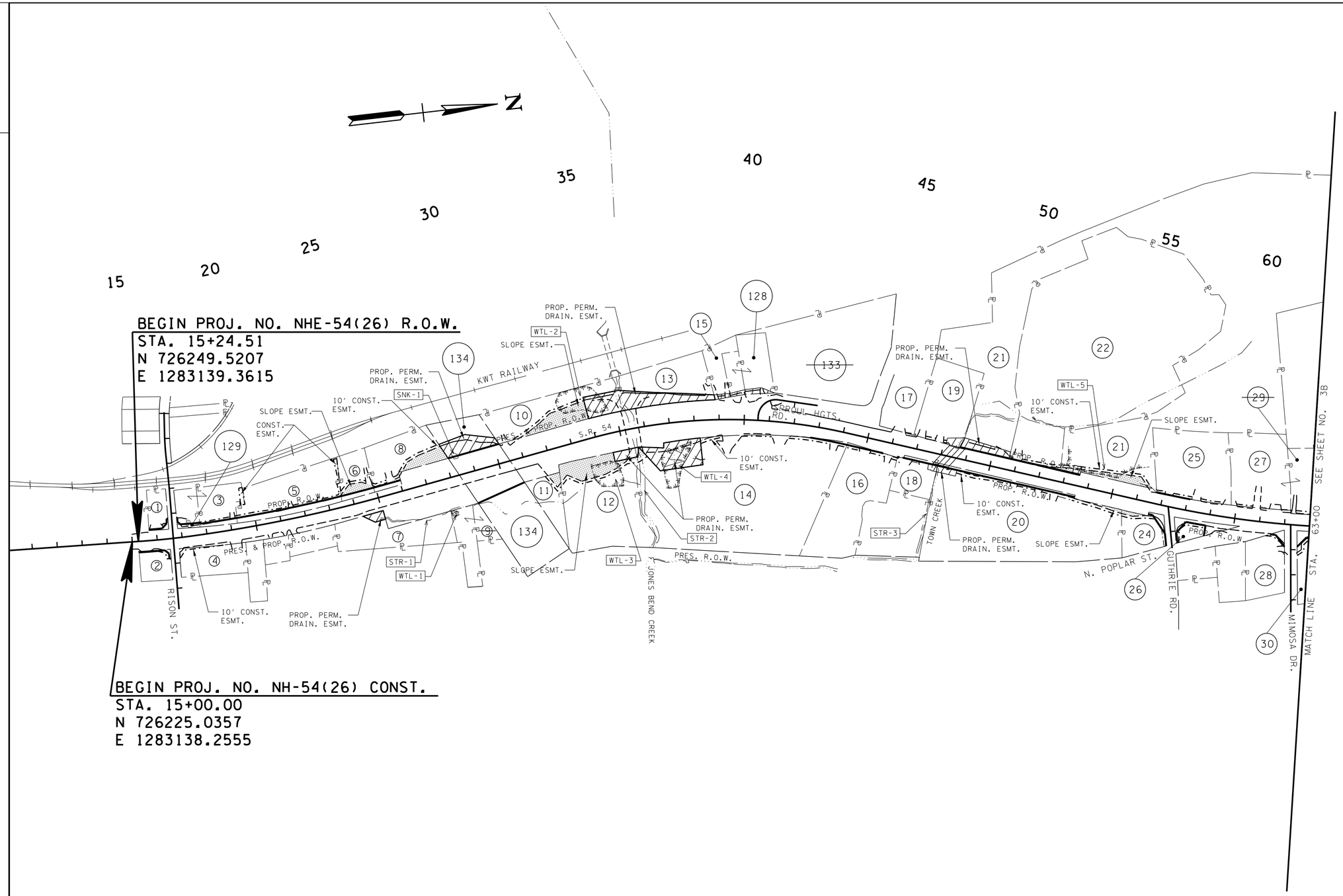
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	3A
CONST.	2017	NH-54(26)	3A

REV. 06-22-12: ADDED TRACT 134 & REMOVED ABANDONED RAILROAD LABEL; CHANGED PROP. R.O.W. ON TRACTS 1, 2, 3 & 129; REMOVED PROP. R.O.W. TRACTS 29 & 133; ADDED Z BAR TO TRACT 27 & LINED THRU TRACT 29; REVISED CONST. ESMT. TRACTS 1, 2, 3, 14, 16, 18, 19, 20, 27 & 28; REVISED SLOPE ESMT. TRACTS 18 & 20; ADDED PERM. DRAIN. ESMT. TRACT 18; REVISED PERM. DRAIN. ESMT. TRACT 20

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON THE WEST SIDE OF TRACTS 1, 3, 6, 8, 10, 13, 15 & 133; REVISED CONST. ESMT. TRACTS 18 & 25

REV. 08-30-12: CORRECTED PRES. R.O.W. AT RAILROAD CROSSING TO SHOW RAILROAD R.O.W. ACROSS ROADWAY AND PROP. R.O.W. CROSSING AT RAILROAD (TRACT 134); CORRECTED NAME OF RAILROAD

REV. 06-03-13: REMOVED LINE THRU TRACT 128, REMOVED CONST. ESMT. FROM TRACT 15, ADDED PERM. DRAIN. ESMT. TO TRACTS 15 & 128

REV. 09-10-13: ADDED CONST. ESMT. TO TRACTS 5 & 6 FOR BUILDING REMOVAL; REMOVED SLOPE ESMT., REVISED CONST. ESMT. & DRAINAGE ESMT. TRACT 18

REV. 10-03-13: REVISED SHEET

REV. 05-20-14: REVISED EXIST. RAILROAD R.O.W., REMOVED PROP. R.O.W. AT RAILROAD CROSSING, REMOVED PERM. DRAIN. ESMT. ON TRACT 134

REV. 06-04-15: REVISED EXIST. RAILROAD R.O.W., ADDED PROP. R.O.W. AT RAILROAD CROSSING, ADDED PERM. DRAIN. ESMT. ON TRACT 134

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104231
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

BEGIN PROJECT TO STA.63+00

SCALE: 1"=200'

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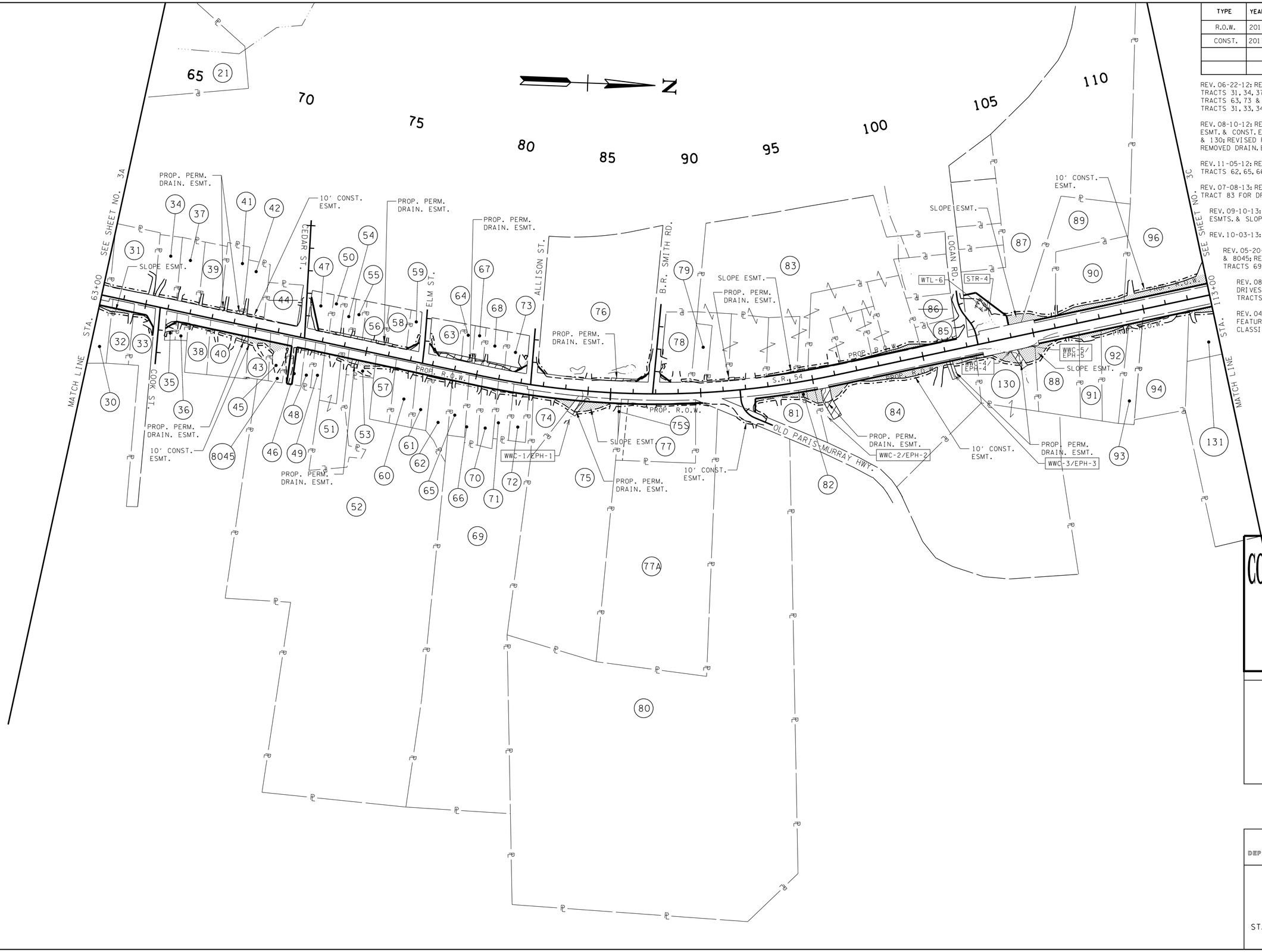
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	3B
CONST.	2017	NH-54(26)	3B

REV. 06-22-12: REMOVED PROP. R.O.W. FROM TRACTS 31, 34, 37 & 39; REVISED PROP. R.O.W. TRACTS 63, 73 & 81; REVISED CONST. ESMT. TRACTS 31, 33, 34, 37, 39, 78, 83 & 84

REV. 08-10-12: REVISED DRAIN. ESMT., SLOPE ESMT. & CONST. ESMT. TRACTS 75, 76, 84 & 130; REVISED PROP. DRAIN. ESMT. TRACT 53; REMOVED DRAIN. ESMT. TRACT 85

REV. 11-05-12: REVISED PROPERTY LINES AT TRACTS 62, 65, 66 & 69-72

REV. 07-08-13: REVISED SLOPE ESMTS. ON TRACT 83 FOR DRIVEWAY CHANGES

REV. 09-10-13: REVISED SLOPE & CONST. ESMTS. & SLOPE LINE TRACT 77

REV. 10-03-13: REVISED SHEET

REV. 05-20-14: ADDED TRACTS 75S, 77A & 8045; REVISED PROPERTY LINES AT TRACTS 69, 75, 77 & 80

REV. 08-01-14: REVISED SLOPES FOR DRIVES & ADJUSTED CONST. ESMT. FOR TRACTS 65 & 66

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104134
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.63+00 TO STA. 113+00

SCALE: 1"=200'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	3C
CONST.	2017	NH-54(26)	3C

REV. 06-22-12: COMBINED TRACTS 122 & 132, LINED THRU TRACT 132; REVISED CONST. ESMT. TRACTS 115 & 119

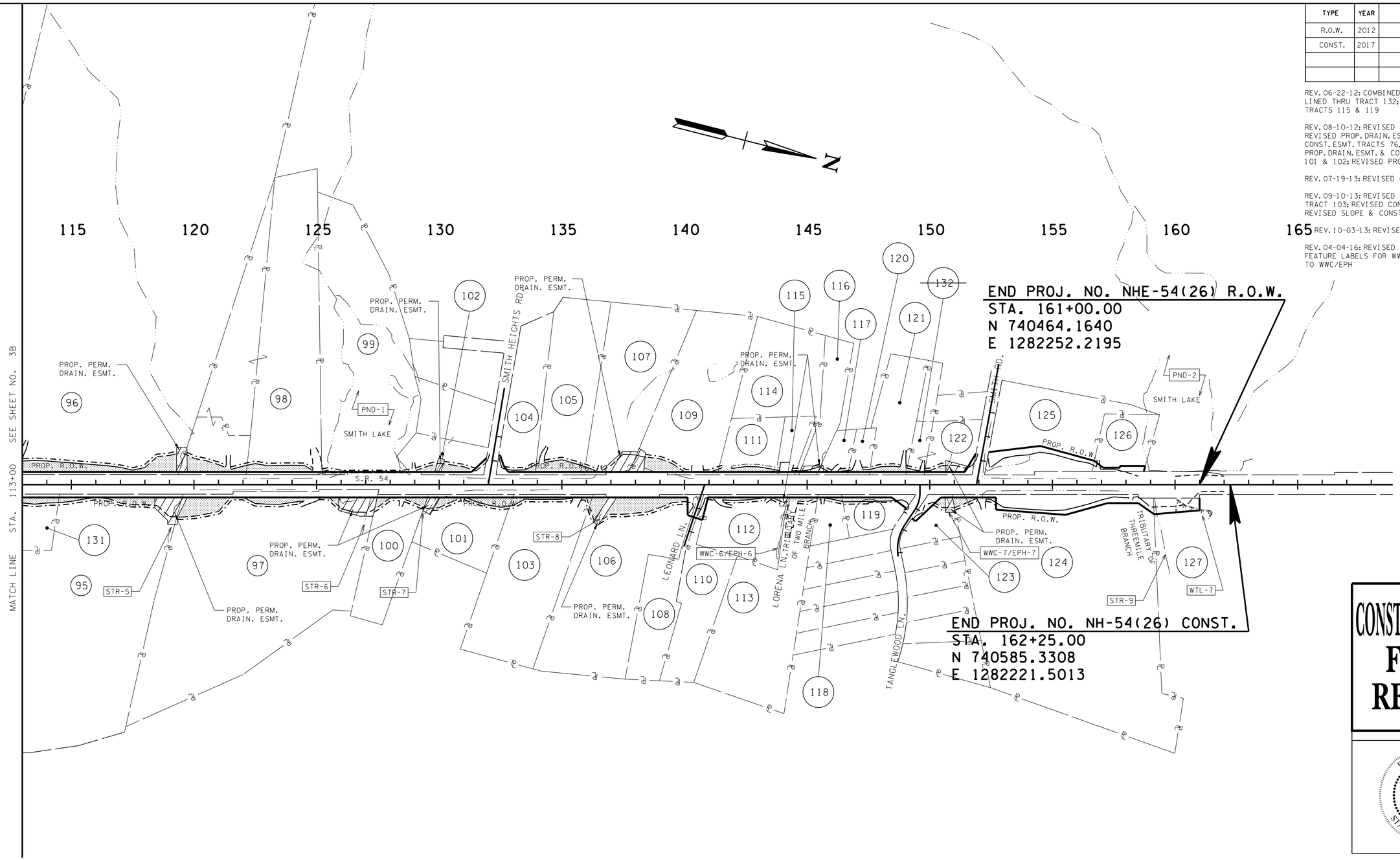
REV. 08-10-12: REVISED CONST. ESMT. TRACT 119; REVISED PROP. DRAIN. ESMT., SLOPE ESMT. & CONST. ESMT. TRACTS 76, 130 & 109; REVISED PROP. DRAIN. ESMT. & CONST. ESMT. TRACTS 97, 101 & 102; REVISED PROP. DRAIN. ESMT. TRACT 95

REV. 07-19-13: REVISED CONST. ESMT. TRACT 111

REV. 09-10-13: REVISED SLOPE & CONST. ESMT. TRACT 103; REVISED CONST. ESMT. TRACT 104; REVISED SLOPE & CONST. ESMT. TRACT 106

REV. 10-03-13: REVISED SHEET

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 113+00 TO END PROJECT

SCALE: 1"=200'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	3D
CONST.	2017	NH-54(26)	3D

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.
1	PRINT ADVERTISING, INC.	95P	G001.00	RB 98	535	0.290		0.290	796 S.F.		796 S.F.	0.272				134
2	COX OIL COMPANY, INC.	95P	G020.00	140	276		0.352	0.352		791 S.F.	791 S.F.		0.334		34	493
3	PARIS BUILDING SUPPLY, INC.	95P 95P	B004.00 B006.00	RB 126	815	0.908		0.908	3145 S.F.		3145 S.F.	0.836				2128
4	KEN DOSTER	95P	C020.00	RB 13	620		0.714	0.714					0.714		186	906
5	GEORGE E. TOWNLEY	95P 95P	B003.00 B003.01	203 203 176 191	77 79 782 770	1.492		1.492	0.234		0.234	1.258			43	0.101 AC
6	JAMES CHASEN WITHERSPOON	95P	B002.00	RB 307	835	0.518		0.518	2664 S.F.		2664 S.F.	0.457			3523	1254
7	BARTON F. ROBISON AND WF, REGINA ROBISON	95P	C012.02	157	1101		1.237	1.237					1.237	2265		
8	EVERETTE W. McFADDEN JR. LIVING TRUST	95P	B001.00	231	386	1.071		1.071	2049 S.F.		2049 S.F.	1.024			0.186 AC	2800
~~9~~	~~KENNETH L. DOSTER & WF, CAROL E. DOSTER~~	~~95I~~ ~~95I~~	~~C001.00~~ ~~C005.00~~	~~203~~	~~565~~		~~0.891~~	~~0.891~~					~~0.891~~			
10	CHARLES WILLIAM WADE	95	088.00	245	127	1.644		1.644				1.644		0.282 AC	0.316 AC	3175
11	KENNETH LEE DOSTER & WF, CAROL ELIZABETH DOSTER	95I	A008.00	225	524		0.507	0.507					0.507		1671	918
12	JOSEPH ROWLETT & WF, TERESA ROWLETT	95I	A007.00	RB 116	828		2.692	2.692					2.692	3654	0.403 AC	3888
13	WALTER G. RITCHIE OR WF, BOBBIE J. RITCHIE	95	087.00	116	828	1.381		1.381				1.381		0.391 AC		
14	COMMUNITY ACTION NETWORK, INC.	95I	A005.00	RB 297	573		7.569	7.569		719 S.F.	719 S.F.		7.552	0.500 AC	409	3755
15	EN LIN	95	086.00	RB 394	544	0.420		0.420				0.420		1070		
16	VICKIE G. ROWLETT, ET AL	95I	A004.00	RB 351	374		2.110	2.110		703 S.F.	703 S.F.		2.094		259	1318
17	JAMES ROBERT COREY JAMES & WF, ANGELA M. JAMES	95	079.00	RB 272	461	0.776		0.776				0.776				111
18	BETTY L. SMITH	95I	A004.02	RB 331	229		0.559	0.559		1462 S.F.	1462 S.F.		0.525	865		237
19	JAMES ROBERT COREY JAMES & WF, ANGELA M. JAMES	95H	A020.00	RB 248	279	1.446		1.446				1.446		2077	190	594
20	PARIS BUILDING SUPPLY, INC.	95H 95H	A003.00 A004.01	197 202	434 610		6.839	6.839		0.116	0.116		6.723	1983	1309	0.129 AC
21	VOLUNTEER LAND CORPORATION	95	077.01	123 120	232 358	20.958		20.958	834 S.F.		834 S.F.	20.939		0.172 AC	0.166 AC	3535
22	GLAZE INVESTMENTS V LLC	95	077.00	RB 147	380	11.563		11.563	739 S.F.		739 S.F.	11.546			668	1645
23	NOT USED															
24	JOHN P. SNOW AND SANDRA SINGLEY	95I	A002.00	RB 263	92		0.618	0.618		2115 S.F.	2115 S.F.		0.569		1230	1928
25	C.S. CARTY FAMILY LIMITED PARTNERSHIP	95H	A019.00	RB 244	578	1.896		1.896	261 S.F.		261 S.F.	1.890			93	1728
26	THE CITY OF PARIS, TENNESSEE	95I	A001.00	236	194		0.305	0.305		0.156	0.156		0.149		49	1310
27	LEON E. SMITH & WF, BRENDA M. SMITH	95H 95H	A018.00 A017.00	182 170 192	301 520 124	2.223		2.223				2.223			196	1409
28	KEN COOPER & WF, TRINA COOPER	95H	C013.00	201	731		0.870	0.870		1435 S.F.	1435 S.F.		0.837		56	590
~~29~~	~~LEON E. SMITH & WF, BRENDA M. SMITH~~	~~95H~~	~~A017.00~~	~~192~~	~~124~~	~~0.621~~		~~0.621~~				~~0.621~~				
30	HEIRS OF JAMES C. MYRICK	95H	B007.00	70	525		0.707	0.707		3511 S.F.	3511 S.F.		0.626		1244	1428
31	LLOYD E. GIBSON & WF, PEGGY GIBSON	95H	A016.00	240	460	1.277		1.277				1.277			29	1585
32	JOHN W. STARKEY & WF, ANGELETTA C. STARKEY	95H	B008.00	238	386		0.624	0.624		3667 S.F.	3667 S.F.		0.540		1152	771
33	JOHNNY MICHAEL KEY	95H	B009.00	260	722 715 714		1.323	1.323		0.106	0.106		1.217		942	983
34	MARTHA L. HEFNER	95H	A015.00	RB 173 RB 26	691 65	0.631		0.631				0.631			102	835
35	DALE A. BONAR & WF, BRENDA S. BONAR	95H	B019.01	RB 243	135		0.135	0.135		2717 S.F.	2717 S.F.		3165 S.F.			276
36	DANIEL LESLIE SMITH, TRUSTEE	95H	B019.00	RB 293	989		0.139	0.139		1972 S.F.	1972 S.F.		4096 S.F.			256
37	JOCELYNE MOORE & HS, MARC A. MOORE	95H	A014.00	RB 225	210	0.650		0.650				0.650			211	812
38	WILLIAM O. YOUNGBLUTH AND WIFE, JANET L. YOUNGBLUTH	95H	B020.00	RB 335	858		0.562	0.562		3773 S.F.	3773 S.F.		0.475			703
39	TERRY R. FRAZIER & WF, CAROL E. FRAIZER	95H	A013.00	243	703	0.643		0.643				0.643		67		669
40	JERRY WALKER & WF, SHARON WALKER	95H	B021.00	265	580		0.928	0.928		0.150	0.150		0.778	799	1413	1114
41	SCOTT A. WALSH	95H	A012.00	RB 229	989	0.689		0.689				0.689		554		361
42	CHARLES E. SIMPSON & WF, CHARITY M. SIMPSON	95H	A011.00	244	235	0.541		0.541				0.541				553

REV. 06-22-12: COMBINED TRACTS 27 & 29; REVISED AREA ACQ'D. & REMAINING TRACTS 1, 2, 3, 14, 16, 31, 34, 37 & 39; REVISED DRAIN. ESMT. TRACTS 10, 20 & 39; REVISED SLOPE ESMT. TRACTS 1, 2, 3, 6, 8, 10, 14, 16, 18, 19, 20, 22, 25, 26, 31, 32, 33, 34, 37 & 40; REVISED CONST. ESMT. TRACTS 1, 2, 3, 14, 16, 18, 19, 20, 22, 25, 28, 31, 33, 34, 37, 39, 41 & 42; ADDED DRAIN. ESMT. TRACTS 18 & 19

REV. 08-10-12: REVISED CONST. ESMT. TRACTS 18 & 25

REV. 11-05-12: CORRECTED AREA OF CONST. ESMT. TRACT 19

REV. 06-03-13: CHANGED PAGE NO. FOR TRACT 2; CHANGED OWNER NAME & COUNTY RECORDS FOR TRACT 16; ADDED PAGE NUMBER TO DEED INFO TRACT 27; CHANGED OWNER NAME TRACT 30; REMOVED CONST. ESMT. & ADDED DRAIN. ESMT. TO TRACT 15

REV. 09-10-13: REVISED CONST. ESMT. TRACTS 5 & 6; CHANGED PERM. DRAINAGE & CONST. ESMT., REMOVED SLOPE ESMT. TRACT 18

REV. 10-03-13: CORRECTION TO REV. NOTE 09-10-13 REVISED CONST. ESMT. TRACTS 3 & 6, NO CHANGES TO TRACT 5

REV. 11-07-13: CHANGED OWNER NAME & COUNTY RECORDS FOR TRACT 15

REV. 05-20-14: CHANGED OWNER NAME & COUNTY RECORDS FOR TRACT 15; REVISED AREAS FOR TRACTS 8, 9, 10, 11 & 12; REVISED ESMT. AREAS TRACTS 8 & 10.

CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE
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.	2012	NHE-54(26)	3E
CONST.	2017	NH-54(26)	3E

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.
43	DEBRA C. WILLIAMS	95H	B022.00	RB 259	49		0.490	0.490		3804 S.F.	3804 S.F.		0.403		1998	881
44	~~THE CITY OF PARIS, TENNESSEE~~	~~95A~~	~~A011.01~~	~~NO~~	~~DEED~~	~~0.609~~		~~0.609~~				~~0.609~~				
45	WILLIAM D. HOWD	95H	B023.01	260	917		0.345	0.345		3024 S.F.	3024 S.F.		0.276		2281	249
46	DANIEL LESLIE SMITH AND GARY W. SMITH	95H	B024.00	RB 310	154		0.284	0.284		0.140	0.140		0.144		2	200
47	PAUL W. JACKSON & RUBY J. JACKSON	95A	B012.00	RB 259	640	0.386		0.386	3671 S.F.		3671 S.F.	0.302				400
48	DANIEL L. SMITH & GARY W. SMITH	95H	B025.00	RB 343	30		0.207	0.207		1696 S.F.	1696 S.F.		0.168			217
49	THOMAS G. DYER, JR. & WF, JOYCE A. DYER	95H	B026.00	74	218		0.207	0.207		1723 S.F.	1723 S.F.		0.167		4	278
50	BILLY DALE DOUGLASS	95A	B011.00	185	970	0.194		0.194				0.194		203		243
51	SHEREE D. TUBBS	95A 95A	B027.00 C001.01	193 RB 260	830 584		1.657	1.657		4080 S.F.	4080 S.F.		1.563		783	563
52	BILLY RAY SMITH & WF, BETTY L. SMITH	95	017.01	RB 259	216		29.925	29.925		764 S.F.	764 S.F.		29.907		221	60
53	REBECCA L. MAUPIN	95A	C001.00	238	827		0.303	0.303		0.109	0.109		0.194	1026	1597	619
54	BILLY DALE DOUGLASS & WF, VICKI DOUGLASS	95A	B011.01	RB 92	318	0.195		0.195				0.195		488		
55	REGIONS BANK	95A	B010.00	RB 371	962	0.196		0.196				0.196		486		
56	SANDRA SUE HOOD	95A	B009.00	248	973	0.394		0.394				0.394		966		
57	HEIRS OF CHARLES B. MERRELL & WF, GENEVA MAY MERRELL	95A	C003.00	117	300		0.588	0.588		3485 S.F.	3485 S.F.		0.508		333	743
58	PREMIER FINANCIAL SERVICES, INC.	95A	B008.00	RB 389	785	0.397		0.397				0.397		356		519
59	BARBARA A. LEE	95A	B007.00	238	726	0.213		0.213	1128 S.F.		1128 S.F.	0.187			118	542
60	JANICE T. GRAVES	95A	C004.00	RB 10	464		0.627	0.627		3686 S.F.	3686 S.F.		0.542		65	626
61	JERRY F. HOPKINS & WF, MARTHA G. HOPKINS	95A	C005.00	157	1518		0.445	0.445		2716 S.F.	2716 S.F.		0.383		247	511
62	NORMA JEAN NEVELS, ET. AL.	95A	C006.00	WB 15	22		0.738	0.738		3530 S.F.	3530 S.F.		0.657		435	708
63	GERALD WALLACE	95A	B006.00	RB 344	865	0.549		0.549	1142 S.F.		1142 S.F.	0.523		2320	322	506
64	DONALD D. SPARKS	95A	B005.00	202	333	0.186		0.186				0.186		1091		
65	C. MICHAEL COSBY AND REGINA A. FABBRI-COSBY	95A	C007.00	RB 310	364		0.482	0.482		2908 S.F.	2908 S.F.		0.415		74	504
66	BILLY JOE FRENCH	95A	C008.00	RB 32 187	607 347		0.410	0.410		2329 S.F.	2329 S.F.		0.357			367
67	DALE A. BONAR AND WIFE, BRENDA S. BONAR	95A	B004.00	RB 197	703	0.187		0.187				0.187		1088		
68	GEORGE H. McCUISION AND WIFE, BEULAH MAY McCUISION	95A	B003.00	60	154	0.378		0.378				0.378		2149		
69	CHARLES B. YANDERS & WF, CAROLINA E. YANDERS	95	002.02	263	913		14.524	14.524		481 S.F.	481 S.F.		14.513			37
70	GILBERT TRAVIS & WF, CHRISTINE TRAVIS	95A	C009.00	41	125		0.476	0.476		2770 S.F.	2770 S.F.		0.412		275	474
71	DORIS L. HUMPHREYS & WF, JEANNETTE HUMPHREYS	95	002.00	RB 27	718		0.402	0.402		2604 S.F.	2604 S.F.		0.342		394	586
72	JIM CULLIVAN & WF, BILLIE CULLIVAN	95	002.03	221	240		0.412	0.412		2458 S.F.	2458 S.F.		0.356		202	399
73	LEA HASSELL & DIANE HASSELL GRIFFITH	95A	B002.00	RB 275 239	239 195	0.380		0.380	1018 S.F.		1018 S.F.	0.357		1204	362	215
74	CAROL McDANIEL McDUFFEE	95	003.00	117	813		0.689	0.689		4343 S.F.	4343 S.F.		0.589		1904	1515
75	CHRIS D. BUSH AND RICHARD CROUCH, AS TENANTS IN COMMON	95	002.01	RB 266 RB 266	538 109		9.353	9.353		3739 S.F.	3739 S.F.		9.267	2388	3646	1611
76	PARK VILLAGE TENNESSE PARTNERS I, L.P.	95	001.00	246	706	7.346		7.346	1635 S.F.		1635 S.F.	7.308		2807	44	2526
77	D & O MANAGEMENT COMPANY	86	044.00	RB 398	876		2.146	2.146		0.131	0.131		2.015		118	2047
78	DANIEL KENT JACKSON, JR.	86	042.02	RB 165	423	0.999		0.999	902 S.F.		902 S.F.	0.978			372	1047
79	JOE L. JACKSON & WF, MARILYN JACKSON	86	043.00	253	701	0.408		0.408				0.408			21	394
80	WILLIAM DEAN HOWD	86	045.00	RB 156	693		40.869	40.869					40.869		9	559
81	HELEN GILBERT	86	047.00	RB 79	499		1.109	1.109		0.182	0.182		0.927		4165	2881
82	PARIS-HENRY COUNTY PUBLIC UTILITY DISTRICT OF HENRY COUNTY, TENNESSEE	82	047.01	66	566		1600 S.F.	1600 S.F.		354 S.F.	354 S.F.		1246 S.F.		907	296

REV. 06-22-12: REVISED AREA ACQ'D. & REMAINING TRACTS 63, 73 & 81; REVISED DRAIN. ESMT. TRACTS 73 &76; REVISED SLOPE ESMT. TRACTS 43, 45, 51, 52, 53, 60, 61, 62, 63, 65, 70, 71, 72, 73, 74, 75, 76, 78 & 81; REVISED CONST. ESMT. TRACTS 49, 62, 66, 76, 78 & 81

REV. 08-10-12: REVISED DRAIN. ESMT. TRACTS 53, 75, 76; REVISED SLOPE ESMT. & CONST. ESMT. TRACTS 75 & 76

REV. 11-05-12: CHANGED OWNER NAME & COUNTY RECORDS TRACTS 63 & 77; CHANGED EXISTING & PROPOSED AREA INFORMATION FOR TRACTS 62, 65, 66, 70, 71 & 72

REV. 06-03-13: CHANGED OWNER NAME & COUNTY RECORDS TRACTS 48 & 55; CHANGED OWNER NAME TRACT 57

REV. 09-10-13: REVISED SLOPE & CONST. ESMT. TRACT 77

REV. 05-20-14: REVISED ALL AREAS TRACT 77; REVISED TOTAL AREA TRACTS 69, 75 & 80; CHANGED PROPERTY OWNER NAME TRACT 58

REV. 08-01-14: REVISED PROPERTY OWNER NAME, DEED REFERENCE & ESMT. AREAS TRACT 77

CONSTRUCTABILITY FIELD REVIEW

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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.	2012	NHE-54(26)	3F
CONST.	2017	NH-54(26)	3F

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.
83	THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF PARIS, TENNESSEE	86	038.00	RB 213	255	14.306		14.306	2254 S.F.		2254 S.F.	14.254		278	3906	0.171 AC
		86	039.00													
		86	039.01													
		86	039.02													
		86	039.03													
		86	040.01													
		86	041.00													
		86	042.00													
84	PAR-TEN CORP.	86	048.00	RB 358	890		5.854	5.854		0.123	0.123		5.731	0.181 AC	0.326 AC	0.149 AC
85	DANIEL KENT JACKSON & WF, MARTHA W. JACKSON	86	033.00	140	26	0.366		0.366	648 S.F.		648 S.F.	0.351			248	1013
~~86~~	~~OTIS L. HINTON & WF, BETTY A. HINTON~~	~~86~~	~~033.01~~	~~189~~	~~667~~	~~0.526~~		~~0.526~~				~~0.526~~				
87	DAHYABHAI A. PATEL & WF, VARSHA D. PATEL	86	028.00	190	482	29.446		29.446	0.544		0.544	28.902			2709	886
88	BRADLEY EUGENE HOSFORD & WF, PAMELA ANN HOSFORD	86	051.01	176	294		1.512	1.512		2494 S.F.	2494 S.F.		1.455		3695	2180
89	HAROLD W. FISHER & WF, THERESA D. FISHER	86	027.00	181	67	2.261		2.261	1002 S.F.		1002 S.F.	2.238			2467	1213
90	LLOYD A. DOOGAN & WF, MARGARET D. DOOGAN	86	026.00	180	394	2.123		2.123	3266 S.F.		3266 S.F.	2.048			0.118 AC	3085
91	ROBERT PAUL GRIFFIN	86	051.00	RB 198	632		0.891	0.891		1351 S.F.	1351 S.F.		0.860		1908	483
92	LYNNE C. MURRAY	86	051.02	245	560		0.976	0.976		1709 S.F.	1709 S.F.		0.937		1454	1111
93	REBECCA EVANS	86	052.00	236	969		0.687	0.687		835 S.F.	835 S.F.		0.668		633	316
94	JOE F. McFADDEN	86	053.00	256	606		2.200	2.200		2807 S.F.	2807 S.F.		2.136		1082	1644
95	KENNETH WAYNE GOAD	86	019.01	44	266		15.478	15.478		0.152	0.152		15.326	0.194 AC	0.151 AC	3991
96	DAVID JENNINGS & WF, NANCY C. JENNINGS	86	025.00	203	202	77.771		77.771	0.249		0.249	77.522		2615	0.779 AC	0.218 AC
97	DAVID S. HAYES & WF, JENNIFER J. HAYES	86	001.02	RB 174	882		13.496	13.496		0.429	0.429		13.067	0.266 AC	0.421 AC	0.144 AC
98	PARIS SEVENTH-DAY ADVENTIST CHURCH	86	024.00	RB 286	476	10.624		10.624	0.147		0.147	10.477		1679	0.350 AC	0.117 AC
		86	024.01	249	583											
		86	024.02	249	586											
				249	589											
				208	414											
				208	416											
				161	977											
99	TANSEL McCADAMS	85	039.00	201	703	8.150		8.150	1521 S.F.		1521 S.F.	8.115			386	2712
100	CAROL SUTER	86	001.04	RB 188	207		2.050	2.050		2475 S.F.	2475 S.F.		1.993		3750	2009
101	WILLIE H. PRESLEY & WF, ZELMA PRESLEY	86	001.03	162	85		2.051	2.051		4160 S.F.	4160 S.F.		1.956	2754	0.167 AC	3089
102	JAMES W. MERRELL	86	022.00	RB 212	800	1.087		1.087	0.104		0.104	0.983		1341	0.107 AC	2354
103	DAVID M. WILSON & WF, KAREN W. WILSON	86	001.05	RB 104	834		4.997	4.997		3900 S.F.	3900 S.F.		4.907		3135	3508
104	BAXTER PERRY FBO MICHAEL PERRY TR UW	85	061.00	RB 363	865	2.093		2.093	3484 S.F.		3484 S.F.	2.013			1372	1191
105	DAVID R. WEBB	85	060.00	229	454	3.508		3.508	2403 S.F.		2403 S.F.	3.453			0.177 AC	1842
				199	982											
106	TIMOTHY H. LEONARD & WF, LISA M. LEONARD	86	001.14	232	980		6.322	6.322		0.119	0.119		6.203	3223	0.445 AC	4273
				232	975											
107	JAMES A. CALDWELL & WF, GINGER L. CALDWELL	85	059.00	236	367	4.230		4.230	1260 S.F.		1260 S.F.	4.201		0.166 AC	811	753
108	GARY WARDLE & WF, DENISE E. WARDLE	86	001.11	RB 249	421		1.897	1.897		1967 S.F.	1967 S.F.		1.852			
109	TOY T. WARD JR.	85	058.00	RB 8	140	4.639		4.639	2764 S.F.		2764 S.F.	4.576		3824	0.158 AC	2612
				230	972											
110	ROBERT L. WALKER & WF, ALLIE M. WALKER	86	001.10	RB 275	332		2.259	2.259		2383 S.F.	2383 S.F.		2.204			
111	DONALD BREWER, SR.	86	020.02	226	397	1.219		1.219	2861 S.F.		2861 S.F.	1.153			3955	2000
				214	321											
				208	178											
				175	538											
112	MARKY SMITH	86	020.00	RB 262	458		1.947	1.947		3861 S.F.	3861 S.F.		1.858	966	2064	2382
113	CAROL CARTER	86H	A001.00	RB 293	874		5.169	5.169		1498 S.F.	1498 S.F.		5.135	354	1545	825
				RB 262	76											
114	JASON LEON EVANS	85	056.01	165	342	2.877		2.877	217 S.F.		217 S.F.	2.872			77	179
115	TOY T. WARD, JR.	86	020.01	RB 8	140	0.552		0.552	928 S.F.		928 S.F.	0.531			365	297
				252	406											
116	LISA WILLIAMS	85	056.02	210	504	1.178		1.178	869 S.F.		869 S.F.	1.158		1763		120
117	LOUISE JUDD	86	021.00	197	192	0.435		0.435	1507 S.F.		1507 S.F.	0.400		440	349	729
118	CLARENCE E. BATES & WF, DEBRA ANN BATES	86H	A002.00	189	566		0.568	0.568		1166 S.F.	1166 S.F.		0.541		685	916

REV 06-22-12: REVISED AREA ACQ'D. & REMAINING TRACTS 83 & 106; REVISED DRAIN. ESMT. TRACT 83; REVISED SLOPE ESMT. TRACTS 83, 84, 88, 89, 90, 91, 92, 93, 94, 96, 97, 98, 100, 102, 103, 105, 107, 109, 111, 112, 113, 117 & 118; REVISED CONST. ESMT. TRACTS 83, 84, 88, 98, 99, 103, 109, 115 & 117

REV 07-10-12: REVISED SLOPE ESMT. TRACTS 99 & 102

REV 08-10-12: REVISED DRAIN. ESMT. TRACTS 84, 95, 97, 101, 102 & 109; REVISED CONST. ESMT. TRACTS 84, 85, 97, 101, 102 & 109; REVISED SLOPE ESMT. TRACTS 84 & 109; REMOVED DRAIN. ESMT. TRACT 85

REV 11-05-12: REVISED OWNER NAME & COUNTY RECORDS TRACTS 84 & 104

REV 06-03-13: REVISED OWNER NAME & COUNTY RECORDS TRACT 104

REV 07-08-13: REVISED CONST. ESMT. TRACT 83

REV 07-19-13: REVISED CONST. ESMT. TRACT 111; REVISED PARCEL NO. TRACT 110

REV 09-10-13: REVISED SLOPE & CONST. ESMT. TRACTS 103 & 106; REVISED CONST. ESMT. TRACT 104

REV 10-03-13: CORRECTED SLOPE & CONST. ESMT. TRACT 103

CONSTRUCTABILITY FIELD REVIEW

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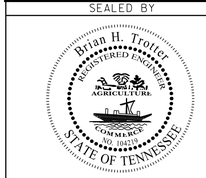

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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.	2012	NHE-54(26)	3G
CONST.	2017	NH-54(26)	3G

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.
119	GUY N. WILSON & WF, MARTHA J. WILSON AND LARRY N. WILSON & WF, CONNIE P. WILSON	86H 86H	A003.00 A003.01	209 183	721 389		0.865	0.865		0.130	0.130		0.735		3431	1610
120	ROY W. CAPPS & WF, NORMA F. CAPPS	86	021.01	226	176	0.362		0.362	1037 S.F.		1037 S.F.	0.338			761	458
121	MARI J. VANDERVEREN	85	055.00	RB 213	214	1.798		1.798	1789 S.F.		1789 S.F.	1.757			2897	1302
122	C. RICHARD MAUNEY TRUSTEE OF THE C. RICHARD MAUNEY TRUST	85 85	053.00 054.00	RB 4 RB 4	602 600	1.359		1.359	0.101		0.101	1.258		2998	1868	1440
123	CHRISTINE E. BLANTON AND JAMES E. BLANTON	86H	A004.00	RB 307	649		0.815	0.815		0.117	0.117		0.698	2140	1209	520
124	LAKESIDE CHRISTIAN FELLOWSHIP	85	001.13	192	427		16.075	16.075		0.917	0.917		15.158		2875	1441
125	NEDRA BLANKENSHIP	85	019.00/020.00	262	538	3.581		3.581	0.886		0.886	2.695				
126	JOHN E. MYERS	85	018.00	RB 14 96	688 381	1.166		1.166	0.104		0.104	1.062				
127	MILFORD RAY HOUSTON	85	011.00	231	254		95.510	95.510		0.248	0.248		95.262			
128	BILLY JACK GALLAMORE & EDNA PAULINE GALLAMORE REVOCABLE LIVING TRUST	95 95	084.00 085.00	RB 133	689	0.906		0.906				0.906		2964		
129	DON CARNELL McDANIEL, RACHEL McDANIEL AND RACHELLE COOK	95P	B005.00	RB 212	734	1480 S.F.		1480 S.F.	1480 S.F.		1480 S.F.					
130	TIM L. CARPENTER	86	049.00	RB 356	189		1.460	1.460		247 S.F.	247 S.F.		1.454	2537	0.178 AC	2382
131	PHILLIP SWARTZ & WF, JANET SWARTZ	86	019.00	RB 308	592		1.400	1.400		3390 S.F.	3390 S.F.		1.322		0.118 AC	2340
~~132~~	~~C. RICHARD MAUNEY TRUSTEE OF THE C. RICHARD MAUNEY TRUST~~	~~85~~	~~054.00~~	~~RB 4~~	~~600~~	~~0.358~~		~~0.358~~				~~0.358~~				
~~133~~	~~IRVING HAMILTON & WF, BRIDGET HAMILTON~~	~~95~~	~~83~~	~~RB 218~~	~~616~~	~~3.837~~		~~3.837~~				~~3.837~~				
134	KWT RAILWAY, INC.	NA	NA	192	846	1.061	2.092	3.153	0.371	0.547	0.918	0.690	1.545	0.291 AC		
8045	STATE OF TENNESSEE	95H	B23.01	RB 393	238		0.276	0.276					0.276			
75S	CHRIS D. BUSH AND RICHARD CROUCH, AS TENANTS IN	95	002.01	RB 266	538		1086 S.F.	1086 S.F.		242 S.F.	242 S.F.		844 S.F.		43	111
77A	THE CITY OF PARIS, TENNESSEE BOARD OF PUBLIC UTILITIES	86	44.01	RB 386	52		10.430	10.430		256 S.F.	256 S.F.		10.424			377

REV. 06-22-12: COMBINED TRACTS 122 & 132; REMOVED AREA ACQ'D. & LINED THRU TRACT 133; ADDED TRACT 134; REVISED AREA ACQ'D. & REMIAINING TRACT 129; REVISED SLOPE ESMT. TRACTS 120, 121, 124, 129 & 131; REVSED CONST. ESMT. TRACT 119

REV 08-10-12: REVISED DRIAN. ESMT. & SLOPE ESMT. TRACT 130; REVISED CONST. ESMT. TRACTS 119 & 130

REV 08-30-12: ADDED PROPOSED ACQUISITION LT & RT ON TRACT 134

REV 11-05-12: CHANGED ONWER NAME TRACT 124, CHANGED OWNER NAME & COUNTY RECORDS TRACT 130

REV 06-03-13: REMOVED LINE THRU TRACT 128 & ADDED DRAIN. ESMT.

REV 05-20-14: REMOVED TAKES FROM TRACT 134 & ADDED LINE THRU; ADDED TRACTS 8045, 75S & 77A WITH DATA

REV 08-01-14: REVISED ACQUISITION AREA TRACT 77A

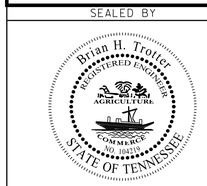
REV 09-22-14: CORRECTED DEED INFORMATION FOR TRACT 77A

REV 06-04-15: REMOVED LINE THRU TRACT 134, ADDED TAKES & PERM. DRAIN. ESMT.

REV 07-13-15: REMOVED FOOTNOTE 1, REVISED TOTAL AREA AND AREA REMAINING LT & RT TRACT 134

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
ACQUISITION
TABLE

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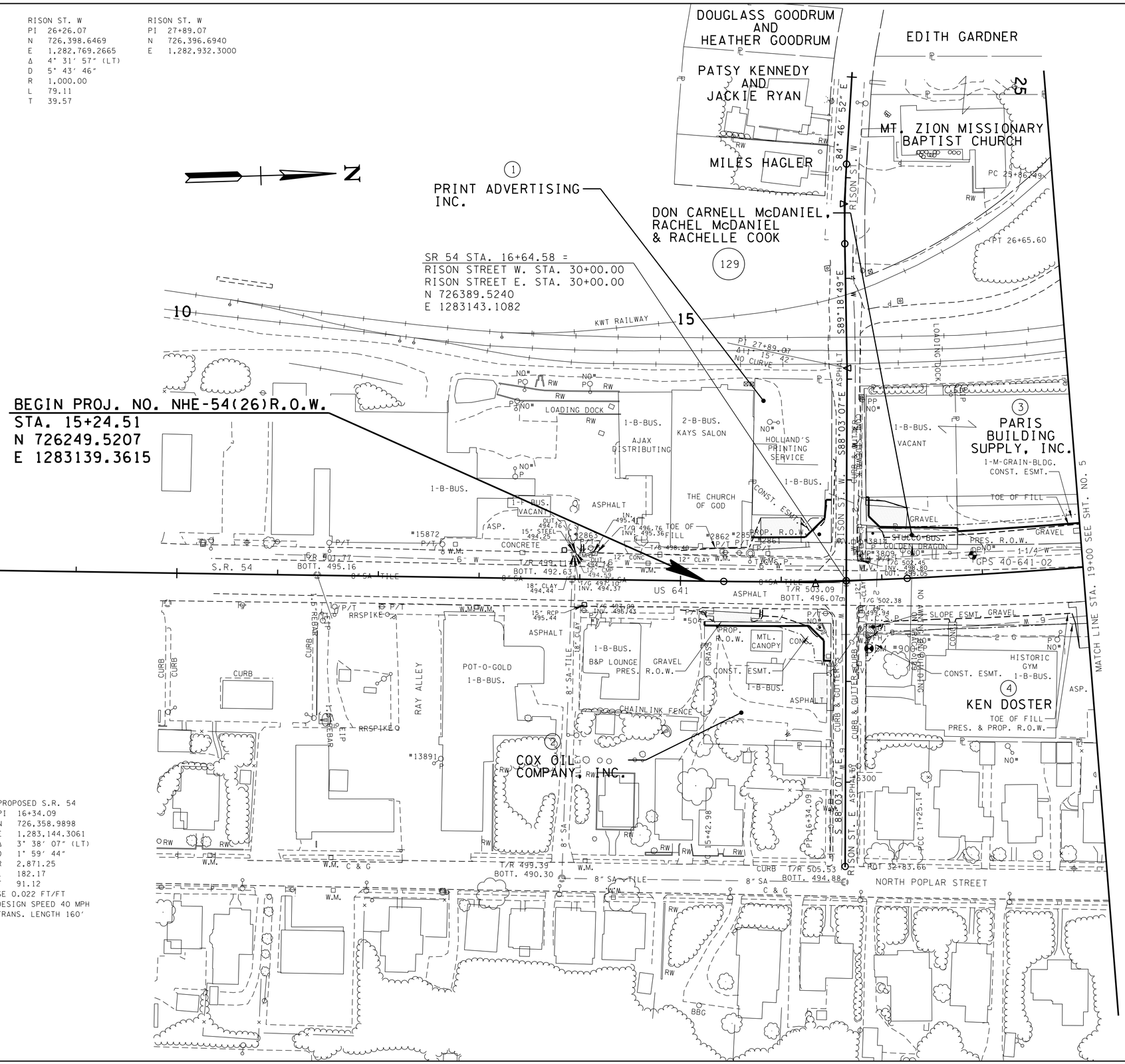
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

RISON ST. W
PI 26+26.07
N 726,398.6469
E 1,282,769.2665
Δ 4° 31′ 57″ (LT)
D 5° 43′ 46″
R 1,000.00
L 79.11
T 39.57

RISON ST. W
PI 27+89.07
N 726,396.6940
E 1,282,932.3000



PROPOSED S.R. 54
PI 16+34.09
N 726,358.9898
E 1,283,144.3061
Δ 3° 38′ 07″ (LT)
D 1° 59′ 44″
R 2,871.25
L 182.17
T 91.12
SE 0.022 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 160′

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4
CONST.	2017	NH-54(26)	4

REV. 06-22-12: REVISED PROP. R.O.W. & ESMTS. TRACTS 1, 2, 3 & 129

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON THE WEST SIDE OF TRACTS 1 & 3

REV. 08-30-12: ADDED A PI & DELTA WITH NO CURVE TO RISON STREET W. TO CLARIFY ALIGNMENT & REMOVED EXTRA CURVE AT BEGINNING OF ALIGNMENT; CORRECTED NAME OF RAILROAD

REV. 06-03-13: ADDED BUS. ENT. TRACT 2 OFF RISON ST. E

REV 09-10-13: REVISED TOPO TRACT 3 & 129

REV 10-03-13: REVISED GAS LINE LOCATIONS

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

BEGIN PROJECT TO STA.19+00

SCALE: 1″= 50′

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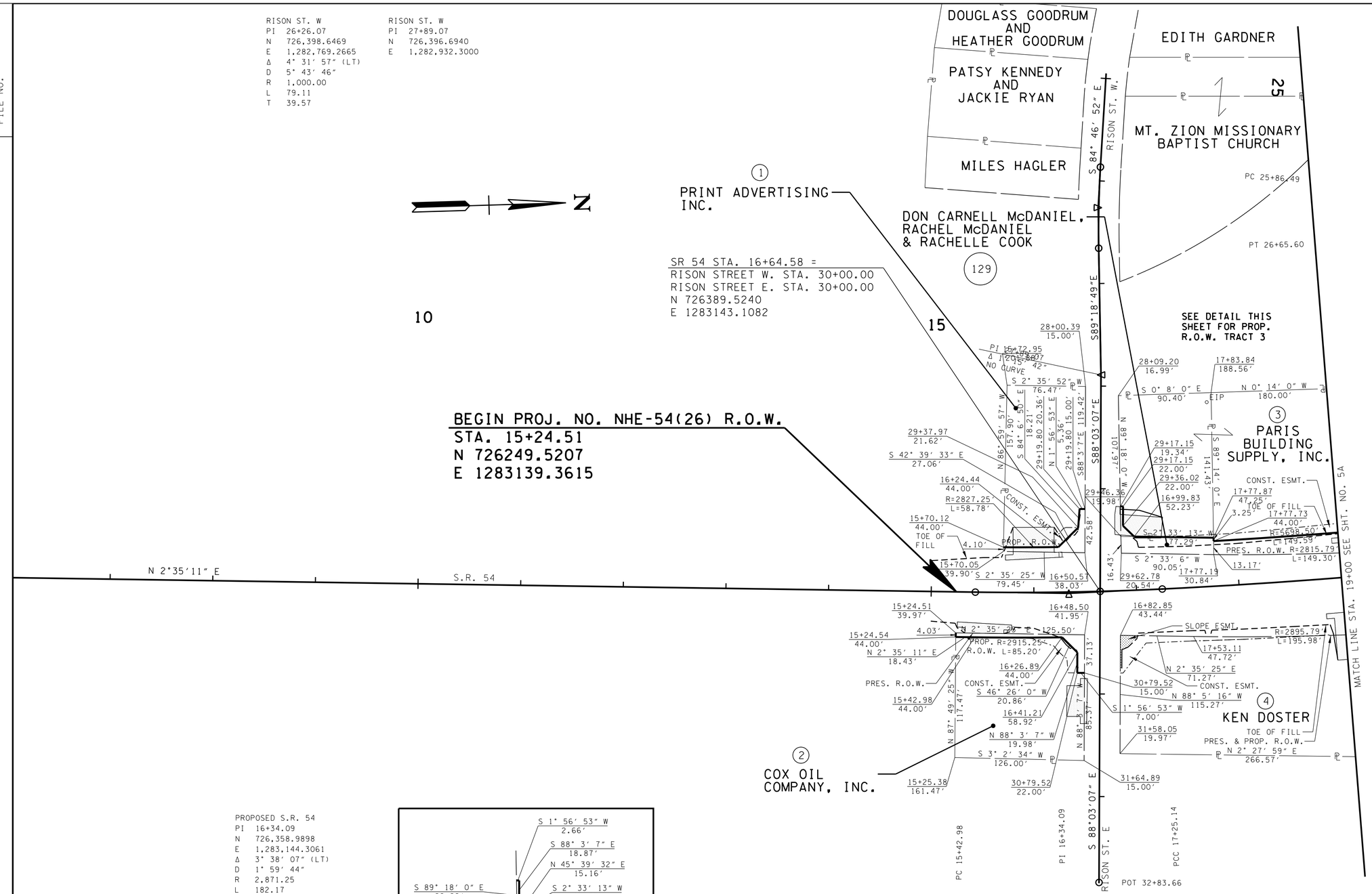
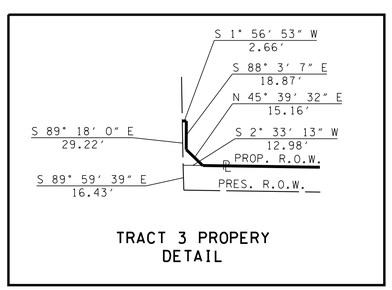
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

RISON ST. W
PI 26+26.07
N 726,398.6469
E 1,282,769.2665
Δ 4° 31′ 57″ (LT)
D 5° 43′ 46″
R 1,000.00
L 79.11
T 39.57

RISON ST. W
PI 27+89.07
N 726,396.6940
E 1,282,932.3000



PROPOSED S.R. 54
PI 16+34.09
N 726,358.9898
E 1,283,144.3061
Δ 3° 38′ 07″ (LT)
D 1° 59′ 44″
R 2,871.25
L 182.17
T 91.12
SE 0.022 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 160′



TRACT 3 PROPERY DETAIL

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4A
CONST.	2017	NH-54(26)	4A

REV. 06-22-12: REVISED PROP. R.O.W. & ESMTS. ON TRACTS 1, 2, 3 & 129; ADDED DETAIL FOR TRACT 3 R.O.W.; CORRECTED VARIOUS PROPERTY CALLS

REV. 08-10-12: ADDED STA/OFF AT PROP. R.O.W. TRACT 2; CHANGED PRES. R.O.W. TO PROPERTY LINE ON THE WEST SIDE OF TRACTS 1 & 3

REV. 08-30-12: ADDED A PI & DELTA WITH NO CURVE TO RISON STREET W TO CLARIFY THE ALIGNMENT & REMOVED EXTRA CURVE AT BEGINNING OF ALIGNMENT

REV. 06-03-13: ADDED BUS. ENT. TO TRACT 2 OFF RISON ST. E

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102121
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

BEGIN PROJECT TO STA.19+00

SCALE: 1"= 50′

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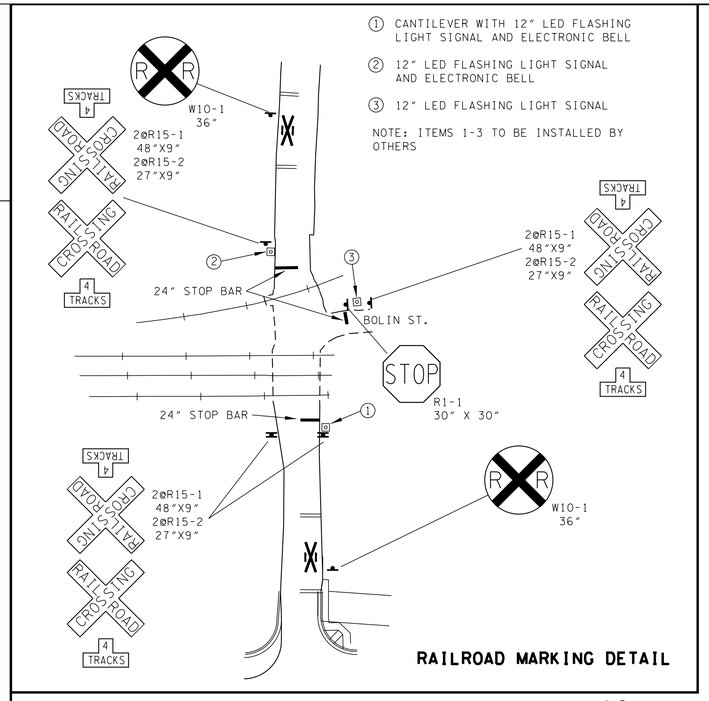
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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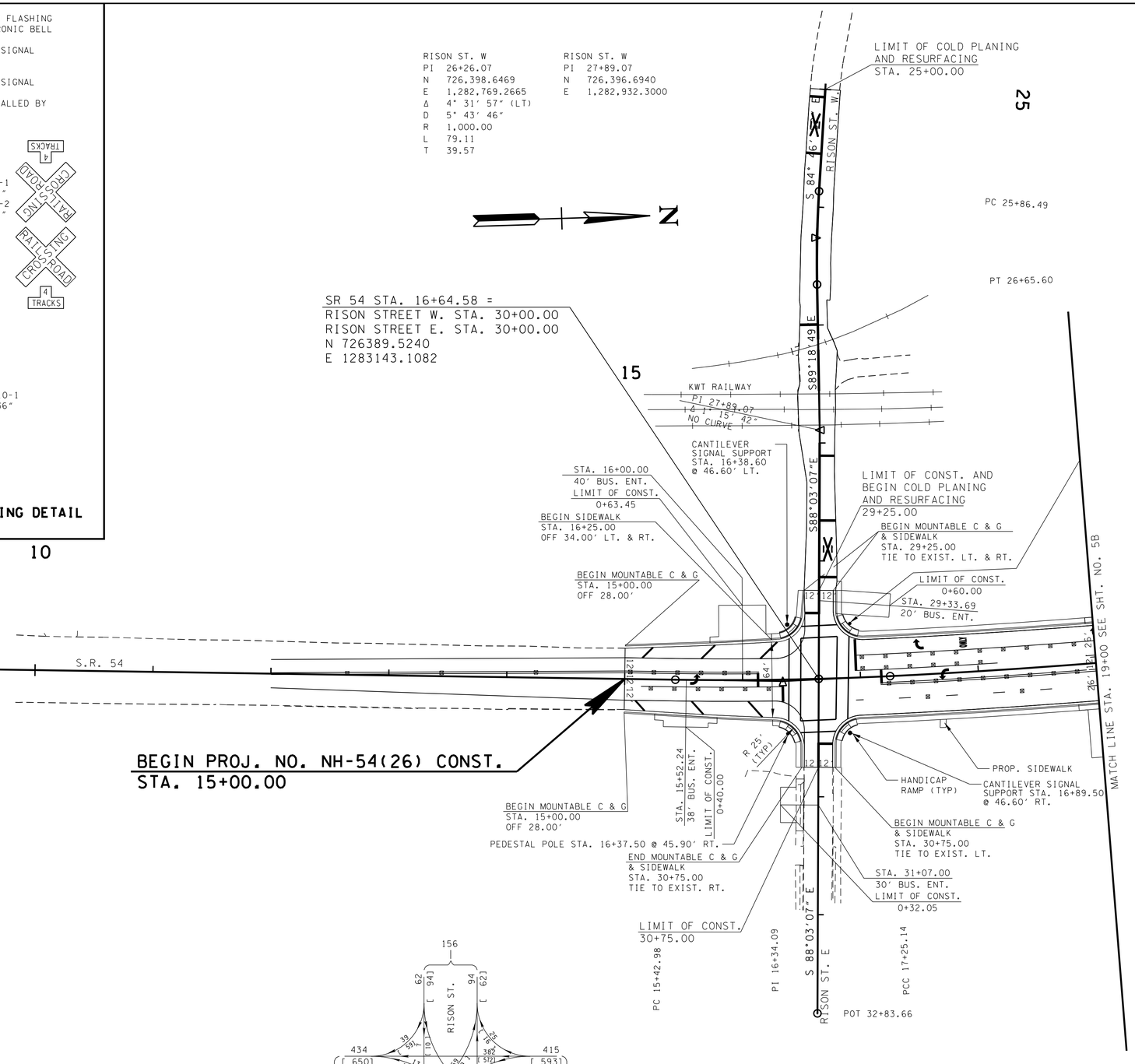
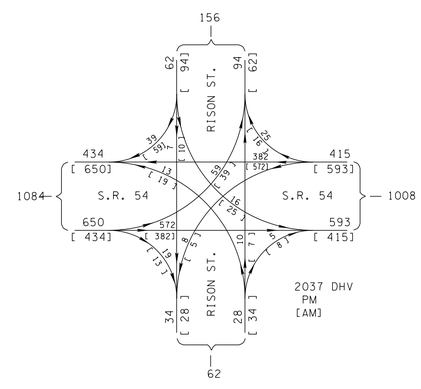


PROPOSED S.R. 54
PI 16+34.09
N 726,358.9898
E 1,283,144.3061
Δ 3° 38' 07" (LT)
D 1° 59' 44"
R 2,871.25
L 182.17
T 91.12
SE 0.022 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 160'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4B
CONST.	2017	NH-54(26)	4B

REV. 06-22-12: ADDED NOTES TO INDICATE LIMITS MOUNTABLE CURB & GUTTER

REV. 08-10-12: CLARIFIED NOTES FOR LIMITS OF MOUNTABLE CURB & GUTTER ALONG RISON STREET E & W

REV. 08-30-12: ADDED A PI & DELTA WITH NO CURVE TO RISON STREET W TO CLARIFY ALIGNMENT & REMOVED EXTRA CURVE AT BEGINNING OF ALIGNMENT; CORRECTED NAME OF RAILROAD

REV. 01-04-13: ADDED CONNECTING SIDEWALK RT. AT STA. 17+67.5

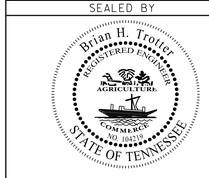
REV. 06-03-13: ADDED BUS. ENT. RT. STA. 31+07 RISON ST. E

REV. 01-04-16: ADDED RAILROAD MARKING AND SIGNAGE DETAIL

REV. 01-19-16: REVISED LIMITS OF COLD PLANING AND RESURFACING ON RISON ST. W.

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

BEGIN PROJECT TO STA.19+00

SCALE: 1"= 50'

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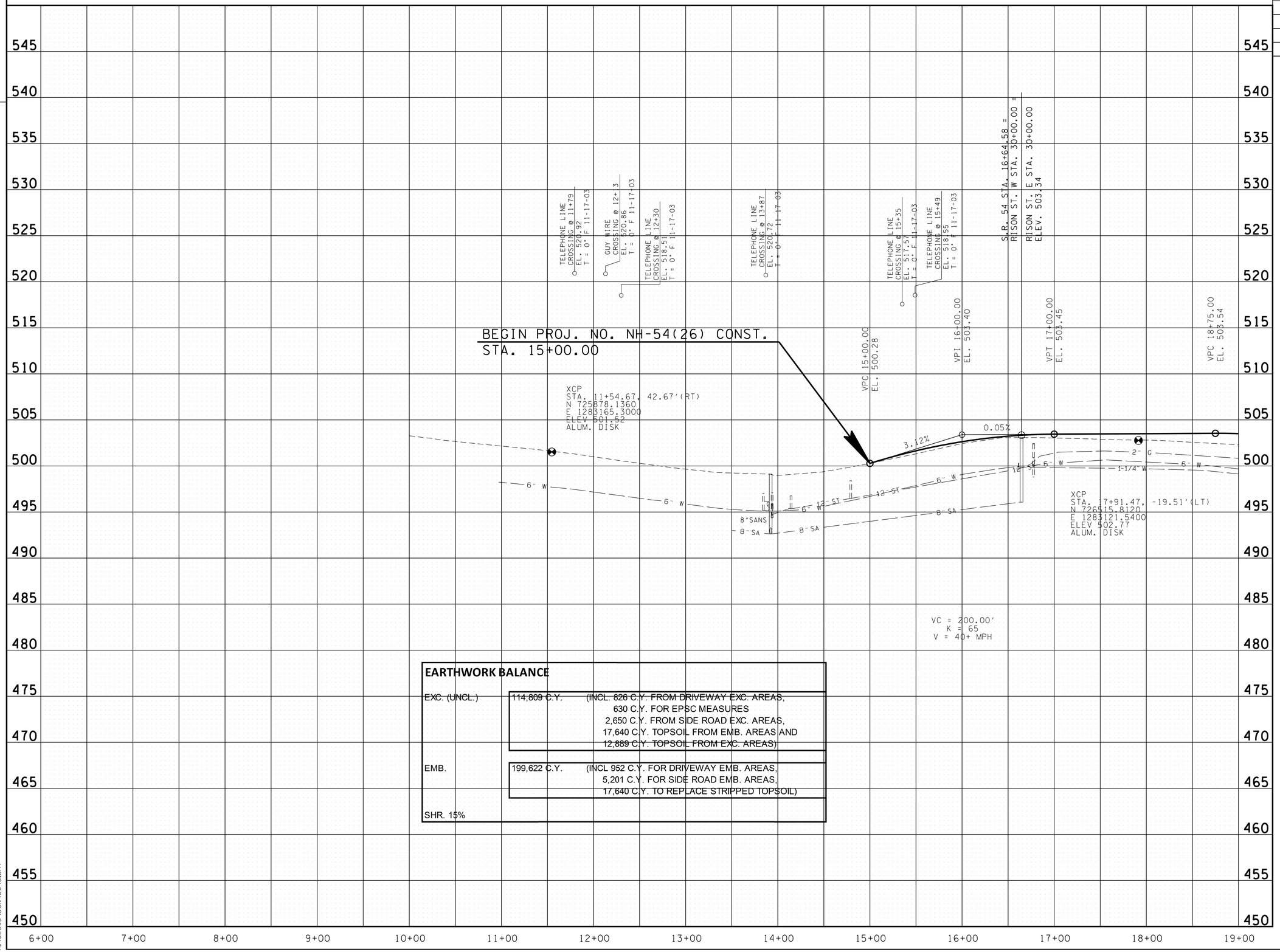
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4C
CONST.	2017	NH-54(26)	4C



EARTHWORK BALANCE

EXC. (UNCL.)	114,809 C.Y.	(INCL. 826 C.Y. FROM DRIVEWAY EXC. AREAS, 630 C.Y. FOR EPSC MEASURES 2,650 C.Y. FROM SIDE ROAD EXC. AREAS, 17,640 C.Y. TOPSOIL FROM EMB. AREAS AND 12,889 C.Y. TOPSOIL FROM EXC. AREAS)
EMB.	199,622 C.Y.	(INCL 952 C.Y. FOR DRIVEWAY EMB. AREAS, 5,201 C.Y. FOR SIDE ROAD EMB. AREAS, 17,640 C.Y. TO REPLACE STRIPPED TOPSOIL)
SHR. 15%		

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102576
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

BEGIN PROJECT TO STA.19+00

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

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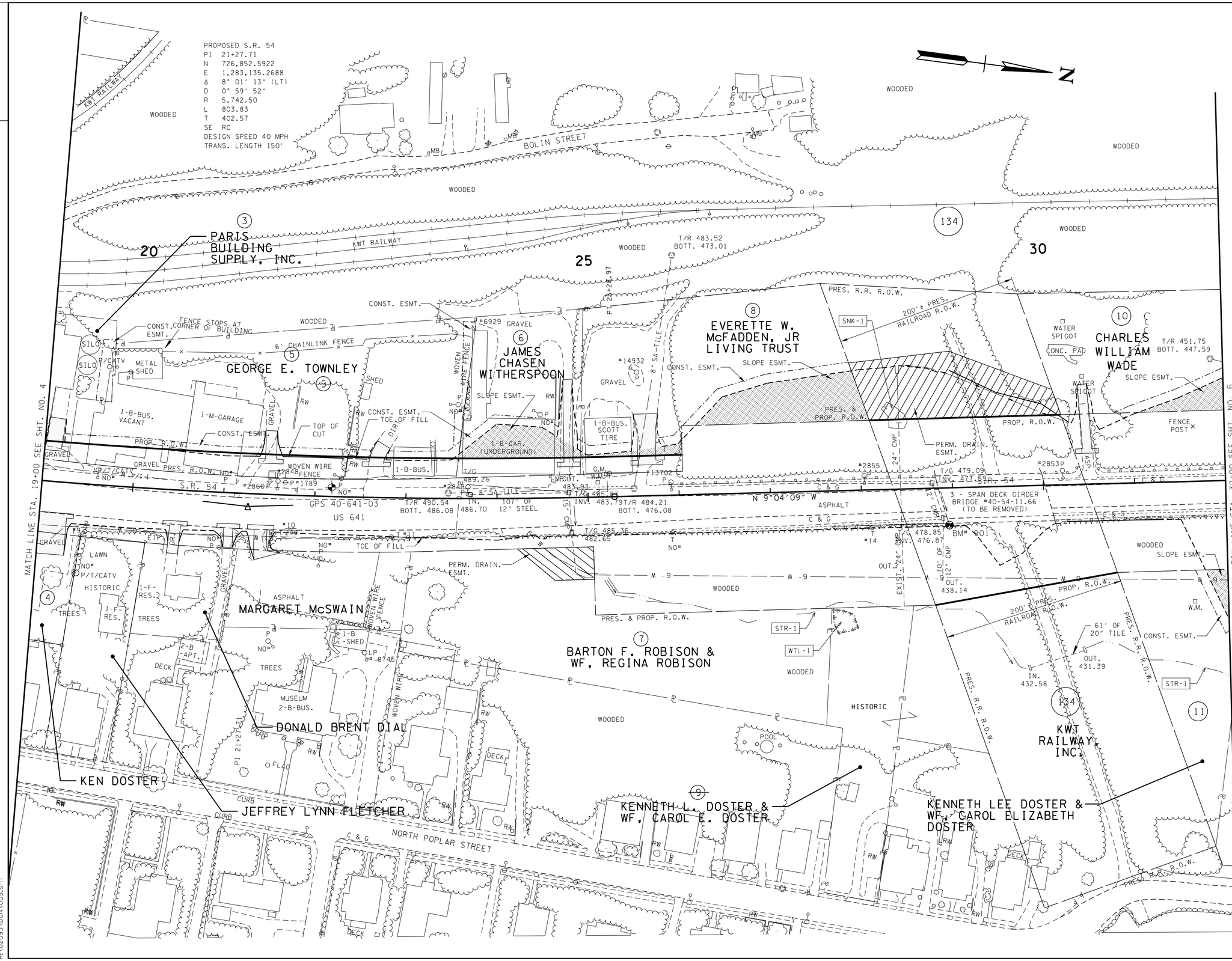
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	5
CONST.	2017	NH-54(26)	5

REV. 06-22-12: ADDED TRACT 134 & REVISED PERM. DRAIN. ESMT. TRACT 10; LABELED EXIST. RAILROAD R.O.W.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 3, 5, 6, 8 & 10; CLARIFIED PROPERTY LINE BETWEEN TRACTS 3 & 5

REV. 08-30-12: CORRECTED NAME OF RAILROAD; DIMENSIONED PRES. RAILROAD R.O.W.; REVISED PRES. RAILROAD R.O.W. TO CROSS ROADWAY; ADDED PROP. R.O.W. TO ROADWAY CROSSING RAILROAD

REV. 11-05-12: ADDED SURVEY OF FENCE TO TRACT 5

REV 09-10-13: REVISED TOPO TRACTS 3, 5 & 6; ADDED CONST. ESMTS. TRACTS 3 & 5 FOR BUILDING REMOVALS

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV 05-20-14: REVISED PRES. R.R. R.O.W. LINES & NOTES, REMOVED ALL TAKES & ESMTS. FROM TRACT 134; ADDED CROSSING AGREEMENT NOTE

REV 06-04-15: REVISED PRES. R.R. R.O.W. LINES & NOTES, ADDED PROP. R.O.W. & PERM. DRAIN. ESMT. TO TRACT 134, REMOVED CROSSING AGREEMENT NOTE

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102270
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 19+00 TO STA. 32+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.	2012	NHE-54(26)	5A
CONST.	2017	NH-54(26)	5A

REV 06-22-12: ADDED TRACT 134 & REVISED. PERM. DRAIN. ESMT. TRACT 10; LABELED EXIST. RAILROAD R.O.W.; CORRECTED VARIOUS PROPERTY CALLS

REV 08-10-12: CLARIFIED PROPERTY LINE BETWEEN TRACTS 3 & 5; ADDED DISTANCE AT NORTH PROPERTY LINE TRACT 6; CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 3, 5, 6, 8 & 10

REV 08-30-12: DIMENSIONED PRES. RAILROAD R.O.W.; REVISED PRES. RAILROAD R.O.W. TO CROSS ROADWAY; ADDED PROP. R.O.W. TO ROADWAY CROSSING RAILROAD

REV 09-10-13: ADDED CONST. ESMT. TRACTS 3 & 5 FOR BUILDING REMOVAL

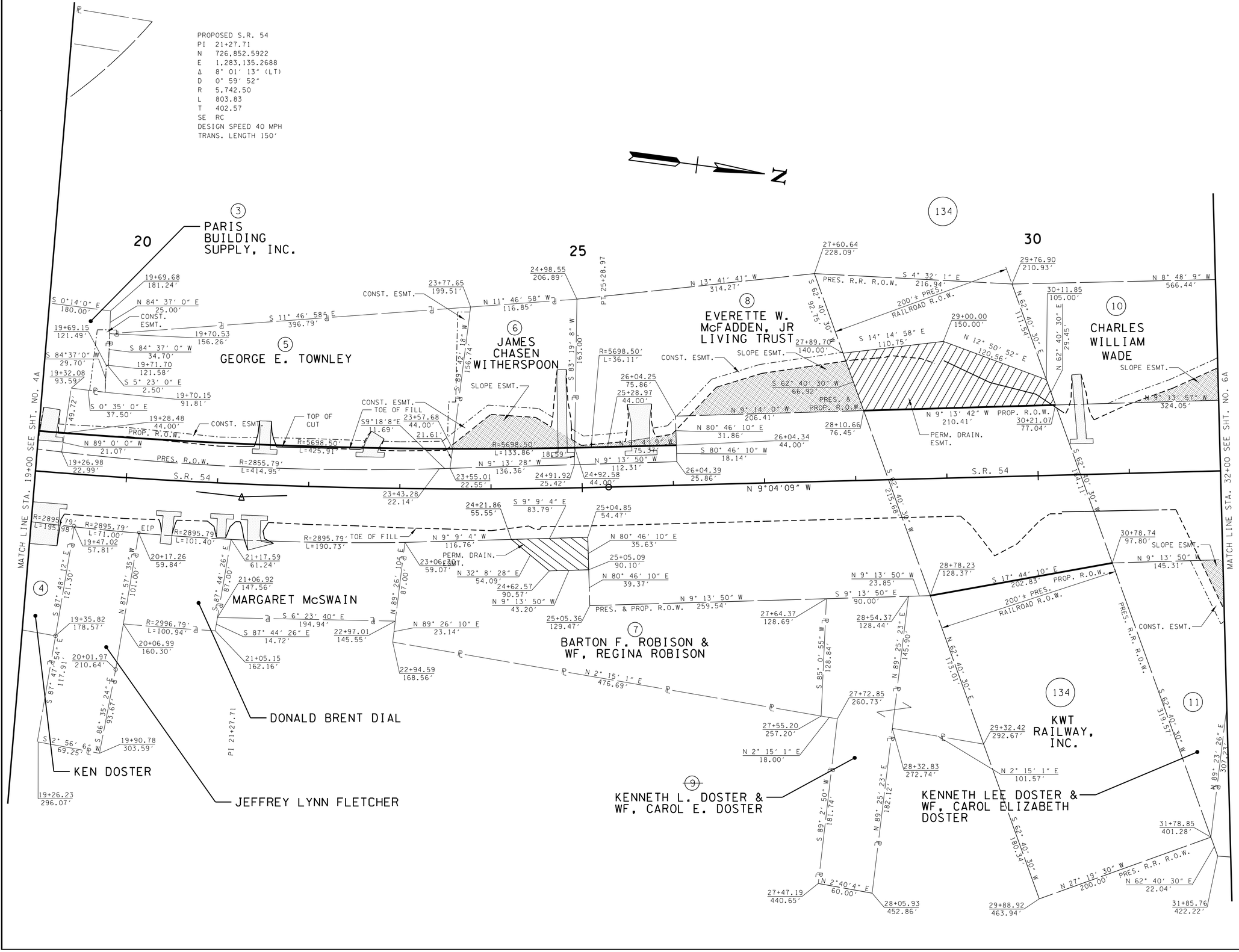
REV 10-03-13: REVISED SHEET

REV 10-23-13: ADDED STA/OFF & BRNG/DIST LT. NEAR STA. 23+50 ON TRACT 5

REV 05-20-14: REVISED PRES. R.R. R.O.W., REVISED ALL PROPERTY CALLS TRACTS 8, 9, 10 & 11. REMOVED ALL ESMTS. & TAKES FROM TRACT 134; ADDED CROSSING AGREEMENT NOTE

REV 06-04-15: REVISED PRES. R.R. R.O.W., ADDED PROP. R.O.W. & PERM. DRAIN. ESMT. TO TRACT 134; REMOVED CROSSING AGREEMENT NOTE

REV 07-13-15: ADDED STA/OFF ON SOUTHEAST CORNER OF TRACT 134



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 104319
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 19+00 TO STA. 32+00

SCALE: 1"= 50′

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

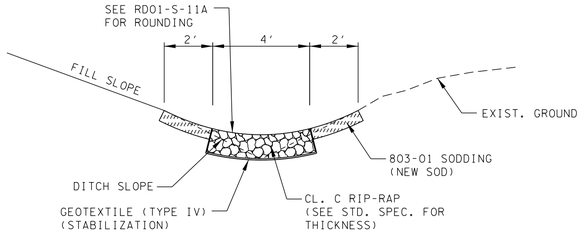
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	5B
CONST.	2017	NH-54(26)	5B

REV 06-22-12: ADDED NOTES TO INDICATE LIMITS OF MOUNTABLE CURB & GUTTER

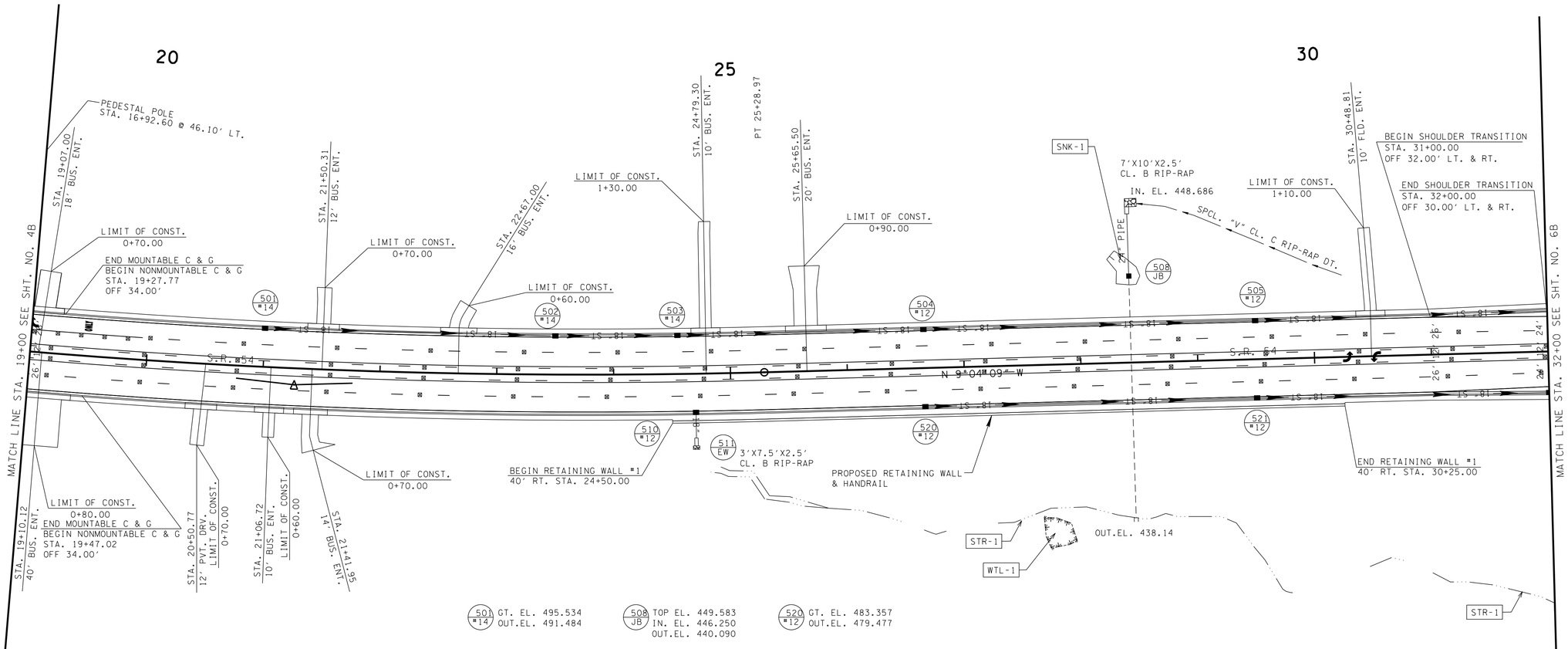
REV 08-10-12: ADDED RIP-RAP AT OUTLET OF PIPE NEAR 24+50

REV 06-22-16: REVISED STORM SEWER, REVISED SPCL. DT. DETAIL

PROPOSED S.R. 54
PI 21+27.71
N 726,852.5922
E 1,283,135.2688
Δ 8° 01′ 13″ (LT)
D 0° 59′ 52″
R 5,742.50
L 803.83
T 402.57
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150′



SPCL. "V" CL. C RIP-RAP DT.
STA. 28+50.00 TO STA. 30+25.00 LT.



501 #14 GT. EL. 495.534
OUT.EL. 491.484

502 #14 GT. EL. 490.116
IN. EL. 486.066
OUT.EL. 485.736

503 #14 GT. EL. 487.103
IN. EL. 483.053
OUT.EL. 482.723

504 #12 GT. EL. 483.357
IN. EL. 479.477
OUT.EL. 479.307

505 #12 GT. EL. 477.338
IN. EL. 473.458
OUT.EL. 470.000

508 JB TOP EL. 449.583
IN. EL. 446.250
OUT.EL. 440.090

510 #12 GT. EL. 487.905
OUT.EL. 481.000

511 EW INV. 480.231

520 #12 GT. EL. 483.357
OUT.EL. 479.477

521 #12 GT. EL. 477.330
IN. EL. 473.619
OUT.EL. 473.449

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 19+00 TO STA. 32+00

SCALE: 1″= 50′

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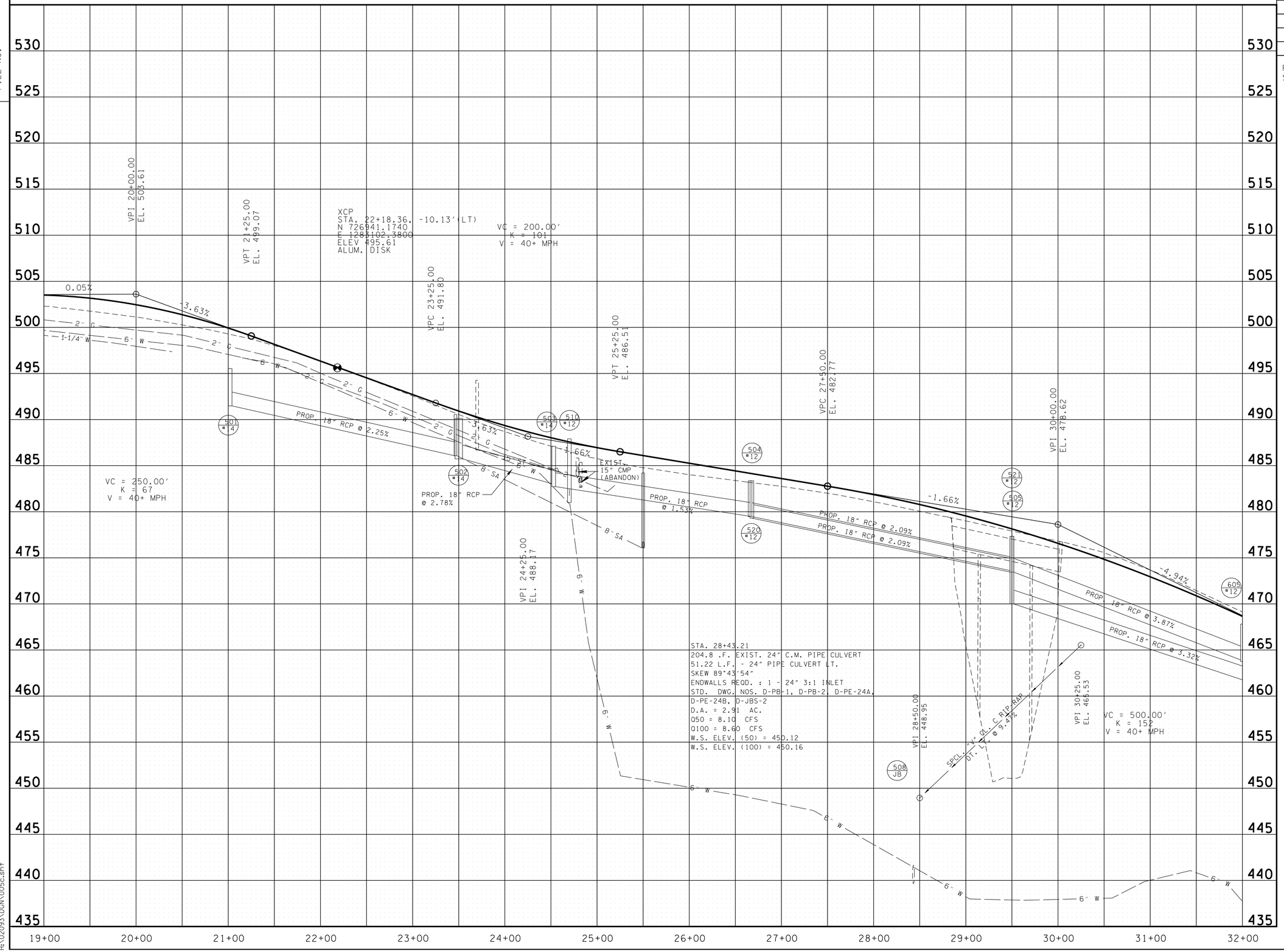
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	5C
CONST.	2017	NH-54(26)	5C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 19+00 TO STA. 32+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.	2012	NHE-54(26)	6
CONST.	2017	NH-54(26)	6

REV 06-22-12: ADDED DRIVE TO TRACT 14 & REVISED CONST. ESMT.; REMOVED PROP. R.O.W. FROM TRACT 133 & LINED THRU TRACT; ADDED PROP. CROSS DRAINS, SPECIAL DITCHES & BRIDGE

REV 07-10-12: REVISED SLOPE LINES & ADDED DITCH FLOW ARROWS LT. STA. 42+00 TO 45+00

REV 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 10, 13 & 15

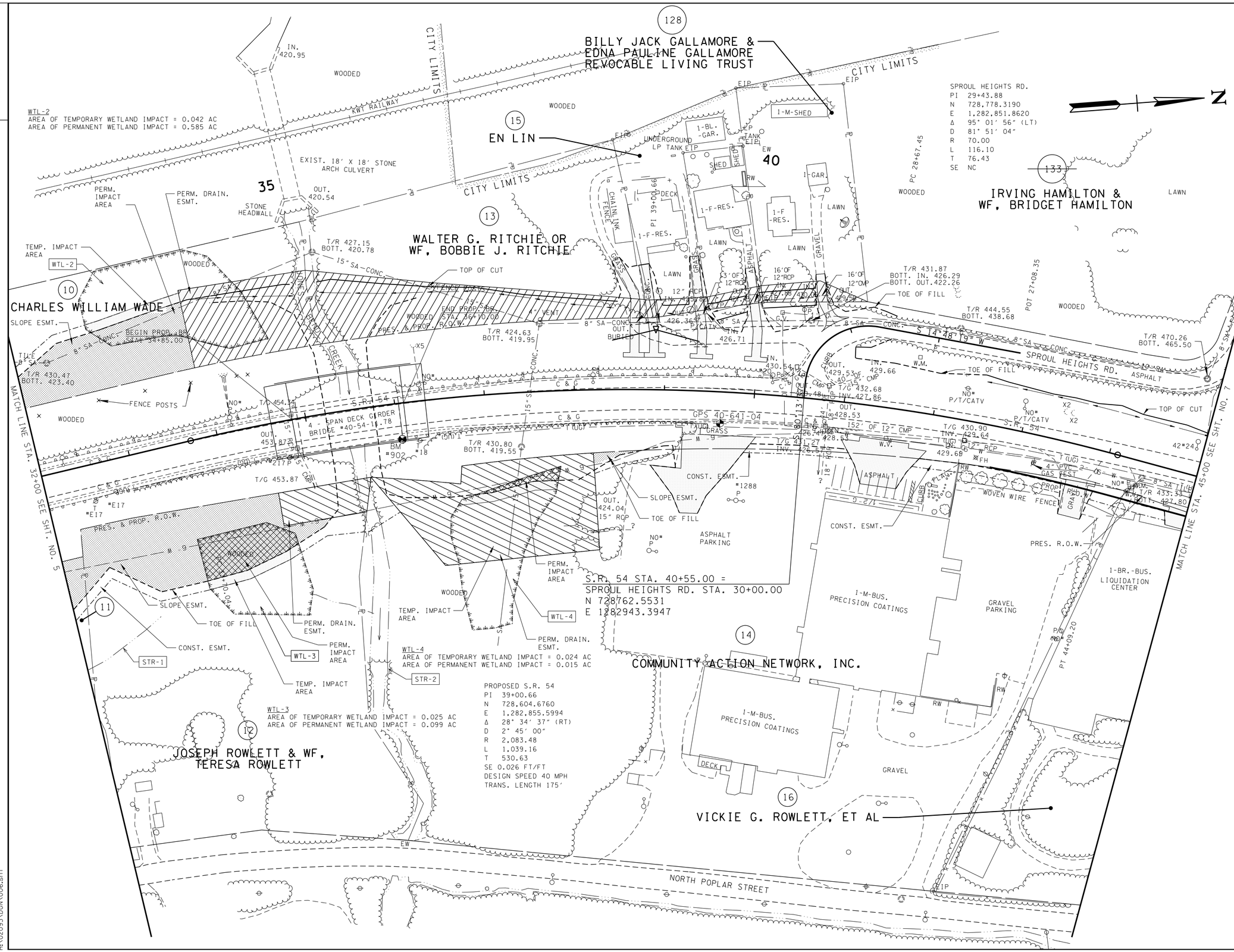
REV 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 16; REMOVED LINE THRU TRACT 128, ADDED DRAIN. ESMT. TO TRACTS 15 & 128, REVISED DITCH LT. STA. 30+50 TO 40+50, REVISED DRIVES TRACT 128

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV 11-07-13: CHANGED PROPERTY OWNER NAME TRACT 15

REV 05-20-14: CHANGED PROPERTY OWNER NAME TRACT 15

REV 06-22-16: REVISED IMPACT AREAS TO WTL-4



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
No. 102131
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 32+00 TO STA. 45+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.	2012	NHE-54(26)	6A
CONST.	2017	NH-54(26)	6A

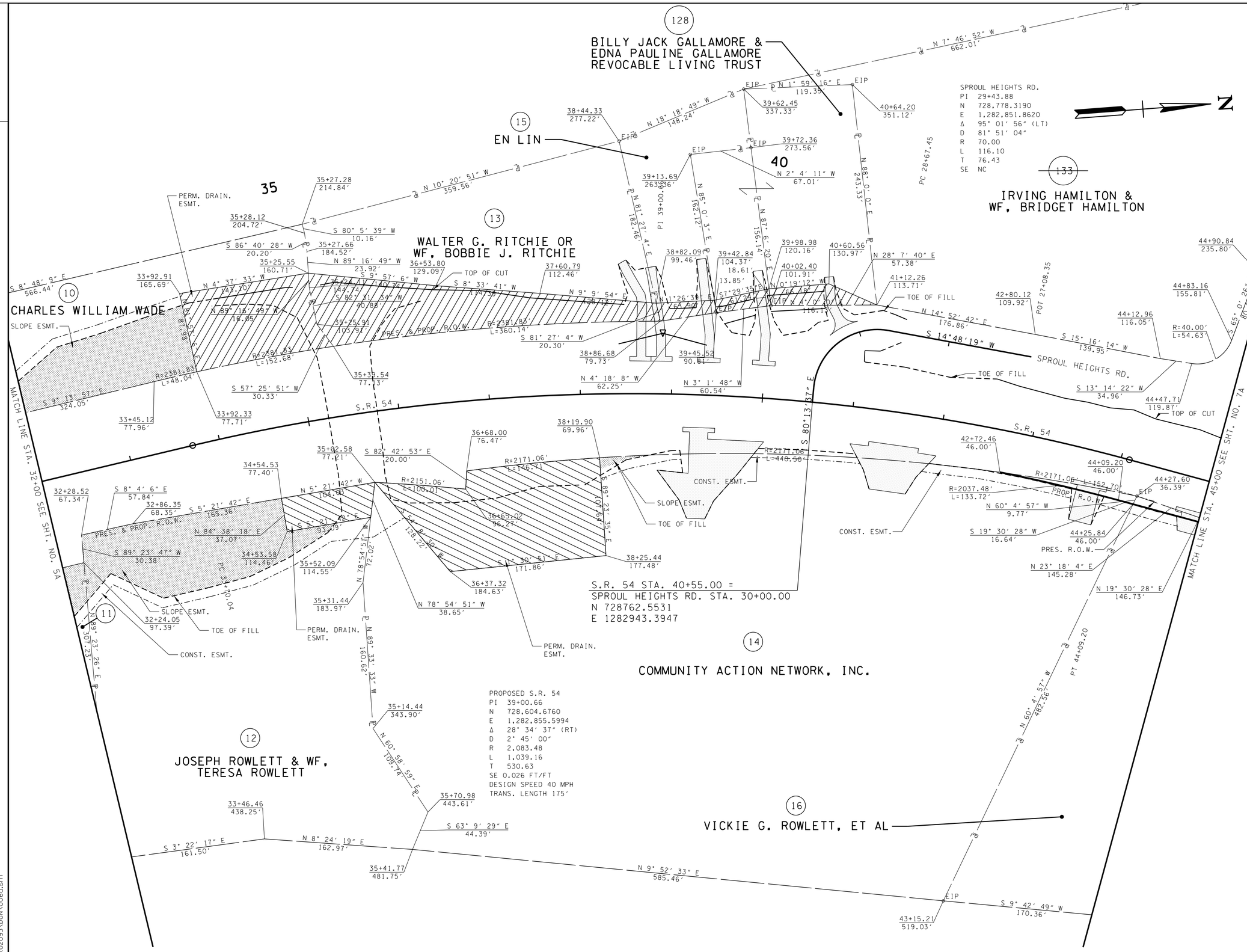
REV. 06-22-12: ADDED DRIVE TO TRACT 14 & ADJUSTED CONST. ESMT.; REMOVED PROP. R.O.W. FROM TRACT 133 & LINED THRU TRACT; CORRECTED VARIOUS PROPERTY CALLS

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 10, 13 & 15

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 16; REMOVED LINE THRU TRACT 128, ADDED DRAIN. ESMT. & PROPERTY CALLS TRACTS 15 & 128, REMOVED CONST. ESMT. TRACT 15

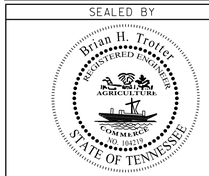
REV. 11-07-13: CHANGED PROPERTY OWNER NAME TRACT 15

REV. 05-20-14: CHANGED PROPERTY OWNER NAME TRACT 15; REVISED BEARINGS & DISTANCES TRACTS 10 & 12



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 32+00 TO STA. 45+00

SCALE: 1"= 50'

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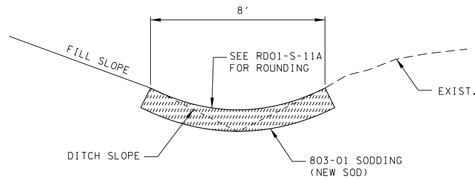
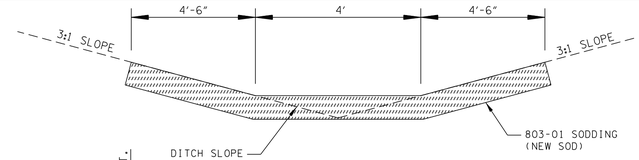
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



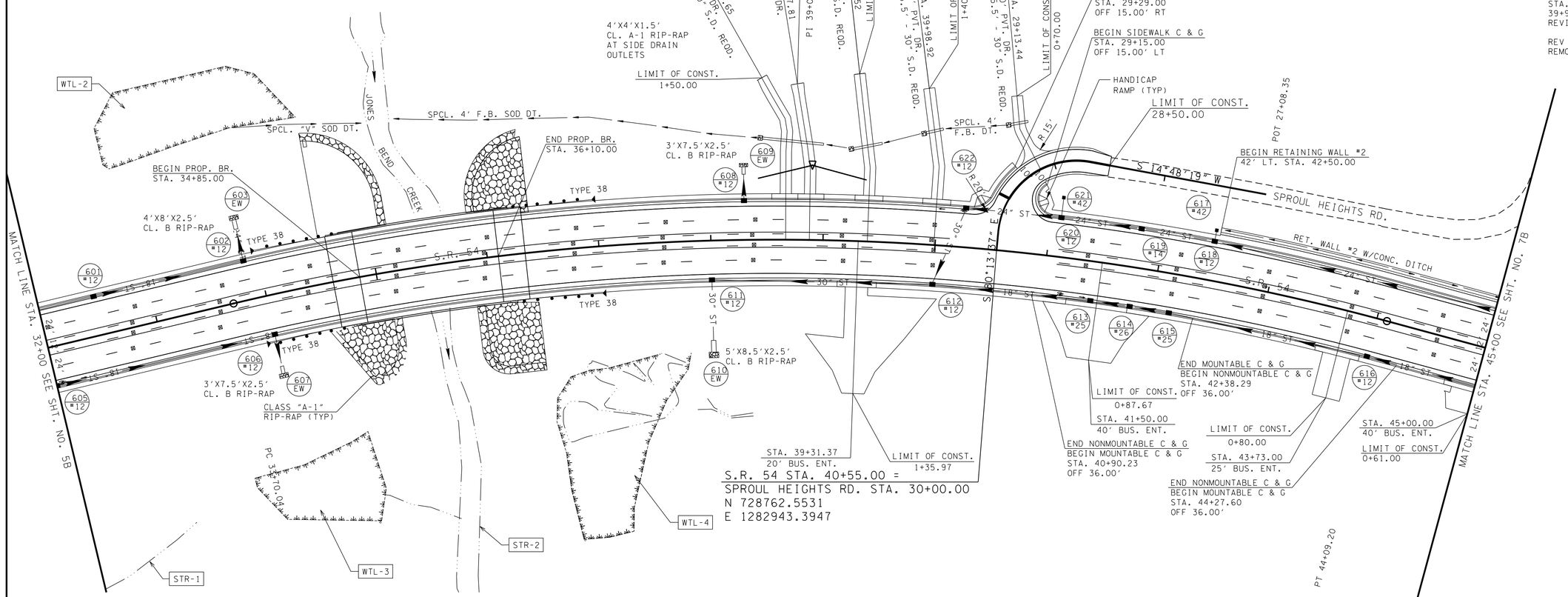
SPCL. "V" SOD DT.
S.R. 54 STA. 34+00.00 TO STA. 35+14.50 LT.



SPCL. 4' FLAT BOTT. SOD DT.
S.R. 54 STA. 35+35.63 TO STA. 40+50.00 LT.

PROPOSED S.R. 54
PI 39+00.66
N 728,604.6760
E 1,282,855.5994
Δ 28° 34' 37" (RT)
D 2° 45' 00"
R 2,083.48
L 1,039.16
T 530.63
SE 0.026 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 175'

SPROUL HEIGHTS RD.
PI 29+43.88
N 728,778.3190
E 1,282,851.8620
Δ 95° 01' 56" (LT)
D 81° 51' 04"
R 70.00
L 116.10
T 76.43
SE NC



601 #12 GT. EL. 465.493 IN. EL. 460.170 OUT.EL. 460.000	605 #12 GT. EL. 467.807 IN. EL. 463.927 OUT.EL. 463.757	608 #12 GT. EL. 439.930 OUT.EL. 436.050	610 EW INV. 424.300
602 #12 GT. EL. 459.540 IN. EL. 455.660 OUT.EL. 452.300	606 #12 GT. EL. 458.008 IN. EL. 454.128 OUT.EL. 453.958	609 EW INV. 435.025	611 #12 GT. EL. 439.348 IN. EL. 424.750 OUT.EL. 424.580
603 EW INV. 452.000	607 EW INV. 453.737		612 #12 GT. EL. 434.307 IN. EL. 426.750 IN. EL. 425.750 OUT.EL. 425.580
			613 #25 GT. EL. 432.918 IN. EL. 428.250 OUT.EL. 427.330
			614 #26 GT. EL. 432.859 IN. EL. 428.700 OUT.EL. 428.370

615 #25 GT. EL. 432.915 IN. EL. 429.035 OUT.EL. 428.865	620 #12 GT. EL. 433.166 IN. EL. 428.746 IN. EL. 427.700 OUT.EL. 427.530		
616 #12 GT. EL. 433.833 IN. EL. 429.953 OUT.EL. 429.783	621 #42 GT. EL. 432.796 OUT.EL. 429.836		
617 #42 GT. EL. 434.200 OUT.EL. 430.400	622 #12 GT. EL. 435.598 IN. EL. 427.200 OUT.EL. 427.030		
618 #12 GT. EL. 433.147 IN. EL. 429.227 IN. EL. 428.727 OUT.EL. 428.557			
619 #14 GT. EL. 432.939 IN. EL. 428.309 OUT.EL. 427.979			

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	6B
CONST.	2017	NH-54(26)	6B

REV 06-22-12: ADDED NOTES TO INDICATE LIMITS OF MOUNTABLE CURB & GUTTER; ADDED DRIVE AT STA. 39+31.37 RT.; REVISED DRIVE AT STA. 41+50 RT.

REV 07-10-12: REVISED RETAINING WALL LT. & ADDED CONC. DITCH

REV 08-10-12: ADDED RIP-RAP AT OUTLET OF PIPES STA. 38+00 RT & 38+50 LT.

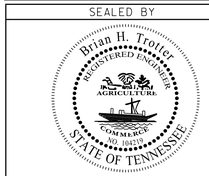
REV. 01-04-13: REVISED SIDE DRAINS LT. OF S.R. 54 & RT. OF SPROUL HEIGHTS RD.

REV. 06-03-13: REVISED SPCL. DITCH LT STA. 30+50 TO 40+50, REVISED DRIVES STA. 39+98.92 LT. & 29+13.44 SPROUL HGTS., REVISED SIDE DRAINS ALONG SPCL. DT. LT.

REV 06-22-16: REVISED STORM SEWER; REMOVED WETLAND MITIGATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 32+00 TO STA. 45+00

SCALE: 1"= 50'

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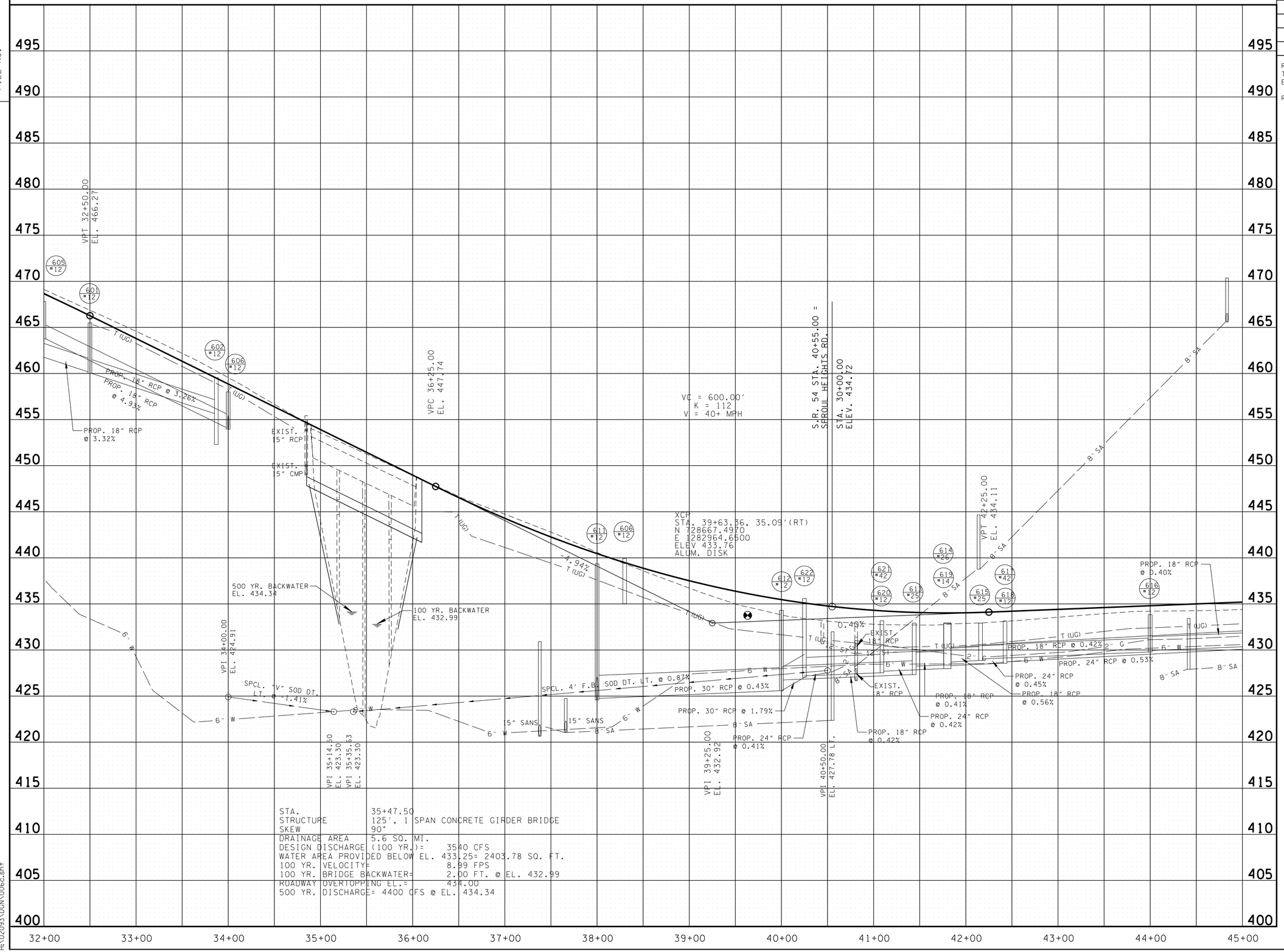
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	6C
CONST.	2017	NH-54(26)	6C

REV. 06-03-13: CHANGED SPCL. V DT. LT. TO SPCL 4' F.B. DT.. REVISED GRADE & EXTENDED TO STA. 40+50

REV 06-22-16: REVISED STORM SEWER



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CONSTRUCTABILITY
FIELD
REVIEW

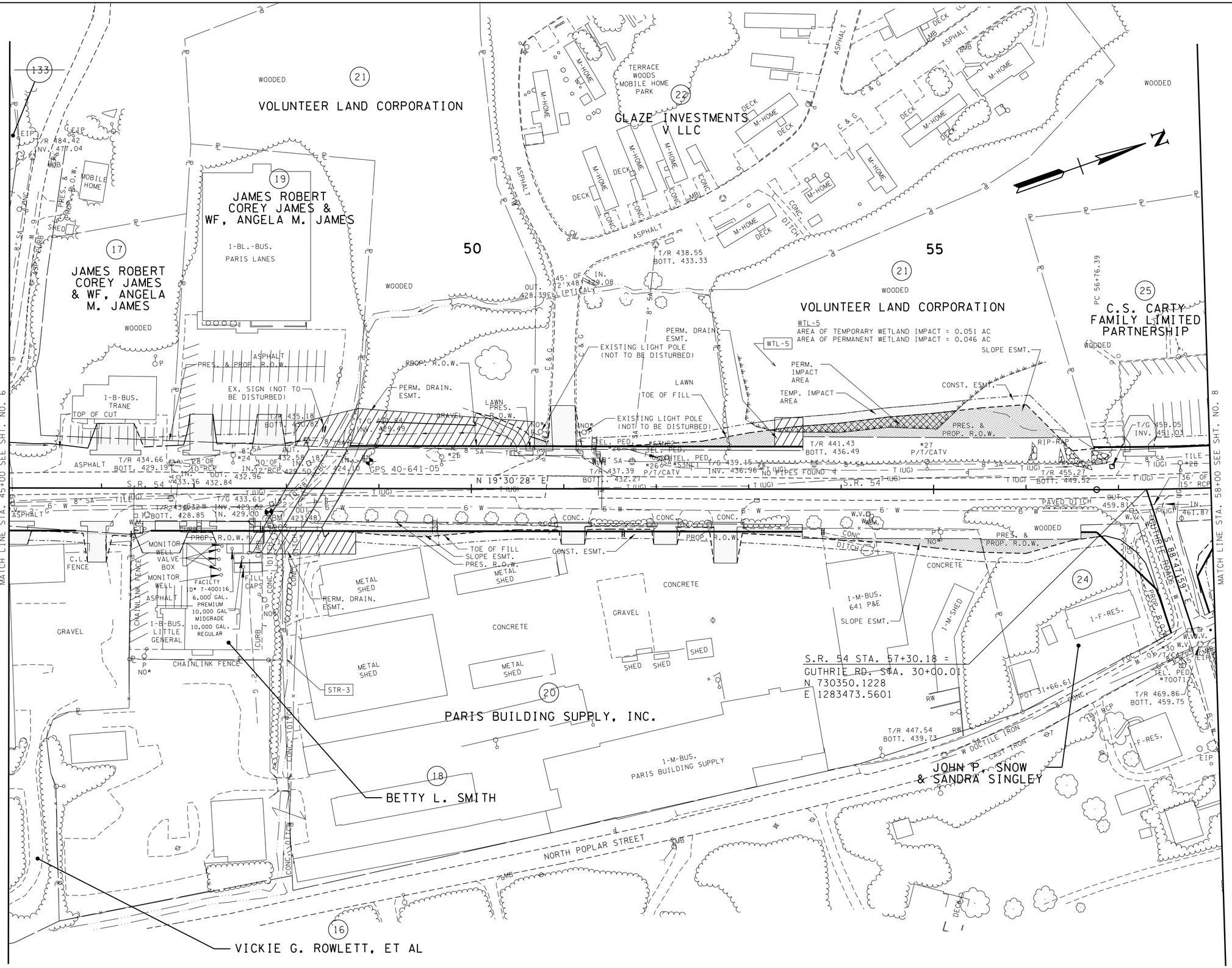
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 32+00 TO STA. 45+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	7
CONST.	2017	NH-54(26)	7

REV. 06-22-12: ADDED PARKING STRIPING TO TRACTS 17, 19 & 25; REMOVED NOTES REGARDING QUANTITY OF PARKING SPACES FROM TRACTS 17, 18, 19; ADDED NOTES TO AVOID DISTURBANCE OF EXISTING FEATURES TRACTS 19 & 22; ADDED DRIVE TRACTS 18 & 19; ADDED PROP. BRIDGE & SPECIAL DITCH; ADDED PERM. DRAIN. ESMT. TRACTS 18 & 19; REVISED PERM. DRAIN. ESMT. TRACT 20

REV. 08-10-12: ADDED DRIVE LT. STA. 57+23; ADDED DRIVE RT. STA. 47+44.53 & REVISED CONST. ESMT. TRACT 18

REV. 08-30-12: CORRECTED GUTHRIE RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 16

REV. 09-10-13: REVISED SLOPE LINES, REMOVED SLOPE ESMT. & REVISED DRAINAGE ESMT. & CONST. ESMT. TRACT 18

REV. 10-03-13: REVISED GAS LINE LOCATIONS

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102376
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 45+00 TO STA. 58+00

SCALE: 1"= 50'

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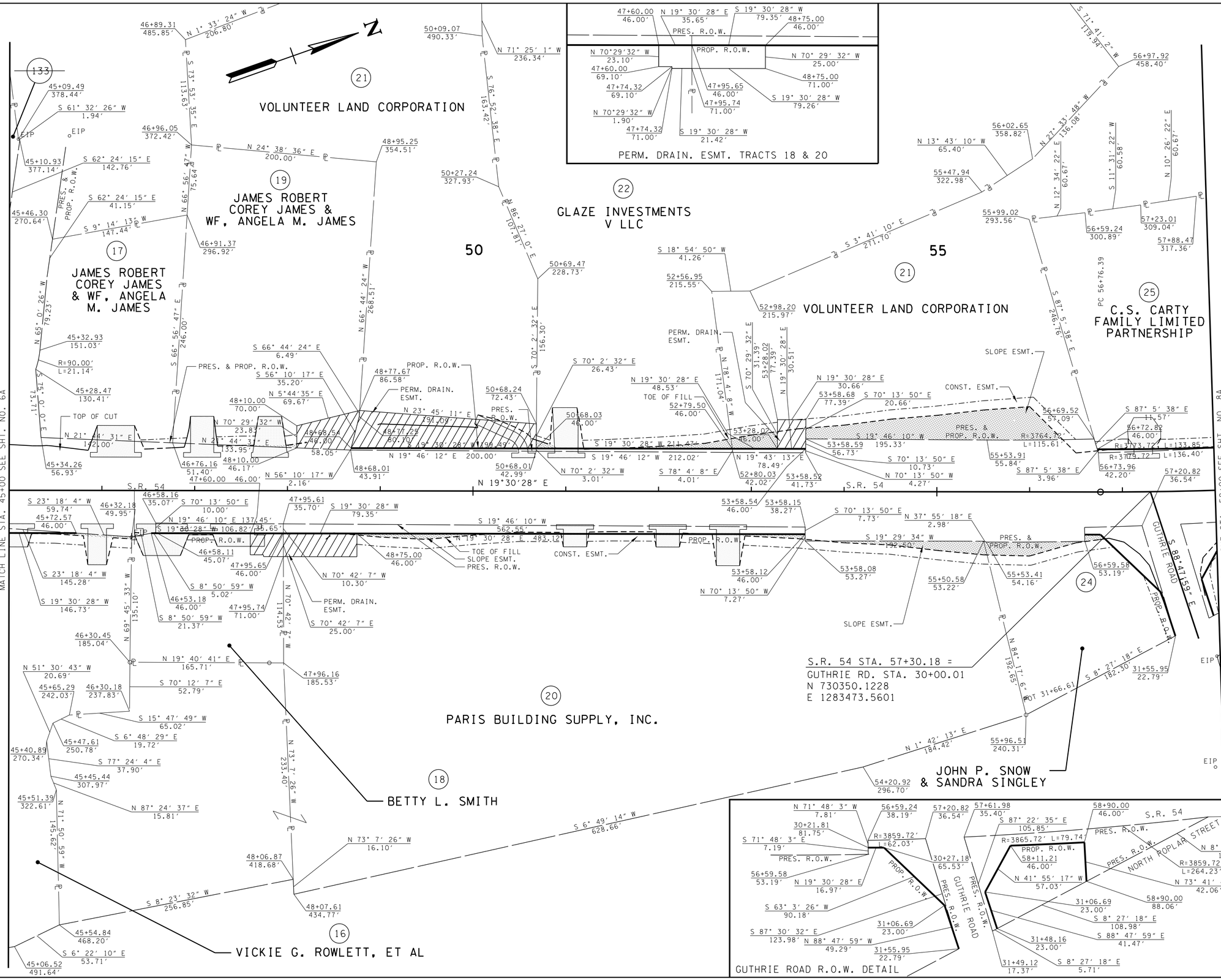
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	7A
CONST.	2017	NH-54(26)	7A

REV. 06-22-12: ADJUSTED CONST. ESMT. TRACT 19; CORRECTED VARIOUS PROPERTY CALLS; ADDED DETAIL FOR PROP. R.O.W. AT GUTHRIE ROAD; ADDED PERM. DRAIN. ESMT. TRACTS 18 & 19; ADDED DRAIN. ESMT. DETAIL TRACTS 18 & 20

REV. 08-10-12: ADDED STA/OFF AT END OF PROP. R.O.W. LT & RT NEAR STA. 58+50; ADDED DRIVE LT. STA. 57+23; ADDED DRIVE RT. STA. 47+44.53 & REVISED CONST. ESMT. TRACT 18

REV. 08-30-12: CORRECTED GUTHRIE RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV. 11-05-12: CORRECTED PROP. R.O.W. DISTANCE ON TRACT 20

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 16

REV. 09-10-13: REVISED DRAINAGE ESMT. DETAIL; REVISED DRAINAGE ESMT. & CONST. ESMT., REMOVED SLOPE ESMT. TRACT 18

REV. 10-03-13: REVISED SHEET

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 45+00 TO STA. 58+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.	2012	NHE-54(26)	7B
CONST.	2017	NH-54(26)	7B

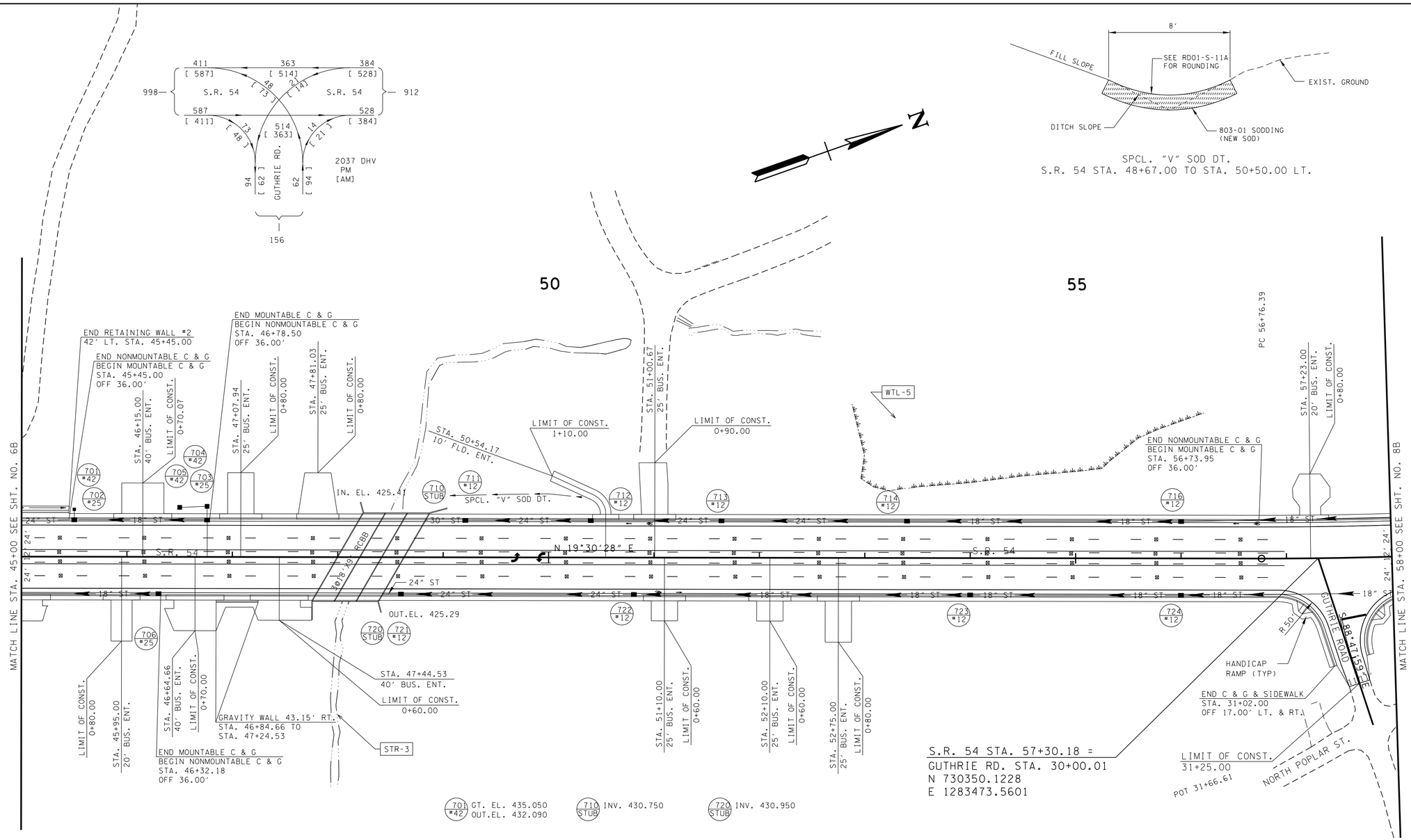
REV. 06-22-12: ADDED NOTES TO INDICATE LIMITS OF MOUNTABLE CURB AND GUTTER; ADDED DRIVES AT STA. 46+64.66 RT. & 47+81.03 LT.; REPLACED SPAN BRIDGE WITH BOX BRIDGE AT STA. 48+31

REV. 08-10-12: ADDED DRIVE RT. STA. 47+44.53; ADDED DRIVE LT. STA. 57+23; ADDED RIP-RAP AT OUTLETS STA. 49+25 LT. & STA. 53+50 LT.

REV. 08-30-12: CORRECTED GUTHRIE RD. STATION & COORDINATES AT ALIGNEMNT CROSSING

REV. 09-10-13: ADDED GRAVITY RETAINING WALL STA. 46+84.66 TO STA. 47+24.53 RT.

REV 06-22-16: REVISED STORM SEWER; REMOVED WETLAND MITIGATION



701 #42 GT. EL. 435.050 OUT.EL. 432.090	710 STUB INV. 430.750	720 STUB INV. 430.950
702 #25 GT. EL. 434.548 IN. EL. 430.668 IN. EL. 430.5084 OUT.EL. 430.338	711 #12 GT. EL. 435.939 IN. EL. 431.250 OUT.EL. 430.979	721 #12 GT. EL. 436.697 IN. EL. 431.277 OUT.EL. 431.107
703 #25 GT. EL. 435.048 IN. EL. 431.168 OUT.EL. 430.998	712 #12 GT. EL. 436.411 IN. EL. 431.991 OUT.EL. 431.821	722 #12 GT. EL. 436.573 IN. EL. 432.693 OUT.EL. 432.153
704 #42 GT. EL. 434.830 IN. EL. 431.870 OUT.EL. 431.750	713 #12 GT. EL. 437.152 IN. EL. 432.732 OUT.EL. 432.562	723 #12 GT. EL. 443.327 IN. EL. 439.447 OUT.EL. 439.277
705 #42 GT. EL. 435.400 OUT.EL. 432.440	714 #12 GT. EL. 441.113 IN. EL. 437.233 OUT.EL. 436.693	724 #12 GT. EL. 453.939 IN. EL. 450.059 OUT.EL. 449.889
706 #25 GT. EL. 434.745 OUT.EL. 430.865	716 #12 GT. EL. 453.878 IN. EL. 449.998 OUT.EL. 449.828	

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104237
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 45+00 TO STA. 58+00

SCALE: 1"= 50'

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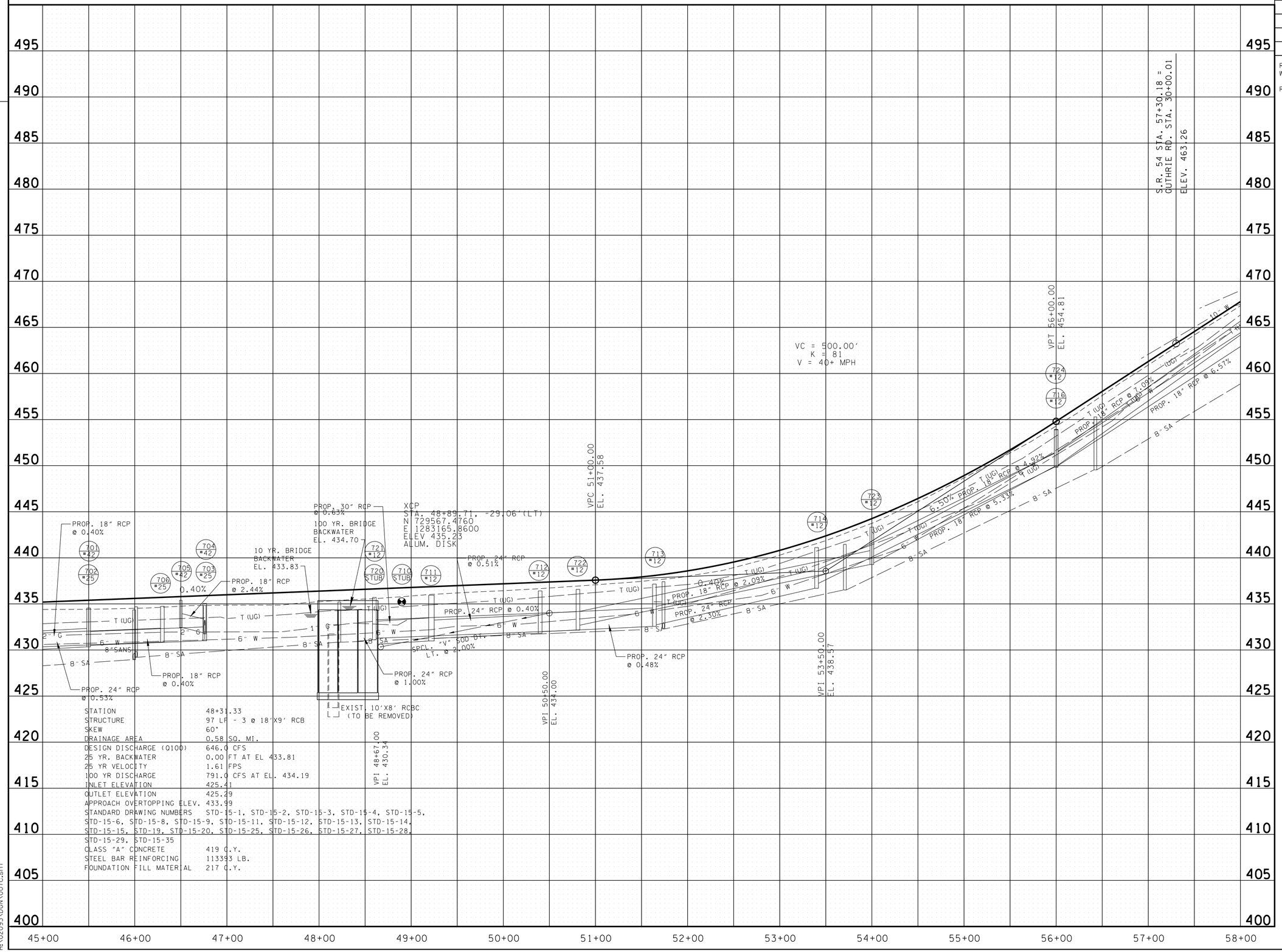
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	7C
CONST.	2017	NH-54(26)	7C

REV. 06-22-12: REPLACED SPAN BRIDGE WITH TRIPLE BOX BRIDGE AT STA. 48+31

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102111
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 45+00 TO STA. 58+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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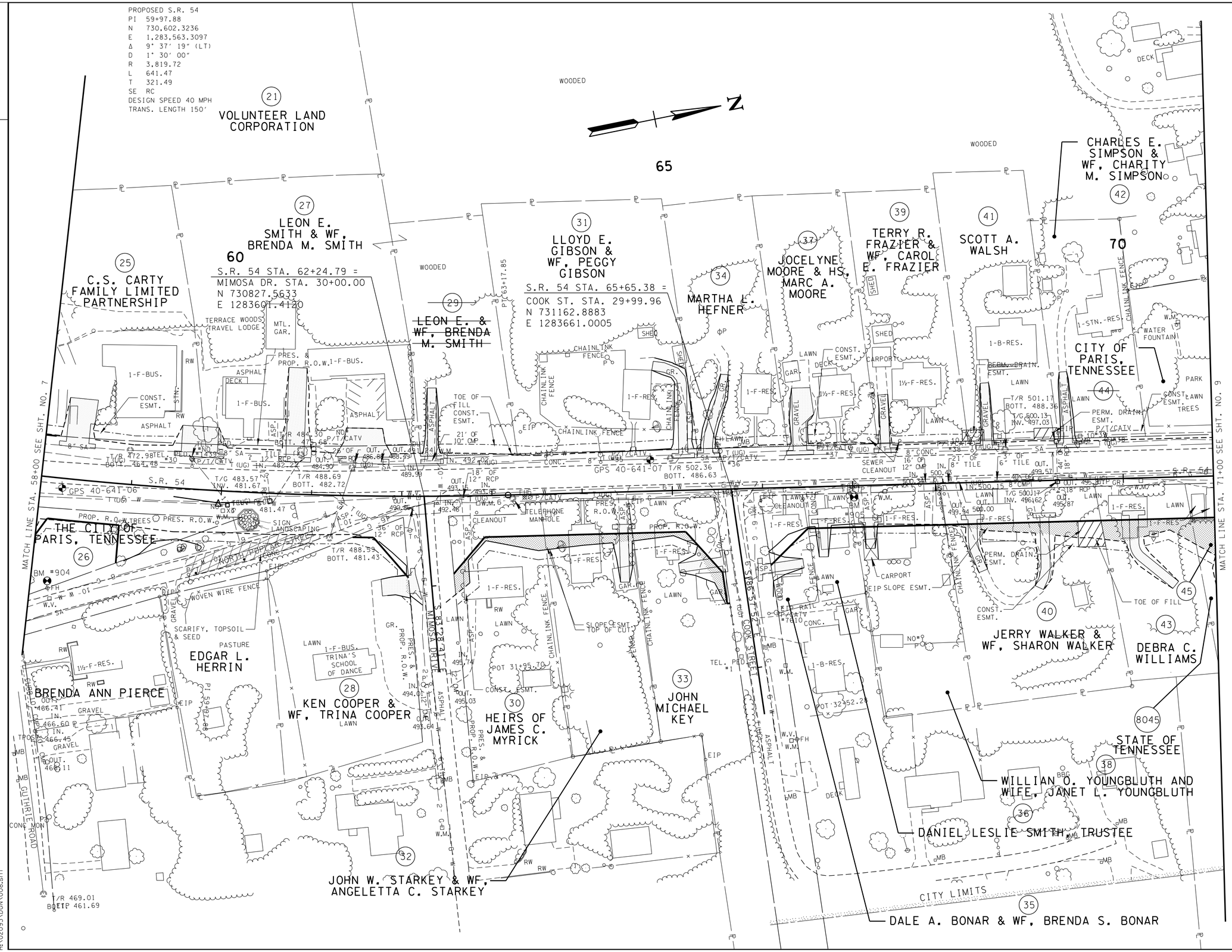
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8
CONST.	2017	NH-54(26)	8

REV. 06-22-12: ADDED DRIVE TO TRACT 28; UPDATED TOPO TRACT 25; COMBINED TRACTS 27 & 29, LINED THRU TRACT 29; ADDED PROP. CROSS DRAIN

REV. 08-30-12: CORRECTED COOK ST STATION & COORDINATES AT ALIGNMENT CROSSING

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 30

REV. 10-03-13: REVISED GAS LINE LOCATIONS

REV. 05-20-14: ADDED TRACT 8045

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102370
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 58+00 TO STA. 71+00

SCALE: 1"= 50'

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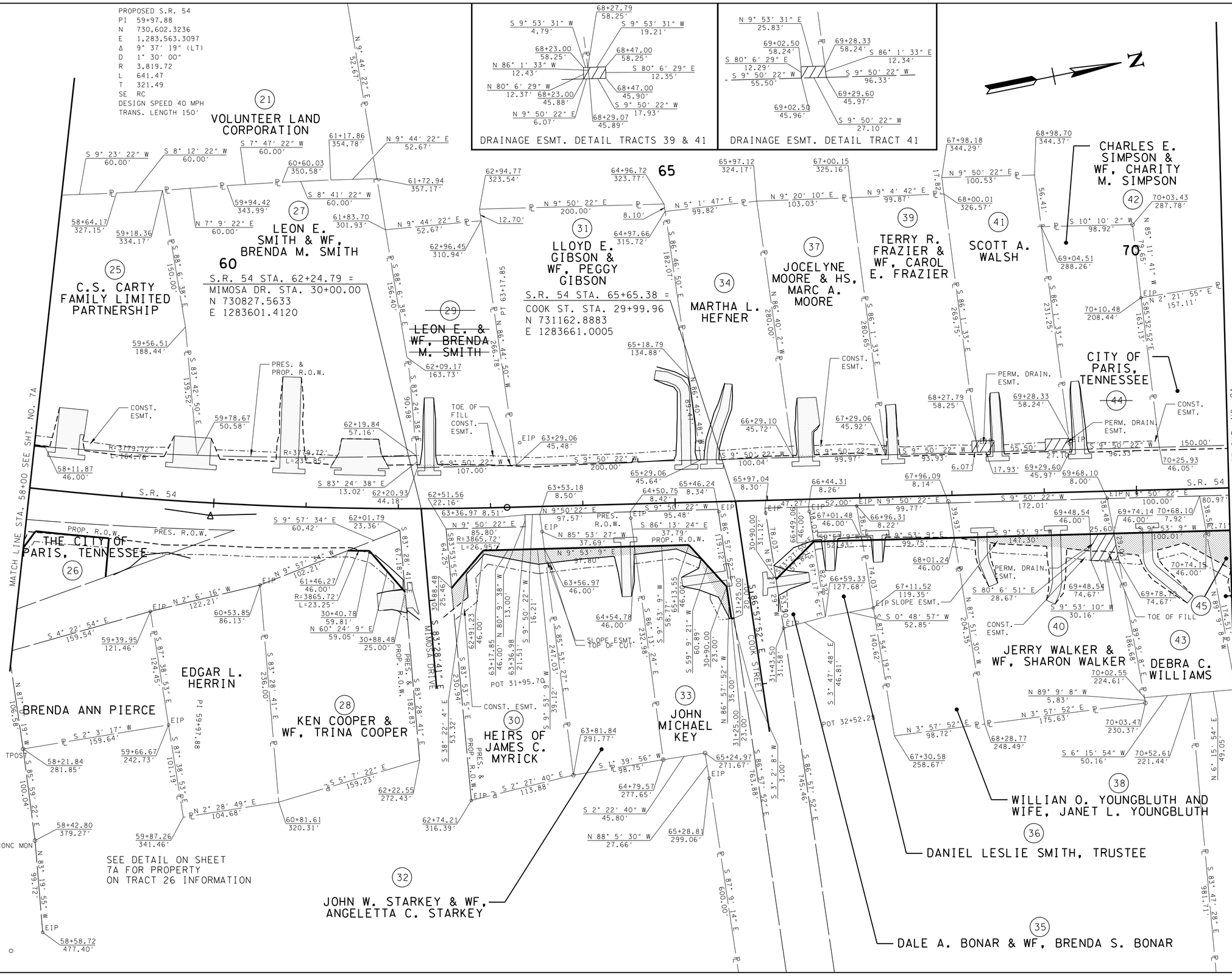
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROPOSED S.R. 54
PI 59+97.88
N 730,602.3236
E 1,283,563.3097
Δ 9° 37' 19" (LT)
D 1° 30' 00"
R 3,819.72
L 641.47
T 321.49
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8A
CONST.	2017	NH-54(26)	8A

REV. 06-22-12: COMBINED TRACTS 27 & 29, LINED THRU TRACT 29; CORRECTED VARIOUS PROPERTY CALLS; ADDED DRAINAGE ESMT. DETAILS FOR TRACTS 39 & 41

REV. 08-10-12: ADDED RAD/LEN AT PROP. R.O.W. TRACT 30 & ADDED BEAR/DIST AT EXIST. R.O.W. SOUTH OF COOK ST.

REV. 08-30-12: CORRECTED COOK ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 30

REV. 05-20-14: ADDED TRACT 8045

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Troter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 58+00 TO STA. 71+00

SCALE: 1"= 50'

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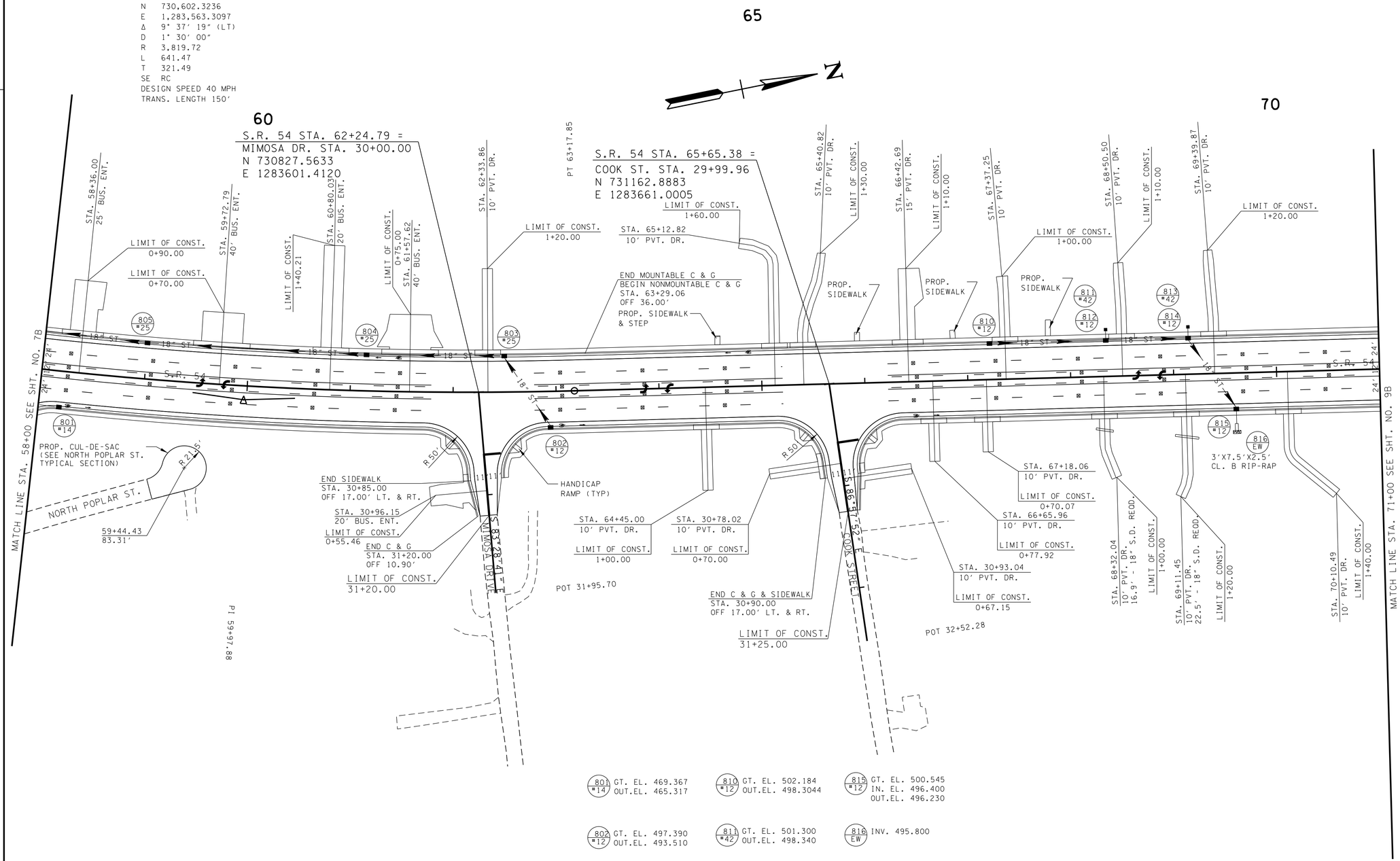
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROPOSED S.R. 54
PI 59+97.88
N 730,602.3236
E 1,283,563.3097
Δ 9° 37′ 19″ (LT)
D 1° 30′ 00″
R 3,819.72
L 641.47
T 321.49
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150′



801 #14	GT. EL. 469.367 OUT.EL. 465.317	
802 #12	GT. EL. 497.390 OUT.EL. 493.510	
803 #25	GT. EL. 494.723 IN. EL. 490.843 OUT.EL. 490.673	
804 #25	GT. EL. 487.321 IN. EL. 483.441 OUT.EL. 483.271	
805 #25	GT. EL. 473.363 IN. EL. 469.483 OUT.EL. 469.313	
810 #12	GT. EL. 502.184 OUT.EL. 498.3044	
811 #42	GT. EL. 501.300 OUT.EL. 498.340	
812 #12	GT. EL. 501.406 IN. EL. 497.526 IN. EL. 497.526 OUT.EL. 497.356	
813 #42	GT. EL. 500.500 OUT.EL. 497.540	
814 #12	GT. EL. 500.855 IN. EL. 496.975 IN. EL. 496.975 OUT.EL. 496.805	
815 #12	GT. EL. 500.545 IN. EL. 496.400 OUT.EL. 496.230	
816 EW	INV. 495.800	

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8B
CONST.	2017	NH-54(26)	8B

REV 06-22-12: ADDED NOTES TO INDICATE LIMITS OF MOUNTABLE CURB & GUTTER; ADDED REVISED DRIVE STA. 61+57.62 LT.; ADDED DRIVE STA. 30+96.15 MIMOSA DR.

REV 08-10-12: ADDED RIP-RAP AT OUTLET STA. 69+50 RT.

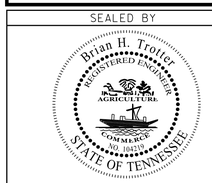
REV 08-30-12: CORRECTED COOK ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 01-04-13: ADDED SIDEWALK CONNECTIONS LT. OF S.R. 54 & REVISED SIDE DRAINS RT. OF S.R. 54 AT STA. 68+32.04 & 69+11.45

REV 06-22-16: REVISED STORM SEWER

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 58+00 TO STA. 71+00

SCALE: 1″= 50′

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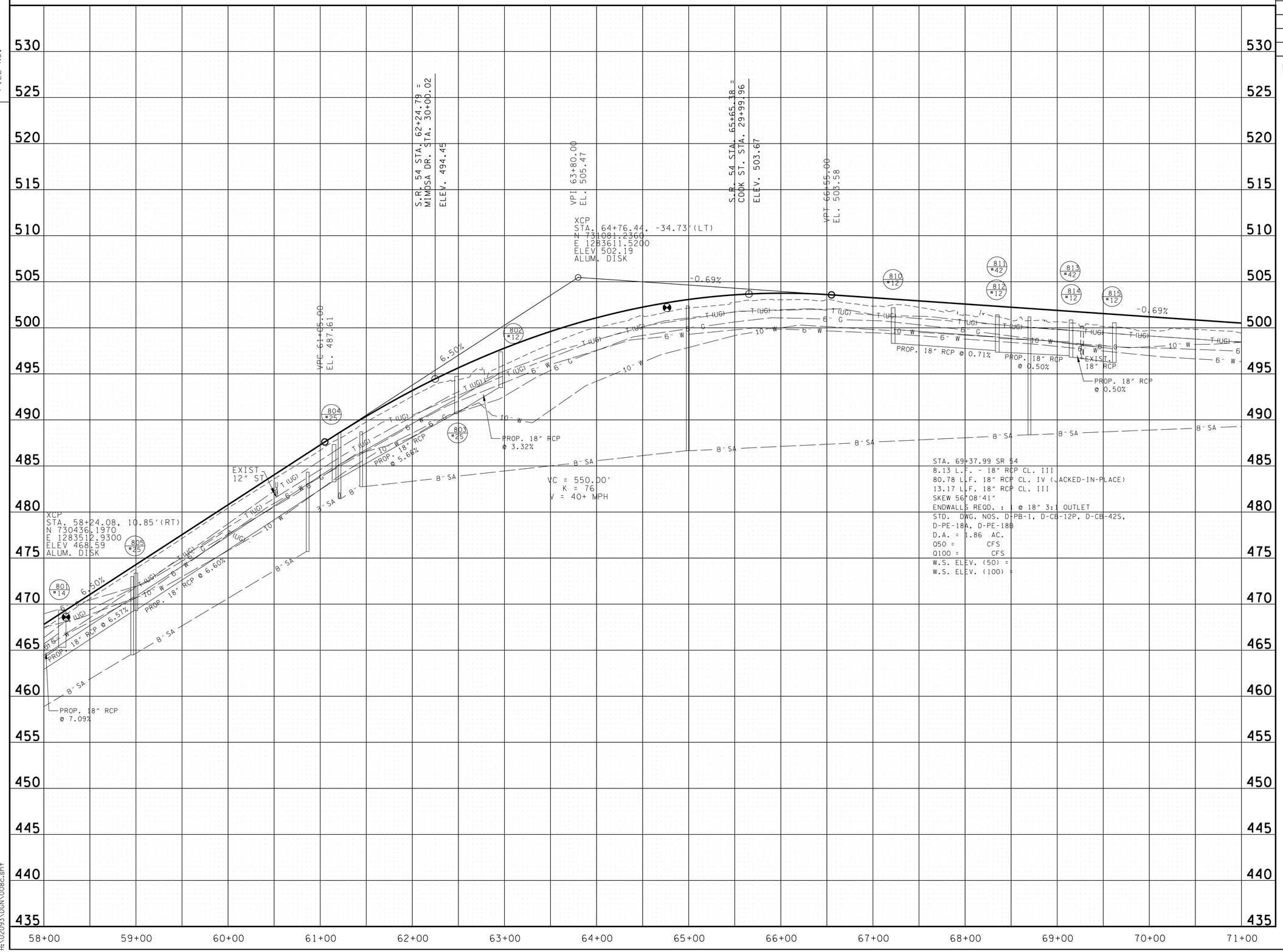
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

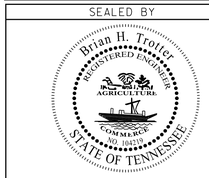
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8C
CONST.	2017	NH-54(26)	8C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 58+00 TO STA. 71+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

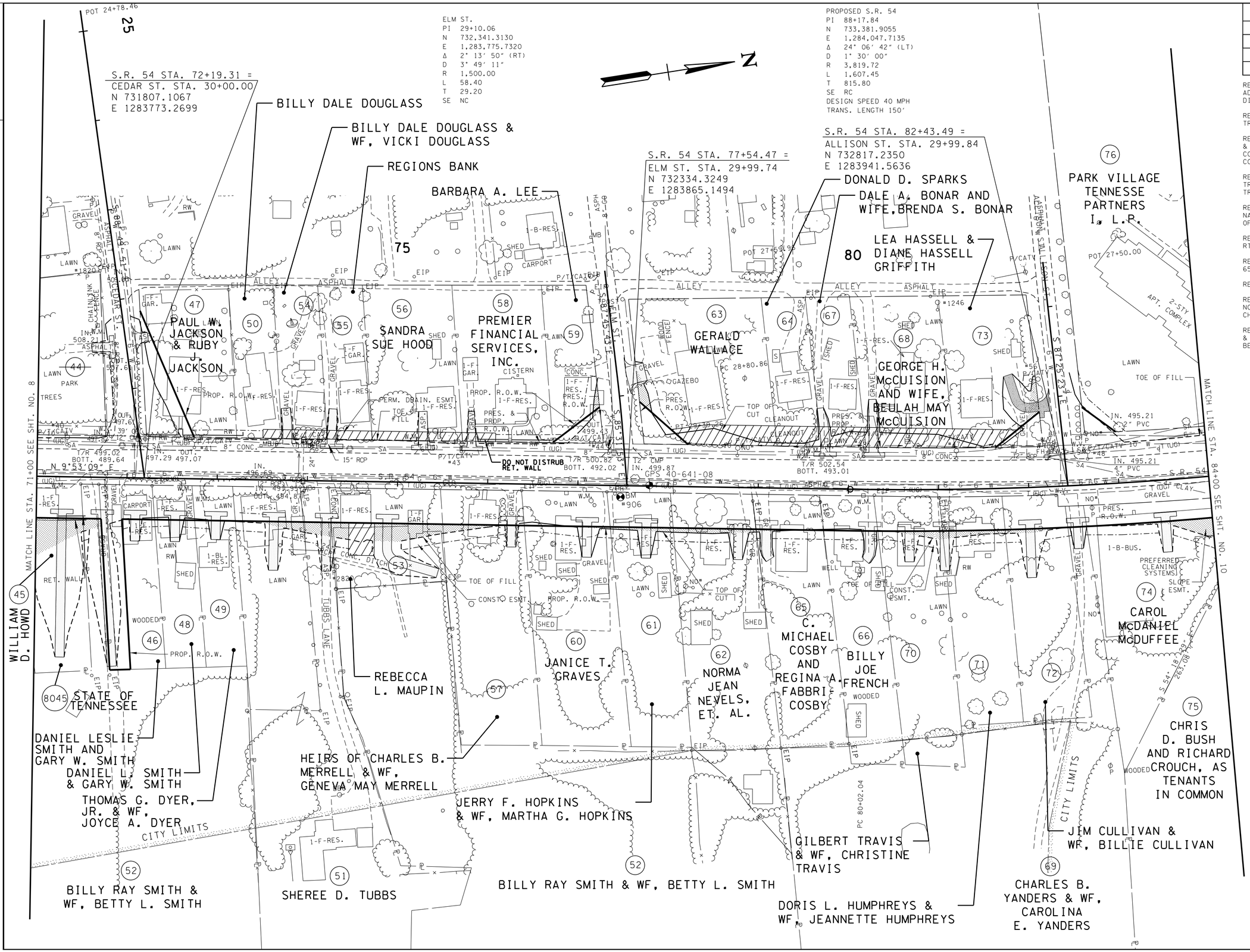
ELM ST.
PI 29+10.06
N 732,341.3130
E 1,283,775.7320
Δ 2° 13' 50" (RT)
D 3° 49' 11"
R 1,500.00
L 58.40
T 29.20
SE NC

PROPOSED S.R. 54
PI 88+17.84
N 733,381.9055
E 1,284,047.7135
Δ 24° 06' 42" (LT)
D 1° 30' 00"
R 3,819.72
L 1,607.45
T 815.80
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150'

S.R. 54 STA. 72+19.31 =
CEDAR ST. STA. 30+00.00
N 731807.1067
E 1283773.2699

S.R. 54 STA. 77+54.47 =
ELM ST. STA. 29+99.74
N 732334.3249
E 1283865.1494

S.R. 54 STA. 82+43.49 =
ALLISON ST. STA. 29+99.84
N 732817.2350
E 1283941.5636



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9
CONST.	2017	NH-54(26)	9

REV 06-22-12: ADDED TRACT 45 INFO; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 53

REV 08-30-12: CORRECTED ELM ST STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACT 63; REVISED PROPERTY LINES ON TRACTS 62, 65, 66, 70, 71 & 72

REV 06-03-13: CHANGED PROPERTY OWNER NAME TRACTS 48, 55 & 57; ADJUSTED LENGTH OF DRIVES RT TRACTS 45, 49 & 53

REV 07-08-13: ADJUSTED LENGTH OF DRIVE RT TRACT 49

REV 09-10-13: UPDATED TOPO TRACTS 62, 65, 66, 70, 71 & 72

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV 05-20-14: ADDED TRACT 8045; REVISED NORTHEAST PROPERTY LINE TRACT 69/75; CHANGED PROPERTY OWNER NAME TRACT 58

REV 08-01-14: REVISED DRIVES TRACTS 65 & 66 AND REVISED CONST. ESMT. TO 10' BEHIND PROP. ROW LINE

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102276
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 71+00 TO STA. 84+00

SCALE: 1"= 50'

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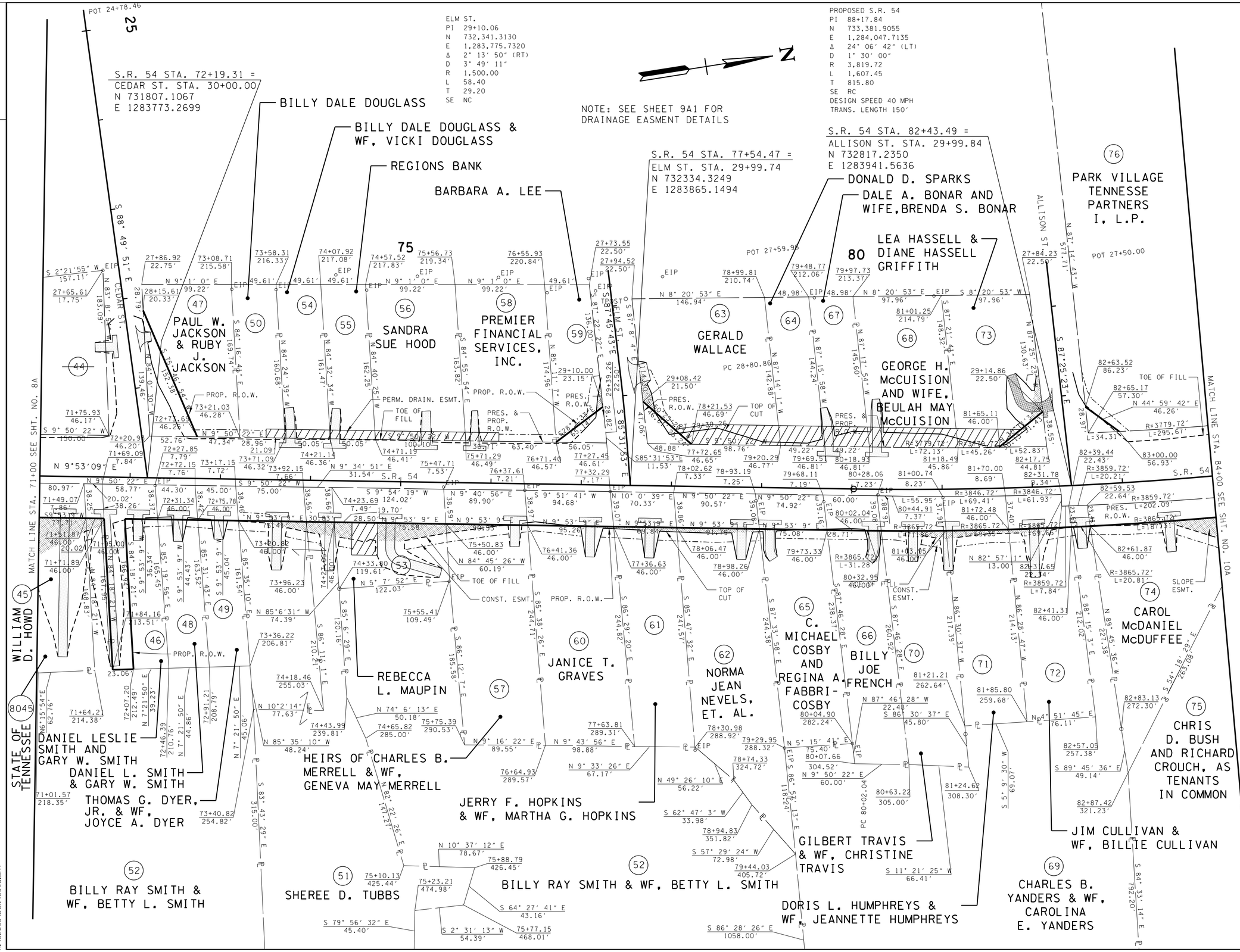
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9A
CONST.	2017	NH-54(26)	9A

REV. 06-22-12: CORRECTED VARIOUS PROPERTY CALLS; ADDED NOTE FOR DETAIL SHEET 9A1 TO LABEL DRAINAGE ESMTS FROM THIS PAGE

REV. 08-10-12: ADDED BEAR/DIST & STA/OFF AT EXIST. R.O.W. SOUTH OF ELM ST.; ADDED DIST ON BOTH SIDES OF TRACT 69 AT PROP. R.O.W.; REVISED DRAIN. ESMT. TRACT 53

REV. 08-30-12: CORRECTED ELM ST. STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV. 11-05-12: CHANGED OWNER NAME TRACT 63; REVISED PROPERTY LINES & R.O.W. CALLS TRACTS 62, 65, 66, 70, 71 & 72

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACTS 48, 55 & 57; ADJUSTED LENGTH OF DRIVES RT. TRACTS 45, 49 & 53

REV. 07-08-13: ADJUSTED LENGTH OF DRIVE RT. TRACT 49

REV. 09-10-13: ADDED STA-OFF ON PRES. R.O.W. RT. STA. 80+44±

REV. 10-03-13: REVISED SHEET

REV. 05-20-14: ADDED TRACT 8045; REVISED NORTHEAST PROPERTY LINE TRACT 69/75; CHANGED PROPERTY OWNER NAME TRACT 58; ADDED STA/OFFSET CALL TO SOUTHEAST CORNER OF TRACT 8045

REV. 08-01-14: REVISED DRIVES TRACTS 65 & 66 AND REVISED CONST. ESMT. TO 10' BEHIND PROP. ROW LINE

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE NO. 102251
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 71+00 TO STA. 84+00

SCALE: 1"= 50'

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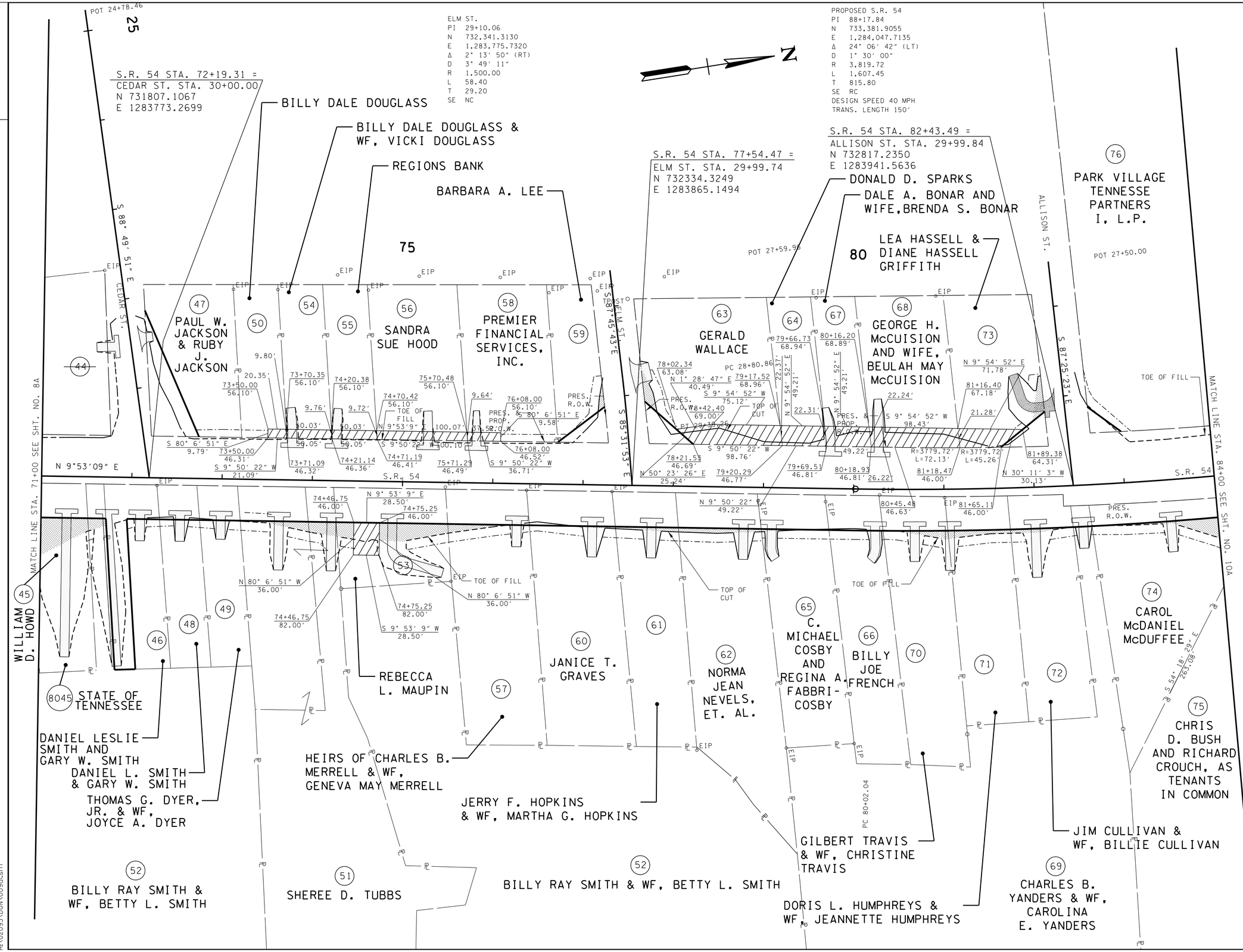
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9A1
CONST.	2017	NH-54(26)	9A1

REV. 06-22-12: ADDED SHEET

REV. 08-10-12: ADDED DISTANCES AT PROPERTY LINES INSIDE DRAIN. ESMTS.; REMOVED NOTE NEAR NORTH ARROW; REVISED DRAIN. ESMT. TRACT 53

REV. 08-30-12: CORRECTED ELM ST. STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV. 11-05-12: CHANGED OWNER NAME TRACT 63; REVISED PROPERTY LINES TRACTS 62, 65, 66, 70, 71 & 72

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACTS 48, 55 & 57; ADJSUTED LENGTH OF DRIVES RT. TRACTS 45, 49 & 53

REV. 07-08-13: ADJUSTED LENGTH OF DRIVE RT. TRACT 49

REV. 05-20-14: ADDED TRACT 8045; REVISED NORTHEAST PROPERTY LINE TRACT 69/75; CHANGED PROPERTY OWNER NAME TRACT 58

REV 08-01-14: REVISED DRIVES TRACTS 65 & 66 AND REVISED CONST. ESMT. TO 10' BEHIND PROP. ROW LINE

CONSTRUCTABILITY FIELD REVIEW

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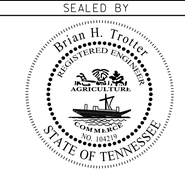

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE EASEMENT DETAILS

SCALE: 1"= 50'

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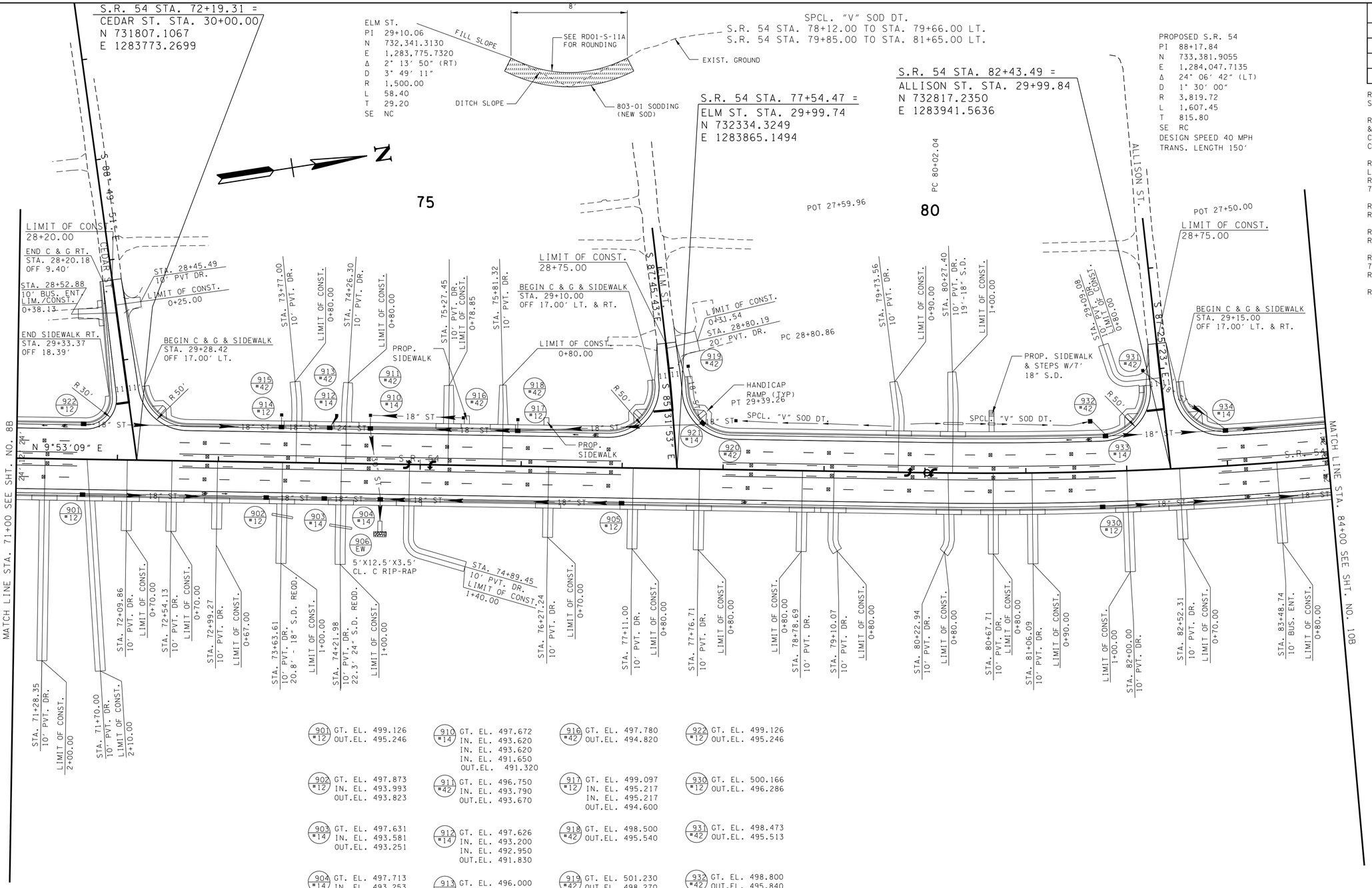
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



901 #12	GT. EL. 499.126 OUT.EL. 495.246
902 #12	GT. EL. 497.873 IN. EL. 493.993 OUT.EL. 493.823
903 #14	GT. EL. 497.631 IN. EL. 493.581 OUT.EL. 493.251
904 #14	GT. EL. 497.713 IN. EL. 493.253 IN. EL. 493.000 IN. EL. 491.000 OUT.EL. 490.670
905 #12	GT. EL. 500.474 OUT.EL. 496.590
906 EW	INV. 489.967

910 #14	GT. EL. 497.672 IN. EL. 493.620 IN. EL. 493.620 IN. EL. 491.650 OUT.EL. 491.320
911 #42	GT. EL. 496.750 IN. EL. 493.790 OUT.EL. 493.670
912 #14	GT. EL. 497.626 IN. EL. 493.200 IN. EL. 492.950 OUT.EL. 491.830
913 #42	GT. EL. 496.000 OUT.EL. 493.040
914 #12	GT. EL. 497.783 IN. EL. 493.903 IN. EL. 493.903 OUT.EL. 493.400
915 #42	GT. EL. 497.500 OUT.EL. 494.540

916 #42	GT. EL. 497.780 OUT.EL. 494.820
917 #12	GT. EL. 499.097 IN. EL. 495.217 IN. EL. 495.217 OUT.EL. 494.600
918 #42	GT. EL. 498.500 OUT.EL. 495.540
919 #42	GT. EL. 501.230 OUT.EL. 498.270
920 #42	GT. EL. 501.000 OUT.EL. 498.040
921 #14	GT. EL. 501.232 IN. EL. 497.182 IN. EL. 497.182 OUT.EL. 496.852

922 #12	GT. EL. 499.126 OUT.EL. 495.246
930 #12	GT. EL. 500.166 OUT.EL. 496.286
931 #42	GT. EL. 498.473 OUT.EL. 495.513
932 #42	GT. EL. 498.800 OUT.EL. 495.840
933 #14	GT. EL. 498.810 IN. EL. 494.760 OUT.EL. 494.430
934 #14	GT. EL. 495.080 IN. EL. 491.300 IN. EL. 491.030 OUT.EL. 490.700

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9B
CONST.	2017	NH-54(26)	9B

REV 08-10-12: ADDED RIP-RAP AT OUTLET STA. 75+50 RT.

REV 08-30-12: CORRECTED ELM ST. STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 01-04-13: ADDED SIDEWALK CONNECTIONS LT. AT STA. 75+45.5, 76+24.24 & 80+66; REVISED SIDE DRAINS AT STA. 73+63.61 & 74+21.98 RT. & STA. 80+27.40 LT.

REV 06-03-13: ADJUSTED LENGTHS OF DRIVES RT. STA. 71+28.35, 72+99.27 & 74+89.45

REV 07-08-13: ADJUSTED LENGTH OF DRIVE RT. STA. 72+99.27

REV 08-01-14: REMOVED DRIVES RT. STA. 79+16.65 & STA. 79+99.30; ADDED DRIVES RT. STA. 79+10.07 & STA. 80+22.94

REV 06-22-16: REVISED STORM SEWER

CONSTRUCTABILITY FIELD REVIEW

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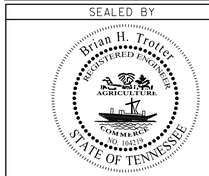

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 71+00 TO STA. 84+00

SCALE: 1"= 50′

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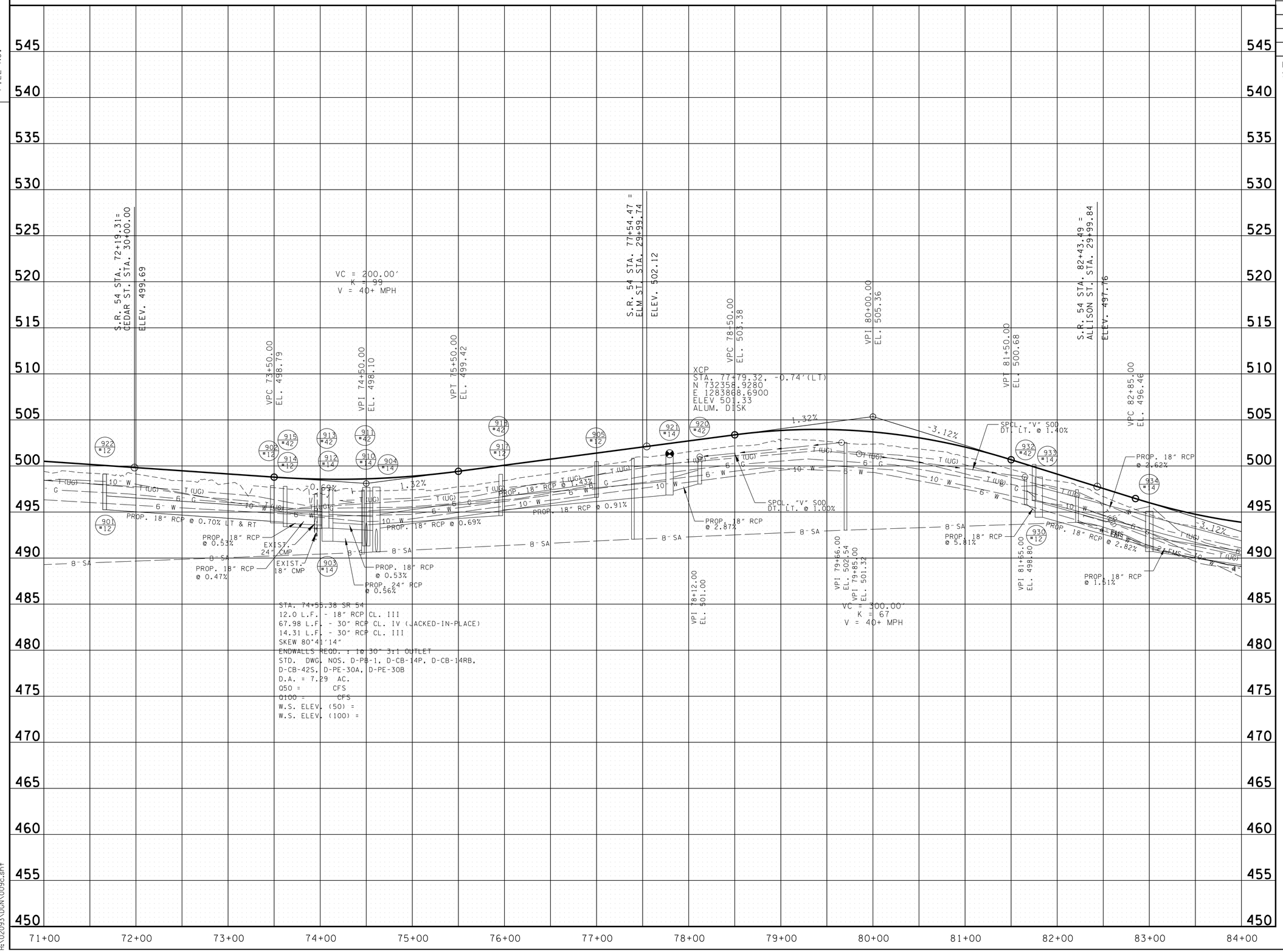
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

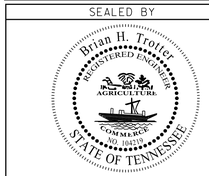
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9C
CONST.	2017	NH-54(26)	9C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 71+00 TO STA. 84+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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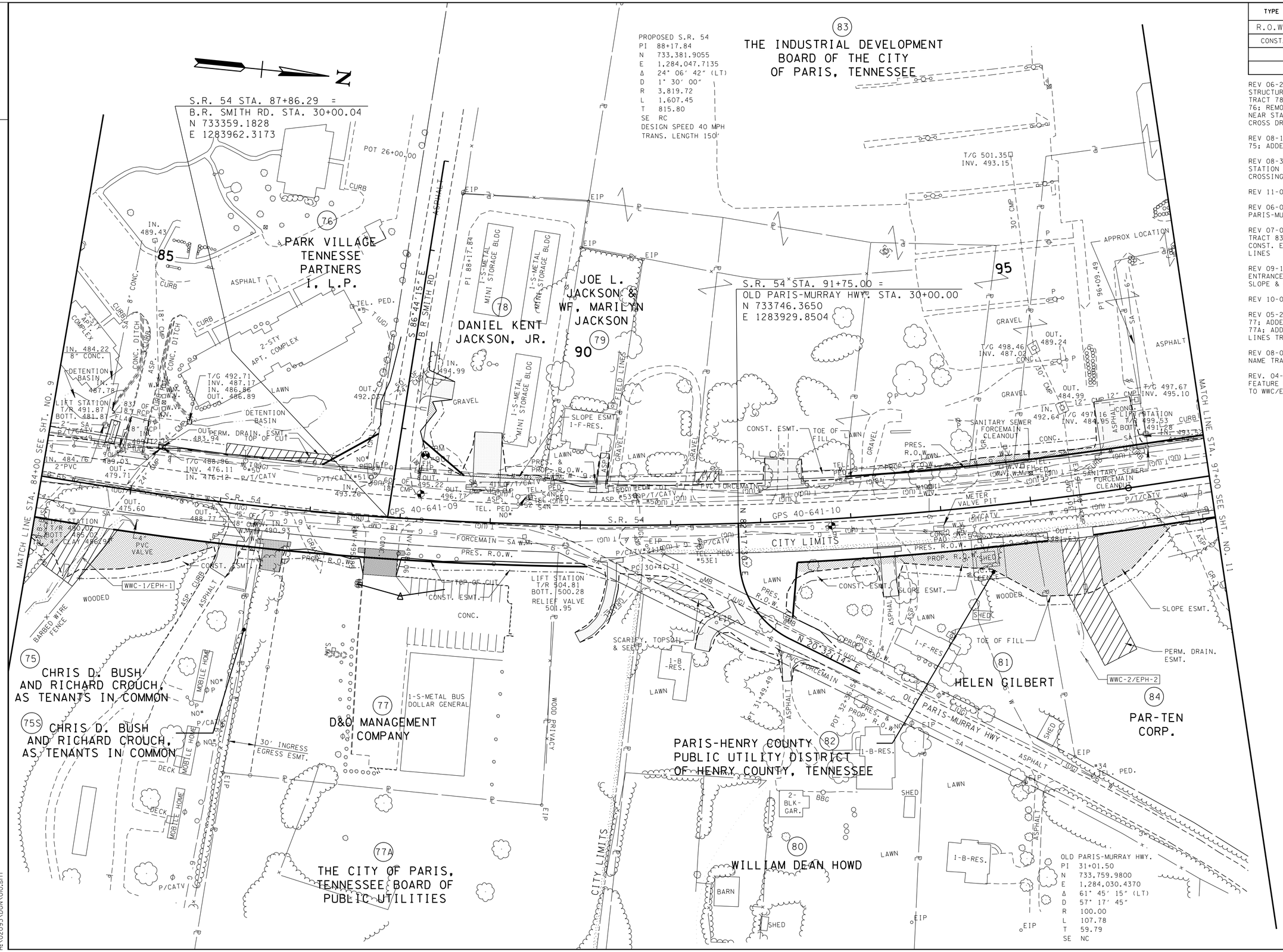
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10
CONST.	2017	NH-54(26)	10

REV 06-22-12: REMOVED RESIDENTIAL STRUCTURES FROM TRACT 83; ADDED DRIVE TO TRACT 78; REVISED DRAINAGE ESMT. TRACT 76; REMOVED DRAIN. ESMTS. FROM TRACT 83 NEAR STA. 90+50 & 91+50 LT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. TRACT 76

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACTS

REV 06-03-13: ADDED PVT. DRIVE RT. OLD PARIS-MURRAY HWY ON TRACT 80

REV 07-08-13: REMOVED 4 DRIVES FROM TRACT 83 & WIDENED 2 DRIVES, ADJUSTED CONST. ESMT. & SLOPE LINES

REV 09-10-13: UPDATED TOPO, RELOCATED ENTRANCE, UPDATED SLOPE LINES, REVISED SLOPE & CONST. ESMT. TRACT 77

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV 05-20-14: ADDED DRIVE IN ESMT. TRACT 77; ADDED TRACT 77A; ADDED DRIVE TRACT 77A; ADDED TRACT 75S; REVISED PROPERTY LINES TRACTS 75, 75S, 77,77A & 80

REV 08-01-14: CHANGED PROPERTY OWNER NAME TRACT 77

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102375
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 84+00 TO STA. 97+00

SCALE: 1"= 50′

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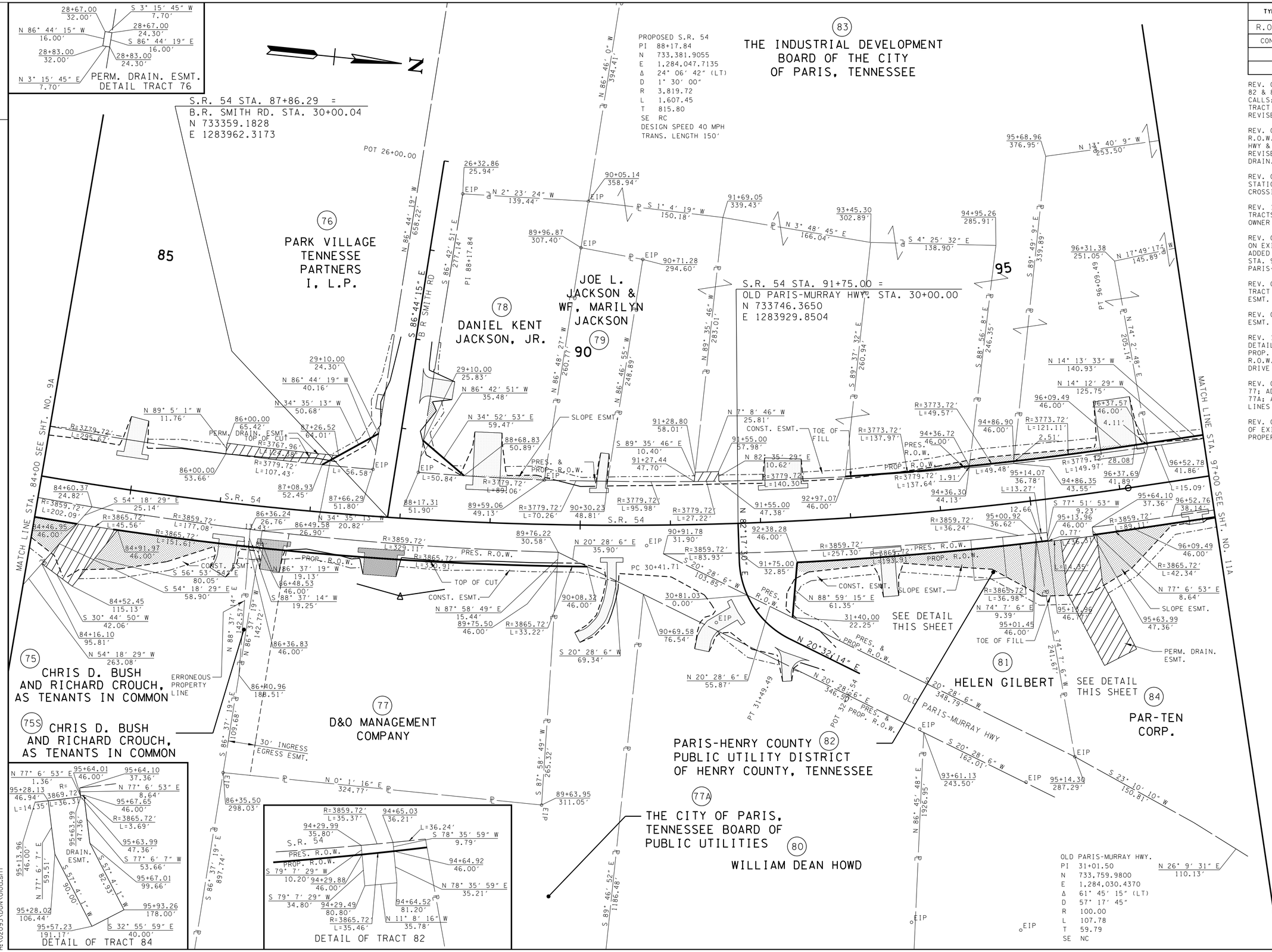
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10A
CONST.	2017	NH-54(26)	10A

REV. 06-22-12: ADDED DETAILS FOR TRACTS 82 & 84; CORRECTED VARIOUS PROPERTY CALLS; REMOVED DRAIN. ESMTS. FROM TRACT 83 AT STA. 90+50 & 91+50 LT.; REVISED DRAIN. ESMT. TRACT 76

REV. 08-10-12: ADDED STA/OFF AT EXIST R.O.W. INTERSECTION OLD PARIS-MURRAY HWY & AT NORTHWEST CORNER TRACT 81; REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. & DETAIL TRACT 76

REV. 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV. 11-05-12: ADDED STA/OFF BETWEEN TRACTS 81 & 84 AT PROP. R.O.W.; CHANGED OWNER NAME TRACTS 77 & 84

REV. 06-03-13: ADDED BEARING/DISTANCE ON EXIST. R.O.W. LT OF OLD PARIS-MURRAY; ADDED STA/OFF AT EXIST R.O.W. RT. NEAR STA. 96+50; ADDED PVT. DRIVE RT OLD PARIS-MURRAY HWY ON TRACT 80

REV. 07-08-13: REMOVED 4 DRIVES FROM TRACT 83 AND WIDENED 2, ADJUSTED CONST. ESMT. & SLOPE LINES

REV. 09-10-13: REVISED SLOPE & CONST. ESMT. & SLOPE LINES TRACT 77

REV. 10-03-13: ADDED RADIUS ON DRAINAGE DETAIL FOR TRACT 84; ADDED LENGTH FOR PROP. R.O.W. NEAR P.D.E., REMOVED PROP. R.O.W. CALL NEAR 96+50 & REVISED PROP. DRIVE SHADING TRACT 84

REV. 05-20-14: ADDED DRIVE IN ESMT. TRACT 77; ADDED TRACT 77A; ADDED DRIVE TRACT 77A; ADDED TRACT 75S; REVISED PROPERTY LINES TRACT 75, 75S, 77, 77A & 80

REV. 08-01-14: CORRECTED RADIUS LENGTH OF EXIST. ROW AT TRACT 77; CHANGED PROPERTY OWNER NAME TRACT 77

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104319
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 84+00 TO STA. 97+00

SCALE: 1"= 50'

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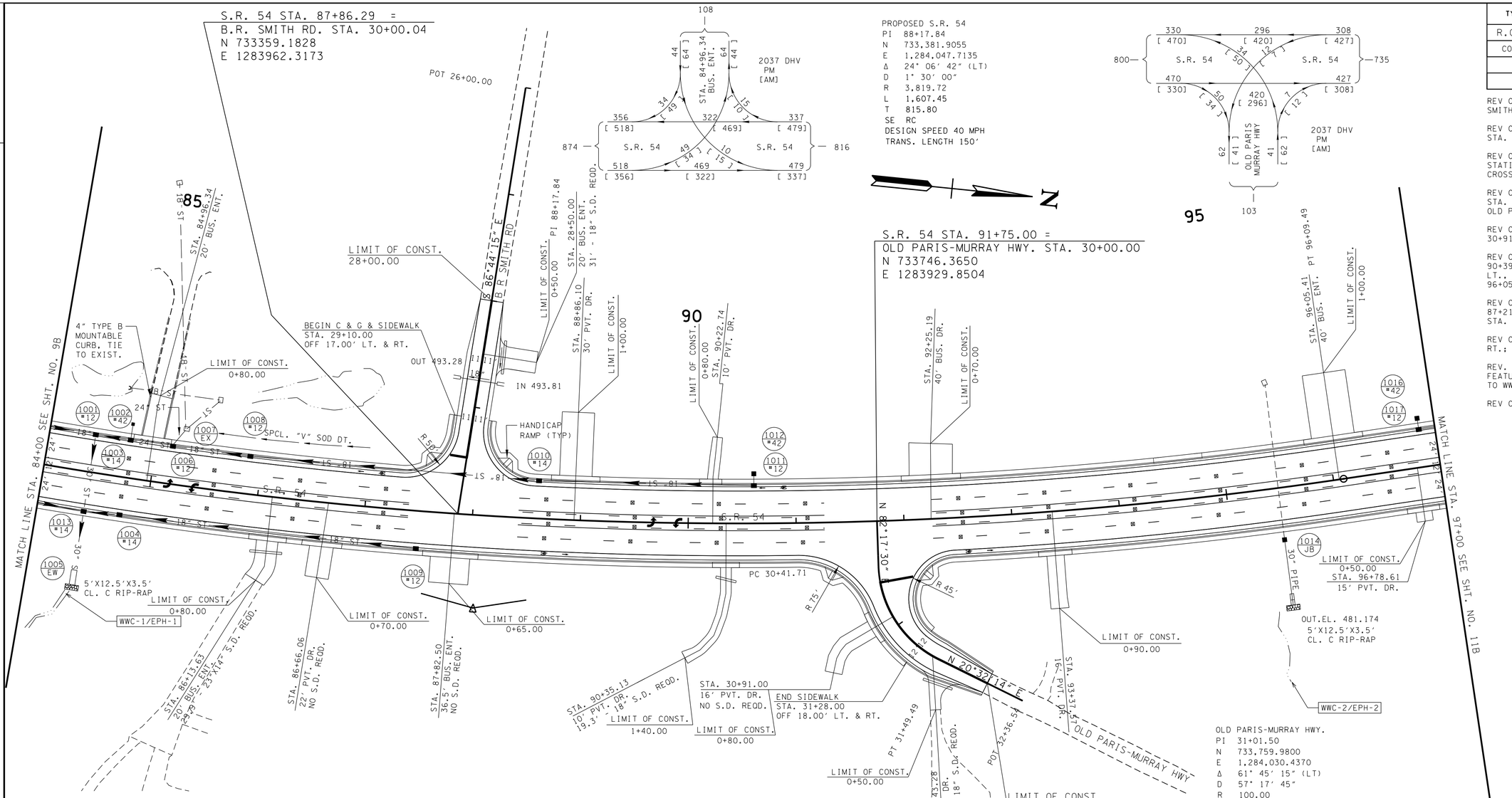
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

S.R. 54 STA. 87+86.29 =
B.R. SMITH RD. STA. 30+00.04
N 733359.1828
E 1283962.3173

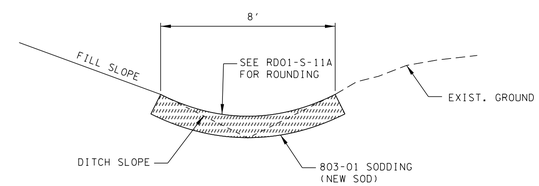
PROPOSED S.R. 54
PI 88+17.84
N 733,381.9055
E 1,284,047.7135
Δ 24° 06′ 42″ (LT)
D 1° 30′ 00″
R 3,819.72
L 1,607.45
T 815.80
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150′

S.R. 54 STA. 91+75.00 =
OLD PARIS-MURRAY HWY. STA. 30+00.00
N 733746.3650
E 1283929.8504



OLD PARIS-MURRAY HWY.
PI 31+01.50
N 733,759.9800
E 1,284,030.4370
Δ 61° 45′ 15″ (LT)
D 57° 17′ 45″
R 100.00
L 107.78
T 59.79
SE NC

1001 #12 GT. EL. 492.525 IN. EL. 488.645 IN. EL. 478.645 OUT.EL. 478.470	1006 #12 GT. EL. 492.438 IN. EL. 488.558 IN. EL. 479.600 OUT.EL. 479.430	1011 #12 GT. EL. 505.576 IN. EL. 501.696 OUT.EL. 501.526	1016 #42 GT. EL. 499.000 OUT.EL. 496.040
1002 #42 GT. EL. 490.500 OUT.EL. 487.540	1007 EX GT. EL. 488.96 IN. EL. 489.12 IN. EL. 483.94 OUT.EL. 479.710	1012 #42 GT. EL. 505.300 OUT.EL. 502.340	1017 #12 GT. EL. 498.884 IN. EL. 495.004 OUT.EL. 494.834
1003 #14 GT. EL. 492.348 IN. EL. 487.388 IN. EL. 479.250 OUT.EL. 478.800	1008 #12 GT. EL. 493.174 IN. EL. 489.294 OUT.EL. 489.124	1013 #14 GT. EL. 493.725 IN. EL. 489.345 IN. EL. 489.345 IN. EL. 478.150 OUT.EL. 477.820	
1004 #14 GT. EL. 493.548 IN. EL. 489.704 OUT.EL. 489.534	1009 #12 GT. EL. 498.872 OUT.EL. 494.992	1014 JB TOP EL. 485.910 IN. EL. 481.530 OUT.EL. 481.360	
1005 EW INV. 475.747	1010 #14 GT. EL. 500.997 IN. EL. 496.947 OUT.EL. 496.617		



SPCL. "V" SOD DT.
S.R. 54 STA. 85+50.00 TO STA. 87+00.00 LT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10B
CONST.	2017	NH-54(26)	10B

REV 06-22-12: ADDED DRIVE ON B.R. SMITH RD.

REV 08-10-12: ADDED RIP-RAP AT OUTLET STA. 84+50 RT. & 95+50 RT.

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 01-04-13: REVISED SIDE DRAINS AT STA. 86+13.63 & 90+35.13 RT. & RT OF OLD PARIS-MURRAY HWY.

REV 06-03-13: ADDED PVT. DRIVE STA. 30+91 RT. OLD PARIS-MURRAY HWY

REV 07-08-13: REMOVED DRIVES STA. 90+39.55, 91+17.19, 93+18.76 & 94+58.65 LT., WIDENED DRIVES 92+25.19 & 96+05.41 LT.

REV 09-10-13: REMOVED DRIVES STA. 87+21.87 & 90+35.13 RT. ADDED DRIVE STA. 87+82.50

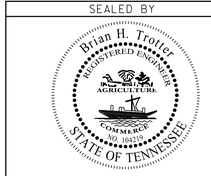
REV 05-20-14: ADDED DRIVE STA. 86+66.06 RT.; REPLACED DRIVE STA. 90+35.13 RT.

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

REV 06-22-16: REVISED STORM SEWER

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 84+00 TO STA. 97+00

SCALE: 1"= 50′

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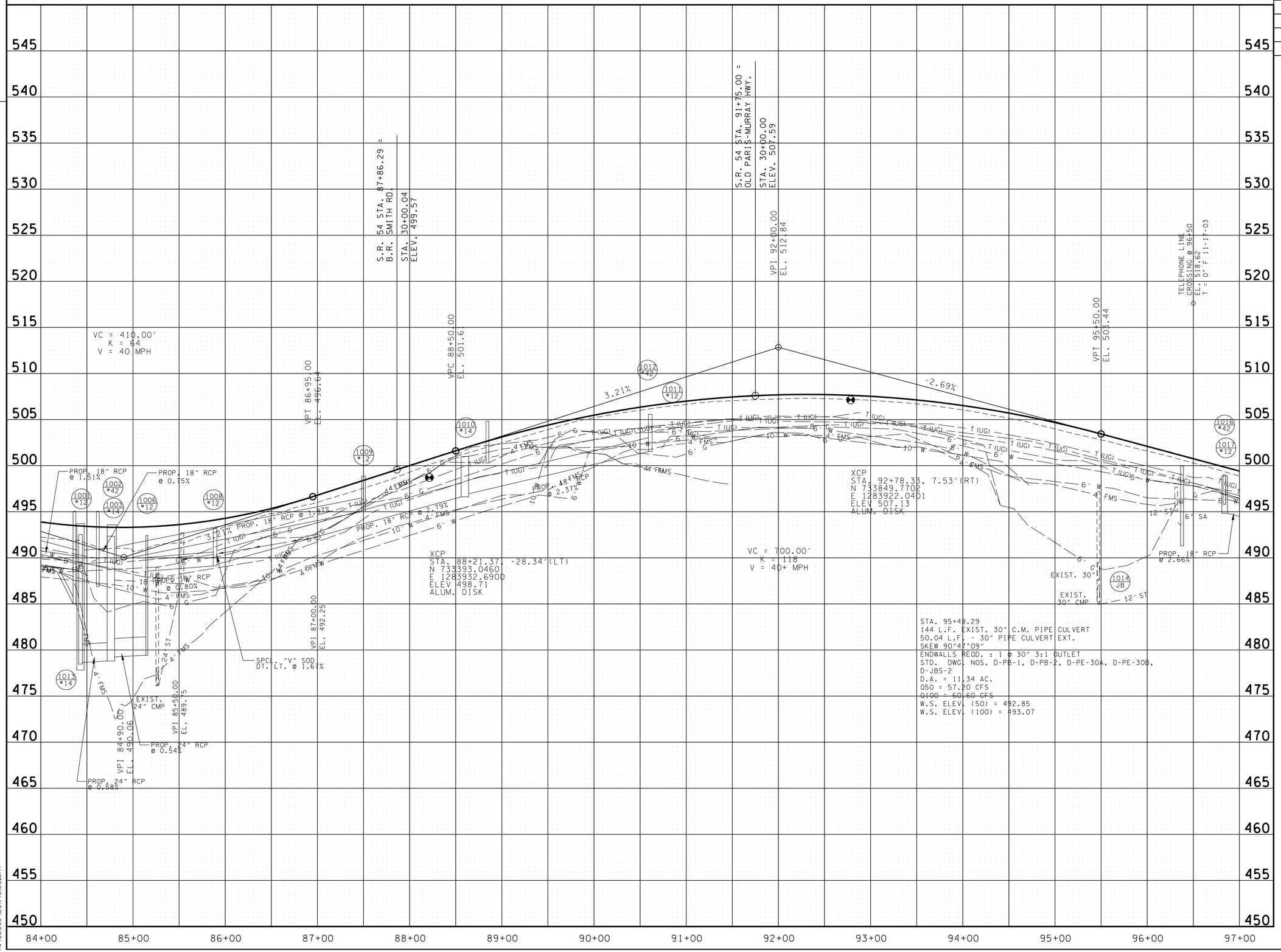
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

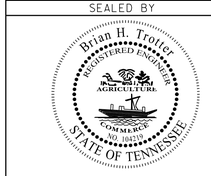
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10C
CONST.	2017	NH-54(26)	10C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 84+00 TO STA. 97+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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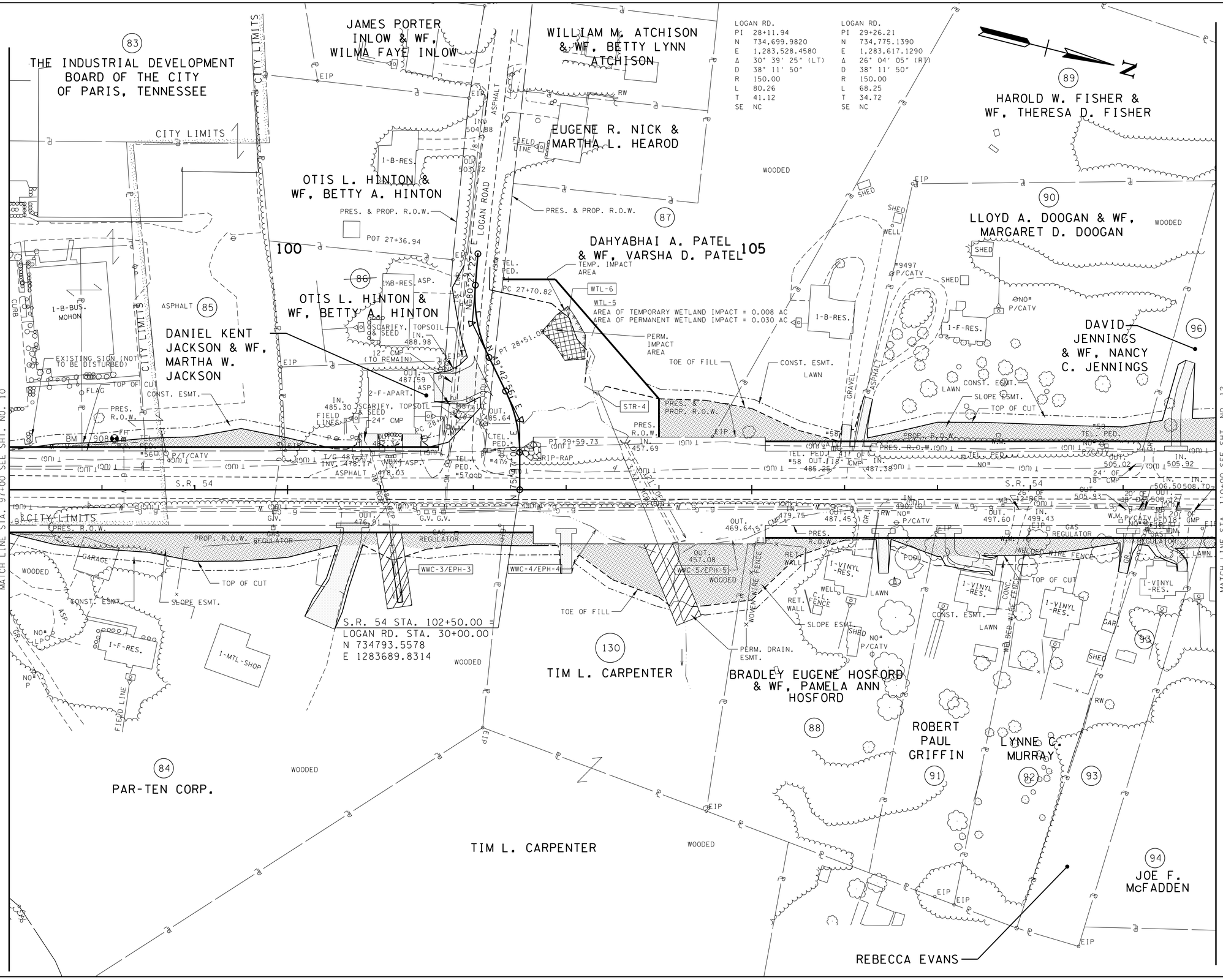
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	11
CONST.	2017	NH-54(26)	11

REV 06-22-12: ADDED NOTE TO AVOID SIGN ON TRACT 83 & ADJUSTED CONST. ESMT.; UPDATED TOPO TRACT 84 & ADDED DRIVE; ADDED PROP. CROSS DRAINS

REV 08-10-12: REVISED DRAIN. ESMT. TRACTS 84 & 130; REMOVED DRAIN. ESMT. TRACT 85

REV 11-05-12: CHANGED OWNER NAME TRACTS 84 & 130

REV 06-03-13: REVISED LENGTH OF DRIVES TRACT 88, 91 & 93

REV 07-08-13: ADDED DRIVE TO TRACT 130; REVISED LENGTH OF DRIVE TRACT 91

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102121
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 97+00 TO STA. 110+00

SCALE: 1"= 50'

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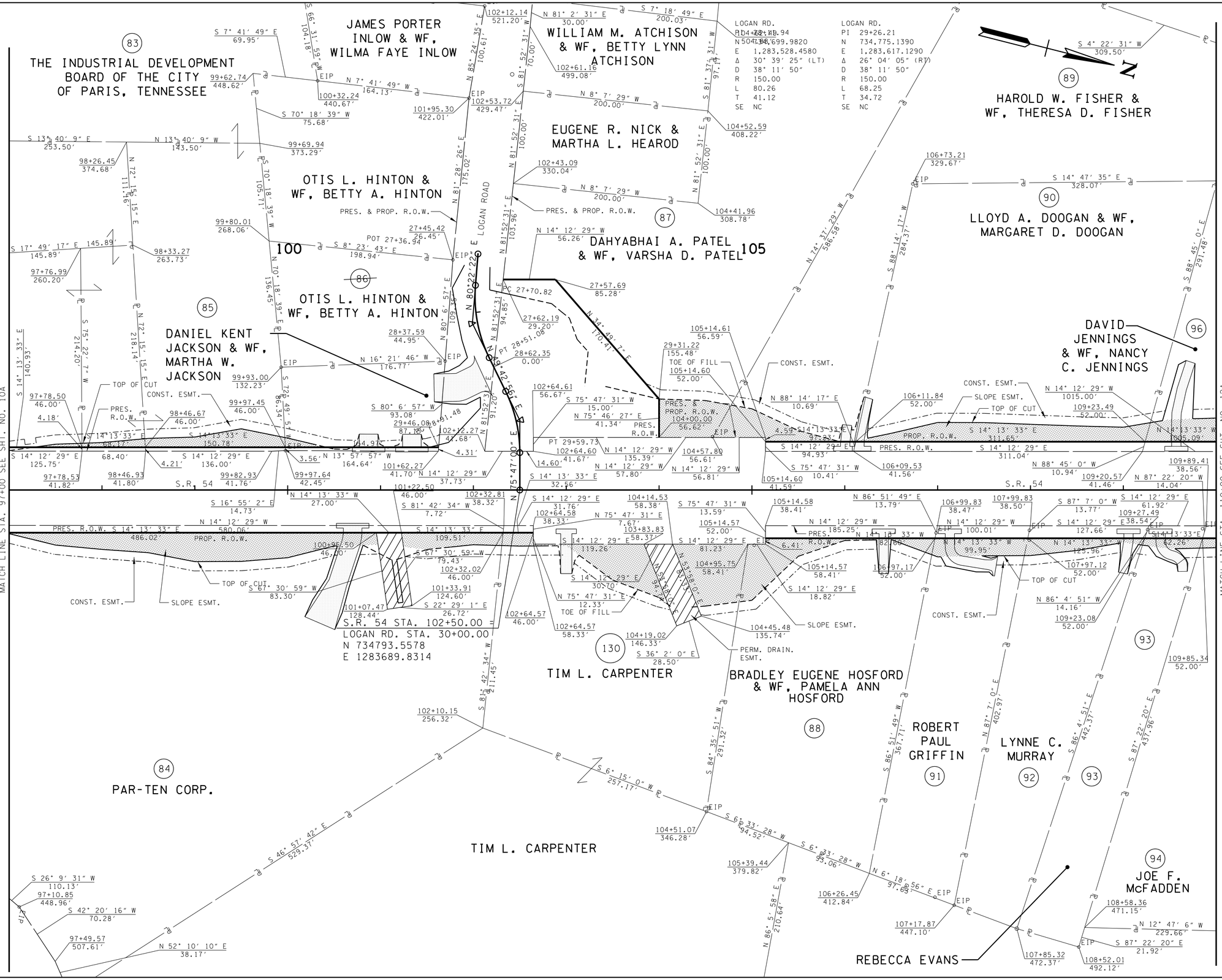
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	11A
CONST.	2017	NH-54(26)	11A

REV 06-22-12: ADJUSTED CONST. ESMT. TRACT 85; ADDED DRAIN. ESMT. DETAIL TRACT 85; CORRECTED VARIOUS PROPERTY CALLS

REV 08-10-12: CORRECTED DISTANCE ALONG EXIST R.O.W. NEAR STA. 98+00 LT.; REVISED DRAIN. ESMT. TRACTS 84 & 130; REMOVED DRAIN. ESMT. & DETAIL TRACT 85

REV 11-05-12: CHANGED OWNER NAME TRACTS 84 & 130

REV 06-03-13: REVISED LENGTH OF DRIVES TRACT 88, 91 & 93

REV 07-08-13: ADDED DRIVE TO TRACT 130; REVISED LENGTH OF DRIVE TRACT 91

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
No. 102137
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 97+00 TO STA. 110+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.	2012	NHE-54(26)	11B
CONST.	2017	NH-54(26)	11B

REV 06-22-12: ADDED DRIVE STA. 100+70 RT.; ADDED NOTES TO INDICATE LIMITS OF MOUNTABLE CURB & GUTTER

REV 08-10-12: ADDED RIP-RAP AT OUTLET STA. 101+50 RT. & INLET & OUTLET OF PIPE NEAR STA. 104+00; REVISED CROSS DRAIN AT STA. 101+00

REV 06-03-13: REVISED LENGTH OF DRIVES STA. 106+41.92 RT., 107+13.17 RT. & 109+40.13 RT.

REV 07-08-13: ADDED DRIVE AT STA. 103+00 RT.; REVISED LENGTH OF DRIVE STA. 107+13.17 RT.

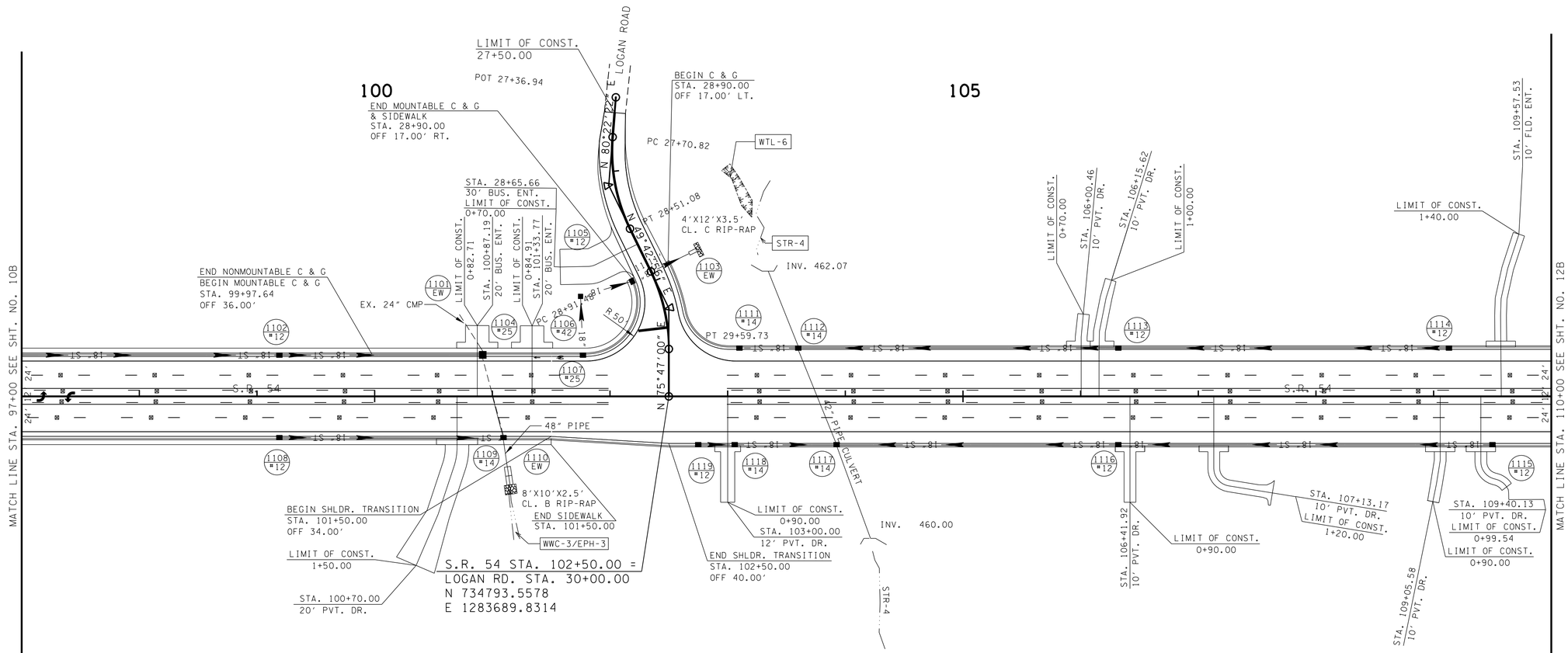
REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

REV 06-22-16: REVISED STORM SEWER; REMOVED WETLAND MITIGATION

LOGAN RD.
PI 28+11.94
N 734,699.9820
E 1,283,528.4580
Δ 30° 39′ 25″ (LT)
D 38° 11′ 50″
R 150.00
L 80.26
T 41.12
SE NC

LOGAN RD.
PI 29+26.21
N 734,775.1390
E 1,283,617.1290
Δ 26° 04′ 05″ (RT)
D 38° 11′ 50″
R 150.00
L 68.25
T 34.72
SE NC

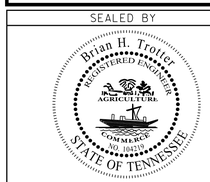
N



1101 EW INV. 485.300	1106 #42 GT. EL. 487.000 IN. EL. 481.900 OUT.EL. 481.780	1111 #14 GT. EL. 484.735 OUT.EL. 480.685	1116 #12 GT. EL. 491.669 IN. EL. 487.789 OUT.EL. 487.619
1102 #12 GT. EL. 492.600 IN. EL. 488.720 OUT.EL. 488.550	1107 #25 GT. EL. 486.057 OUT.EL. 482.177	1112 #14 GT. EL. 484.925 IN. EL. 480.385 IN. EL. 480.385 IN. EL. 461.750 OUT.EL. 461.420	1117 #14 GT. EL. 485.224 IN. EL. 480.000 IN. EL. 480.000 IN. EL. 461.000 OUT.EL. 460.670
1103 EW INV. 476.000	1108 #12 GT. EL. 492.600 OUT.EL. 488.720	1113 #12 GT. EL. 491.669 IN. EL. 487.789 OUT.EL. 487.619	1118 #14 GT. EL. 484.734 IN. EL. 480.684 OUT.EL. 480.354
1104 #25 GT. EL. 487.961 IN. EL. 483.581 IN. EL. 482.074 OUT.EL. 478.110	1109 #14 GT. EL. 487.486 IN. EL. 483.109 IN. EL. 476.990 OUT.EL. 476.770	1114 #12 GT. EL. 505.485 OUT.EL. 501.605	1119 #12 GT. EL. 484.796 OUT.EL. 480.916
1105 #12 GT. EL. 487.905 IN. EL. 481.500 OUT.EL. 480.000	1110 EW INV. 476.660	1115 #12 GT. EL. 506.842 OUT.EL. 502.962	

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 97+00 TO STA. 110+00

SCALE: 1″= 50′

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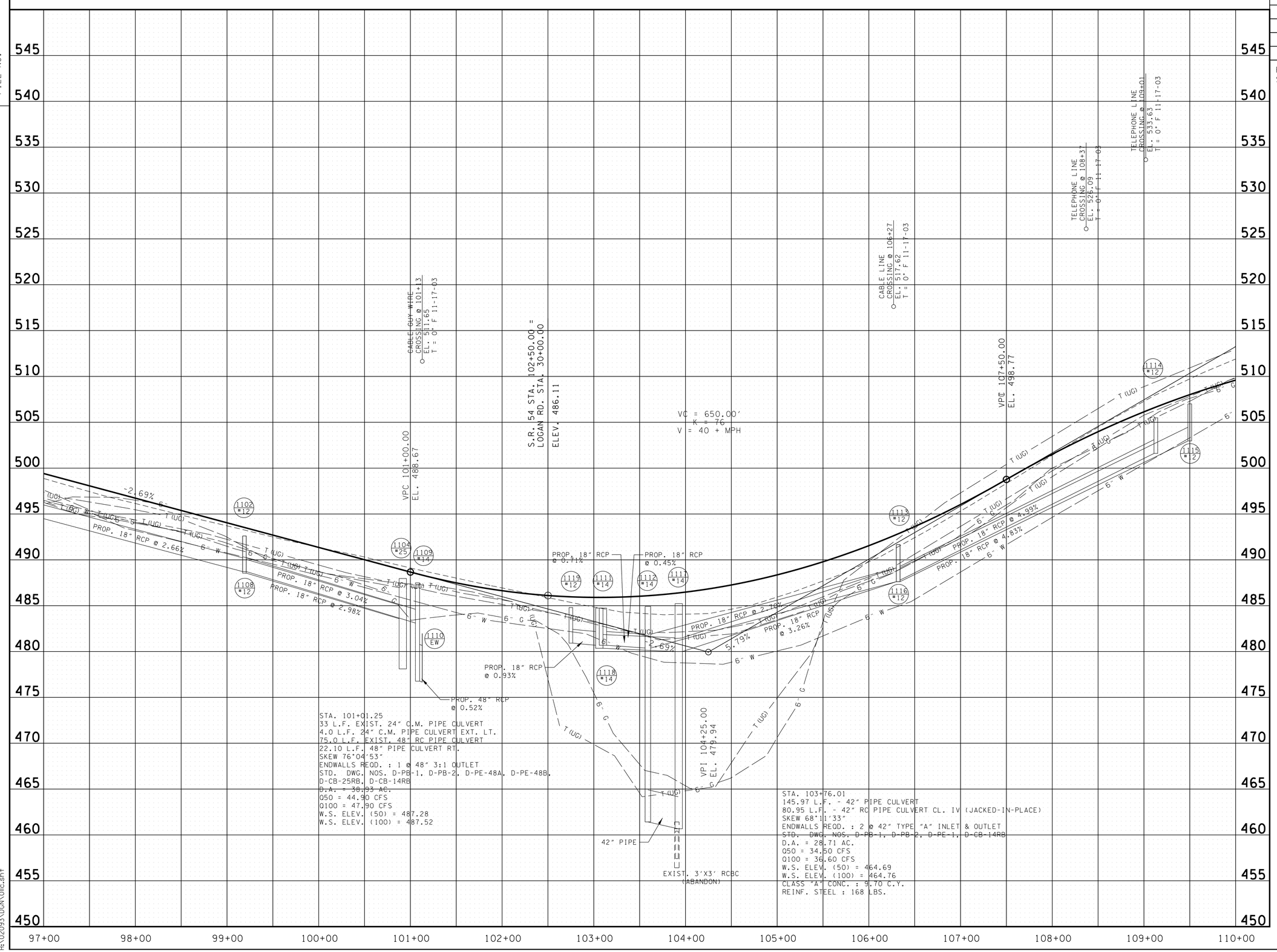
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

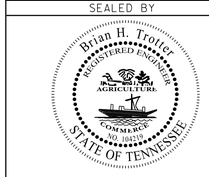
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	11C
CONST.	2012	NH-54(26)	11C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 97+00 TO STA. 110+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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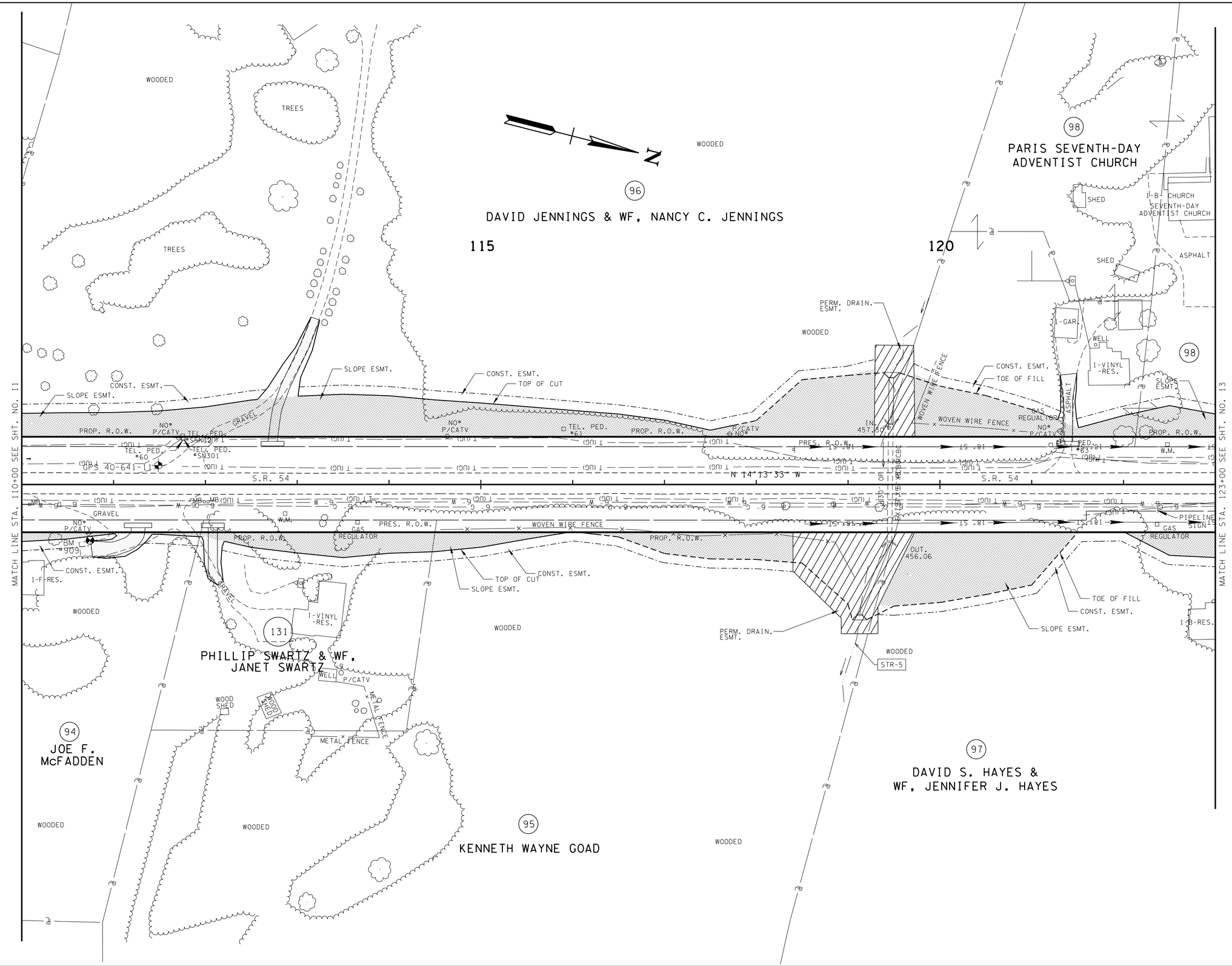
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	12
CONST.	2017	NH-54(26)	12

REV 06-22-12: ADDED PROP. CROSS DRAIN

REV 08-10-12: REVISED DRAIN. ESMT. ON TRACTS 95 & 97

REV 09-10-13: REVISED FIELD LINES ON TRACT 131

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV 10-23-13: REVISED FIELD LINES ON TRACT 131

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102011
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 110+00 TO STA. 123+00

SCALE: 1"= 50'

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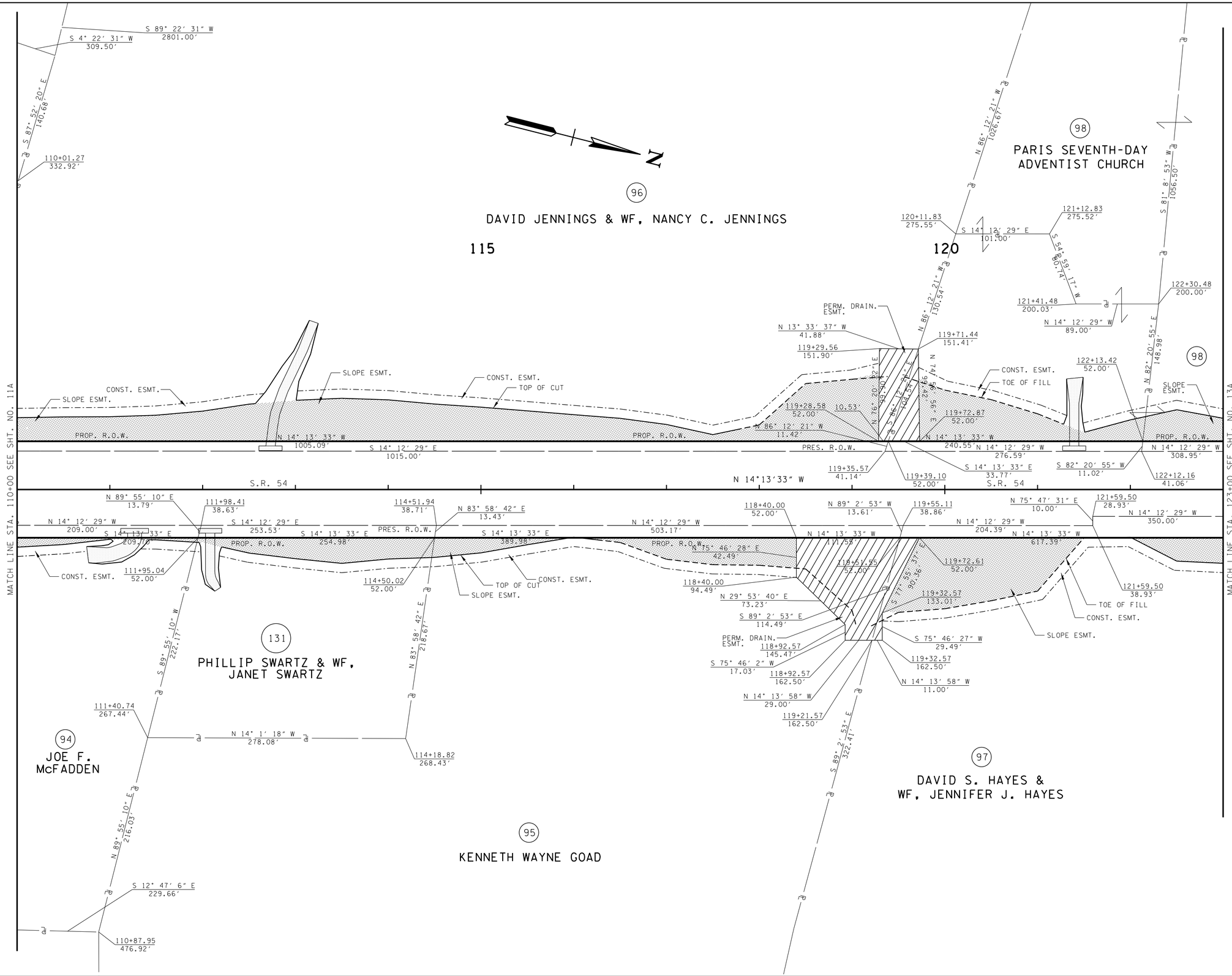
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	12A
CONST.	2017	NH-54(26)	12A

REV 06-22-12: CORRECTED VARIOUS PROPERTY CALLS

REV 08-10-12: REVISED DRAIN. ESMT. ON TRACTS 95 & 97



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 108319
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 110+00 TO STA. 123+00

SCALE: 1"= 50'

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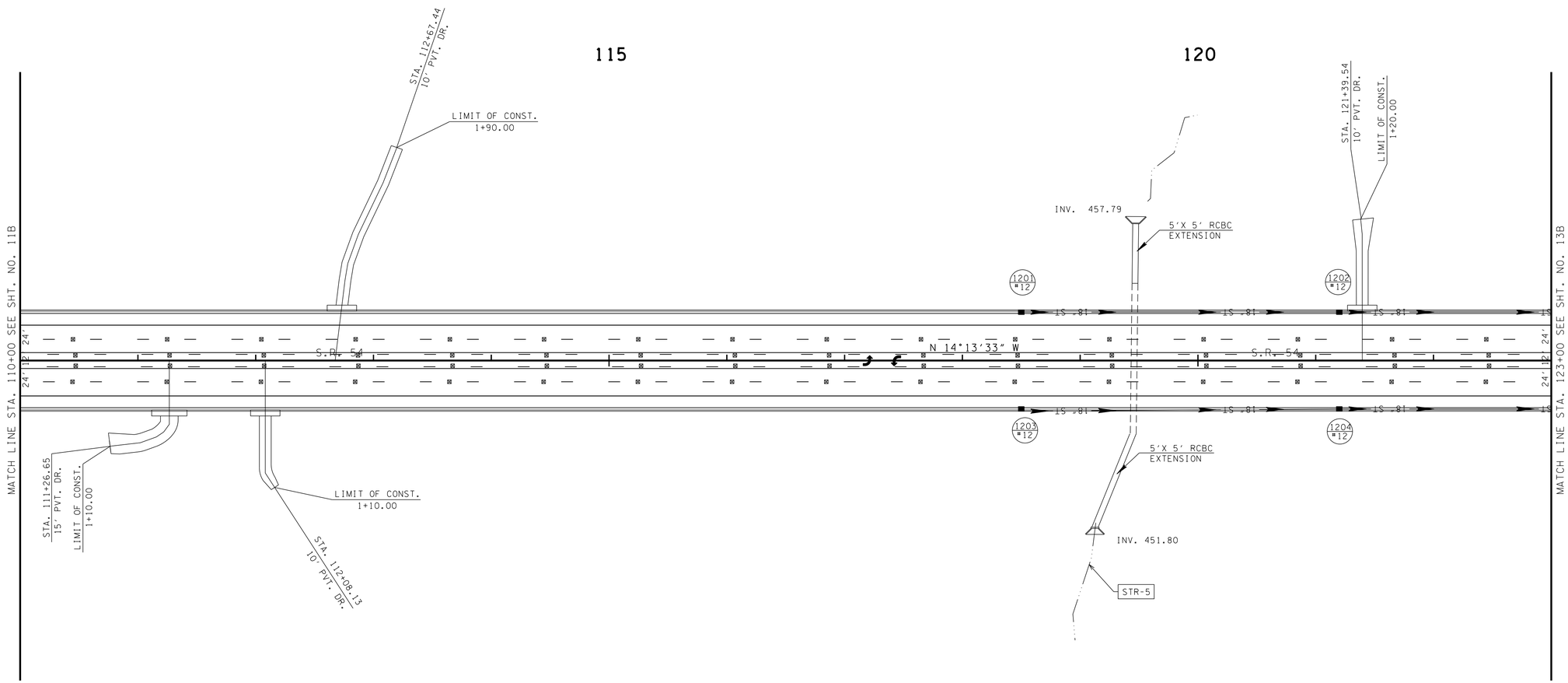
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	12B
CONST.	2017	NHE-54(26)	12B

REV 08-10-12: ADDED RIP-RAP TO OUTLET STA. 118+50 RT. & INLET & OUTLET OF BOX AT STA. 119+50

REV 06-22-16: REVISED STORM SEWER



1201 #12 GT. EL. 491.146
OUT.EL. 487.266

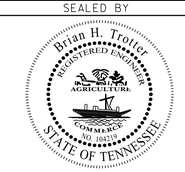
1202 #12 GT. EL. 479.088
IN. EL. 475.208
OUT.EL. 475.038

1203 #12 GT. EL. 491.146
OUT.EL. 487.266

1204 #12 GT. EL. 479.088
IN. EL. 475.208
OUT.EL. 475.038

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 110+00 TO STA. 123+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.	2012	NHE-54(26)	12C
CONST.	2017	NH-54(26)	12C

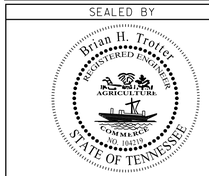
REV 06-22-16: REVISED STORM SEWER

STA. 119+45.82
51 LF - 5'x5' RCBC EXT. LT.
127 LF - EXIST. 5'x5' RCBC
73 LF - 5'x5' RCBC EXT. RT.

SKEW	89°19'04"
STANDARD DRAWING NUMBERS	STD-15-1, STD-15-2, STD-15-3, STD-15-4, STD-15-5, STD-15-6, STD-15-8, STD-15-9, STD-15-10, STD-15-12, STD-15-13, STD-15-14, STD-15-15, STD-19, STD-15-20, STD-15-25, STD-15-26, STD-15-27, STD-15-28, STD-15-29, STD-15-35
D.A.	90.41 AC.
Q50	66.9 CFS
Q100	74.1 CFS
W.S. ELEV. (50)	460.49
W.S. ELEV. (100)	460.69
CLASS A CONCRETE	97 C.Y.
STEEL BAR REINFORCING	19996 LB
FOUNDATION FILL	46 C.Y.

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 110+00 TO STA. 123+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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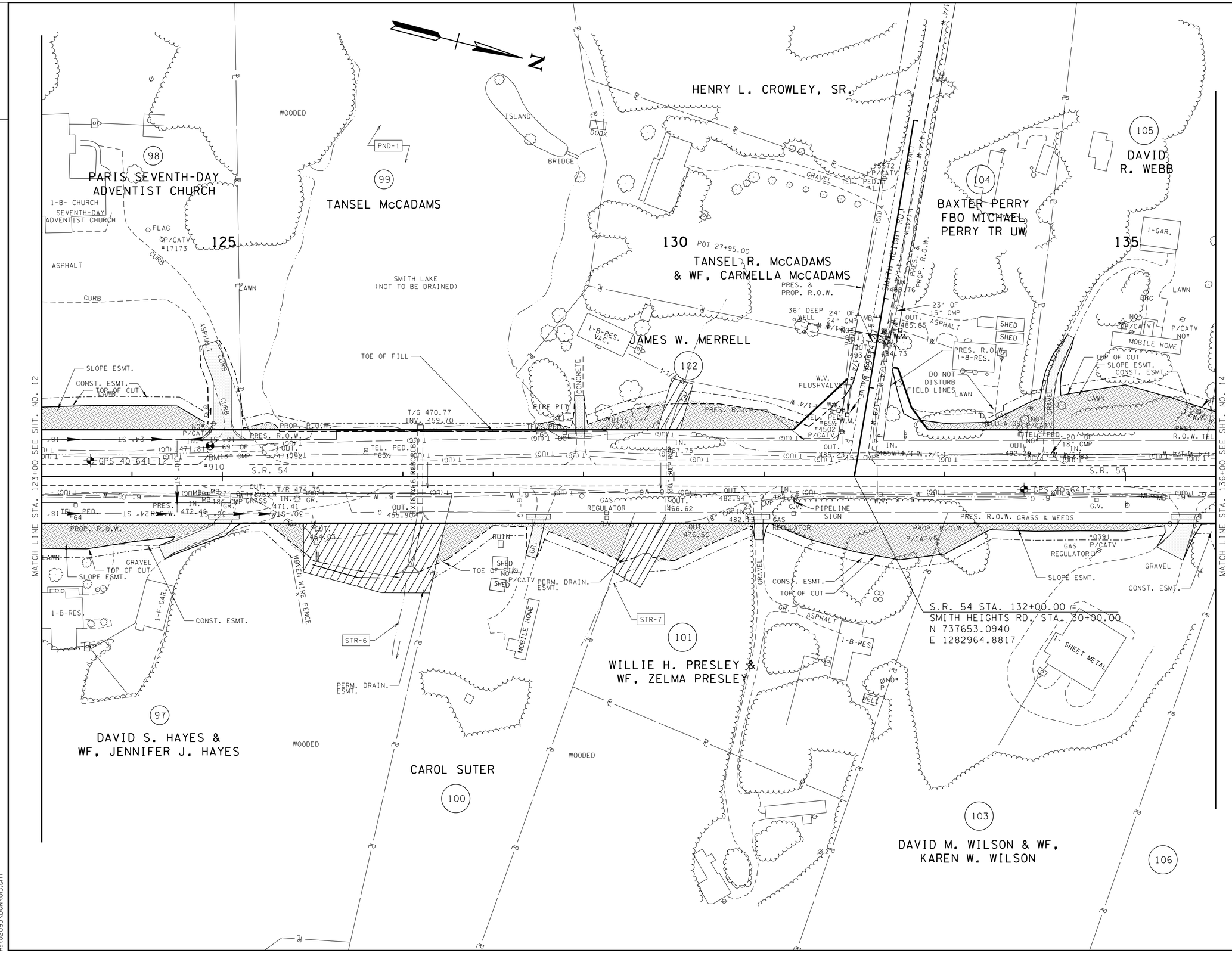
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	13
CONST.	2017	NH-54(26)	13

REV 06-22-12: REVISED DRIVE TRACT 98; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 07-10-12: REVISED SLOPE ESMT. TRACTS 99 & 102 FOR RETAINING WALL

REV 08-10-12: REVISED DRAIN. ESMTS. TRACTS 101 & 102

REV 11-05-12: ADDED SURVEY TO TRACTS 102, 104 & 105; CHANGED OWNER NAME TRACT 104

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 104

REV. 09-10-13: UPDATED FIELD LINE ON TRACT 104, REVISED CONST. ESMT. & ADDED NOTE TO AVOID FIELD LINE

REV. 10-03-13: REVISED GAS LINE LOCATIONS

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102351
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 123+00 TO STA. 136+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.	2012	NHE-54(26)	13A
CONST.	2017	NH-54(26)	13A

REV 06-22-12: CORRECTED VARIOUS PROPERTY CALLS

REV 07-10-12: REVISED SLOPE ESMT. TRACTS 99 & 102 FOR RETAINING WALL

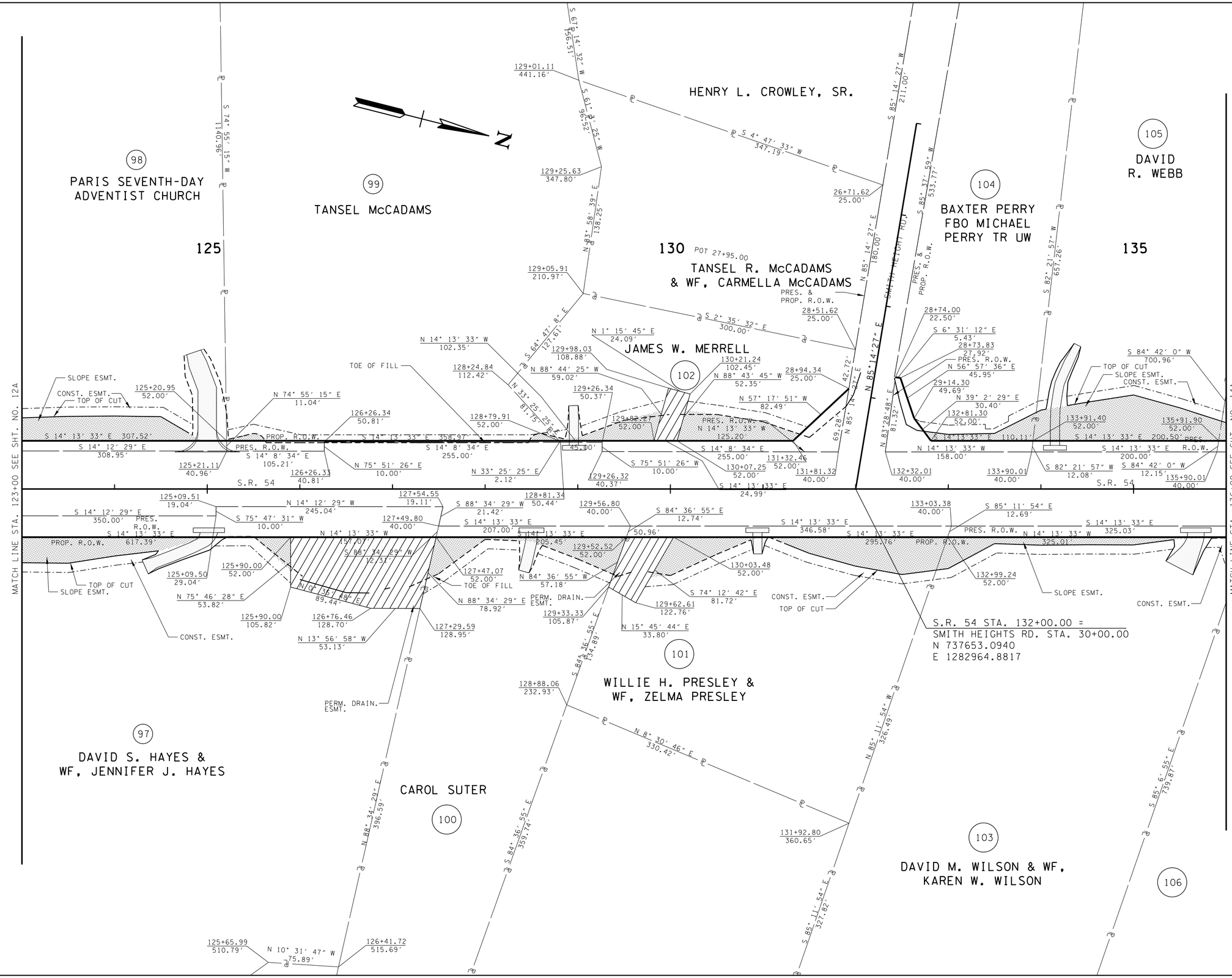
REV 08-10-12: ADDED BEAR/DIST TRACT 102 NEAR STA. 129+00; ADDED DISTANCE AT PROP. R.O.W. INSIDE PDE TRACT 101; REVISED DRAIN. ESMTS. TRACTS 101 & 102

REV 11-05-12: CHANGED OWNER NAME TRACT 104

REV 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 104

REV 09-10-13: REVISED CONST. ESMT. TRACT 104

REV 10-03-13: REVISED SHEET



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 123+00 TO STA. 136+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.	2012	NHE-54(26)	13B
CONST.	2017	NH-54(26)	13B

REV 06-22-12: REVISED DRIVE STA. 125+00 LT. AND ADDED CURB & GUTTER TO REPLACE EXISTING

REV 07-10-12: REVISED RETAINING WALL LT.

REV 08-10-12: ADDED RIP-RAP AT OUTLETS STA. 126+00 RT. & 127+00 RT. & INLET & OUTLET STA. 130+00

REV 05-20-14: INCREASED GATE TO 5' AT STAIRCASE

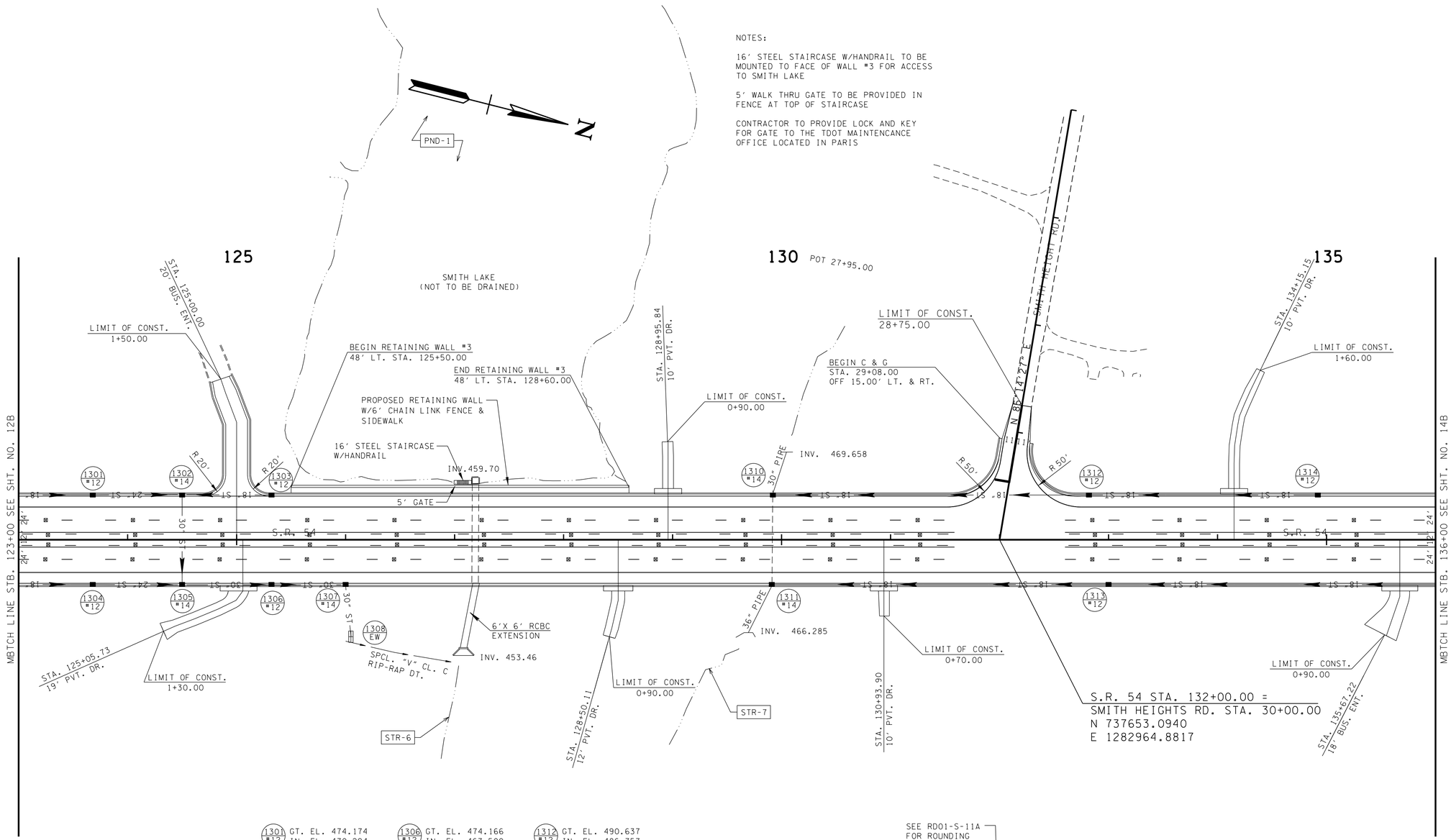
REV 06-22-16: REVISED STORM SEWER

NOTES:

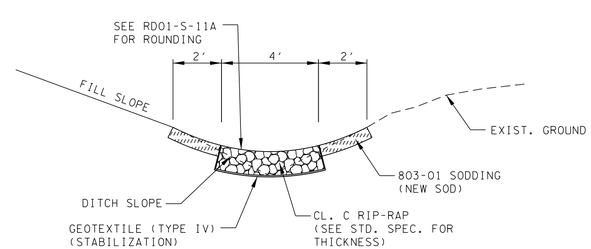
16' STEEL STAIRCASE W/HANDRAIL TO BE MOUNTED TO FACE OF WALL #3 FOR ACCESS TO SMITH LAKE

5' WALK THRU GATE TO BE PROVIDED IN FENCE AT TOP OF STAIRCASE

CONTRACTOR TO PROVIDE LOCK AND KEY FOR GATE TO THE TDOT MAINTENCANCE OFFICE LOCATED IN PARIS



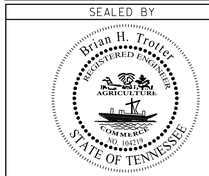
1301 #12 GT. EL. 474.174 IN. EL. 470.294 OUT.EL. 469.727	1306 #12 GT. EL. 474.166 IN. EL. 467.500 OUT.EL. 467.330	1312 #12 GT. EL. 490.637 IN. EL. 486.757 OUT.EL. 486.587
1302 #14 GT. EL. 473.848 IN. EL. 469.798 IN. EL. 469.258 OUT.EL. 468.468	1307 #14 GT. EL. 474.919 IN. EL. 467.050 OUT.EL. 464.500	1313 #12 GT. EL. 490.637 IN. EL. 486.757 OUT.EL. 486.587
1303 #12 GT. EL. 474.166 OUT.EL. 470.286	1308 EW INV. 462.456	1314 #12 GT. EL. 495.548 OUT.EL. 491.578
1304 #12 GT. EL. 474.174 IN. EL. 470.294 OUT.EL. 469.727	1310 #14 GT. EL. 483.984 IN. EL. 479.583 IN. EL. 467.803 OUT.EL. 467.674	
1305 #14 GT. EL. 473.848 IN. EL. 469.258 IN. EL. 468.150 OUT.EL. 467.820	1311 #14 GT. EL. 483.963 IN. EL. 479.583 IN. EL. 466.840 OUT.EL. 466.510	



SPCL. "V" CL. C RIP-RAP DT.
STA. 126+00.00 TO STA. 127+00.00 RT.

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 123+00 TO STA. 136+00

SCALE: 1"= 50'

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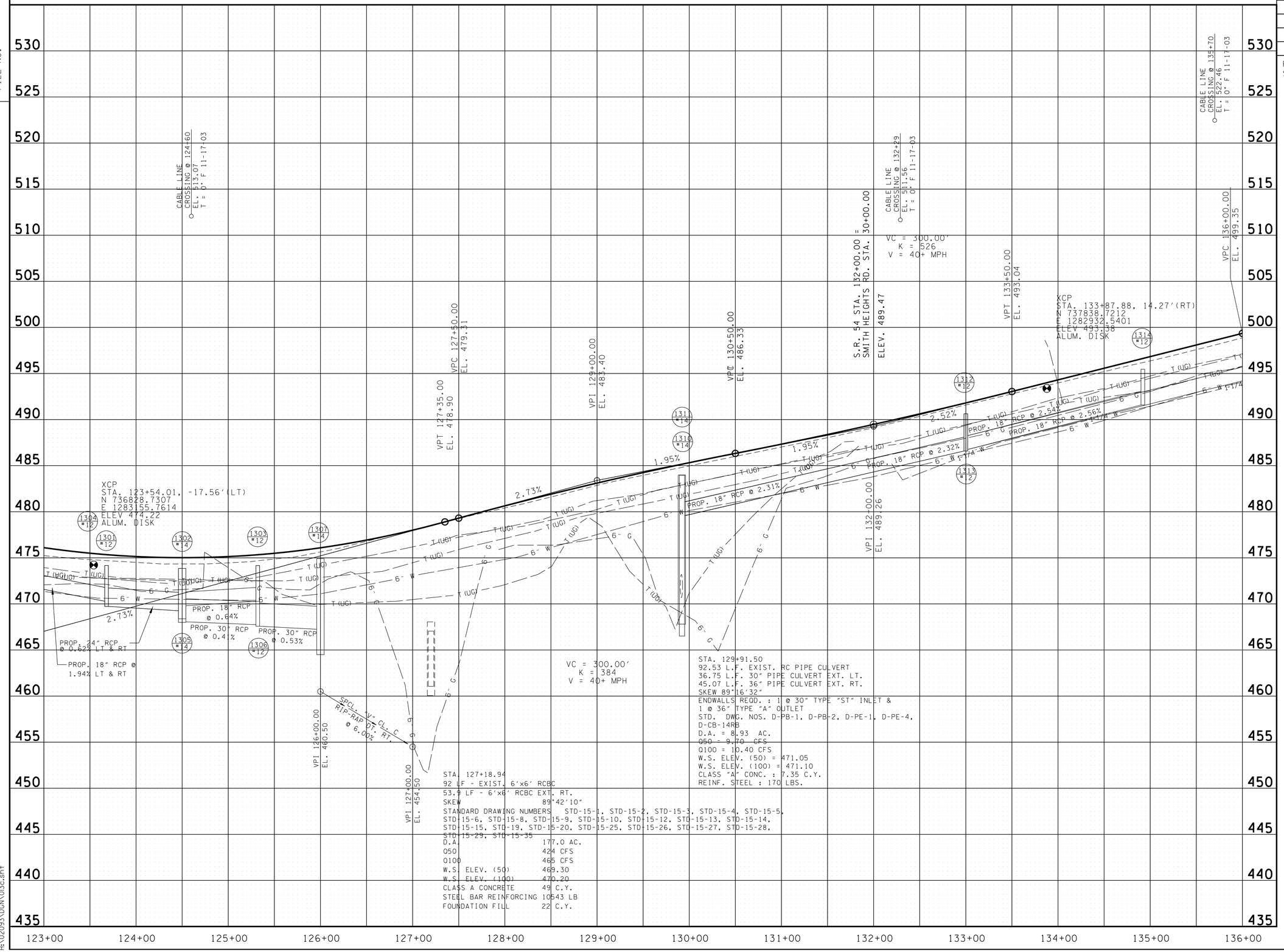
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	13C
CONST.	2017	NH-54(26)	13C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
NO. 104319
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 123+00 TO STA. 136+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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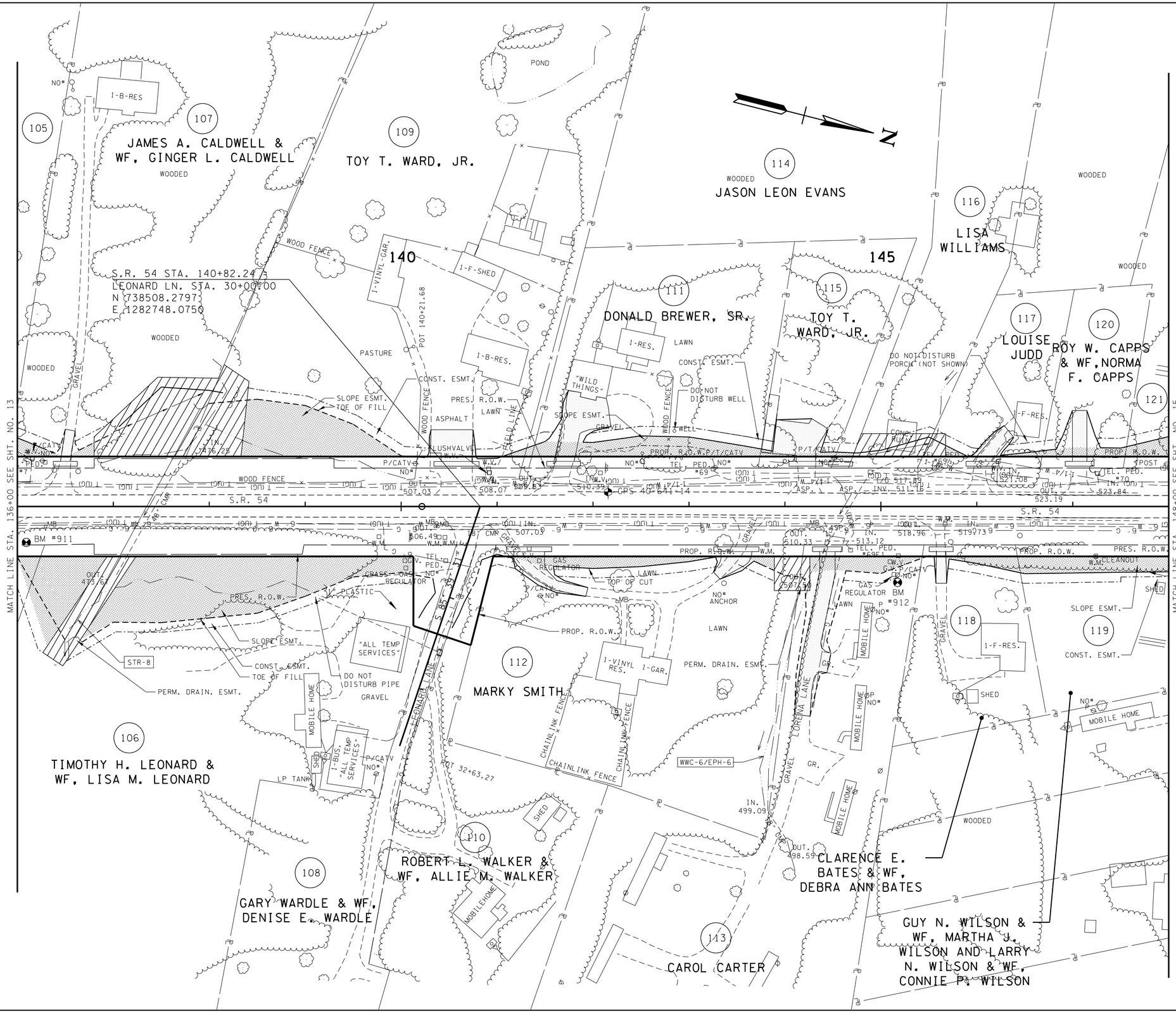
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	14
CONST.	2017	NH-54(26)	14

REV. 06-22-12: REVISED TOPO TRACTS 115 & 119; ADDED DRIVE TRACT 115 & ADJUSTED CONST. ESMT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119; REVISED DRAIN. ESMT. TRACT 109

REV. 11-05-12: ADDED SURVEY TO TRACTS 105 & 107

REV. 07-08-13: REVISED DRIVE TRACT 111

REV. 07-19-13: REVISED CONST. ESMT. TRACT 111 & ADDED NOTE "DO NOT DISTURB WELL"

REV. 09-10-13: REVISED TOPO TRACTS 106, 109 & 117; REVISED SLOPE & CONST. ESMT. TRACTS 103 & 106

REV. 10-03-13: REVISED GAS LINE LOCATION

REV. 10-23-13: ADDED NOTE "DO NOT DISTURB PORCH (NOT SHOWN)" TO TRACT 117

REV. 12-01-14: INCREASED DRIVEWAY OPENINGS FOR TRACT 112

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102033
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 136+00 TO STA. 148+00

SCALE: 1"= 50'

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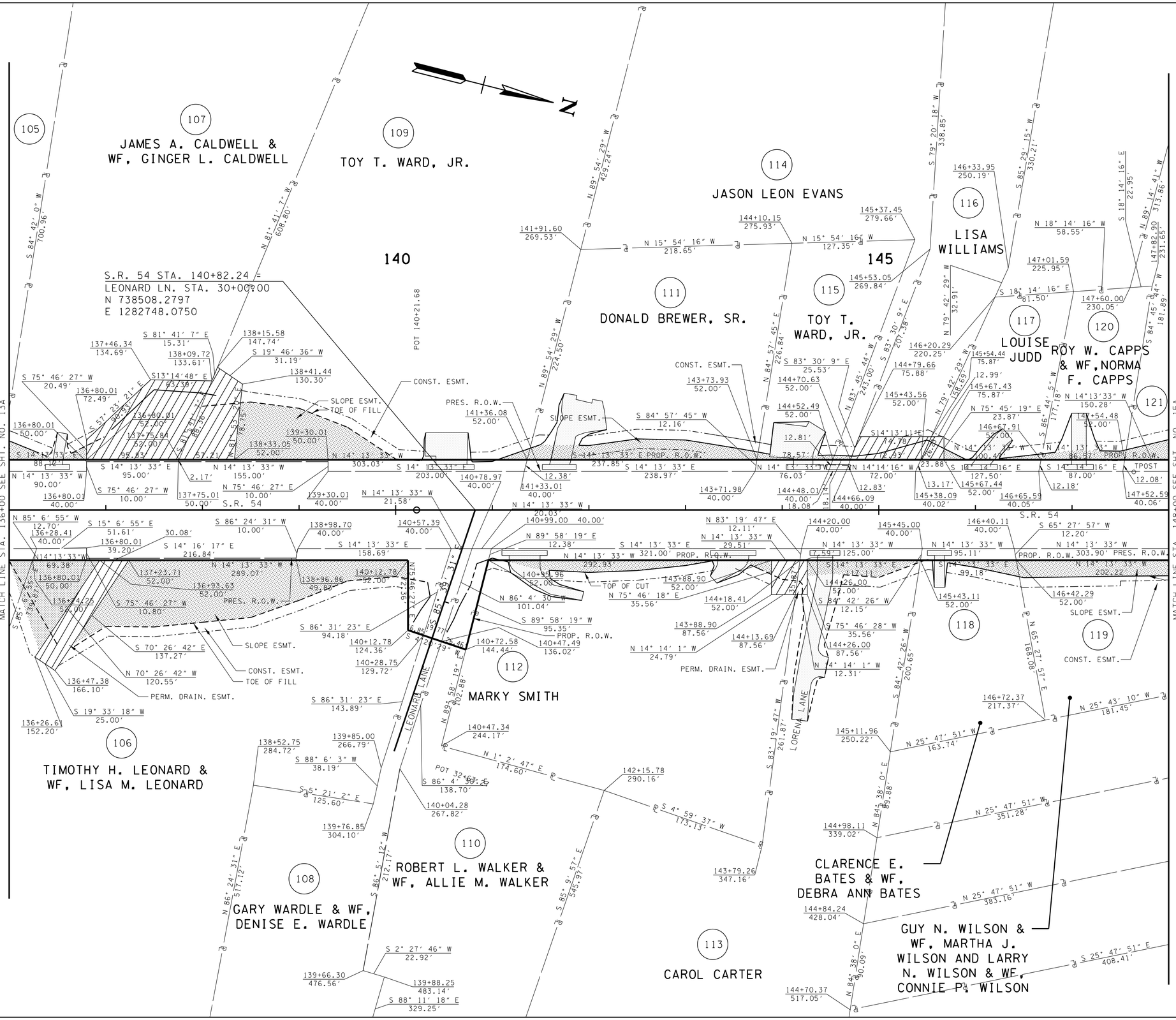
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	14A
CONST.	2017	NH-54(26)	14A

REV. 06-22-12: ADJUSTED CONST. ESMT. TRACT 115; CORRECTED VARIOUS PROPERTY CALLS

REV. 08-10-12: ADDED DISTANCES AT EXIST R.O.W. TRACT 114, PROPERTY LINE INSIDE PDE TRACT 112, PDE ON TRACT 117 & NORTH PROPERTY LINE TRACT 118; ADDED STA/OFF ON PROP. R.O.W. SOUTH OF THE PRIVATE ROAD; REVISED CONST. ESMT. TRACT 119; REVISED DRAIN. ESMT. TRACT 109

REV. 06-03-13: ADDED BEARING/DISTANCE ON NORTH SIDE OF P.D.E. TRACT 109

REV. 07-08-13: REVISED DRIVE TRACT 111

REV. 07-19-13: REVISED CONST. ESMT. TRACT 111

REV. 09-10-13: REVISED SLOPE & CONST. ESMT. TRACT 103 & 106

REV. 10-03-13: REVISED SHEET

REV. 03-21-14: REVISED PROP. ROW DIST. RT. NEAR STA. 138+50

REV. 12-01-14: INCREASED DRIVEWAY OPENINGS FOR TRACT 112

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102375
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 136+00 TO STA. 148+00

SCALE: 1"= 50'

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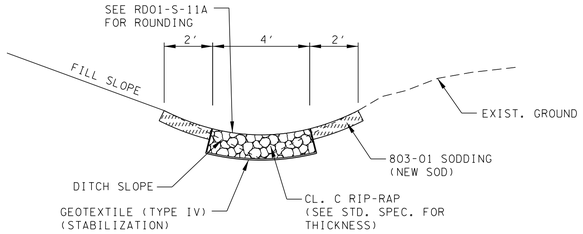
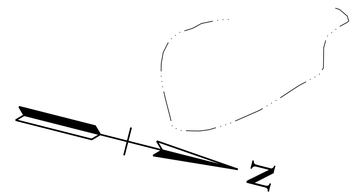
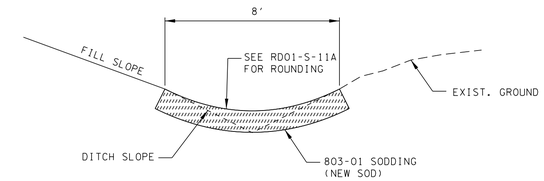
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

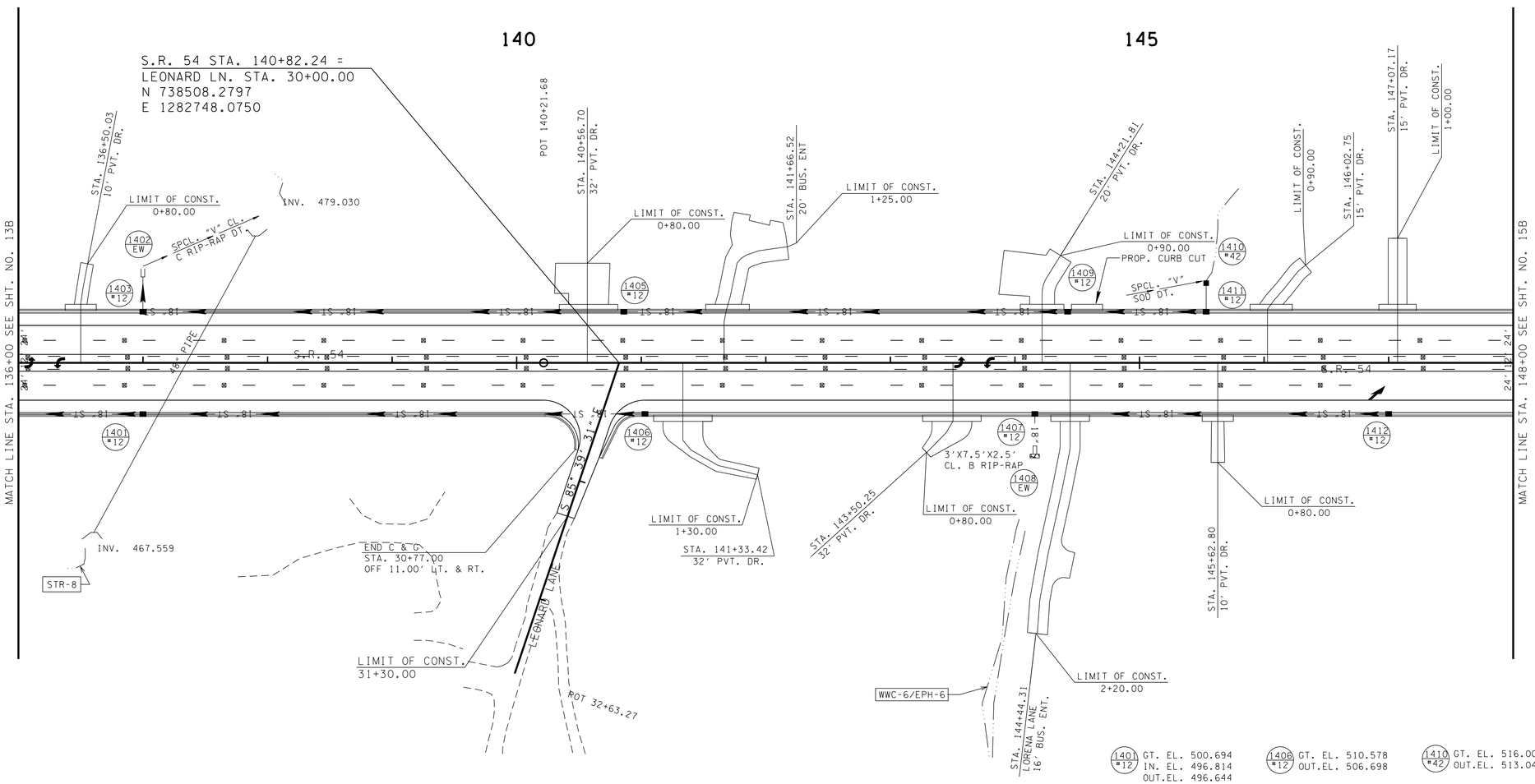


SPCL. "V" CL. C RIP-RAP DT.
STA. 137+00.00 TO STA. 138+05.25 LT.





SPCL. "V" SOD DT.
S.R. 54 STA. 144+88.50 TO STA. 145+53.50 LT.



1401 #12	GT. EL. 500.694 IN. EL. 496.814 OUT.EL. 496.644	1406 #12	GT. EL. 510.578 OUT.EL. 506.698	1410 #42	GT. EL. 516.000 OUT.EL. 513.040
1402 EW	INV. 491.650	1407 #12	GT. EL. 518.153 IN. EL. 514.273 OUT.EL. 514.103	1411 #12	GT. EL. 521.463 IN. EL. 512.900 OUT.EL. 512.730
1403 #12	GT. EL. 500.694 IN. EL. 496.814 OUT.EL. 494.000	1408 EW	INV. 512.702	1412 #12	GT. EL. 524.980 OUT.EL. 521.100
1405 #12	GT. EL. 510.166 IN. EL. 506.286 OUT.EL. 506.116	1409 #12	GT. EL. 518.901 IN. EL. 512.250 OUT.EL. 512.080		

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	14B
CONST.	2017	NH-54(26)	14B

REV 06-22-12: ADDED DRIVE STA. 144+21.81 LT.

REV 08-10-12: ADDED RIP-RAP AT INLET STA. 138+00 LT., TYPE VI DISSIPATOR AT OUTLET STA. 136+50 RT. & RIP-RAP AT OUTLET STA. 139+00 RT.

REV 07-08-13: REMOVED DRIVE STA. 143+41.75 RT, ADDED DRIVE STA. 141+66.52 RT.

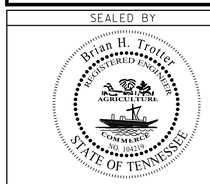
REV 12-01-14: CHANGED DRIVEWAY OPENINGS TO 32' AT STA. 141+33.42 & 143+50.25

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

REV 06-22-16: REVISED STORM SEWER

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 136+00 TO STA. 148+00

SCALE: 1"= 50'

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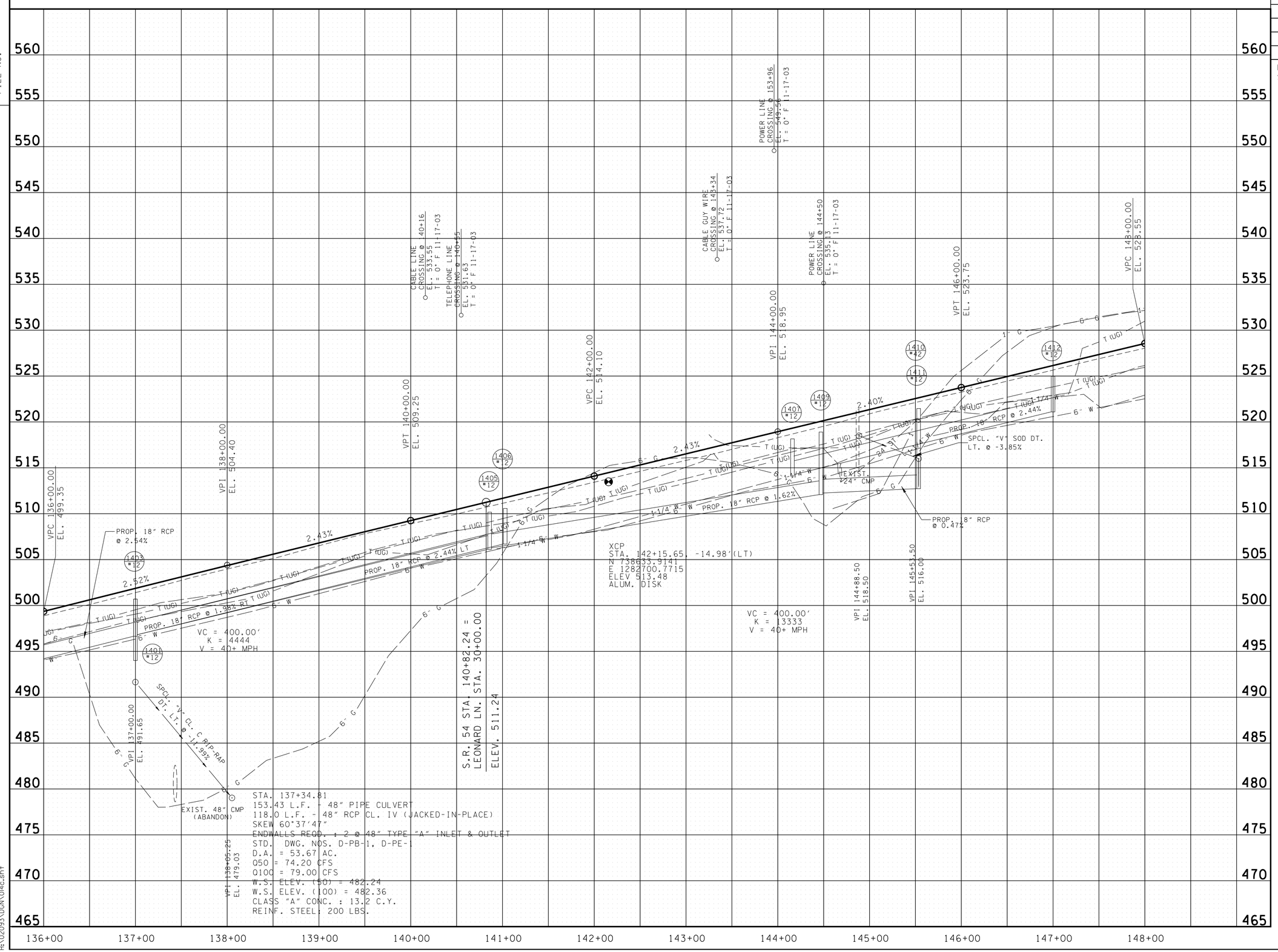
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	14C
CONST.	2017	NH-54(26)	14C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 136+00 TO STA. 148+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.	2012	NHE-54(26)	15
CONST.	2017	NH-54(26)	15

REV 06-22-12: UPDATED TOPO TRACTS 119 & 124; COMBINED TRACTS 122 & 132, LINED THRU TRACT 132; ADDED PROP. CROSS DRAINS & SPEICAL DITCHES

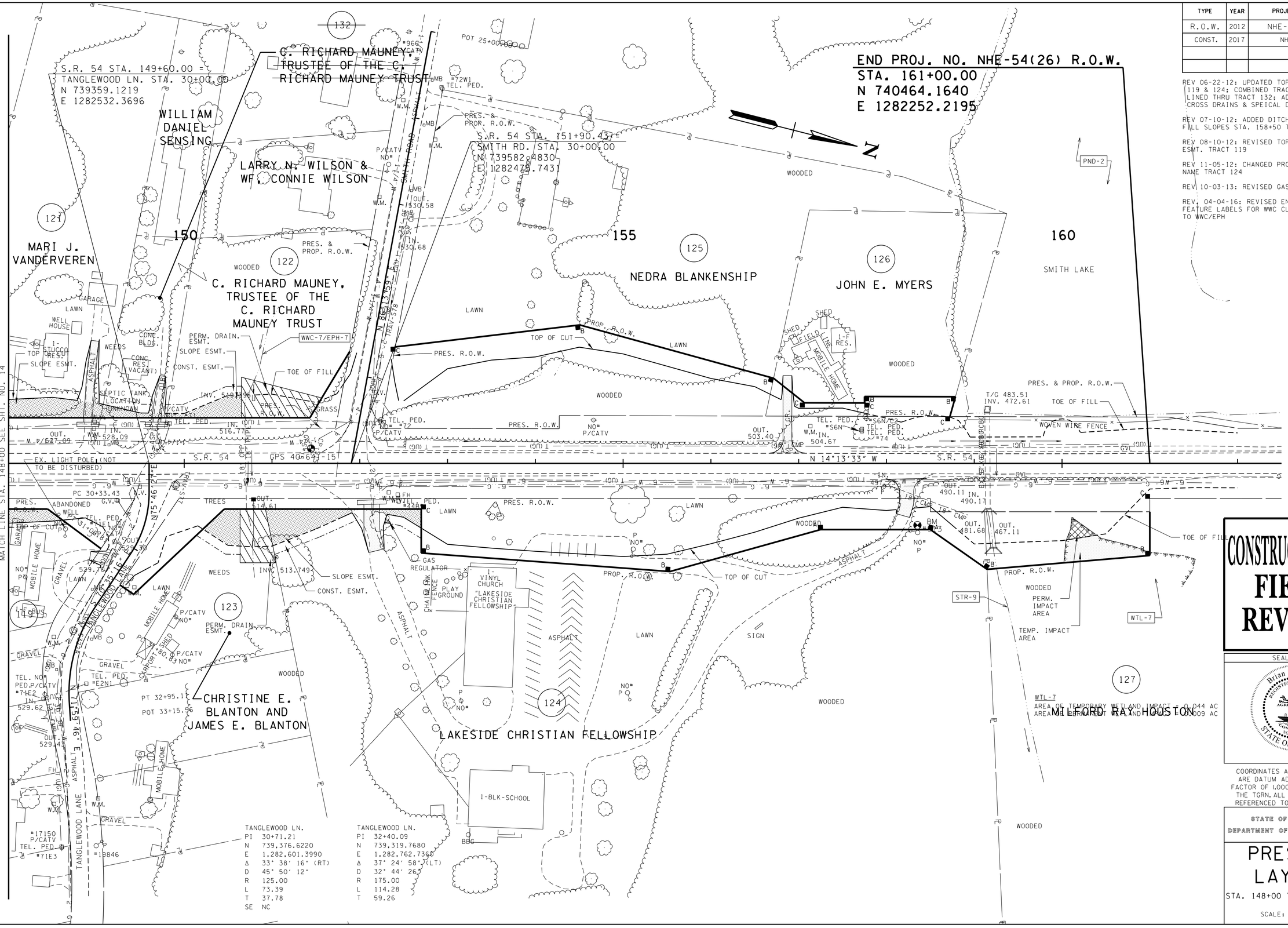
REV 07-10-12: ADDED DITCH LT & REVISED FILL SLOPES STA. 158+50 TO 160+00

REV 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119

REV 11-05-12: CHANGED PROPERTY OWNER NAME TRACT 124

REV 10-03-13: REVISED GAS LINE LOCATION

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH



TANGLEWOOD LN.
PI 30+71.21
N 739,376.6220
E 1,282,601.3990
Δ 33° 38′ 16″ (RT)
D 45° 50′ 12″
R 125.00
L 73.39
T 37.78
SE NC

TANGLEWOOD LN.
PI 32+40.09
N 739,319.7680
E 1,282,762.7360
Δ 37° 24′ 58″ (LT)
D 32° 44′ 26″
R 175.00
L 114.28
T 59.26

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 148+00 TO END PROJECT

SCALE: 1"= 50'

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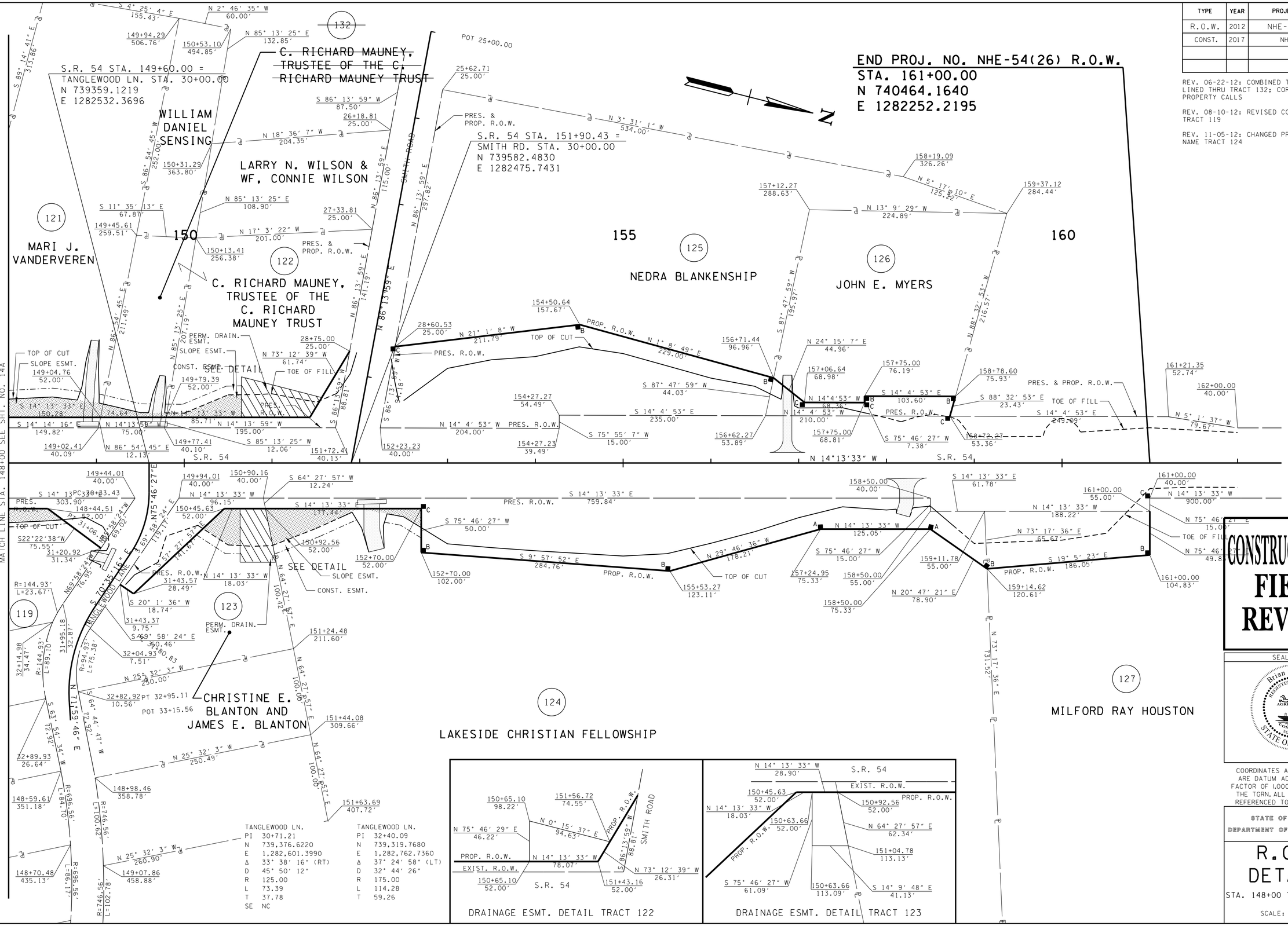
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	15A
CONST.	2017	NH-54(26)	15A

REV. 06-22-12: COMBINED TRACTS 122 & 132, LINED THRU TRACT 132; CORRECTED VARIOUS PROPERTY CALLS

REV. 08-10-12: REVISED CONST. ESMT. TRACT 119

REV. 11-05-12: CHANGED PROPERTY OWNER NAME TRACT 124



TANGLEWOOD LN.
PI 30+71.21
N 739,376.6220
E 1,282,601.3990
Δ 33° 38′ 16″ (RT)
D 45° 50′ 12″
R 125.00
L 73.39
T 37.78
SE NC

TANGLEWOOD LN.
PI 32+40.09
N 739,319.7680
E 1,282,762.7360
Δ 37° 24′ 58″ (LT)
D 32° 44′ 26″
R 175.00
L 114.28
T 59.26

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Troter
REGISTERED ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 148+00 TO END PROJECT

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	15B
CONST.	2017	NH-54(26)	15B

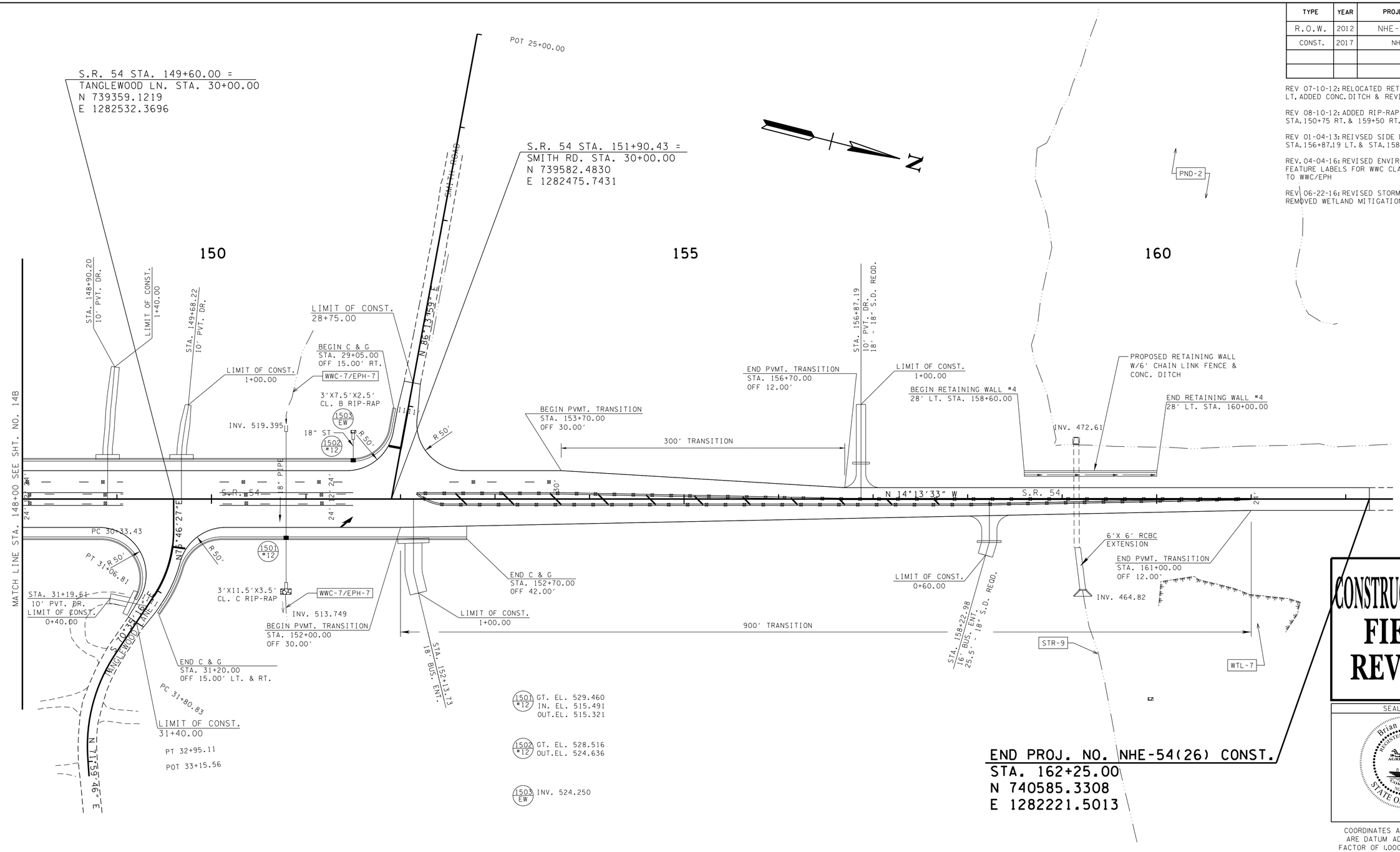
REV 07-10-12: RELOCATED RETAINING WALL LT. ADDED CONC. DITCH & REVISED LENGTH

REV 08-10-12: ADDED RIP-RAP AT OUTLETS STA. 150+75 RT. & 159+50 RT.

REV 01-04-13: REIVSED SIDE DRAINS AT STA. 156+87.19 LT. & STA. 158+22.98 RT.

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

REV 06-22-16: REVISED STORM SEWER; REMOVED WETLAND MITIGATION



TANGLEWOOD LN.
PI 30+71.21
N 739,376.6220
E 1,282,601.3990
Δ 33° 38' 16" (RT)
D 45° 50' 12"
R 125.00
L 73.39
T 37.78
SE NC

TANGLEWOOD LN.
PI 32+40.09
N 739,319.7680
E 1,282,762.7360
Δ 37° 24' 58" (LT)
D 32° 44' 26"
R 175.00
L 114.28
T 59.26

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 148+00 TO END PROJECT

SCALE: 1"= 50'

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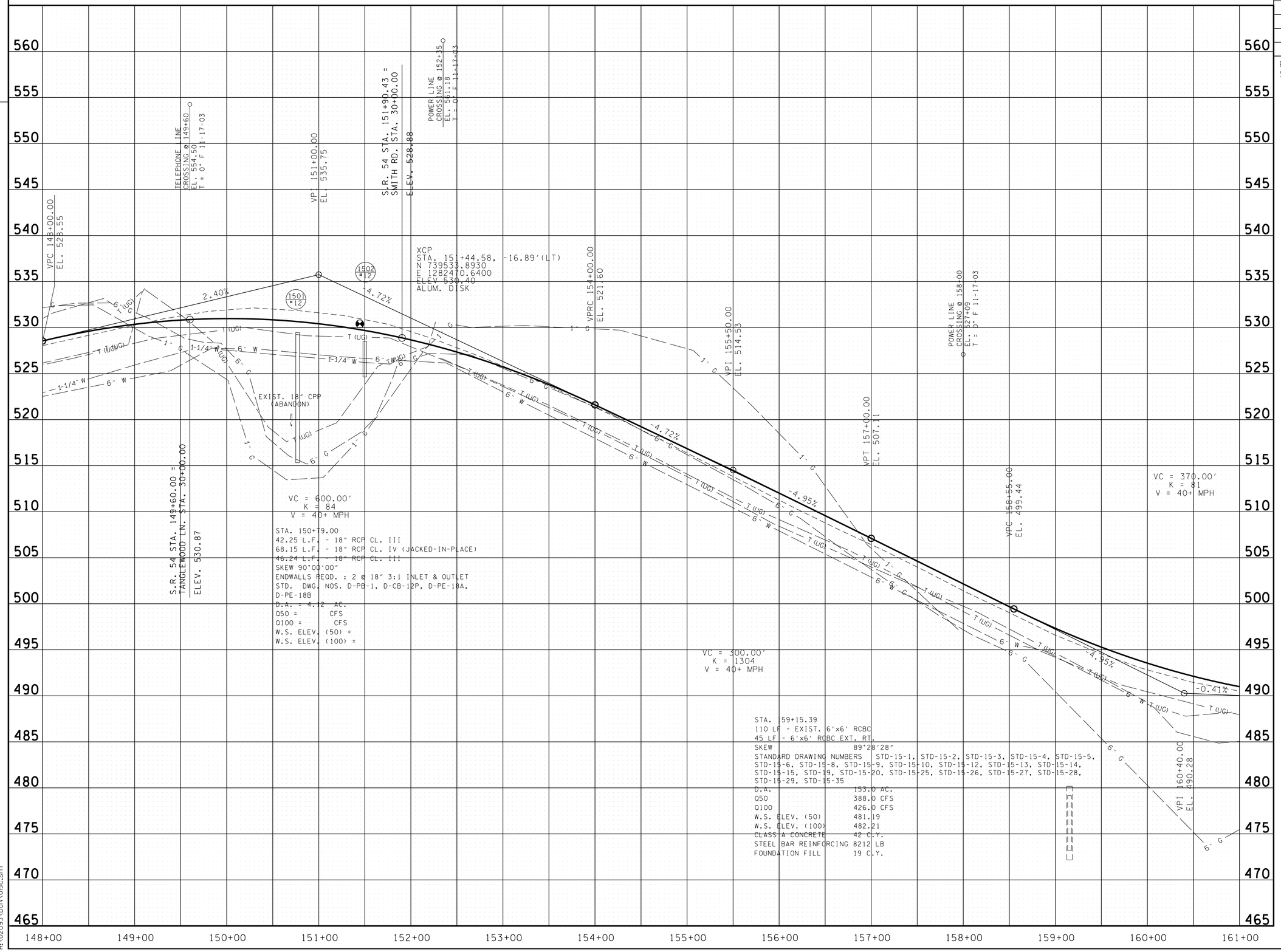
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

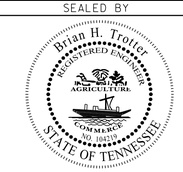
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	15C
CONST.	2017	NH-54(26)	15C

REV 06-22-16: REVISED STORM SEWER



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 148+00 TO STA. 161+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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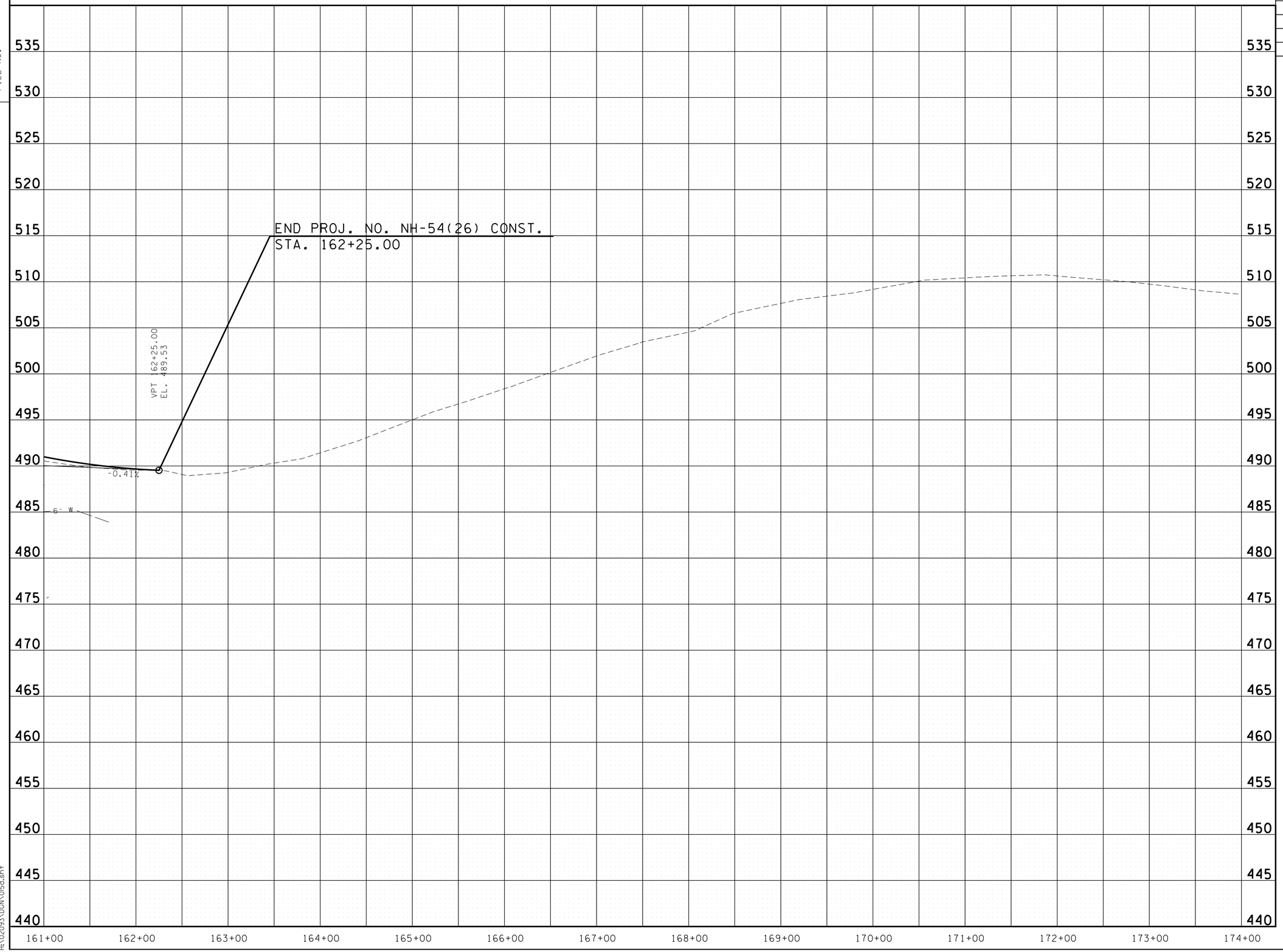
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	15D
CONST.	2017	NH-54(26)	15D



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 161+00 TO END PROJECT
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

7/25/2016 3:01:02 PM
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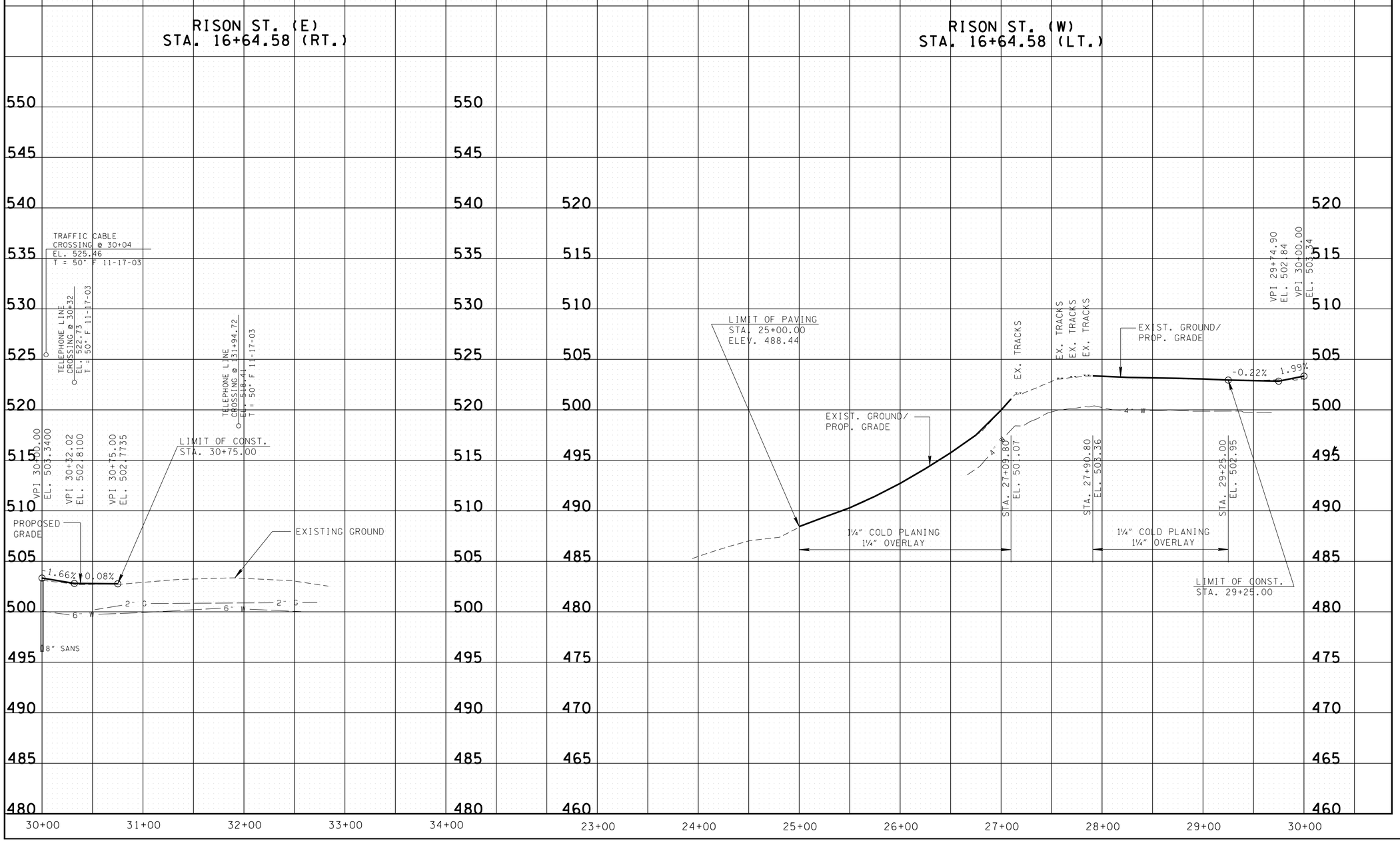
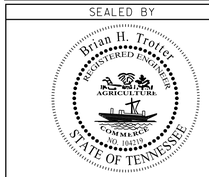
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16
CONST.	2017	NH-54(26)	16



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

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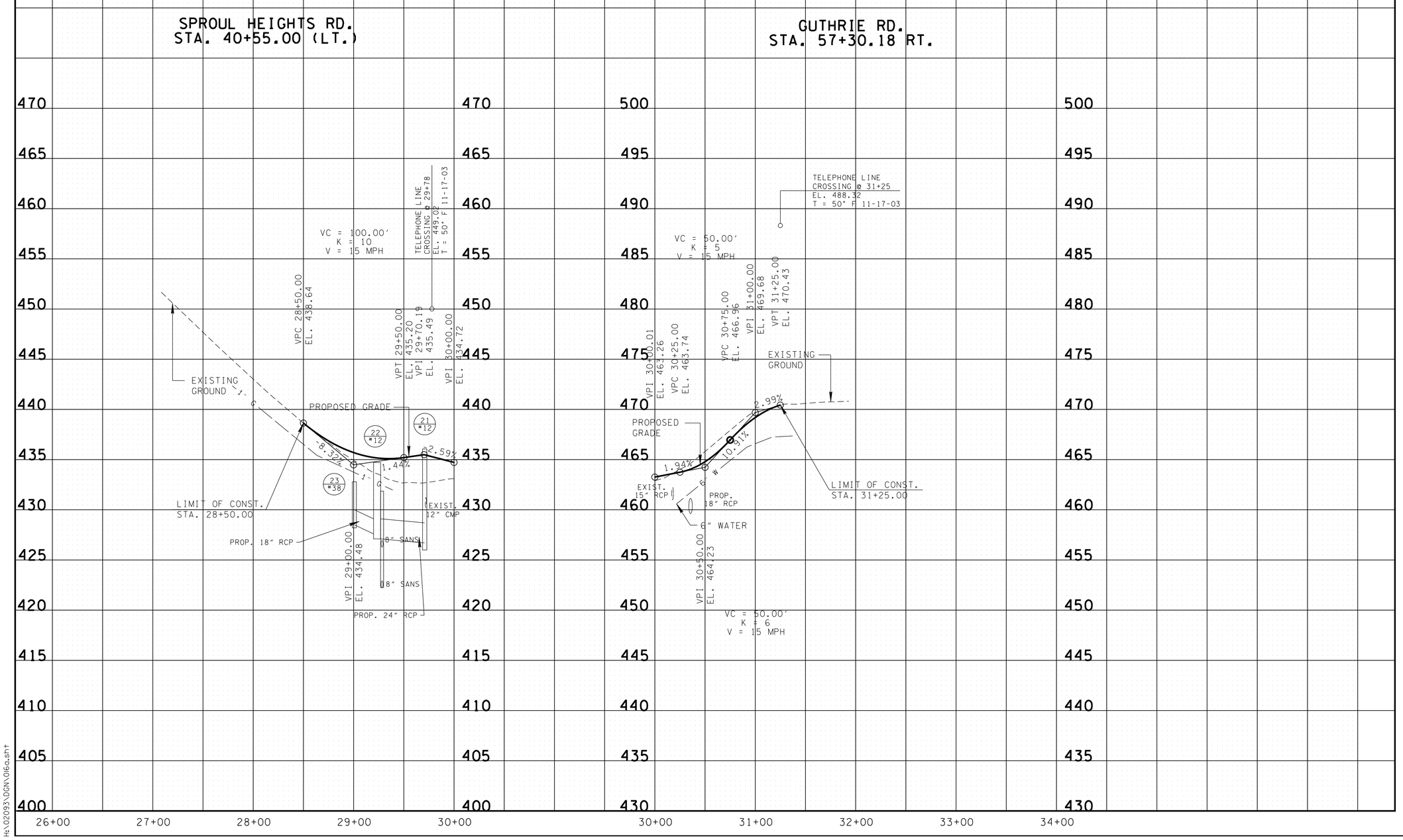
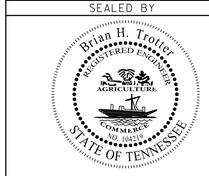
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16A
CONST.	2017	NH-54(26)	16A



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
SIDE ROADS
AND STREETS

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

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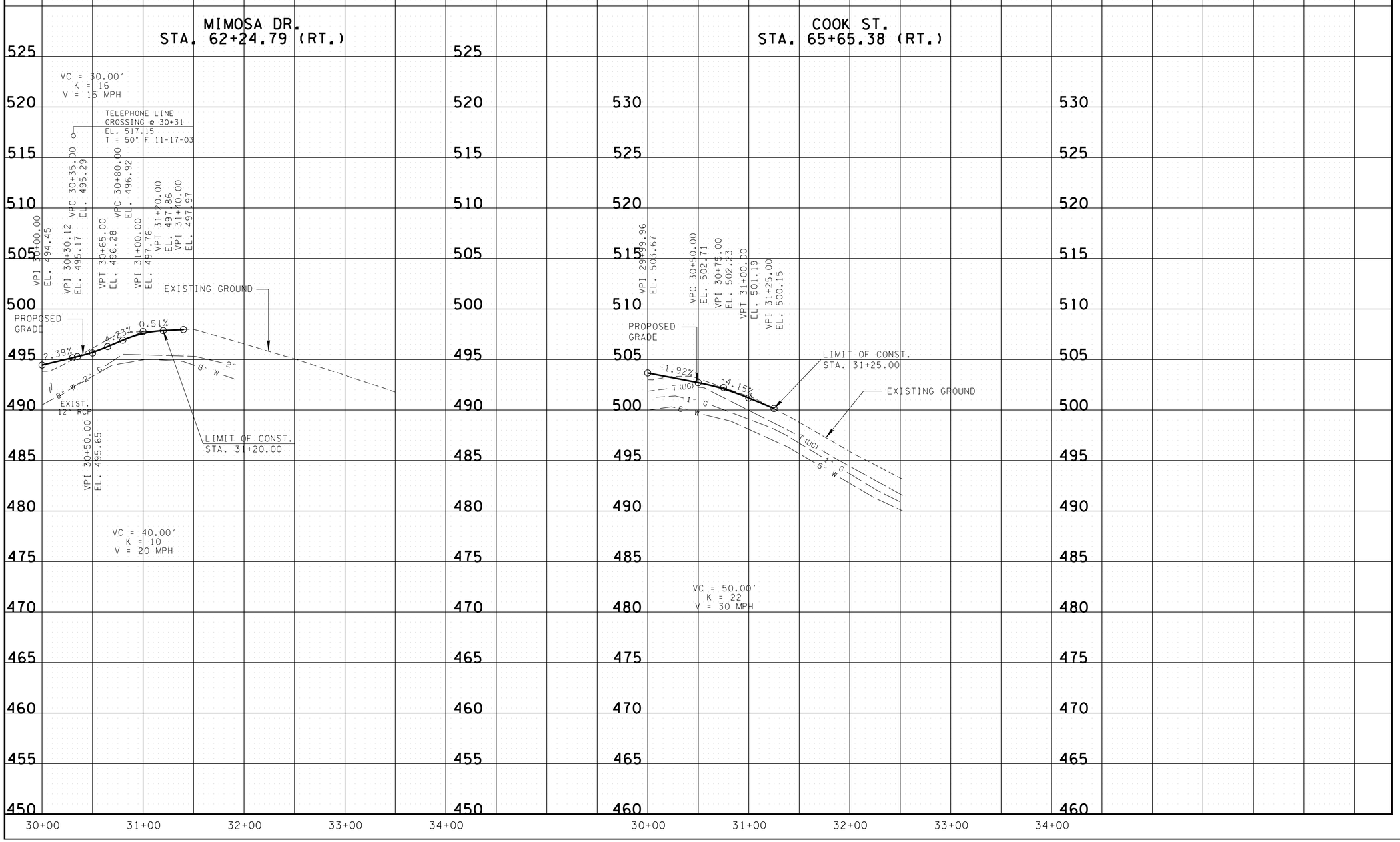
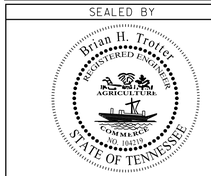
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16B
CONST.	2017	NH-54(26)	16B



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
SIDE ROADS
AND STREETS

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

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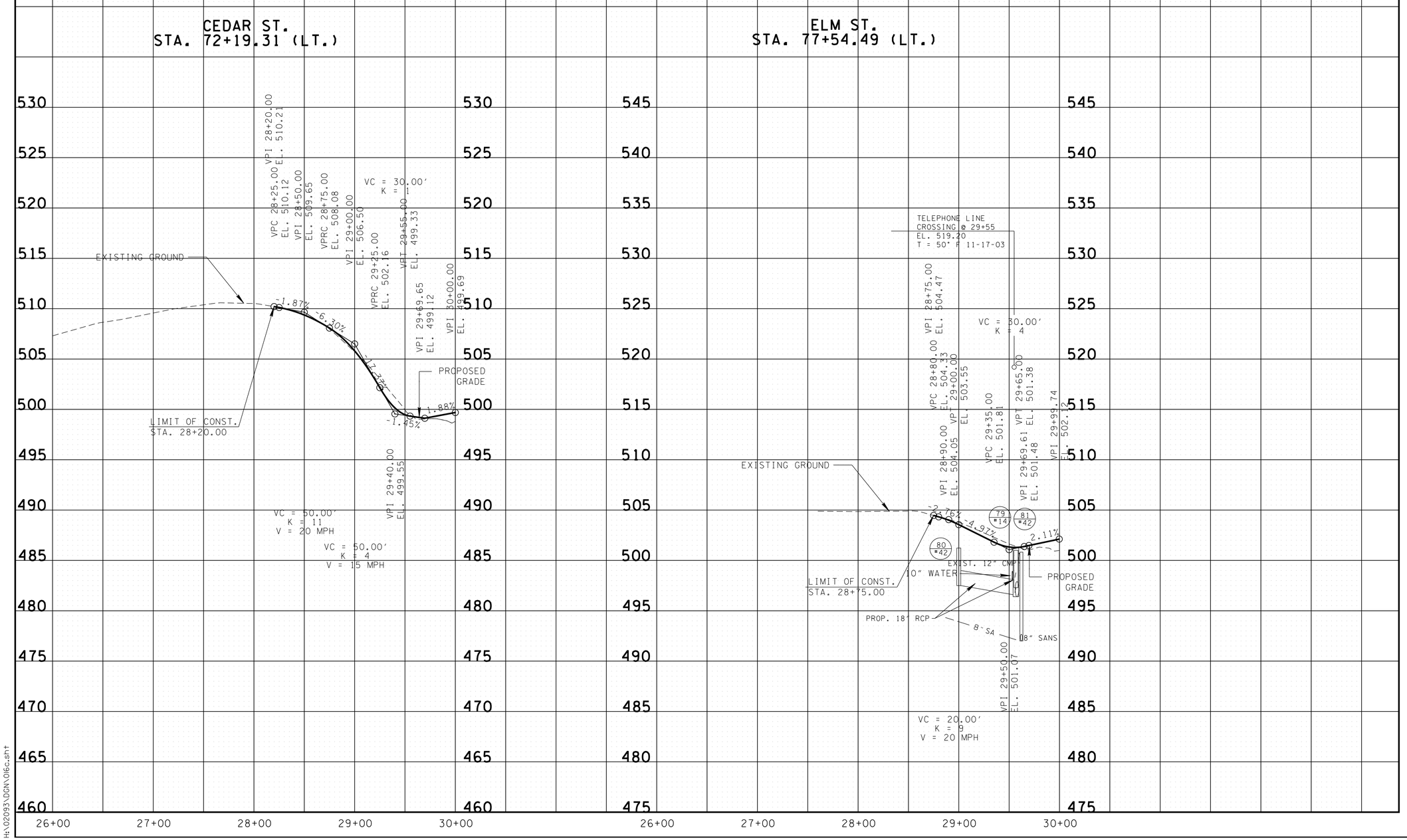
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16C
CONST.	2017	NH-54(26)	16C



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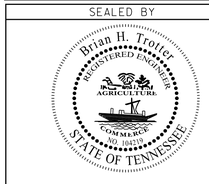
CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

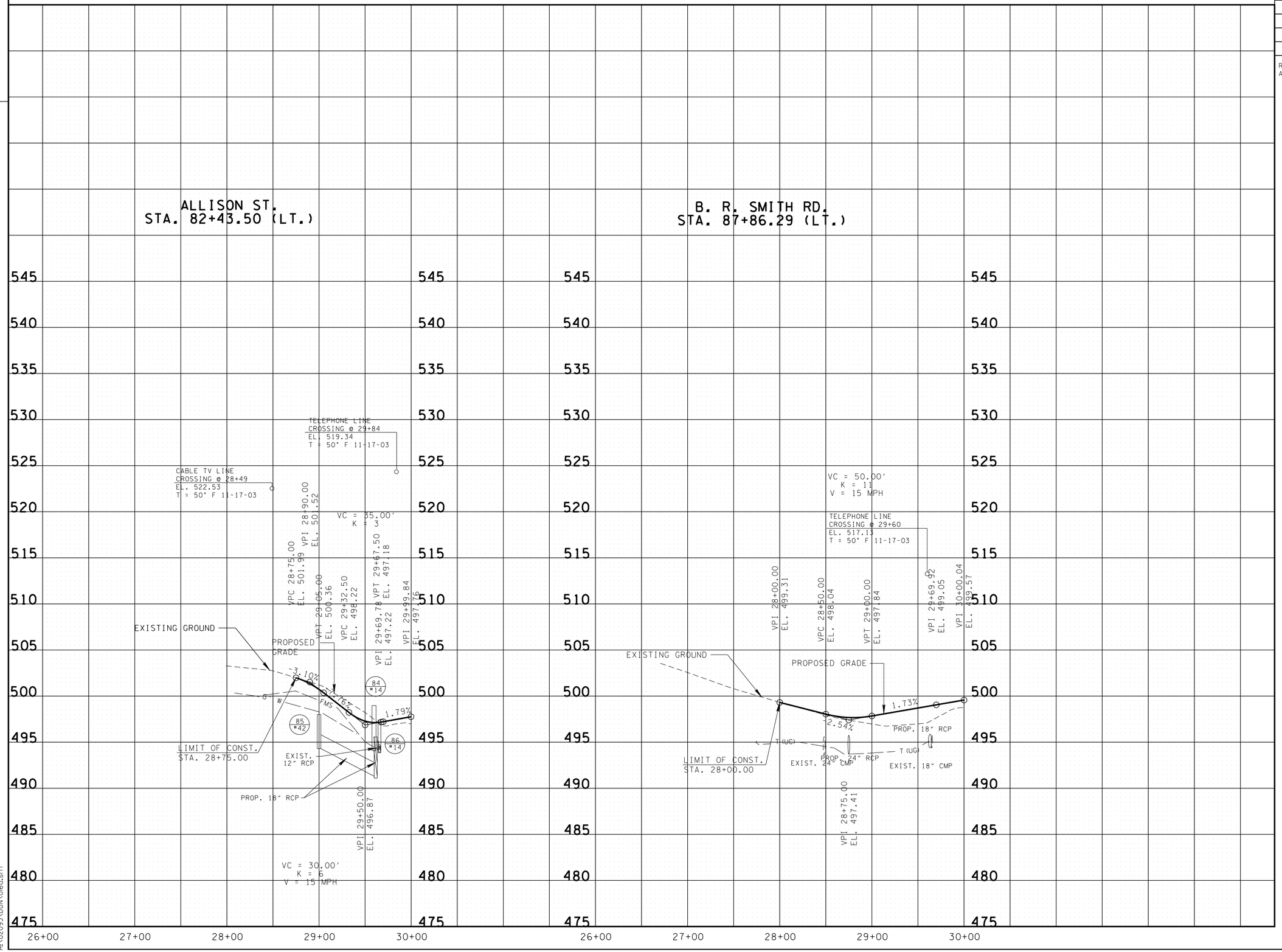
PROFILE OF
SIDE ROADS
AND STREETS

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

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

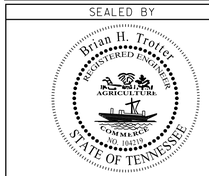
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16D
CONST.	2017	NH-54(26)	16D

REV. 06-22-12: CHANGED PROP. CROSS DRAIN AT B.R. SMITH RD.



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
SIDE ROADS
AND STREETS

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

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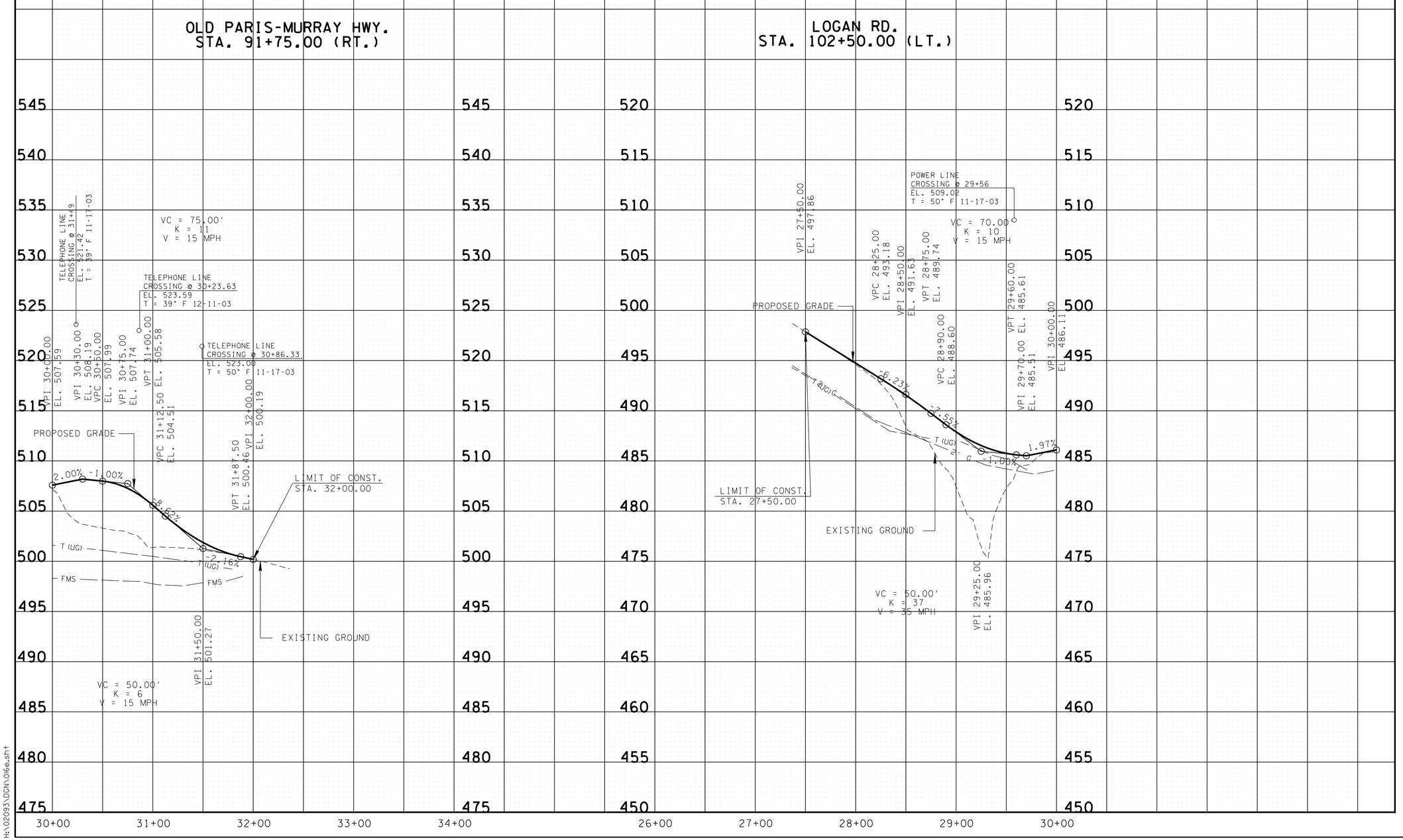
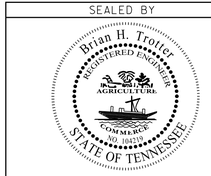
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16E
CONST.	2017	NH-54(26)	16E



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

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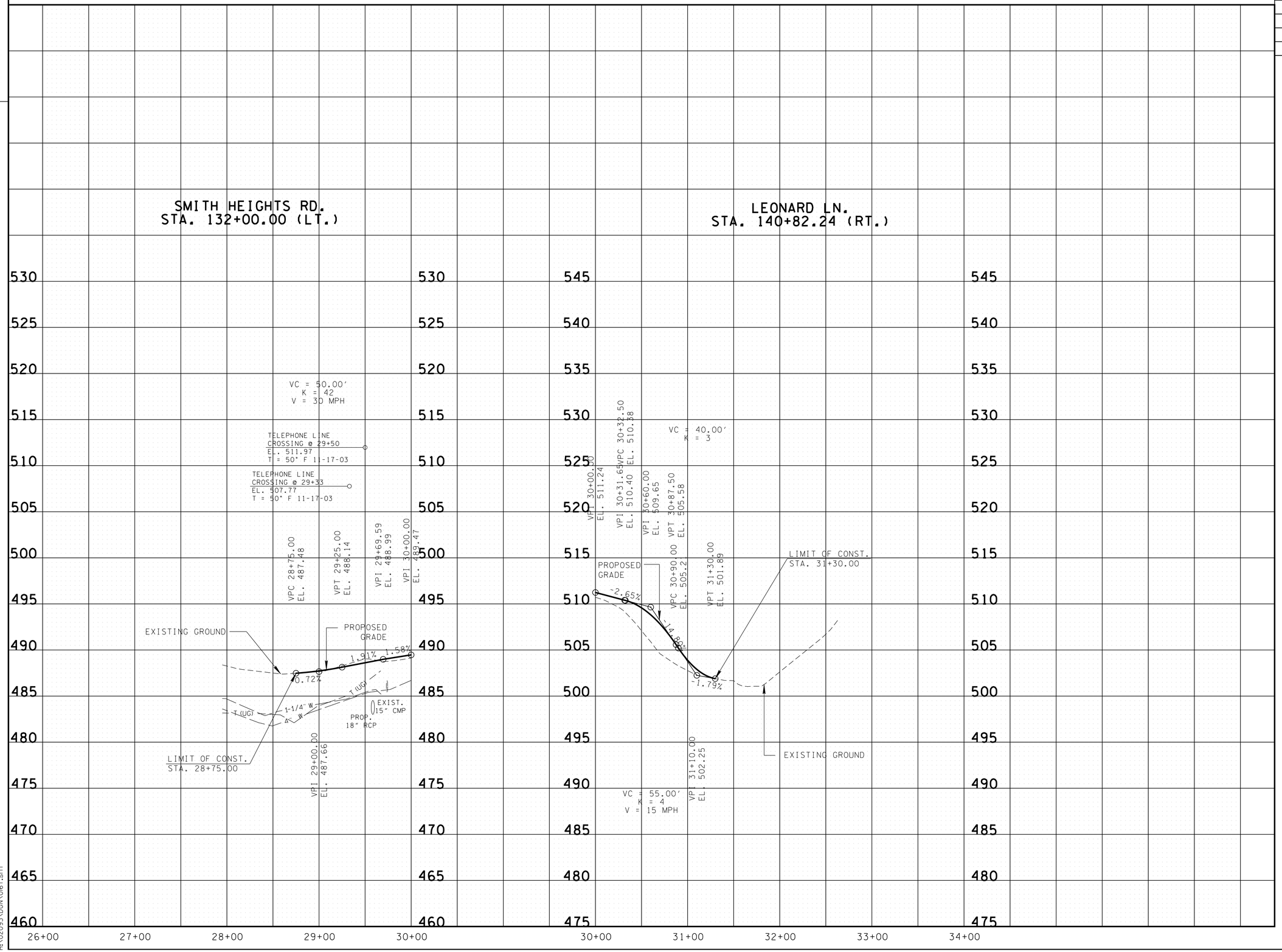
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16F
CONST.	2017	NH-54(26)	16F



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
SIDE ROADS
AND STREETS

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

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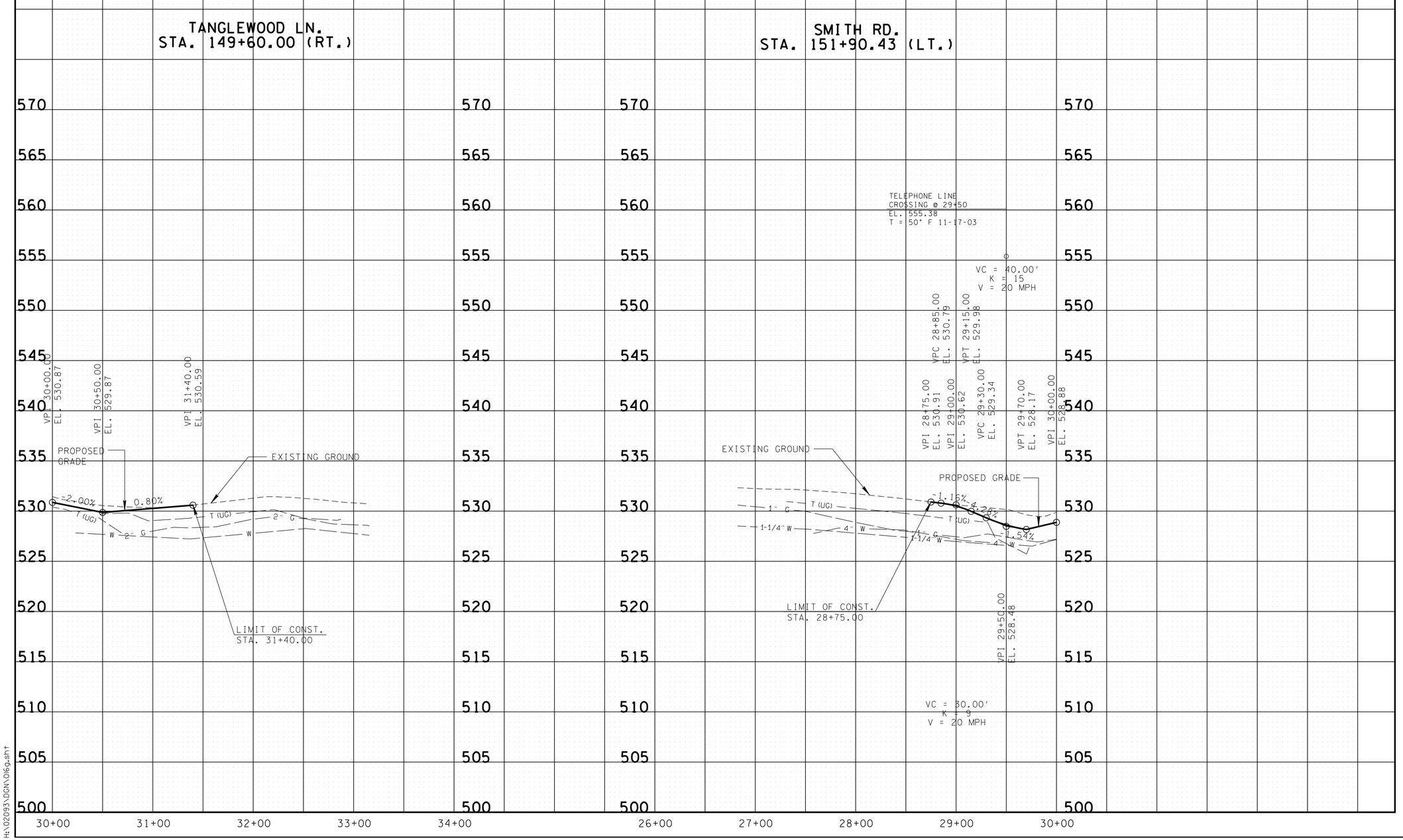
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	16G
CONST.	2017	NH-54(26)	16G



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102375
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

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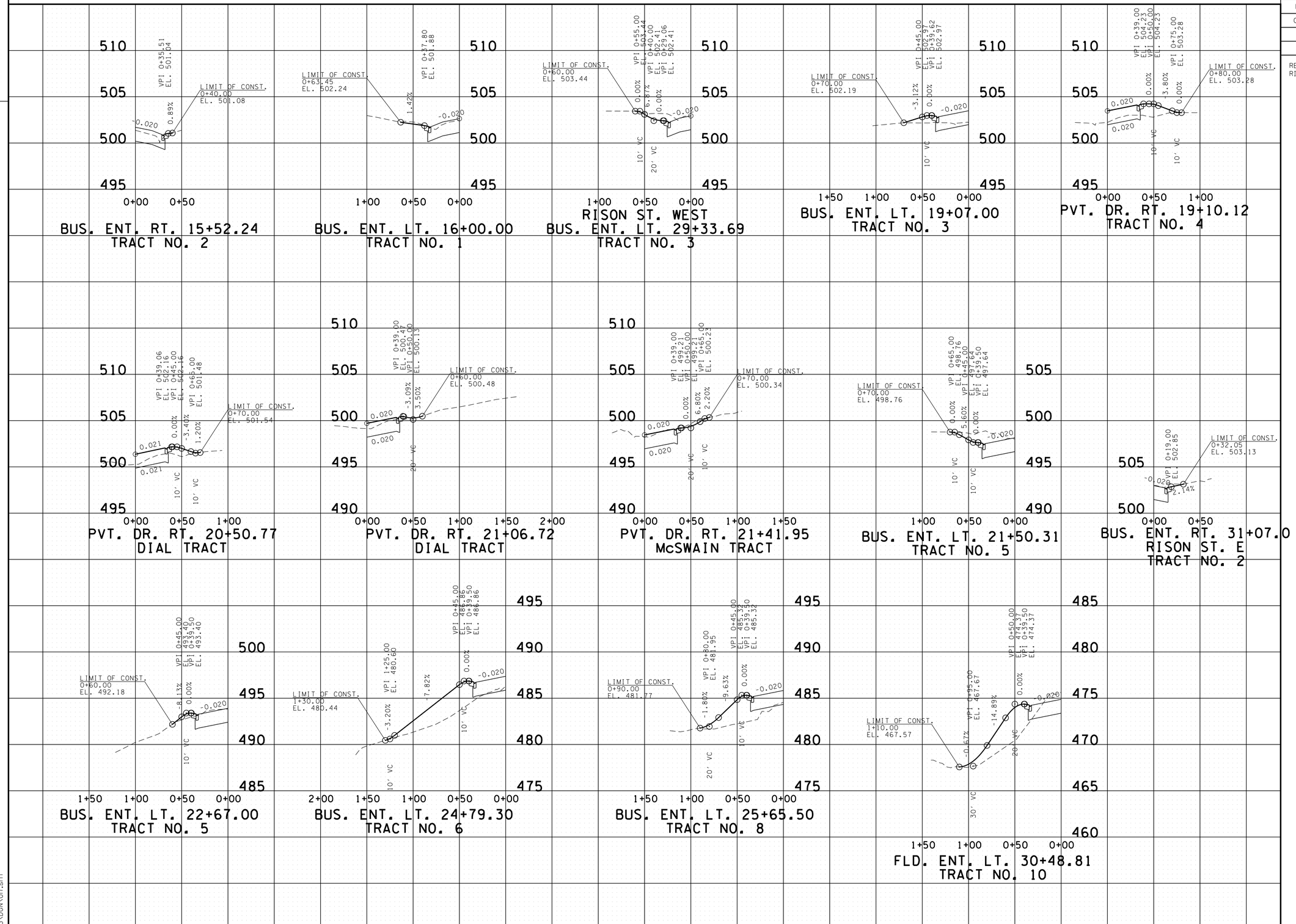
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17
CONST.	2017	NH-54(26)	17

REV. 06-03-13: ADDED BUS. ENT. RT. STA. 31+07
RISON E ON TRACT 2

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102219
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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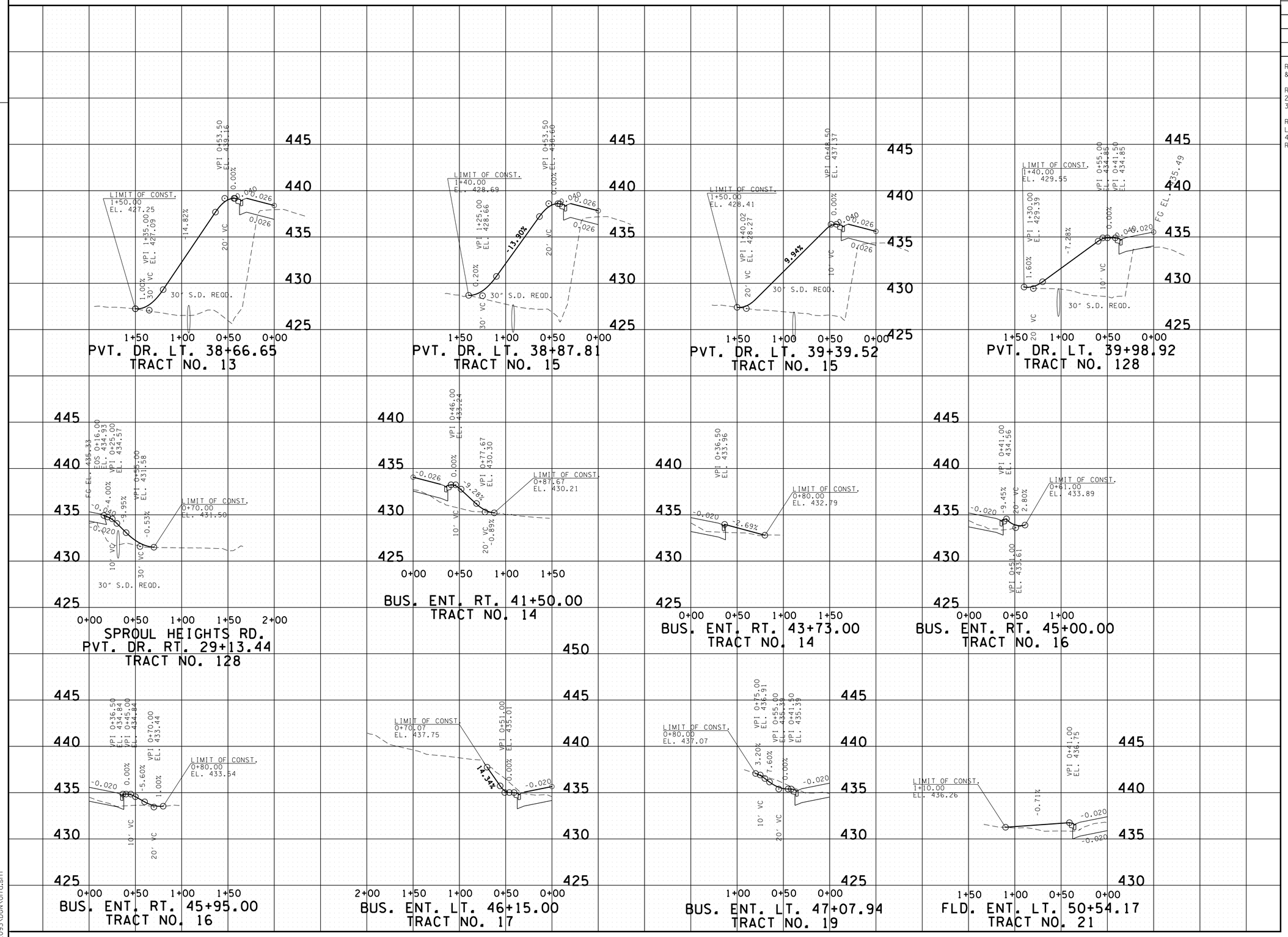
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17A
CONST.	2017	NH-54(26)	17A

REV. 06-22-12: REVISED DRIVES STA. 41+50 RT. & 45+00 RT.

REV. 01-04-13: REVISED SIDE DRAINS AT STA. 29+13.44 SPROUL HGTS., STA. 38+66.65, STA. 38+87.71, STA. 39+39.52 & STA. 39+98.92

REV. 06-03-13: REVISED DRIVES STA. 38+66.65 LT., 38+87.81 LT., 39+39.52 LT., 39+98.92 LT., 41+50 RT., 46+15 LT. & SPROUL HGTS 29+13.44 RT.



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Troter
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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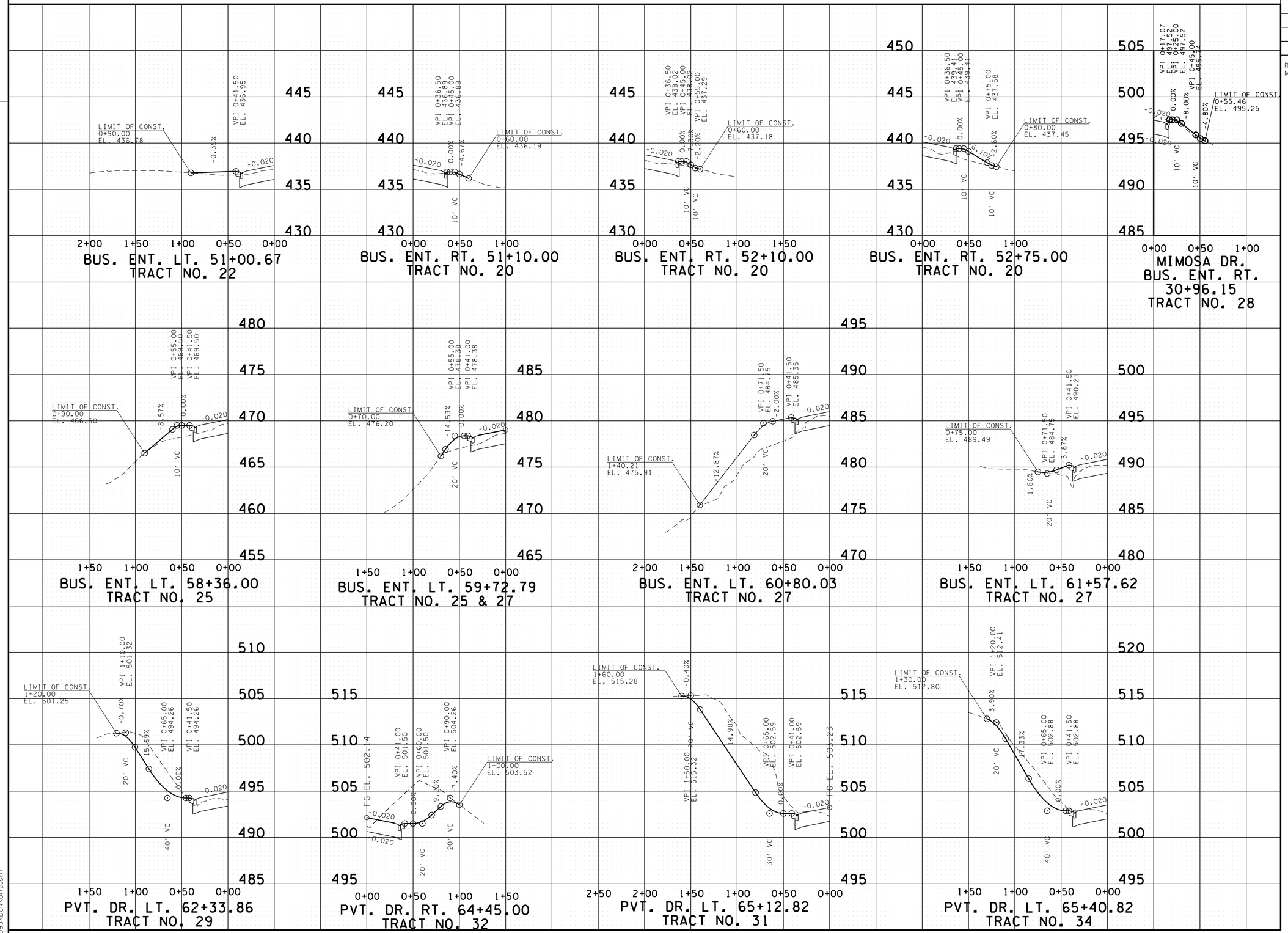
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

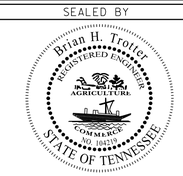
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17B
CONST.	2017	NH-54(26)	17B

REV. 06-22-12: ADDED DRIVE STA. 31+00
MIMOSA: REVISED DRIVE STA. 61+57.62 LT.



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
PRIVATE
DRIVES

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

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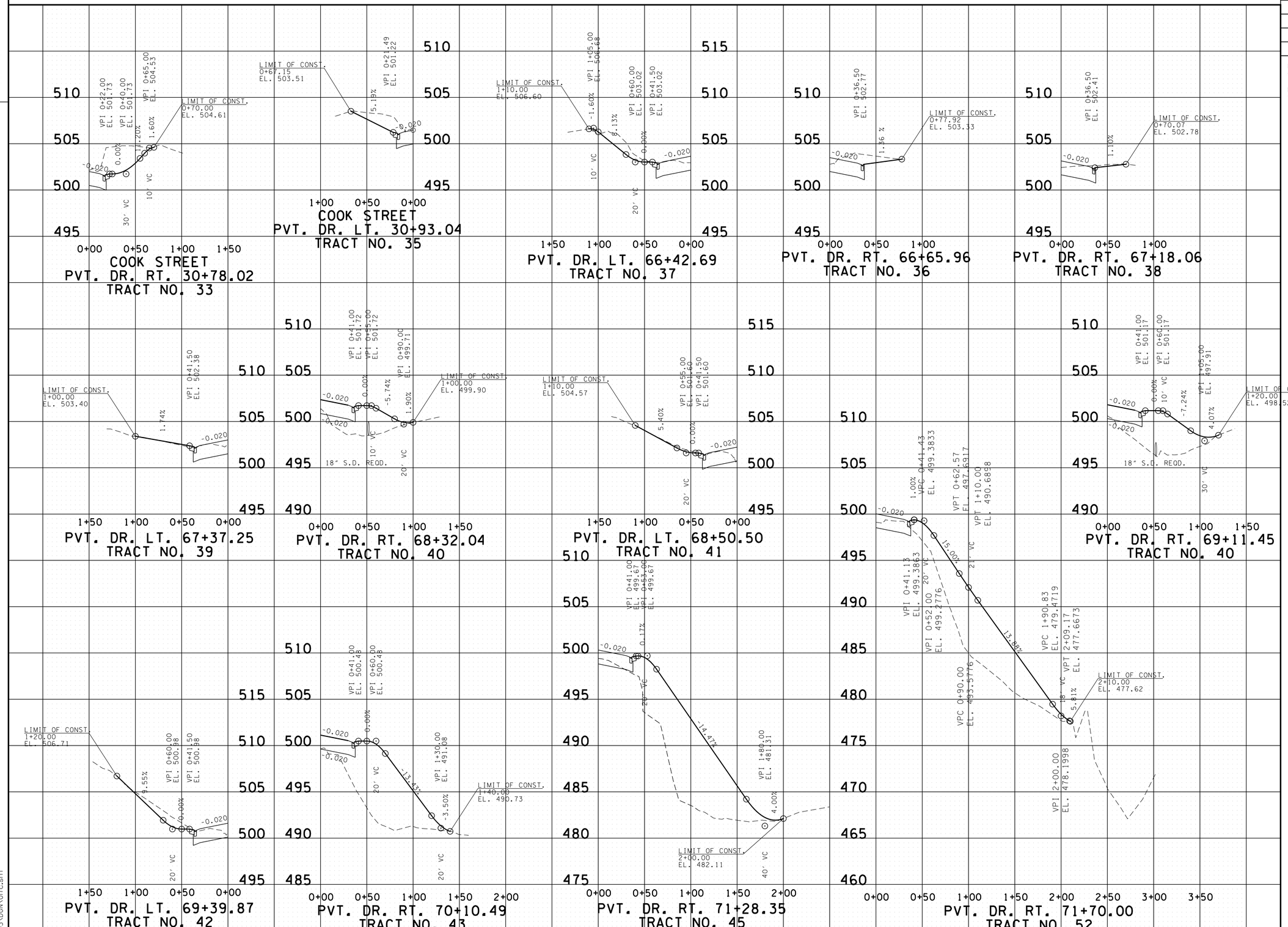
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17C
CONST.	2017	NH-54(26)	17C

REV. 01-04-13: REVISED SIDE DRAINS AT STA. 68+32.04 & STA. 69+11.45

REV. 06-03-13: REVISED PROFILE OF DRIVE AT STA. 71+28.35 RT.



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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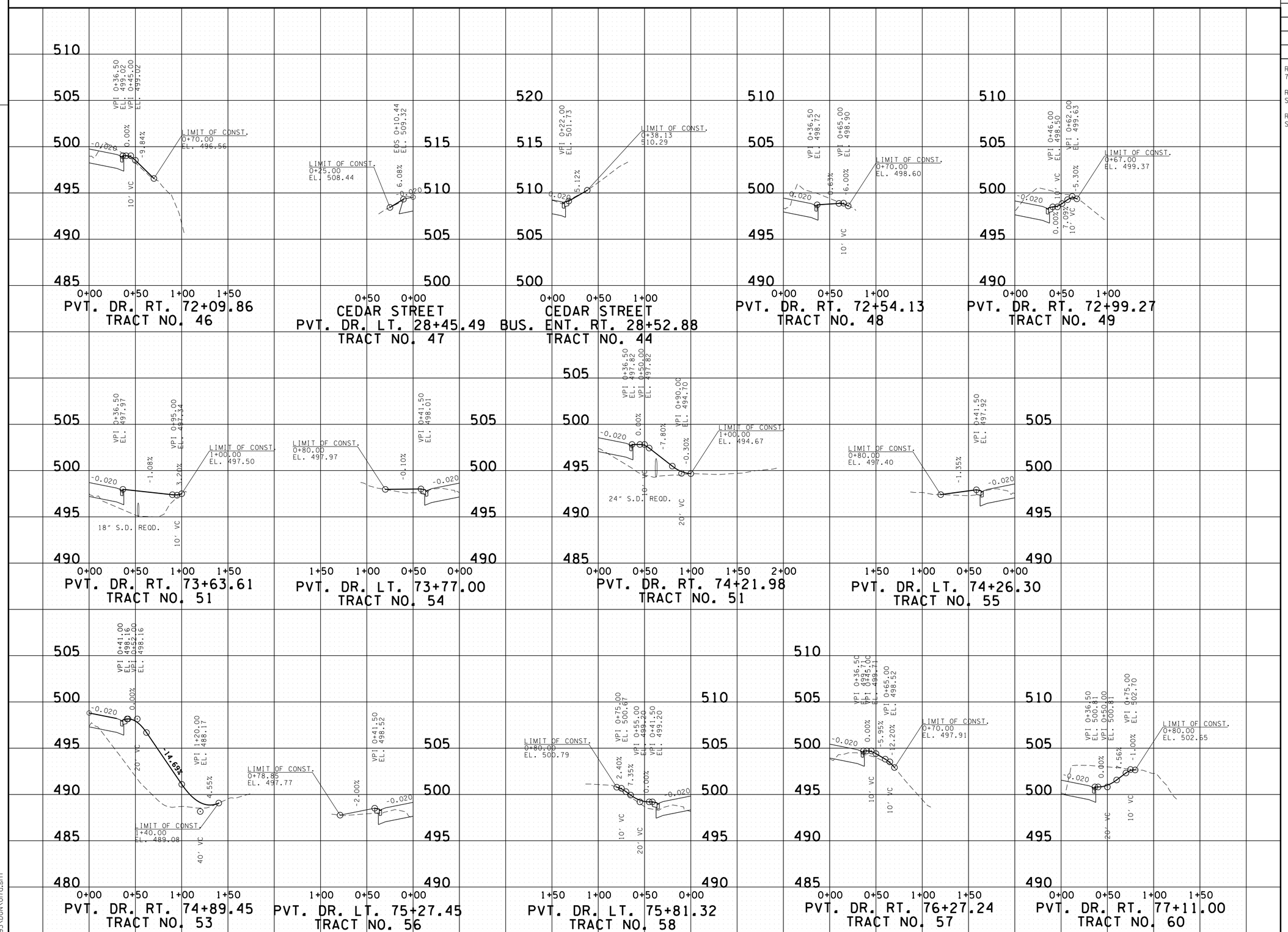
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17D
CONST.	2017	NH-54(26)	17D

REV. 01-04-13: REVISED SIDE DRAINS AT STA. 73+63.61 & STA. 74+21.98

REV. 06-03-13: REVISED PROFILE OF DRIVES STA. 72+99.27 & 74+89.45

REV. 07-08-13: REVISED PROFILE OF DRIVE STA. 72+99.27



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 108319
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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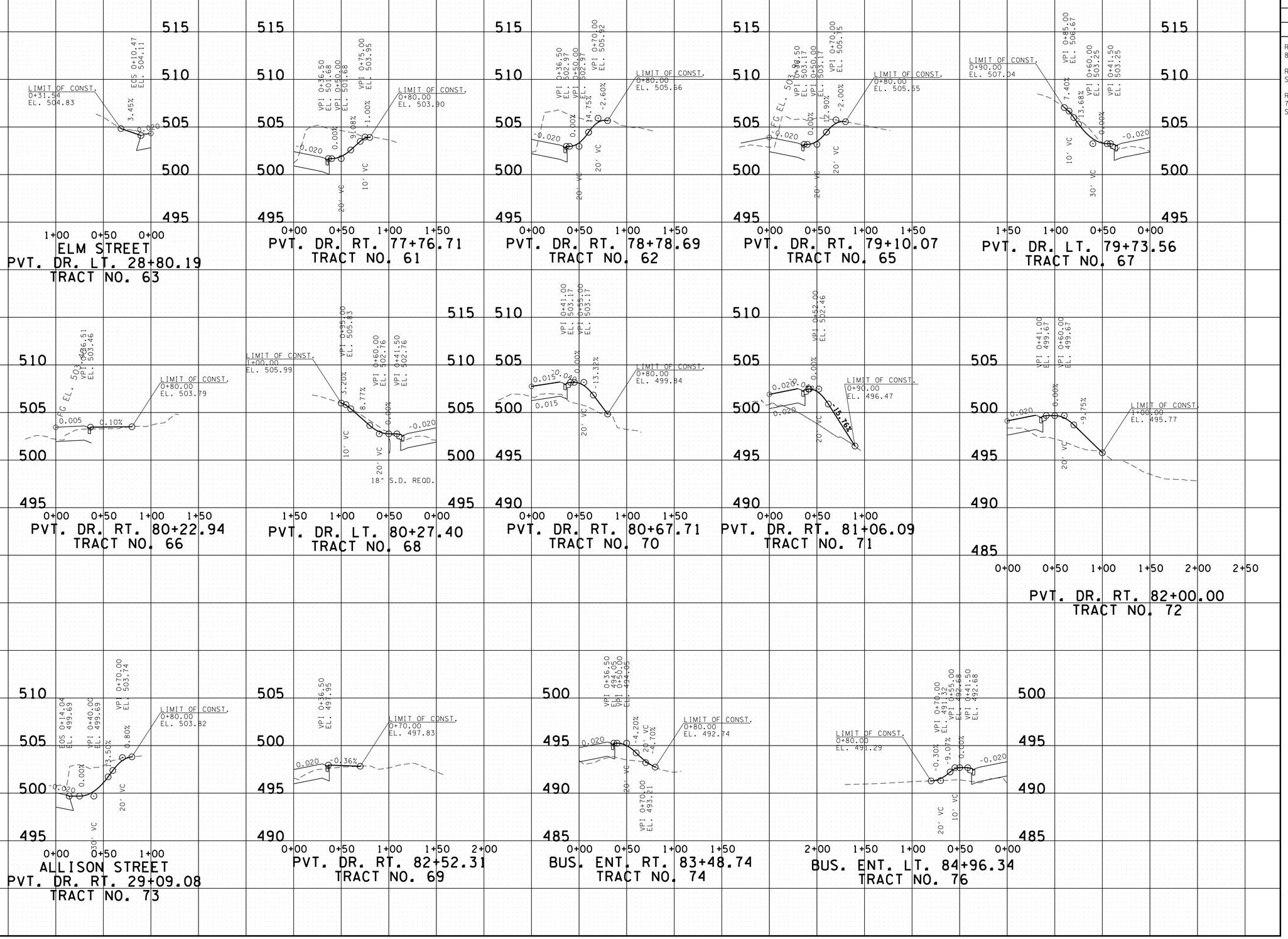
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17E
CONST.	2017	NH-54(26)	17E

REV. 01-04-13: REVISED SIDE DRAIN AT STA. 80+27.40

REV. 06-03-13: REVISED PROFILE OF DRIVE STA. 81+06.09 RT.

REV. 08-01-14: REMOVED PROFILES STA. 79+16.65 & STA. 79+99.30; ADDED PROFILES STA. 79+10.07 & STA. 80+22.94



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
PRIVATE
DRIVES

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

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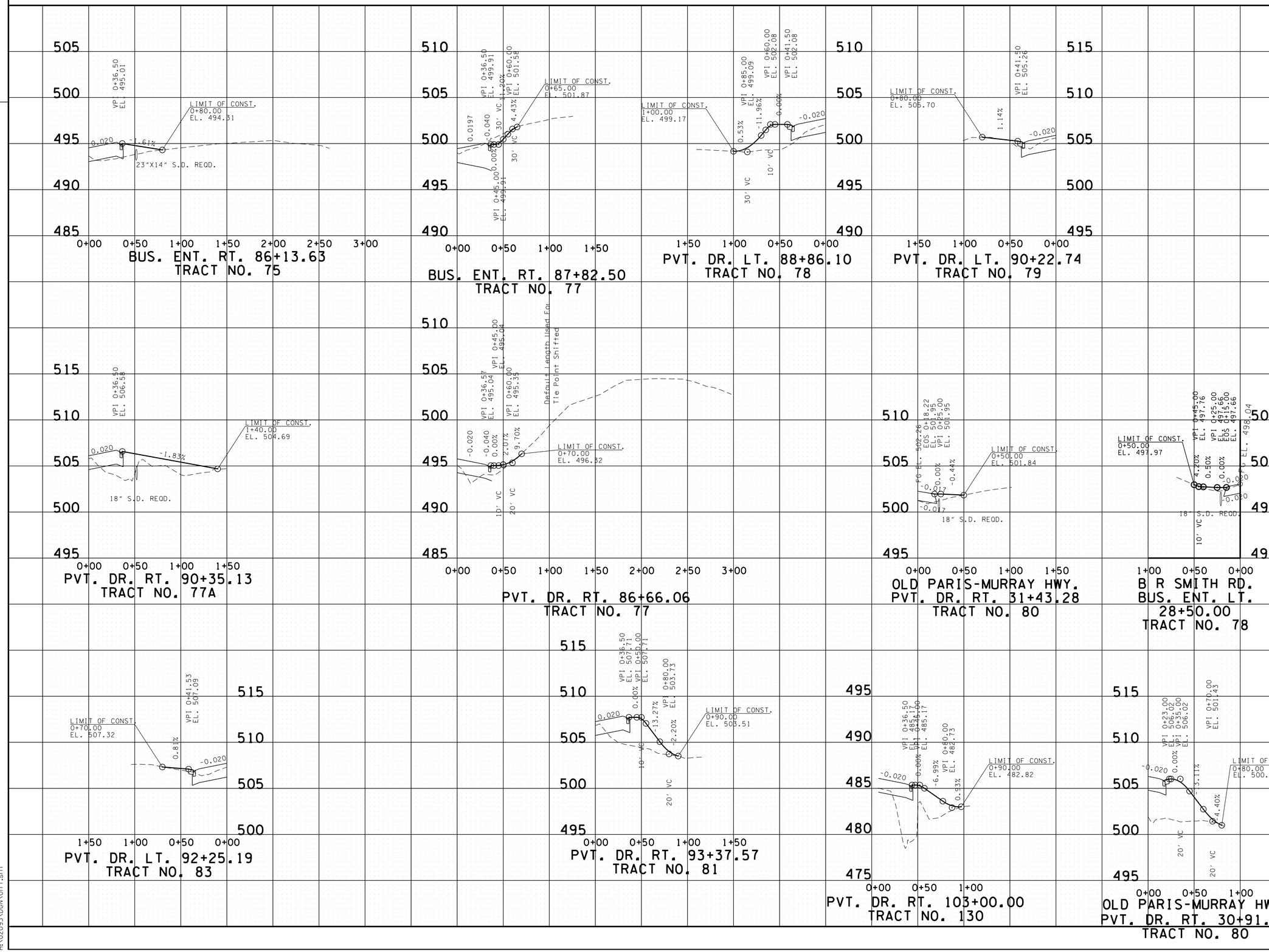
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17F
CONST.	2017	NH-54(26)	17F

REV. 06-22-12: ADDED DRIVE STA. 28+50 B.R. SMITH

REV. 01-04-13: REVISED SIDE DRAINS AT STA. 86+13.63, STA. 90+35.13 & 31+43.28 OLD PARIS MURRAY HWY.

REV. 06-03-13: ADDED DRIVE STA. 30+91 OLD PARIS MURRAY HWY.

REV. 07-08-13: REMOVED DRIVES STA. 90+39.55, 91+17.19, 93+18.76 & 94+58.65; ADDED DRIVE STA. 103+00.00

REV. 09-10-13: REMOVED DRIVES STA. 87+21.87 & 90+35.13 RT.; ADDED DRIVE STA. 87+82.50 RT.

REV. 05-20-14: ADDED DRIVE 90+35.13 RT. BACK TO PLANS; ADDED DRIVE STA. 86+66.06 RT.

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102270
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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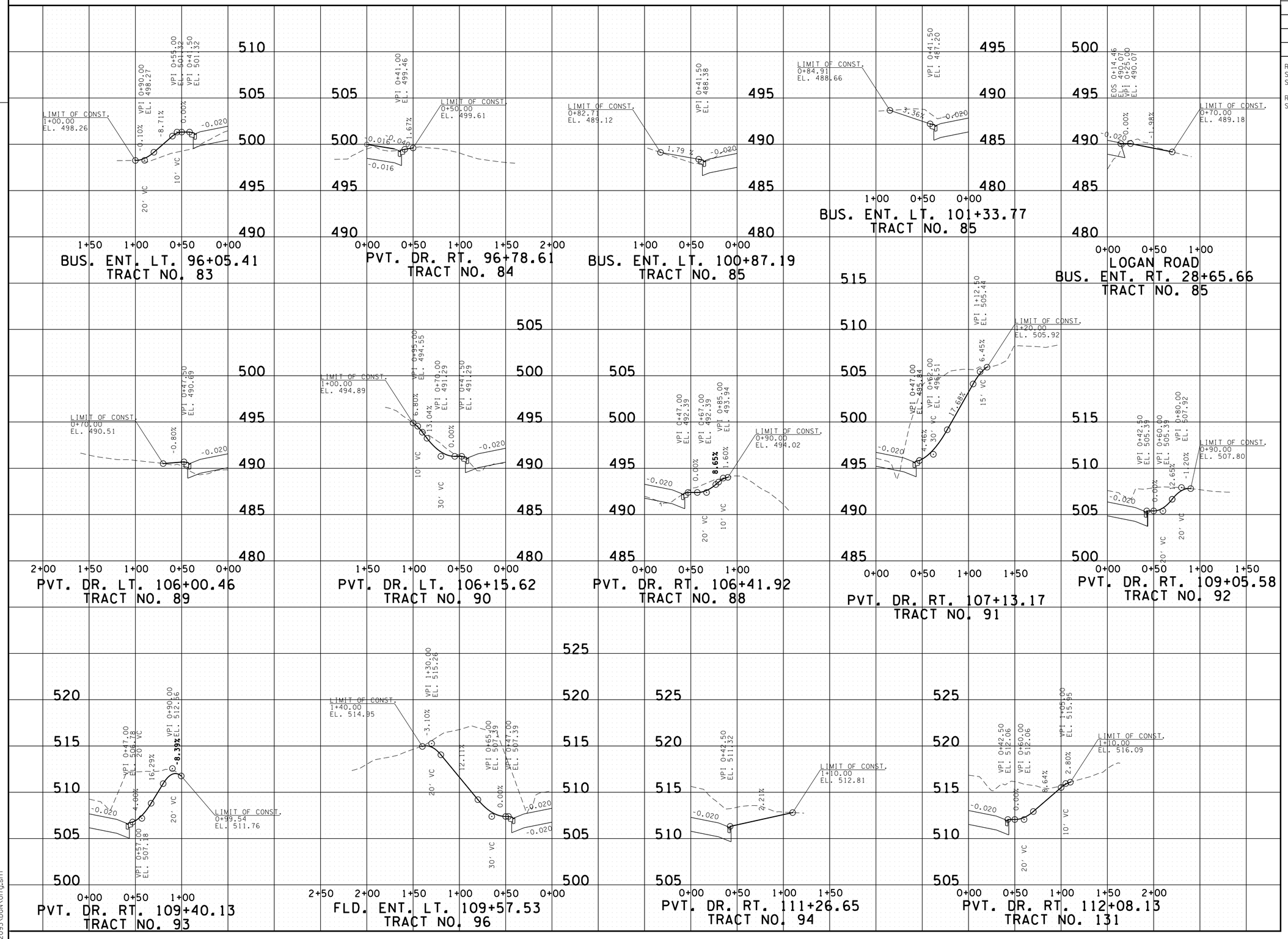
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17G
CONST.	2017	NH-54(26)	17G

REV. 06-03-13: REVISED PROFILE OF DRIVES STA. 106+41.92 RT., STA. 107+13.17 RT. & STA. 109+40.13 RT.

REV. 07-08-13: REVISED PROFILE OF DRIVE AT STA. 107+13.17 RT.



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102375
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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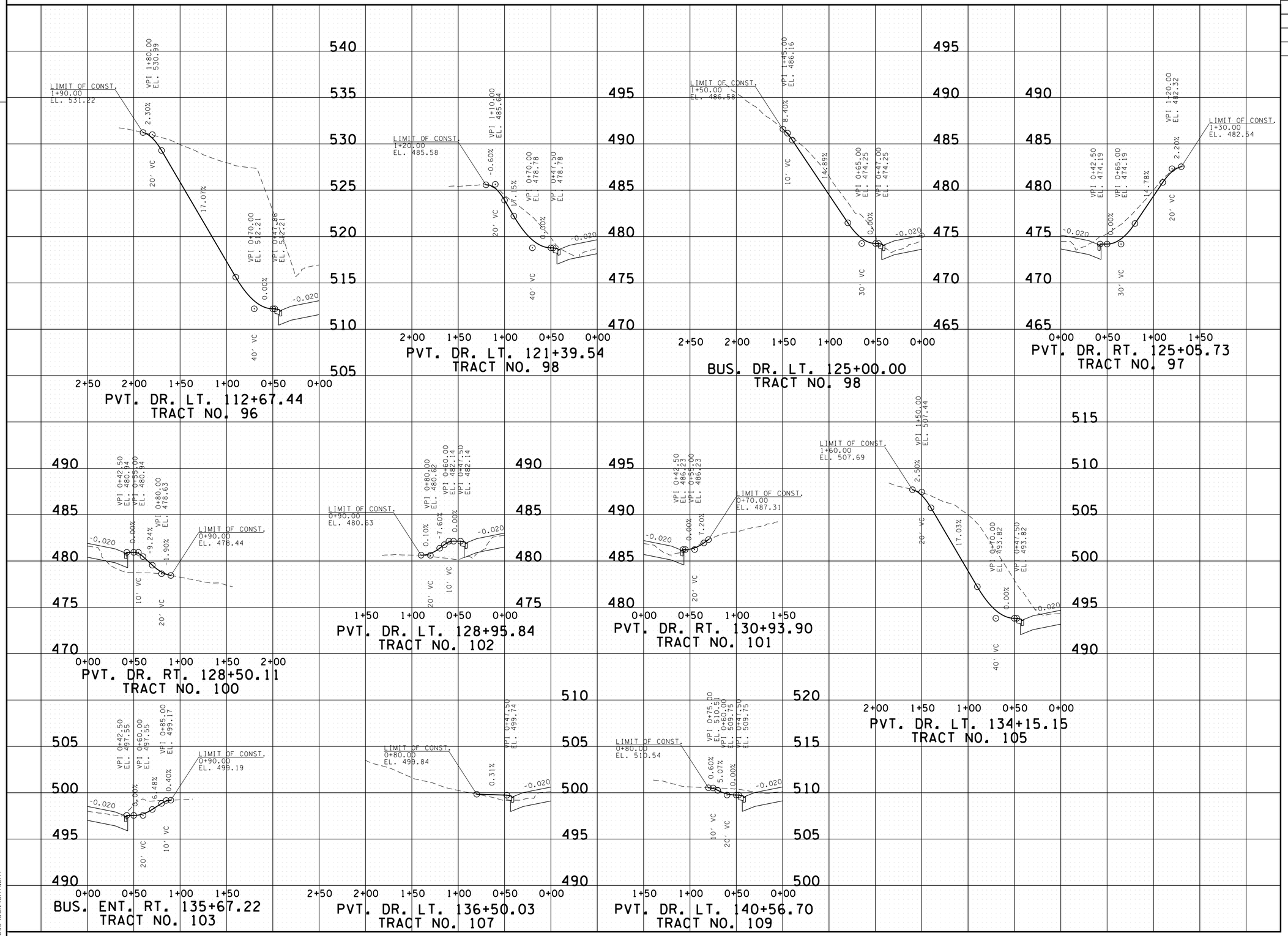
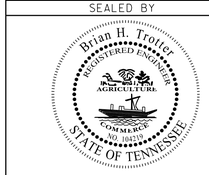
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17H
CONST.	2017	NH-54(26)	17H



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
PRIVATE
DRIVES

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

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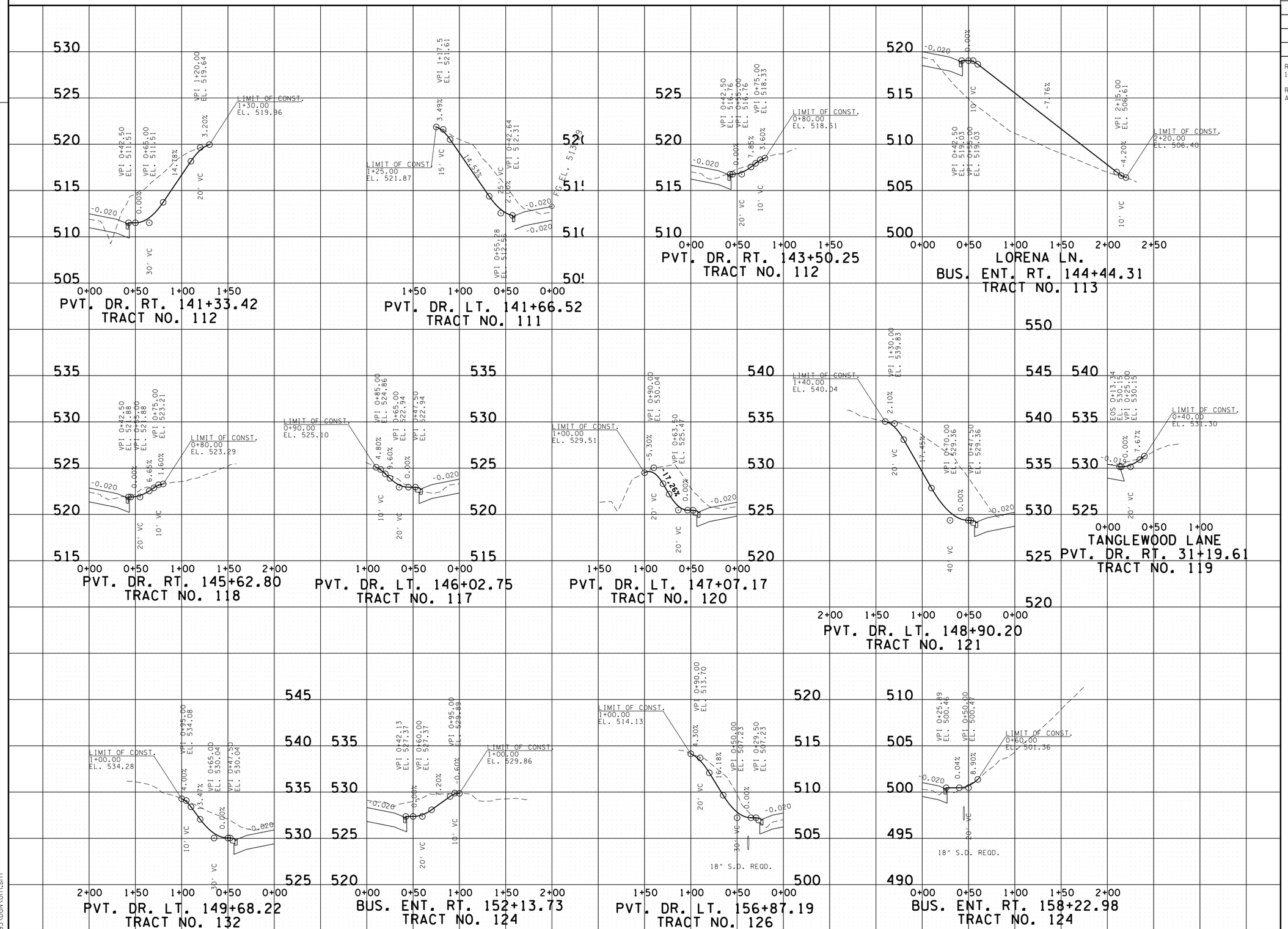
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17I
CONST.	2017	NH-54(26)	17I

REV. 01-04-13: REVISED SIDE DRAINS AT STA. 156+87.19 & STA. 158+22.98

REV. 07-08-13: REMOVED DRIVE STA. 143+41.75; ADDED DRIVE STA. 141+66.52



CONSTRUCTABILITY FIELD REVIEW

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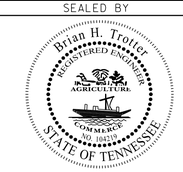

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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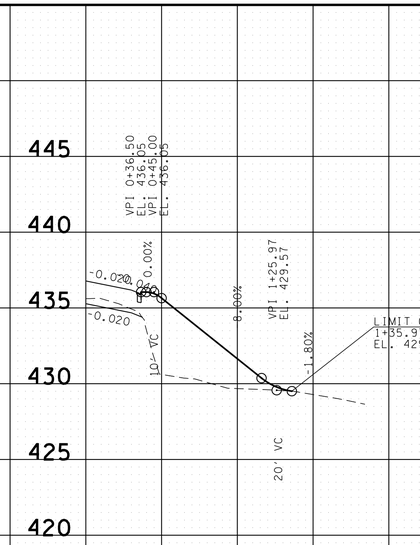
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	17J
CONST.	2017	NH-54(26)	17J

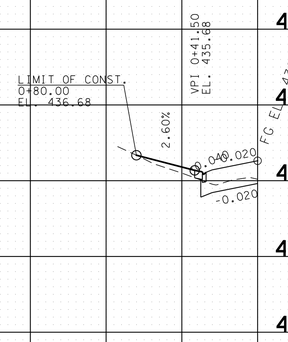
REV 06-22-12: ADDED SHEET

REV 07-30-12: ADDED BUS. ENT. LT. STA. 57+23; ADDED BUS. ENT. RT. STA. 46+64.66

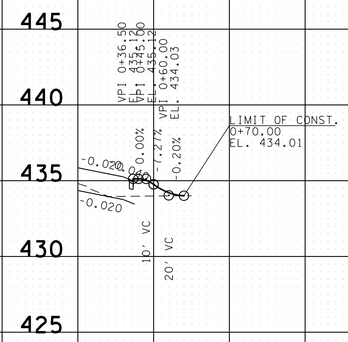
REV 08-10-12: ADDED BUS. ENT. RT. STA. 47+44.53



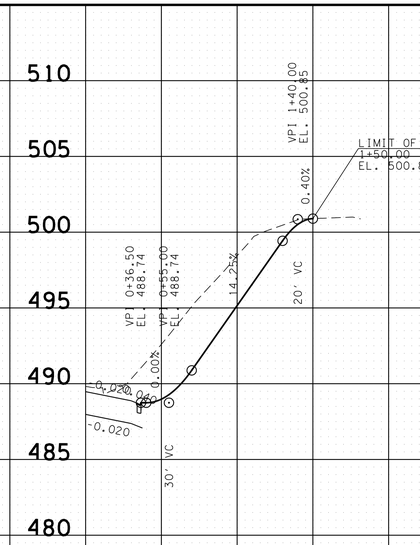
BUS. ENT. RT. 39+31.37
TRACT NO. 14



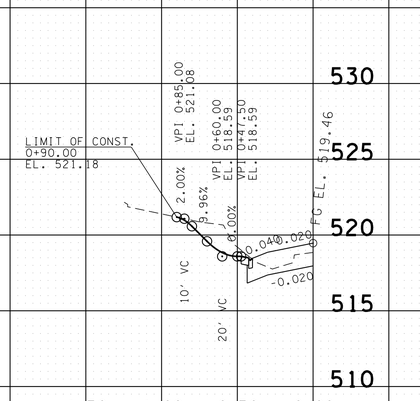
BUS. ENT. LT. 47+81.03
TRACT NO. 18



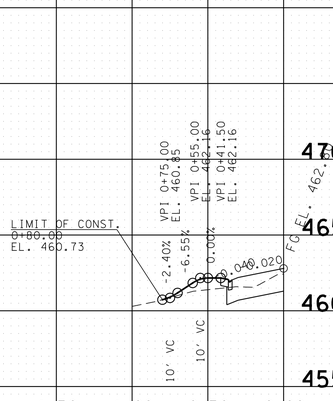
BUS. ENT. RT. 46+64.66
TRACT NO. 19



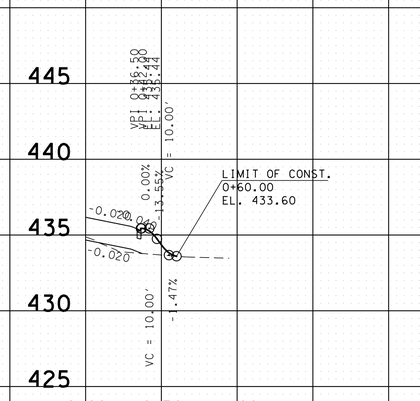
PVT. DR. RT. 100+70.00
TRACT NO. 84



PVT. DR. LT. 144+21.81
TRACT NO. 115



BUS. ENT. LT. 57+23.00
TRACT NO. 25



BUS. ENT. RT. 47+44.53
TRACT NO. 18

CONSTRUCTABILITY
FIELD
REVIEW

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DEPARTMENT OF TRANSPORTATION

PROFILE OF
PRIVATE
DRIVES

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

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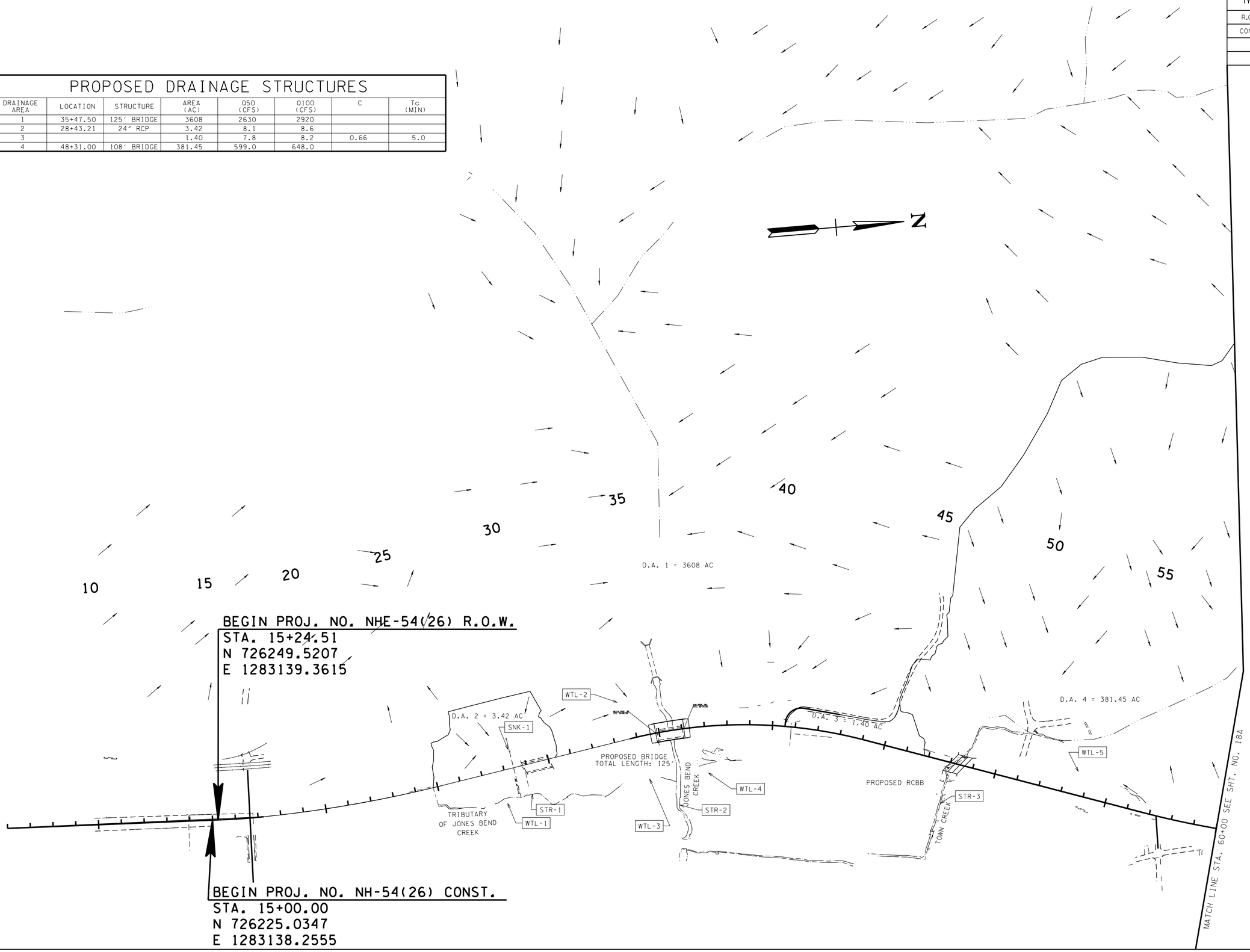
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	18
CONST.	2017	NH-54(26)	18

PROPOSED DRAINAGE STRUCTURES

DRAINAGE AREA	LOCATION	STRUCTURE	AREA (AC)	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN)
1	35+47.50	125' BRIDGE	3608	2630	2920		
2	28+43.21	24" RCP	3.42	8.1	8.6		
3			1.40	7.8	8.2	0.66	5.0
4	48+31.00	108' BRIDGE	381.45	599.0	648.0		



CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

BEGIN PROJECT TO STA.60+00

SCALE: 1"=200'

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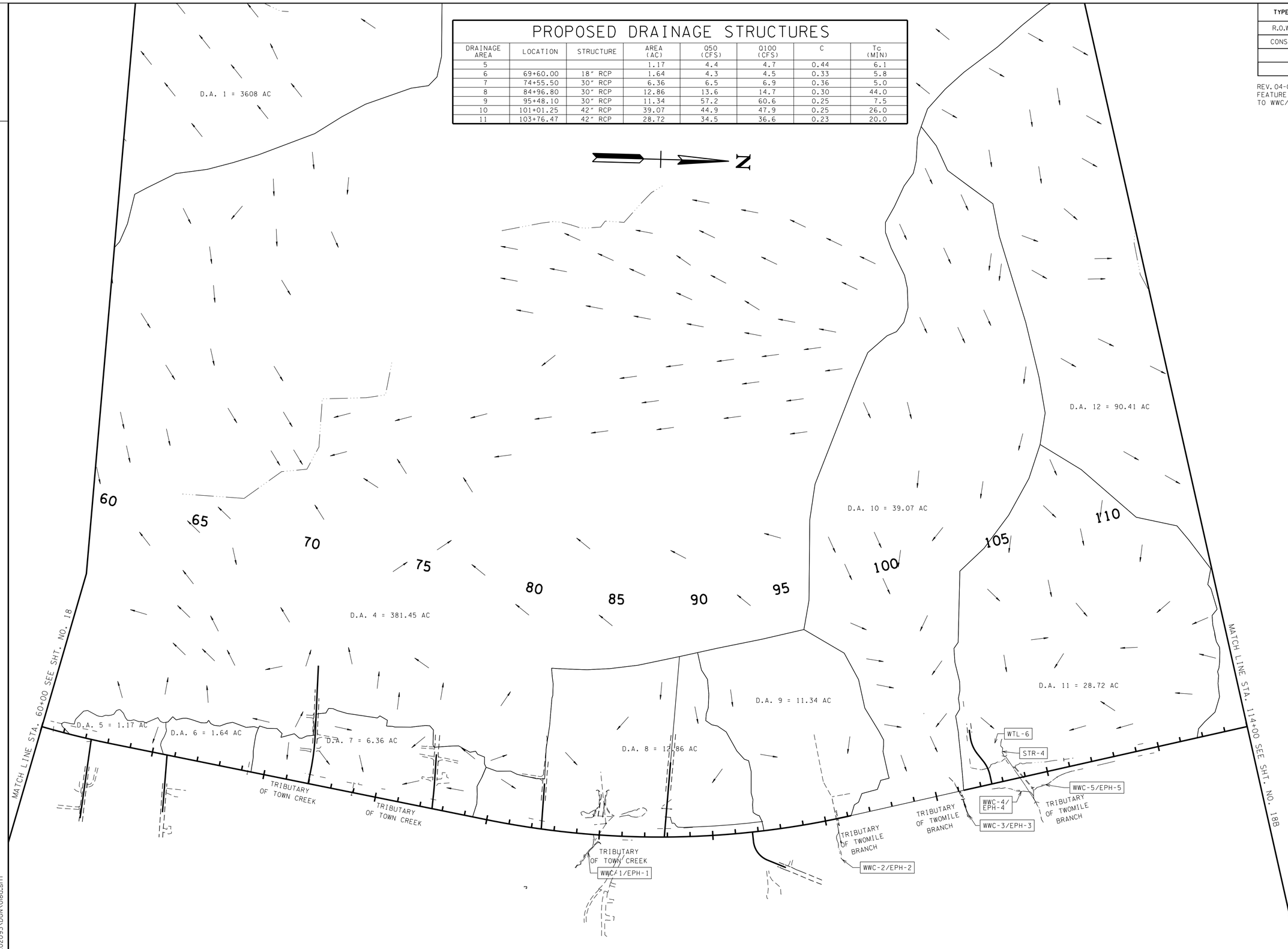
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROPOSED DRAINAGE STRUCTURES

DRAINAGE AREA	LOCATION	STRUCTURE	AREA (AC)	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN)
5			1.17	4.4	4.7	0.44	6.1
6	69+60.00	18" RCP	1.64	4.3	4.5	0.33	5.8
7	74+55.50	30" RCP	6.36	6.5	6.9	0.36	5.0
8	84+96.80	30" RCP	12.86	13.6	14.7	0.30	44.0
9	95+48.10	30" RCP	11.34	57.2	60.6	0.25	7.5
10	101+01.25	42" RCP	39.07	44.9	47.9	0.25	26.0
11	103+76.47	42" RCP	28.72	34.5	36.6	0.23	20.0

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	18A
CONST.	2017	NH-54(26)	18A

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
NO. 108376
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 60+00 TO STA. 114+00

SCALE: 1"=200'

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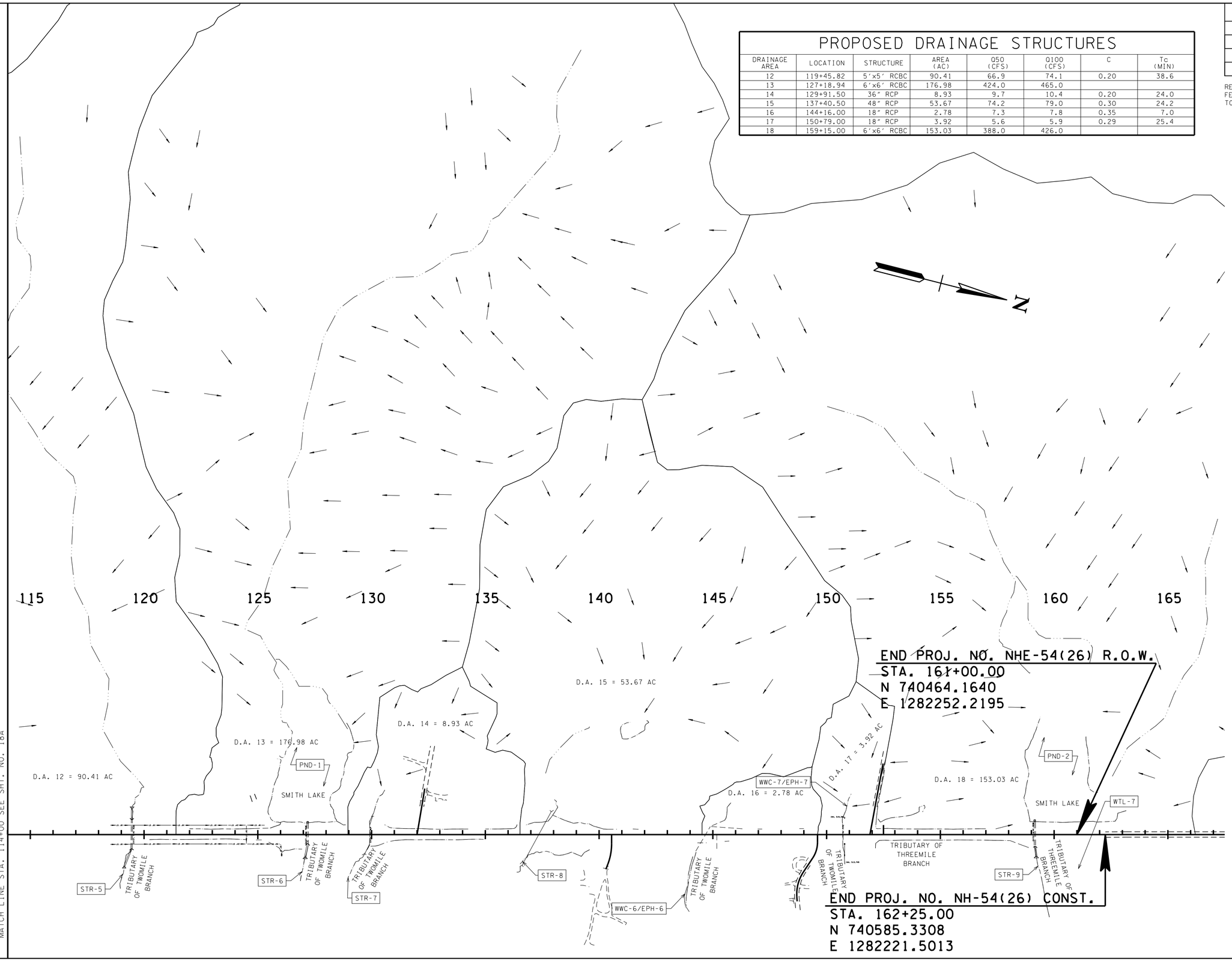
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	18B
CONST.	2017	NH-54(26)	18B

REV. 04-04-16: REVISED ENVIRONMENTAL FEATURE LABELS FOR WWC CLASSIFICATIONS TO WWC/EPH

PROPOSED DRAINAGE STRUCTURES

DRAINAGE AREA	LOCATION	STRUCTURE	AREA (AC)	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN)
12	119+45.82	5'x5' RCBC	90.41	66.9	74.1	0.20	38.6
13	127+18.94	6'x6' RCBC	176.98	424.0	465.0		
14	129+91.50	36" RCP	8.93	9.7	10.4	0.20	24.0
15	137+40.50	48" RCP	53.67	74.2	79.0	0.30	24.2
16	144+16.00	18" RCP	2.78	7.3	7.8	0.35	7.0
17	150+79.00	18" RCP	3.92	5.6	5.9	0.29	25.4
18	159+15.00	6'x6' RCBC	153.03	388.0	426.0		



CONSTRUCTABILITY FIELD REVIEW

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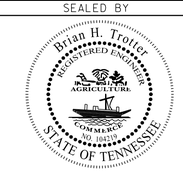

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 114+00 TO END PROJECT

SCALE: 1"=200'

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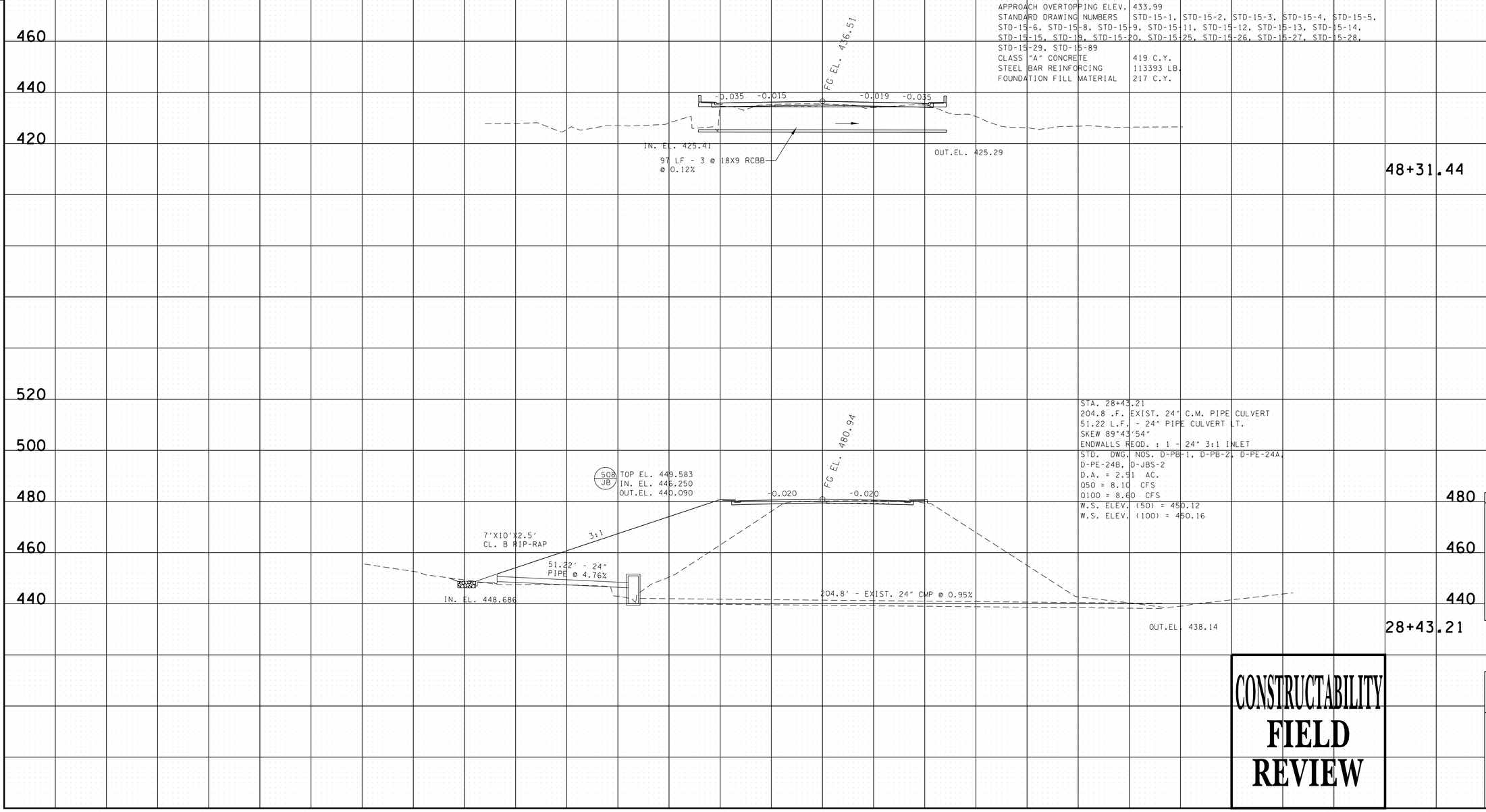
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	19
CONST.	2017	NH-54(26)	19

REV 06-22-16: REVISED SHEET TO PLACE CULVERT SECTIONS IN STATION ORDER, ADDED INLET PROTECTION TO 28+43.21 AND MADE MINOR ELEVATION AJUSTMENTS

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

STATION	48+31.33
STRUCTURE	97 LF - 3 @ 18'X9' RCB
SKEW	60°
DRAINAGE AREA	0.58 SQ. MI.
DESIGN DISCHARGE (Q100)	646.0 CFS
25 YR. BACKWATER	0.00 FT AT EL 433.81
25 YR VELOCITY	1.61 FPS
100 YR DISCHARGE	791.0 CFS AT EL. 434.19
INLET ELEVATION	425.41
OUTLET ELEVATION	425.29
APPROACH OVERTOPPING ELEV.	433.99
STANDARD DRAWING NUMBERS	STD-15-1, STD-15-2, STD-15-3, STD-15-4, STD-15-5, STD-15-6, STD-15-8, STD-15-9, STD-15-11, STD-15-12, STD-15-13, STD-15-14, STD-15-15, STD-19, STD-15-20, STD-15-25, STD-15-26, STD-15-27, STD-15-28, STD-15-29, STD-15-89
CLASS "A" CONCRETE	419 C.Y.
STEEL BAR REINFORCING	113393 LB.
FOUNDATION FILL MATERIAL	217 C.Y.



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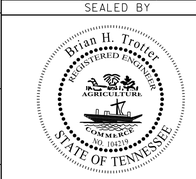

CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.28+43.21
TO
STA.48+31.44

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

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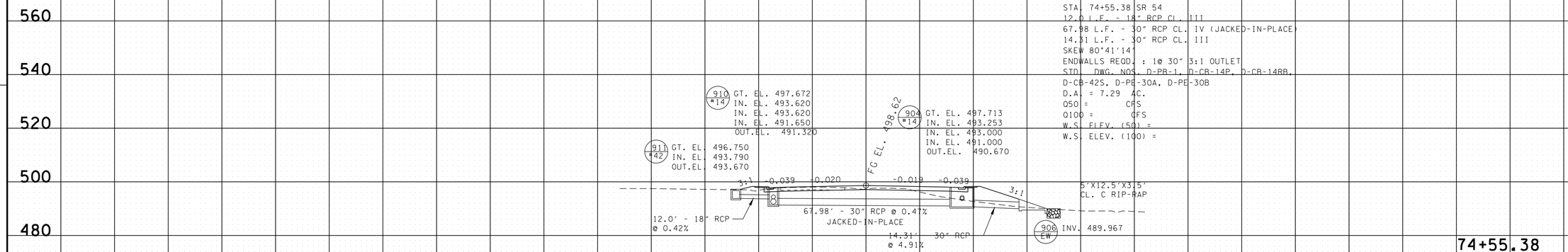
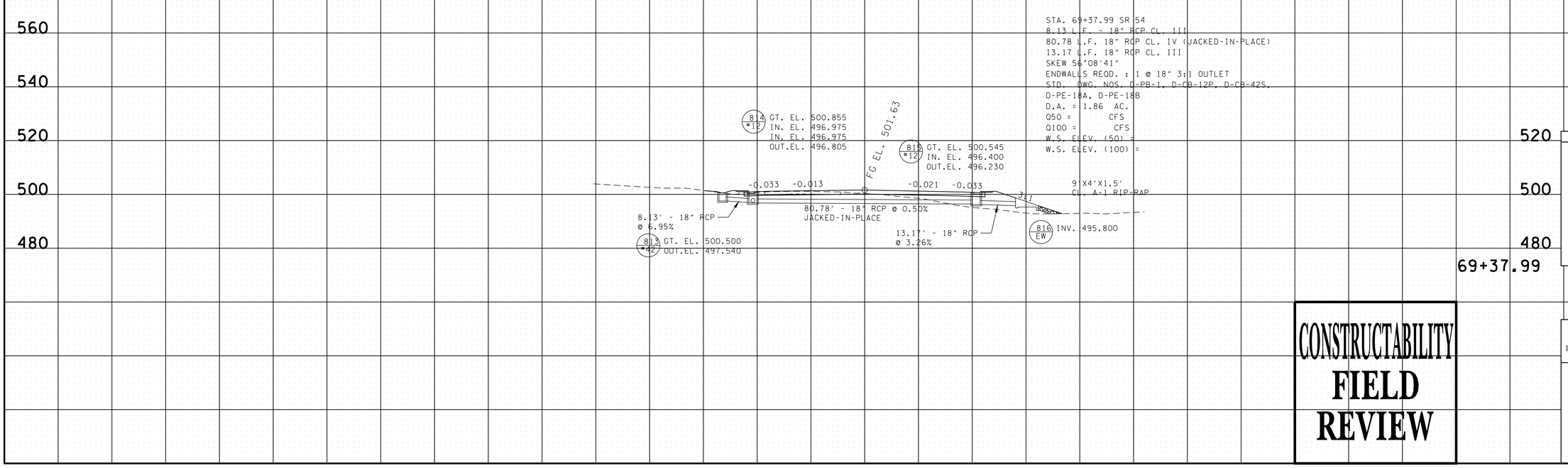
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	19A
CONST.	2017	NH-54(26)	19A

REV 06-22-16: REVISED SHEET TO PLACE CULVERT SECTIONS IN STATION ORDER; ADDED OUTLET PROTECTION TO 74+55.38 AND MADE ELEVATION ADJUSTMENTS; ADDED SECTION STA. 69+37.99; ELIMINATED SECTION STA. 84+96.80

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





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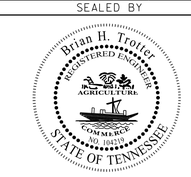

CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.69+37.99
TO
STA.74+55.38

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

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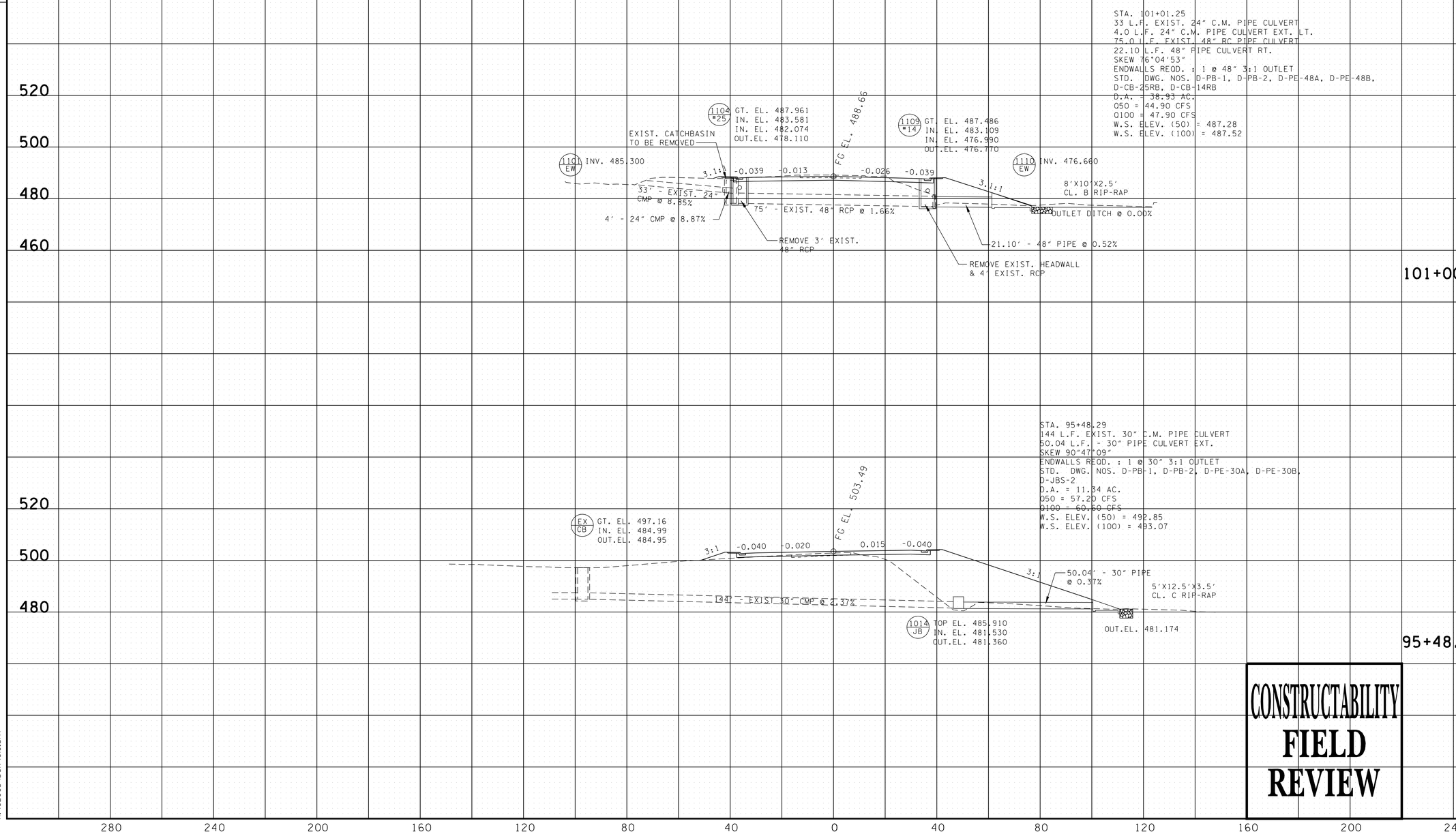
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	19B
CONST.	2017	NH-54(26)	19B

REV 06-22-16: REVISED SHEET TO PLACE CULVERT SECTIONS IN STATION ORDER; ADDED OUTLET PROTECTION TO 101+00.14; MADE MINOR ELEVATION AJUSTMENTS TO BOTH SECTIONS

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104139
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
CROSS-SECTIONS
STA.95+48.29
TO
STA.101+00.14

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	19C
CONST.	2017	NH-54(26)	19C

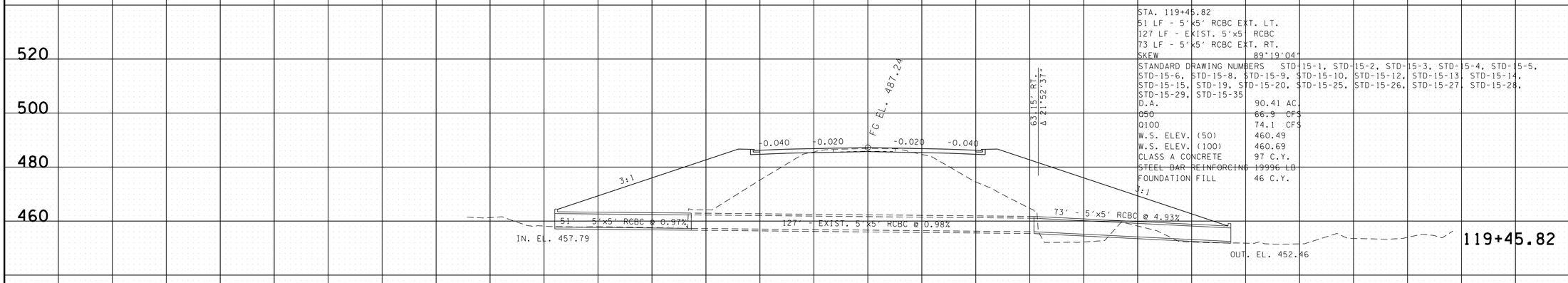
REV 06-22-16: REVISED SHEET TO PLACE CULVERT SECTIONS IN STATION ORDER; MADE MINOR ELEVATION AJUSTMENTS TO STA.103+76.01

TENNESSEE D.O.T.
DESIGN DIVISION

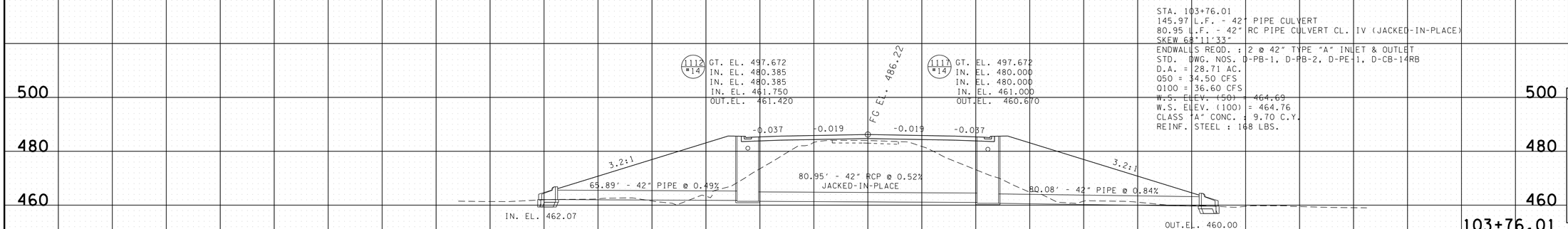
FILE NO.

STA. 119+45.82
51 LF - 5'x5' RCBC EXT. LT.
127 LF - EXIST. 5'x5' RCBC
73 LF - 5'x5' RCBC EXT. RT.
SKEW 89°19'04"
STANDARD DRAWING NUMBERS STD-15-1, STD-15-2, STD-15-3, STD-15-4, STD-15-5, STD-15-6, STD-15-8, STD-15-9, STD-15-10, STD-15-12, STD-15-13, STD-15-14, STD-15-15, STD-19, STD-15-20, STD-15-25, STD-15-26, STD-15-27, STD-15-28, STD-15-29, STD-15-35

D.A.	90.41 AC.
Q50	66.9 CFS
Q100	74.1 CFS
W.S. ELEV. (50)	460.49
W.S. ELEV. (100)	460.69
CLASS A CONCRETE	97 C.Y.
STEEL BAR REINFORCING	19996 LB
FOUNDATION FILL	46 C.Y.



STA. 103+76.01
145.97 L.F. - 42" PIPE CULVERT
80.95 L.F. - 42" RC PIPE CULVERT CL. IV (JACKED-IN-PLACE)
SKEW 68°11'33"
ENDWALLS REQD. : 2 @ 42" TYPE "A" INLET & OUTLET
STD. DWG. NOS. D-PB-1, D-PB-2, D-PE-1, D-CB-14RB
D.A. = 28.71 AC.
Q50 = 34.50 CFS
Q100 = 36.60 CFS
W.S. ELEV. (50) = 464.69
W.S. ELEV. (100) = 464.76
CLASS "A" CONC. : 9.70 C.Y.
REINF. STEEL : 168 LBS.



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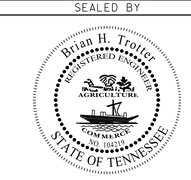

CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
CROSS-SECTIONS
STA.103+76.01
TO
STA.119+45.82

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

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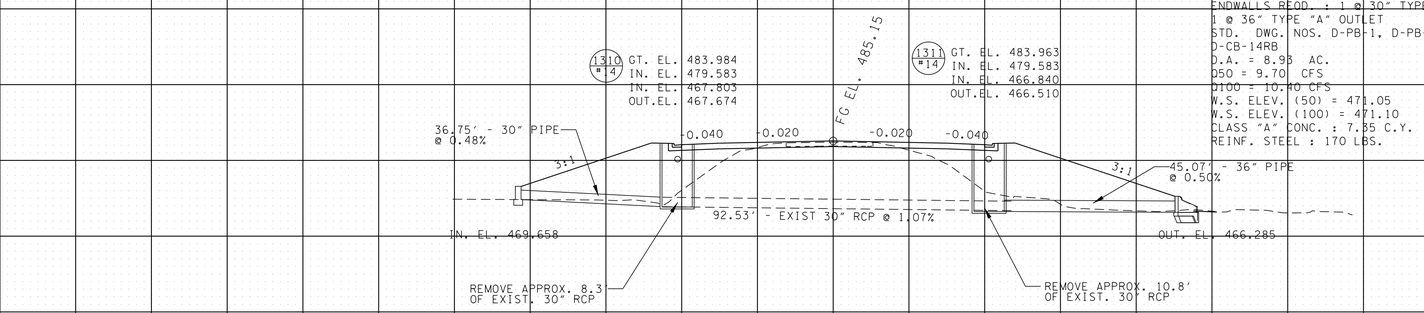
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	19D
CONST.	2017	NH-54(26)	19D

REV 06-22-16: REVISED SHEET TO PLACE CULVERT SECTIONS IN STATION ORDER; MADE MINOR ELEVATION AJUSTMENTS TO STA.129+91.59

TENNESSEE D.O.T.
DESIGN DIVISION

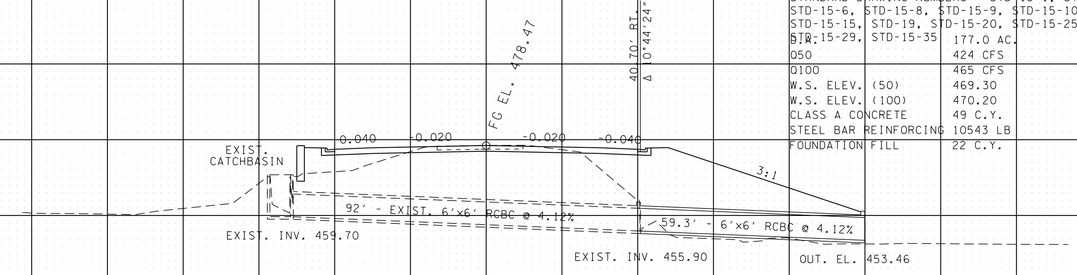
FILE NO.

STA. 129+91.50
92.53 L.F. EXIST. RC PIPE CULVERT
36.75 L.F. 30" PIPE CULVERT EXT. LT.
45.07 L.F. 36" PIPE CULVERT EXT. RT.
SKEW 89°16'32"
ENDWALLS REQD. : 1 @ 30" TYPE "ST" INLET &
1 @ 36" TYPE "A" OUTLET
STD. DWG. NOS. D-PB-1, D-PB-2, D-PE-1, D-PE-4,
D-CB-14RB
D.A. = 8.93 AC.
Q50 = 9.70 CFS
Q100 = 10.40 CFS
W.S. ELEV. (50) = 471.05
W.S. ELEV. (100) = 471.10
CLASS "A" CONC. : 7.35 C.Y.
REINF. STEEL : 170 LBS.



STA. 127+18.94
92 LF - EXIST. 6'x6' RCBC
53.9 LF - 6'x6' RCBC EXT. RT.
SKEW 89°42'10"
STANDARD DRAWING NUMBERS STD-15-1, STD-15-2, STD-15-3, STD-15-4, STD-15-5, STD-15-6, STD-15-8, STD-15-9, STD-15-10, STD-15-12, STD-15-13, STD-15-14, STD-15-15, STD-19, STD-15-20, STD-15-25, STD-15-26, STD-15-27, STD-15-28, STD-15-29, STD-15-35

DA	177.0 AC.
Q50	424 CFS
Q100	465 CFS
W.S. ELEV. (50)	469.30
W.S. ELEV. (100)	470.20
CLASS A CONCRETE	49 C.Y.
STEEL BAR REINFORCING	10543 LB
FOUNDATION FILL	22 C.Y.



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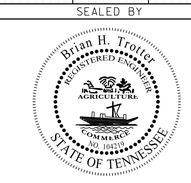

CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
CROSS-SECTIONS
STA.127+18.94
TO
STA.129+91.59

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

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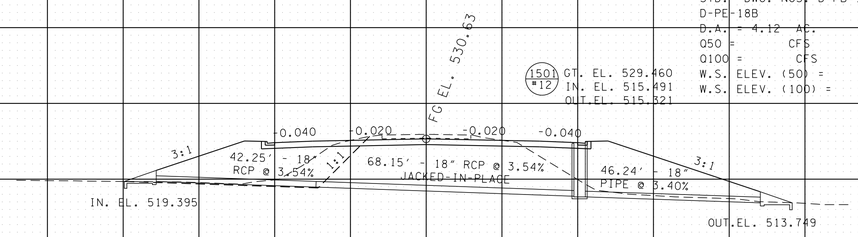
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	19E
CONST.	2017	NH-54(26)	19E

REV 06-22-16: REVISED SHEET TO PLACE CULVERT SECTIONS IN STATION ORDER; MADE MINOR LOCATION AND ELEVATION AJUSTMENTS TO STA.137+34.81; ADDED SECTION STA.150+79.00

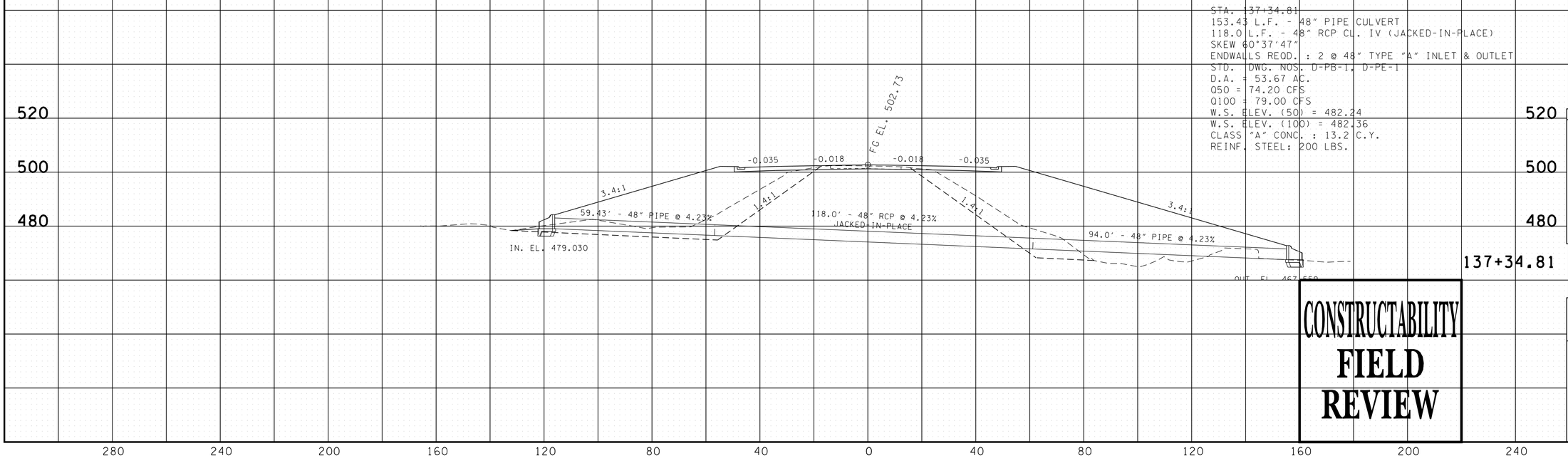
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

STA. 150+79.00
42.25 L.F. - 18" RCP CL. III
68.15 L.F. - 18" RCP CL. IV (JACKED-IN-PLACE)
46.24 L.F. - 18" RCP CL. III
SKEW 90°00'00"
ENDWALLS REQD. : 2 @ 18" 3:1 INLET & OUTLET
STD. DWG. NOS. D-PB-1, D-CB-12P, D-PE-18A, D-PE-18B
D.A. = 4.12 AC.
Q50 = CFS
Q100 = CFS
W.S. ELEV. (50) =
W.S. ELEV. (100) =

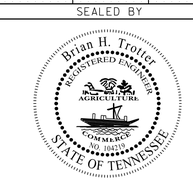


STA. 137+34.81
153.43 L.F. - 48" PIPE CULVERT
118.0 L.F. - 48" RCP CL. IV (JACKED-IN-PLACE)
SKEW 60°37'47"
ENDWALLS REQD. : 2 @ 48" TYPE "A" INLET & OUTLET
STD. DWG. NOS. D-PB-1, D-PE-1
D.A. = 53.67 AC.
Q50 = 74.20 CFS
Q100 = 79.00 CFS
W.S. ELEV. (50) = 482.24
W.S. ELEV. (100) = 482.36
CLASS "A" CONC. : 13.2 C.Y.
REINF. STEEL: 200 LBS.



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
CROSS-SECTIONS
STA.137+34.81
TO
STA.150+79.00

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

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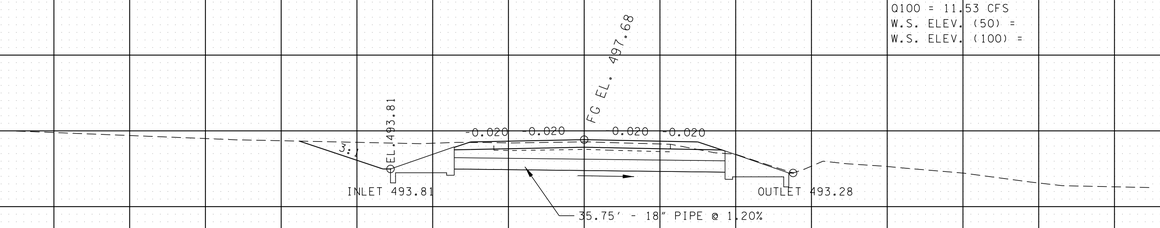
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	19F
CONST.	2017	NH-54(26)	19F

REV 06-22-16: REVISED SHEET TO PLACE CULVERT SECTIONS IN STATION ORDER

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

STA. 28+75.00
35.75 L.F. - 18" PIPE CULVERT
SKEW 90°00'00"
ENDWALLS REQD. : 2 @ 18" 3:1 INLET & OUTLET
STD. DWG. NOS. D-PB-1, D-PE-4, D-PE-18A, D-PE-18B
D.A. - 4.27 AC.
Q50 = 10.76 CFS
Q100 = 11.53 CFS
W.S. ELEV. (50) =
W.S. ELEV. (100) =

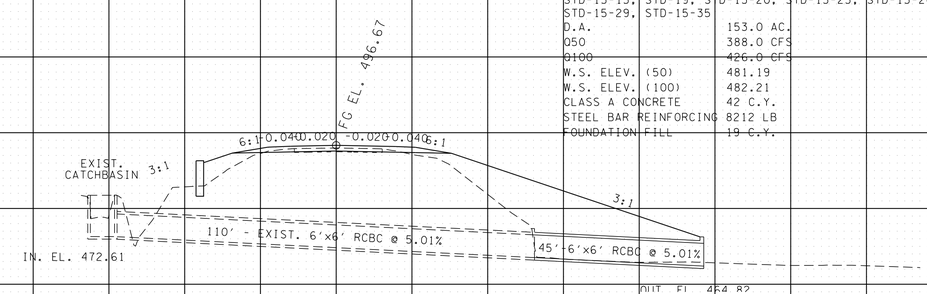


28+75.00 BR SMITH

brsmith
28+75.00

STA. 159+15.39
110 LF - EXIST. 6'x6' RCBC
45 LF - 6'x6' RCBC EXT. RT.
SKEW 89°28'28"
STANDARD DRAWING NUMBERS STD-15-1, STD-15-2, STD-15-3, STD-15-4, STD-15-5, STD-15-6, STD-15-8, STD-15-9, STD-15-10, STD-15-12, STD-15-13, STD-15-14, STD-15-15, STD-19, STD-15-20, STD-15-25, STD-15-26, STD-15-27, STD-15-28, STD-15-29, STD-15-35

D.A.	153.0 AC.
Q50	388.0 CFS
Q100	426.0 CFS
W.S. ELEV. (50)	481.19
W.S. ELEV. (100)	482.21
CLASS A CONCRETE	42 C.Y.
STEEL BAR REINFORCING	8212 LB
FOUNDATION FILL	19 C.Y.



159+15.39

CONSTRUCTABILITY
FIELD
REVIEW

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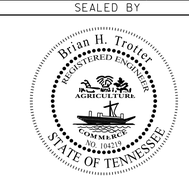

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
CROSS-SECTIONS
STA.159+15.39
TO
STA.159+15.39

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

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	20
CONST.	2017	NH-54(26)	20

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) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING 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.

(3) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING 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. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES.

(4) BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND MUST NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY 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 EPSC PLANS BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

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.

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.

CONSTRUCTABILITY
FIELD
REVIEW

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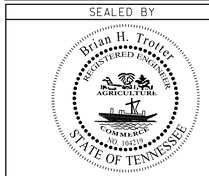

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION &
SEDIMENT CONTROL
(EPSC) NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	20
CONST.	2017	NH-54(26)	20A

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	STAGE 1 CLEARING & GRUBBING	STAGE 2 CONSTRUCTION	STAGE 3 CONSTRUCTION	STAGE 4 FINAL STABILIZATION	TOTAL	UNIT
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	215	215	200		630	C.Y.
209-05	SEDIMENT REMOVAL	428	862	434		1724	C.Y.
209-03.20	FILTER SOCK (8 INCH)	2536	1949	2093		6578	L.F.
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	3464	5564	5273		14301	L.F.
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	4828	8111	7946		20885	L.F.
209-08.07	ROCK CHECK DAM PER	49	60	34	35	178	EACH
209-08.08	ENHANCED ROCK CHECK DAM	7	27	31	31	96	EACH
209-09.01	SANDBAGS		9855	9855		19710	EACH
209-09.03	SEDIMENT FILTER BAG (15' X 15')		4	2		6	EACH
209-09.43	CURB INLET PROTECTION (TYPE 4)		56	60		116	EACH
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)		101	101		202	S.Y.
209-40.33	CATCH BASIN PROTECTION (TYPE D)		1			1	EACH
209-40.34	CATCH BASIN PROTECTION (TYPE E)	7	58	61		126	EACH
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)		5	22		27	EACH
209-65.03	TEMPORARY DIVERSION CHANNEL			100		100	L.F.
303-10.01	MINERAL AGGREGATE (SIZE 57)	25	56	35	24	140	TON
621-03.02	18" TEMPORARY DRAINAGE PIPE		269	127		396	L.F.
621-03.03	24" TEMPORARY DRAINAGE PIPE		487	496		983	L.F.
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	941	1462	1557		3960	L.F.
709-05.05	MACHINED RIP-RAP (CLASS A-3)	1500	1500	1400		4400	TON
709-05.06	MACHINED RIP-RAP (CLASS A-1)	136	68	23	23	250	TON
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	2891	3069	2662	106	8728	S.Y.
740-11.01	TEMPORARY SEDIMENT TUBE 8IN (EROSION CONTROL)	5515	14182	21195	100	40992	L.F.
801-01.07	TEMPORARY SEEDING (WITH MULCH)	776	1334	470		2580	UNIT
801-03	WATER (SEEDING AND SODDING)	78	133	47	1125	1383	M.G.
803-01	SODDING (NEW SOD)				112511	112511	S.Y.

NOTE: ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
ALL TEMPORARY CONSTRUCTION EXIT LOCATIONS TO BE DETERMINED BY THE ENGINEER
SOD TABULTAED IN STAGE 4 MAY BE PLACED DURING OTHER STAGES AS CONSTRUCTION ALLOWS

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

	SYMBOL	ITEM	STD. DWG.
		WORK ZONE	
	SFB SFB SFB SFB SFB	TEMPORARY SEDIMENT FILTER BAG	EC-STR-2
	SF SF SF SF SF	SILT FENCE	EC-STR-3B
	SFB SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
		ROCK CHECK DAM (V-DITCH)	EC-STR-6
		ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	SOCK SOCK	FILTER SOCK	EC-STR-8
		CULVERT PROTECTION (TYPE 1)	EC-STR-11
		CULVERT PROTECTION (TYPE 2)	EC-STR-11A
2	E	CATCH BASIN PROTECTION (TYPE E)	EC-STR-19
1	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
		TEMPORARY SLOPE DRAIN	EC-STR-27
		RIPRAP	EC-STR-27
		TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-32
		TEMPORARY PIPE FOR BOX CULVERT EXTENSION	EC-STR-33 EC-STR-33A
	TUBE TUBE	SEDIMENT TUBE	EC-STR-37
	1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	O.F. #	OUTFALL LABEL	
	HVF HVI	HIGH VISIBILITY FENCE	S-F-1

NOTES:

1. EXACT LOCATION OF TEMPORARY CONSTRUCTION EXITS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

2. CATCH BASIN PROTECTION IN THE ROADWAY SHALL BE REPLACED WITH CURB INLET PROTECTION (TYPE 4) AFTER THE CURB IS CONSTRUCTED.

STAGE I AND II OF EPSC PLANS CORRESPOND TO TRAFFIC CONTROL PHASE I.

STAGE III OF EPSC PLANS CORRESPONDS TO TRAFFIC CONTROL PHASE II.

CONSTRUCTABILITY FIELD REVIEW

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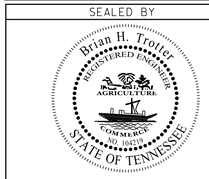

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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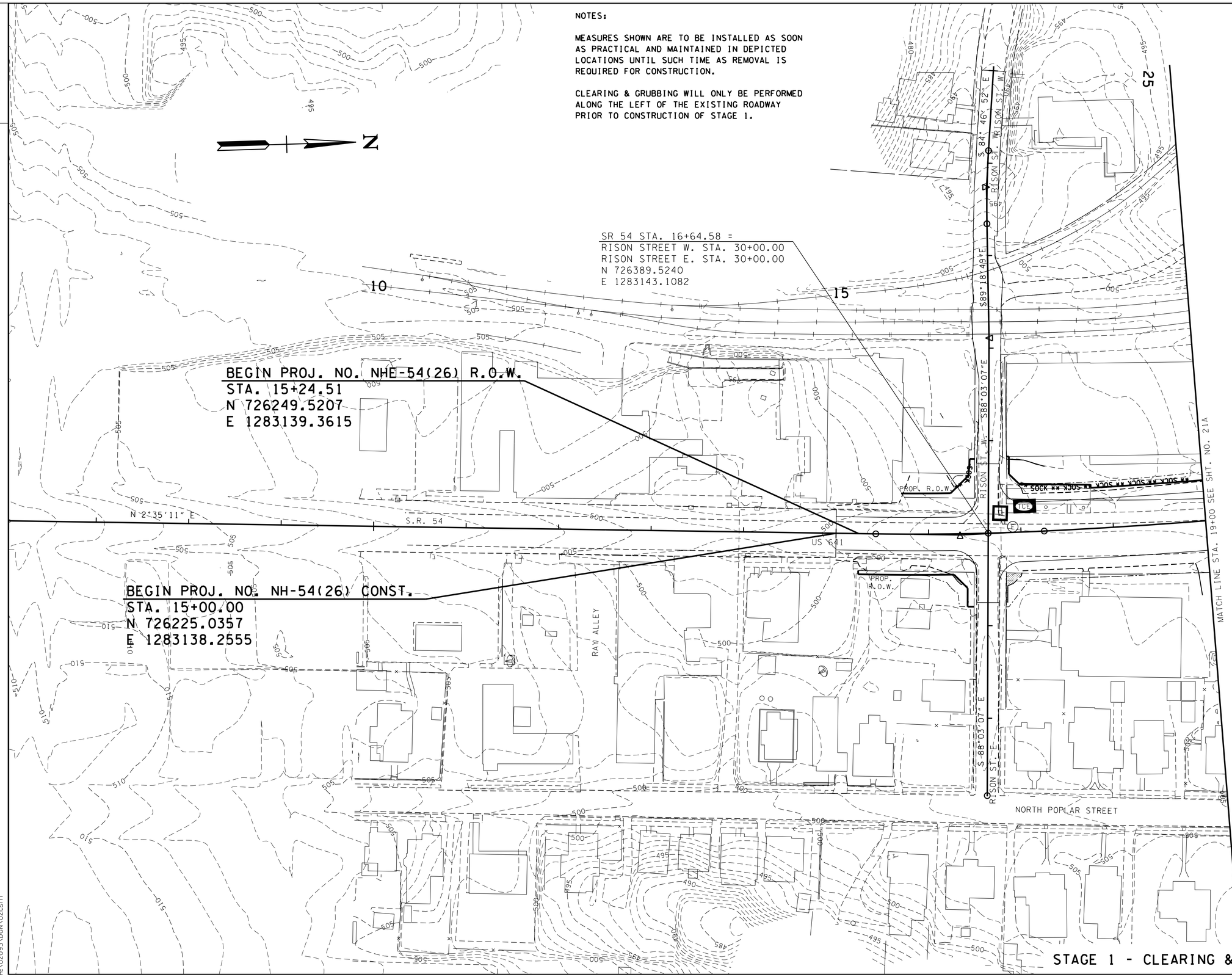
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21
CONST.	2017	NH-54(26)	21

NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE LEFT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.



STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEGIN PROJECT TO STA.19+00

SCALE: 1"= 50'

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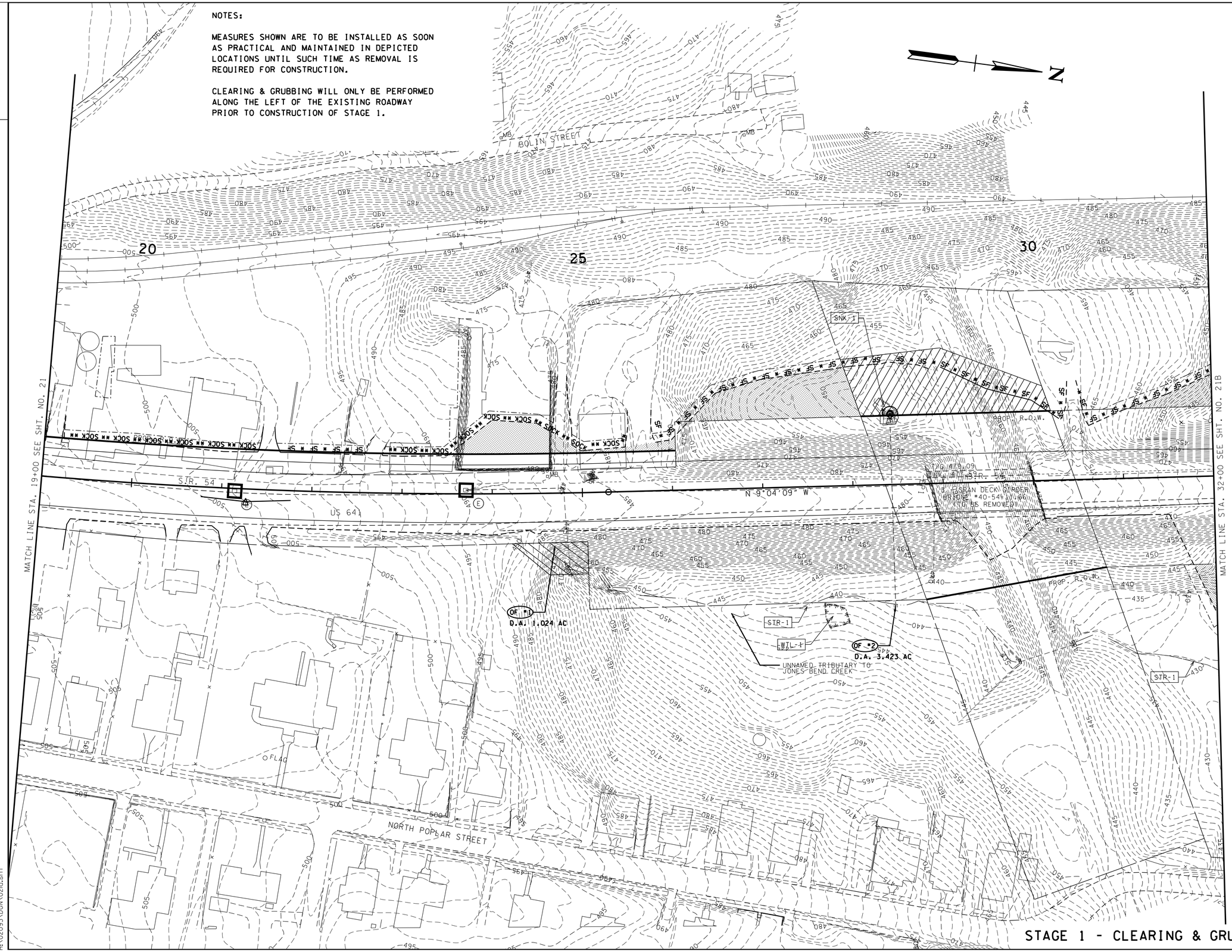
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21A
CONST.	2017	NH-54(26)	21A

NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE LEFT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.



STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

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Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102216
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 19+00 TO STA. 32+00

SCALE: 1"= 50'

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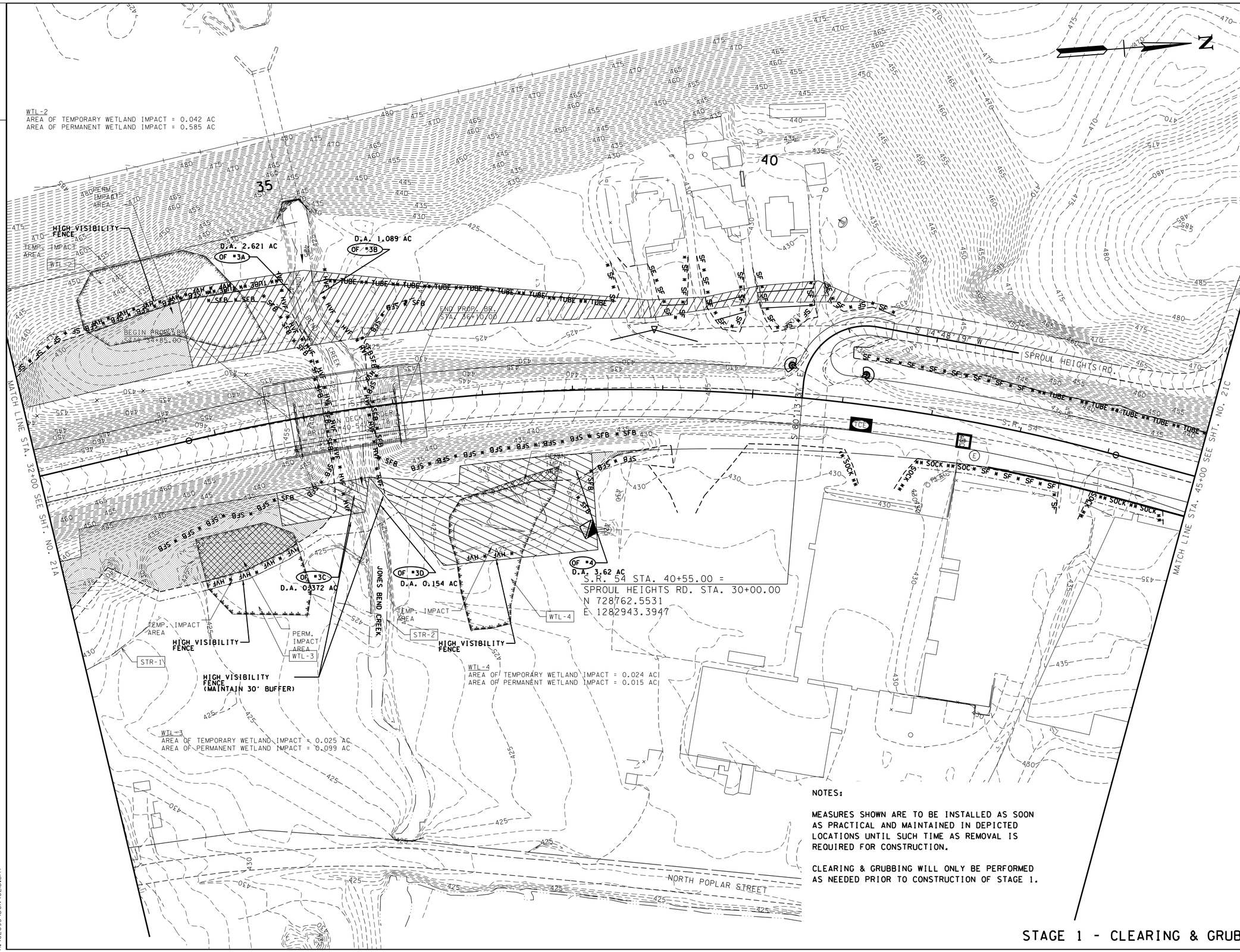
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21B
CONST.	2017	NH-54(26)	21B



NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED AS NEEDED PRIOR TO CONSTRUCTION OF STAGE 1.

STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 32+00 TO STA. 45+00
SCALE: 1"= 50'

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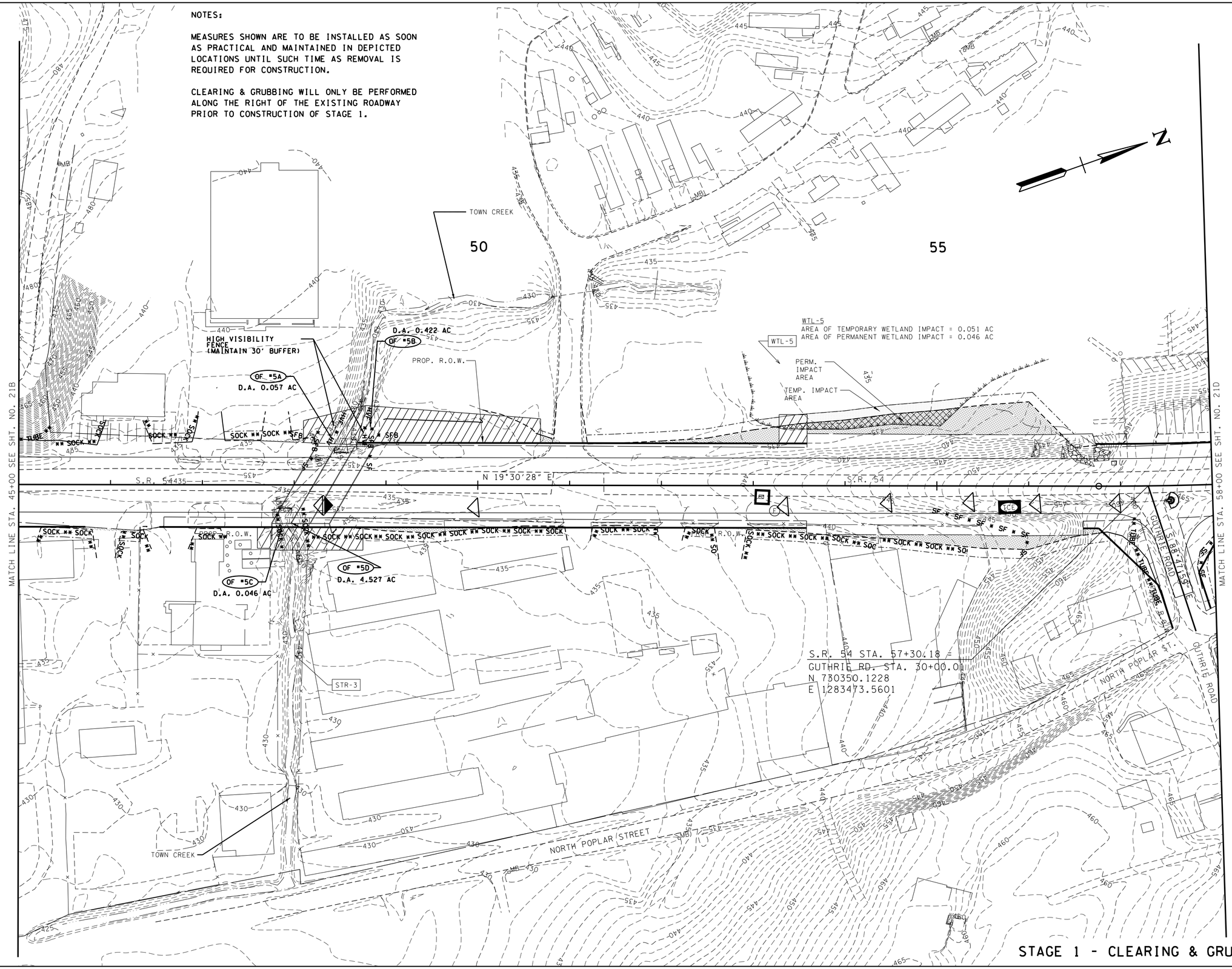
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21C
CONST.	2017	NH-54(26)	21C

NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE RIGHT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.



STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 45+00 TO STA. 58+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.	2012	NHE-54(26)	21D
CONST.	2017	NH-54(26)	21D

NOTES:

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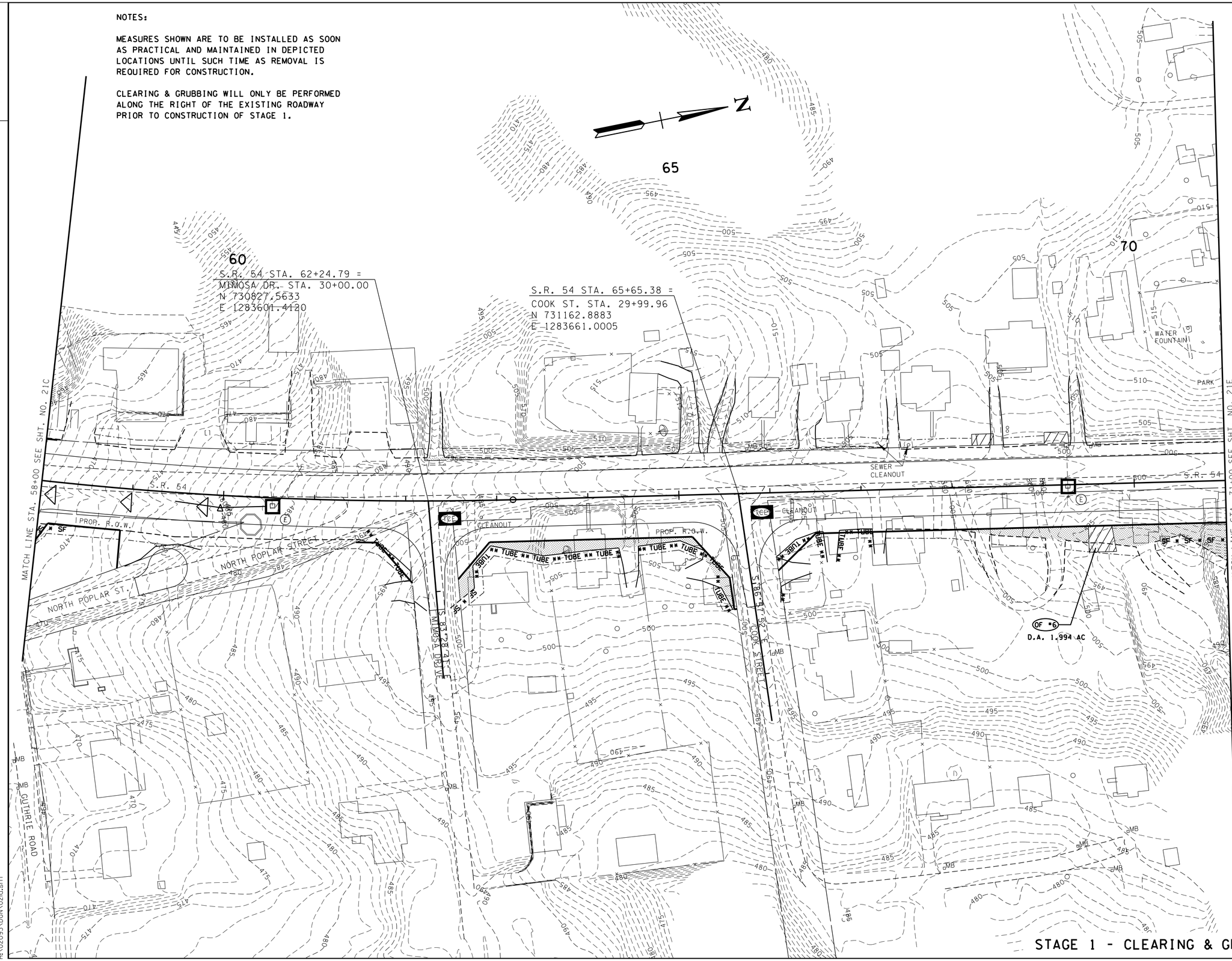

STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 58+00 TO STA. 71+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.	2012	NHE-54(26)	21E
CONST.	2017	NH-54(26)	21E

NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

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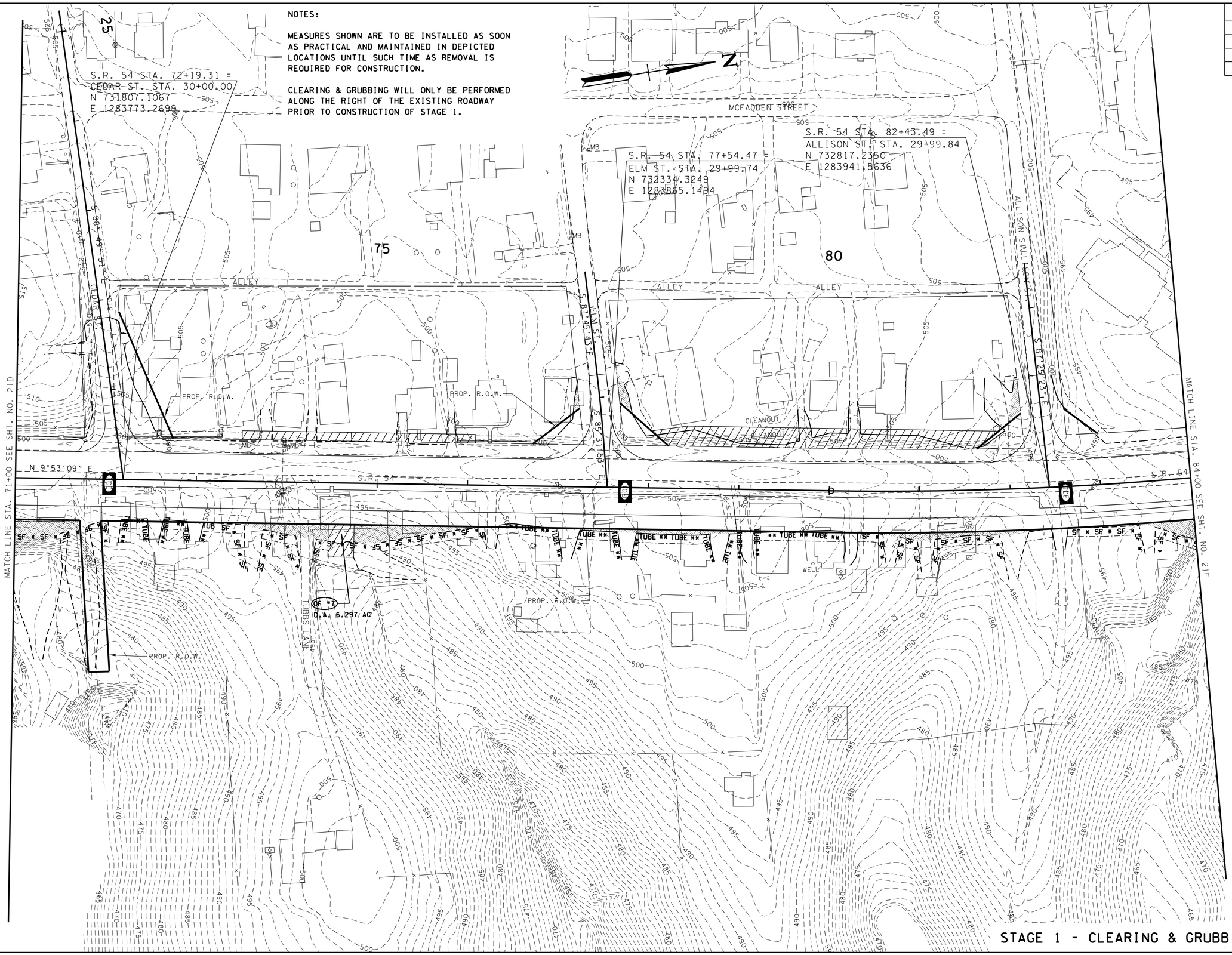

STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 71+00 TO STA. 84+00
SCALE: 1"= 50'

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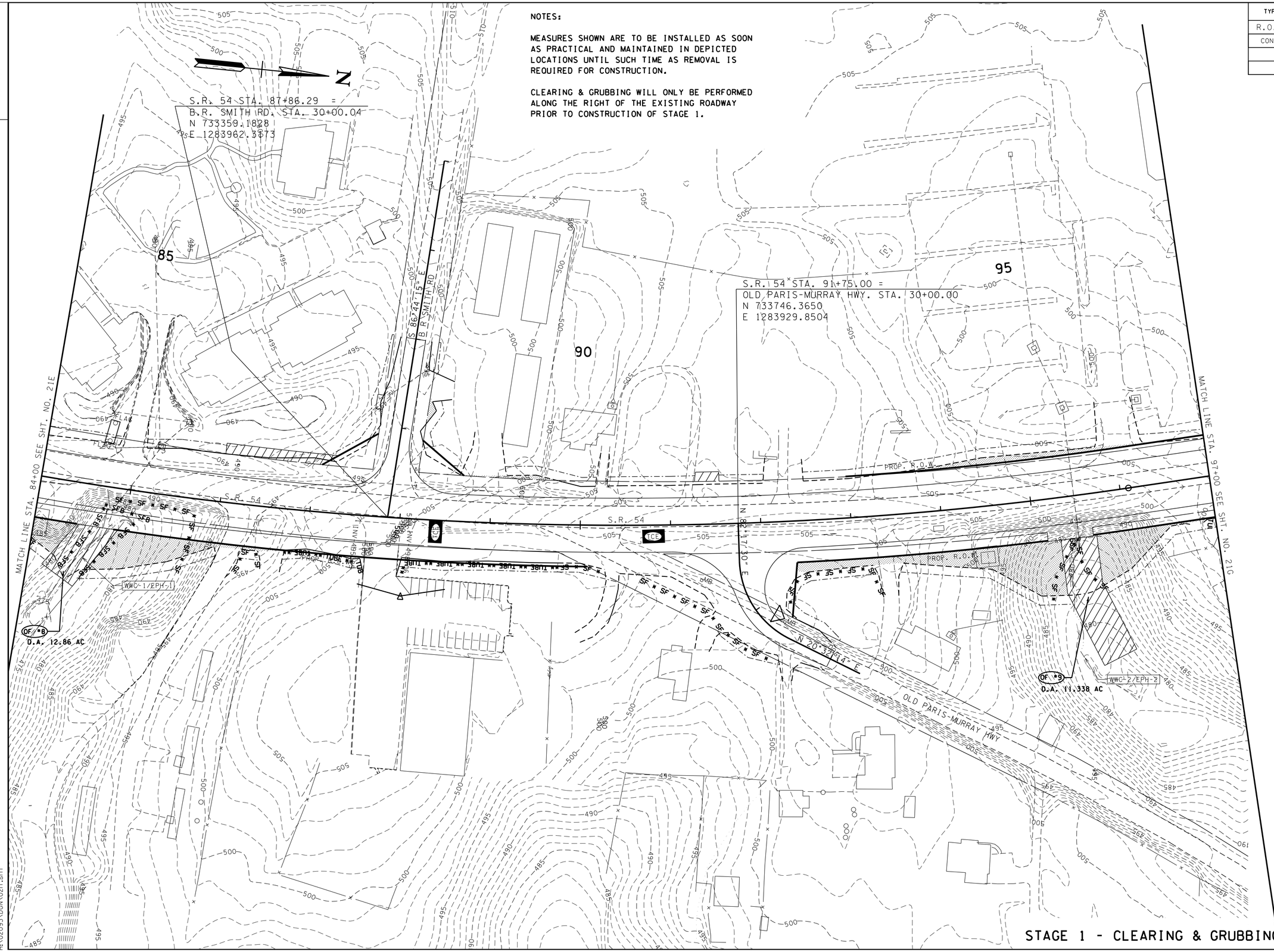
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21F
CONST.	2017	NH-54(26)	21F

NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE RIGHT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.



STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 84+00 TO STA. 97+00
SCALE: 1"= 50'

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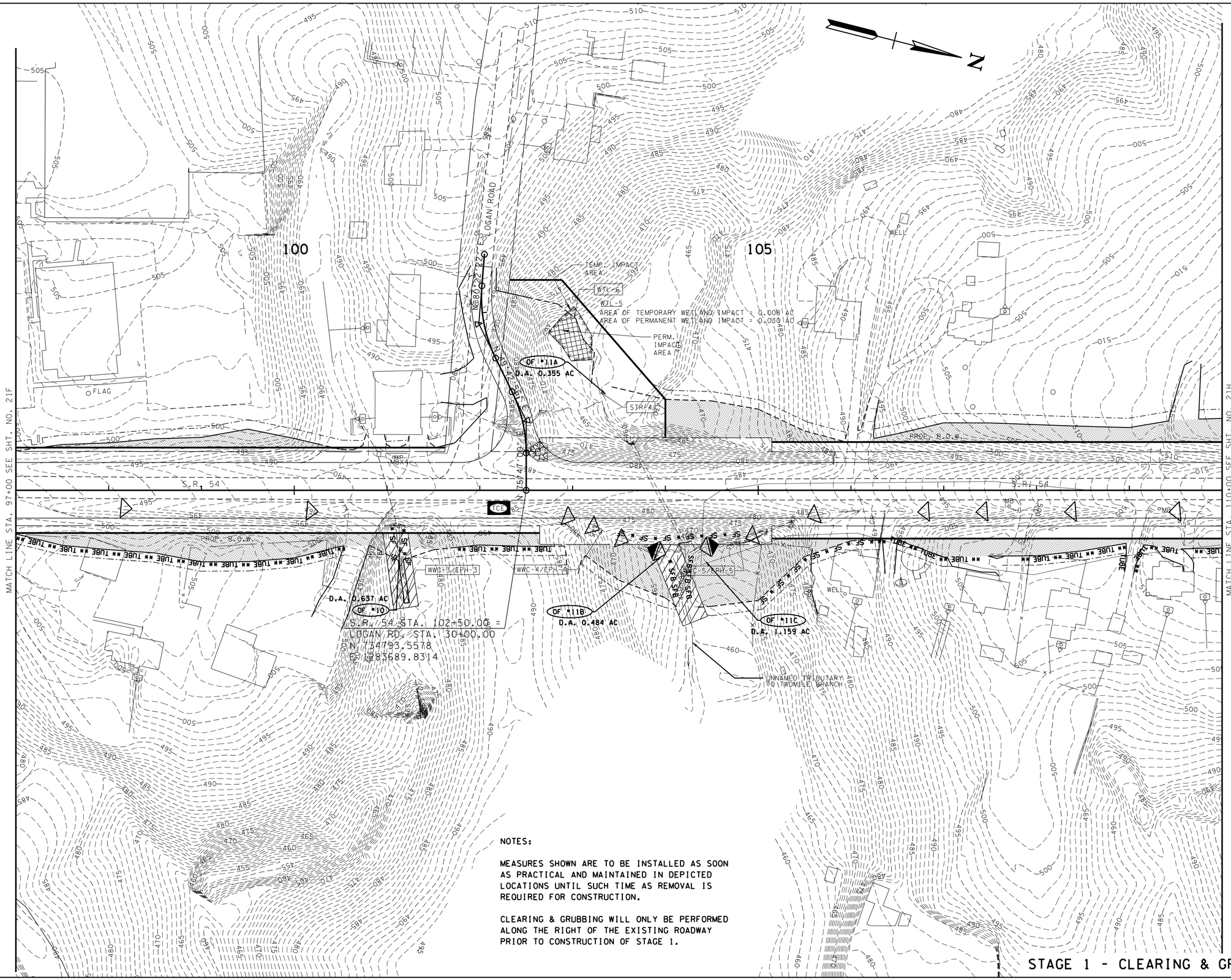
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21G
CONST.	2017	NH-54(26)	21G



NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE RIGHT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.

STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Troter
REGISTERED ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 97+00 TO STA. 110+00
SCALE: 1"= 50'

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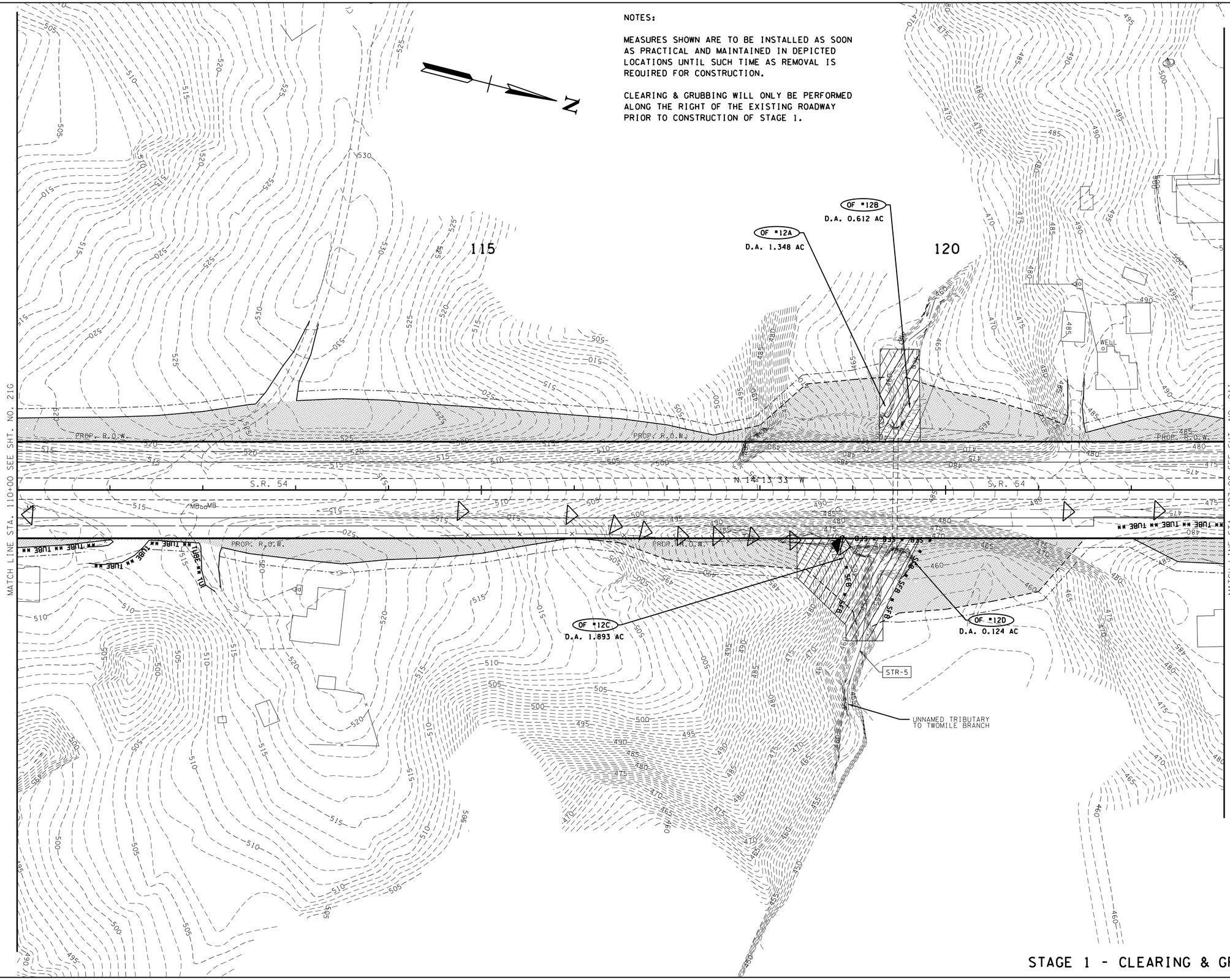
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21H
CONST.	2017	NH-54(26)	21H

NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE RIGHT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.



STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102291
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 110+00 TO STA. 123+00

SCALE: 1"= 50'

7/25/2016 3:04:09 PM
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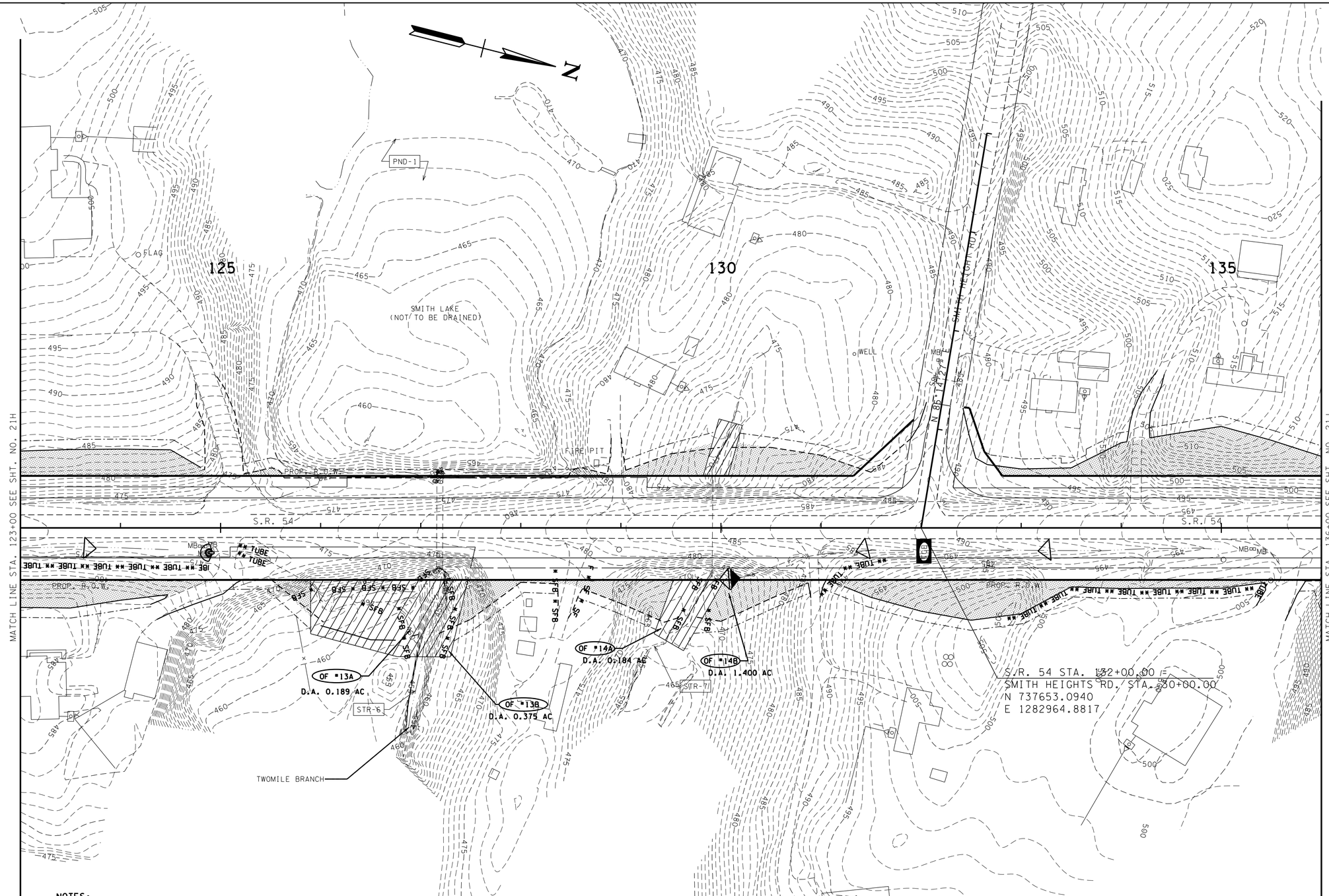
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21I
CONST.	2017	NH-54(26)	21I



NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE RIGHT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.

STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 123+00 TO STA. 136+00

SCALE: 1"= 50'

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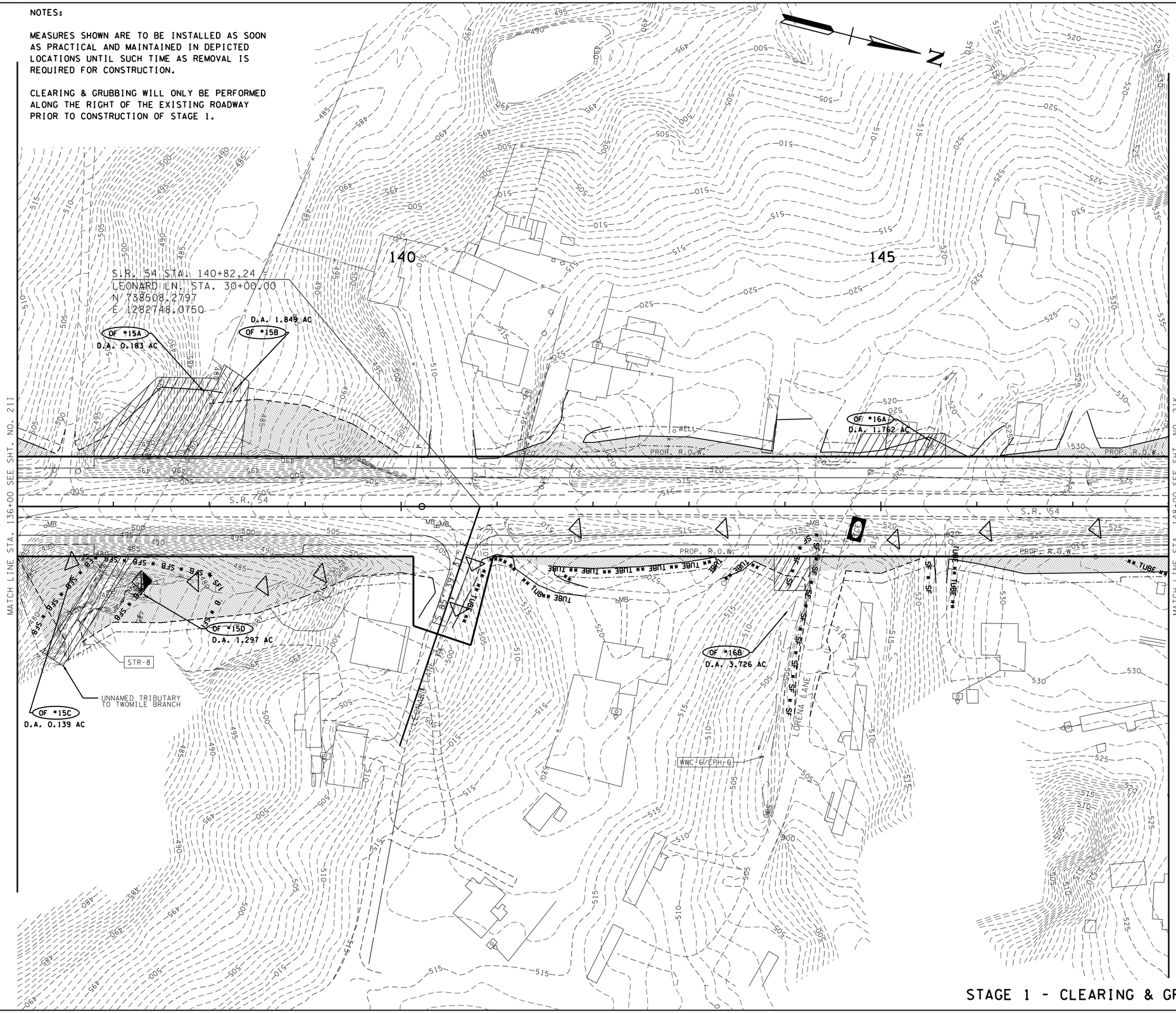
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21J
CONST.	2017	NH-54(26)	21J

NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

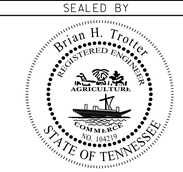
CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE RIGHT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.



STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 136+00 TO STA. 148+00

SCALE: 1"= 50'

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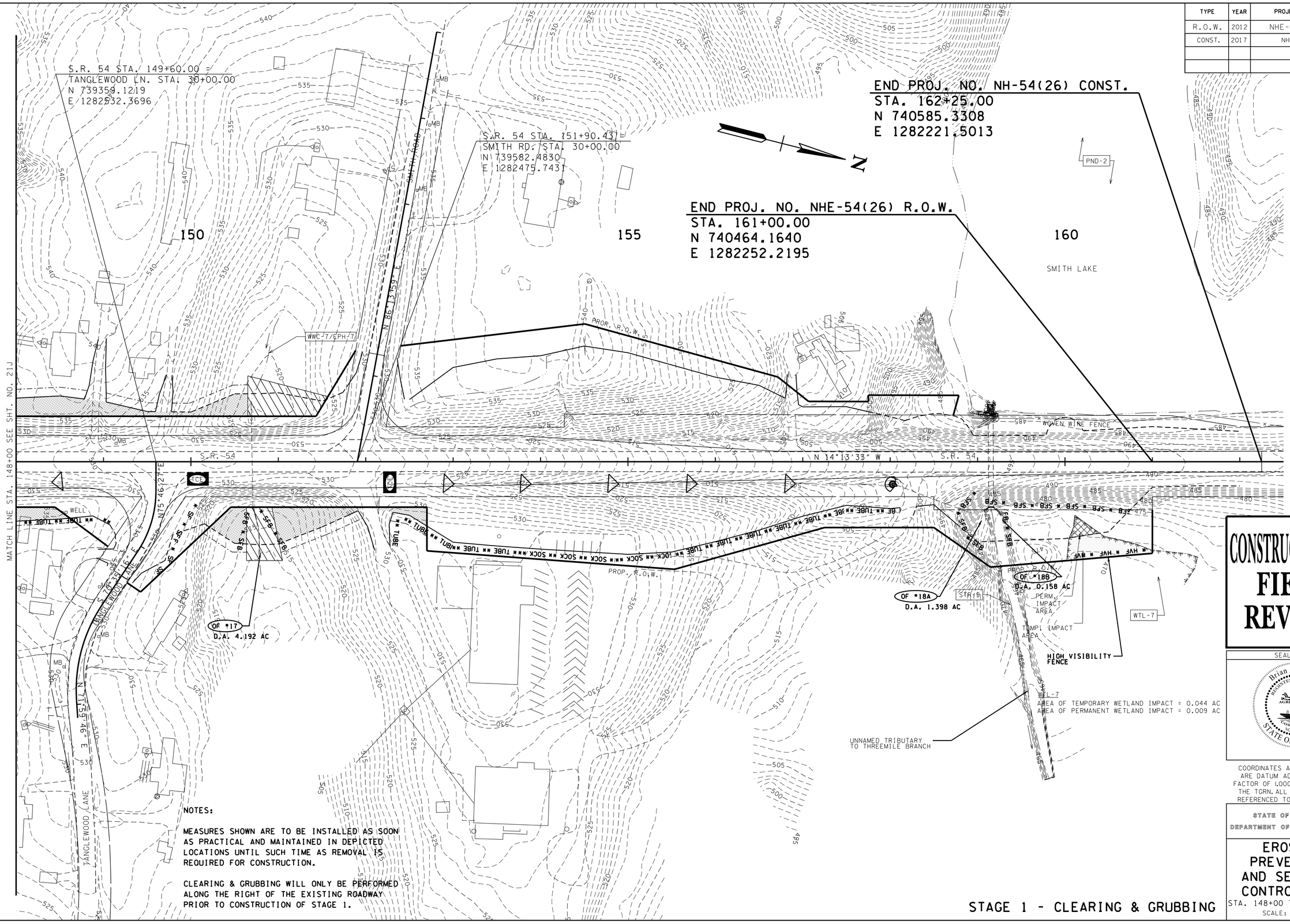
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	21K
CONST.	2017	NHE-54(26)	21K



NOTES:

MEASURES SHOWN ARE TO BE INSTALLED AS SOON AS PRACTICAL AND MAINTAINED IN DEPICTED LOCATIONS UNTIL SUCH TIME AS REMOVAL IS REQUIRED FOR CONSTRUCTION.

CLEARING & GRUBBING WILL ONLY BE PERFORMED ALONG THE RIGHT OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION OF STAGE 1.

STAGE 1 - CLEARING & GRUBBING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102212
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 148+00 TO END PROJECT

SCALE: 1"= 50'

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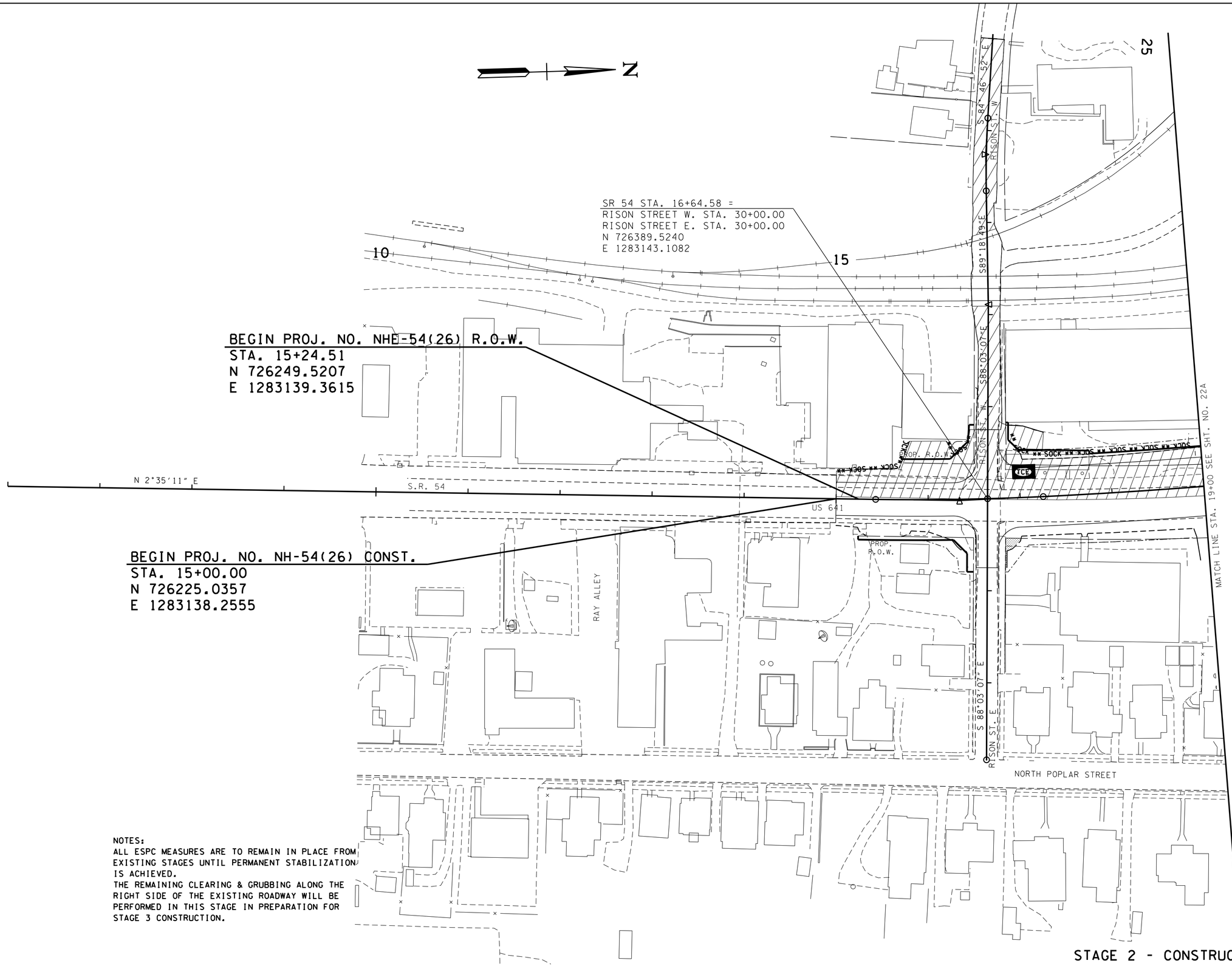
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22
CONST.	2017	NH-54(26)	22



NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING ALONG THE RIGHT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102270
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEGIN PROJECT TO STA.19+00
SCALE: 1"= 50'

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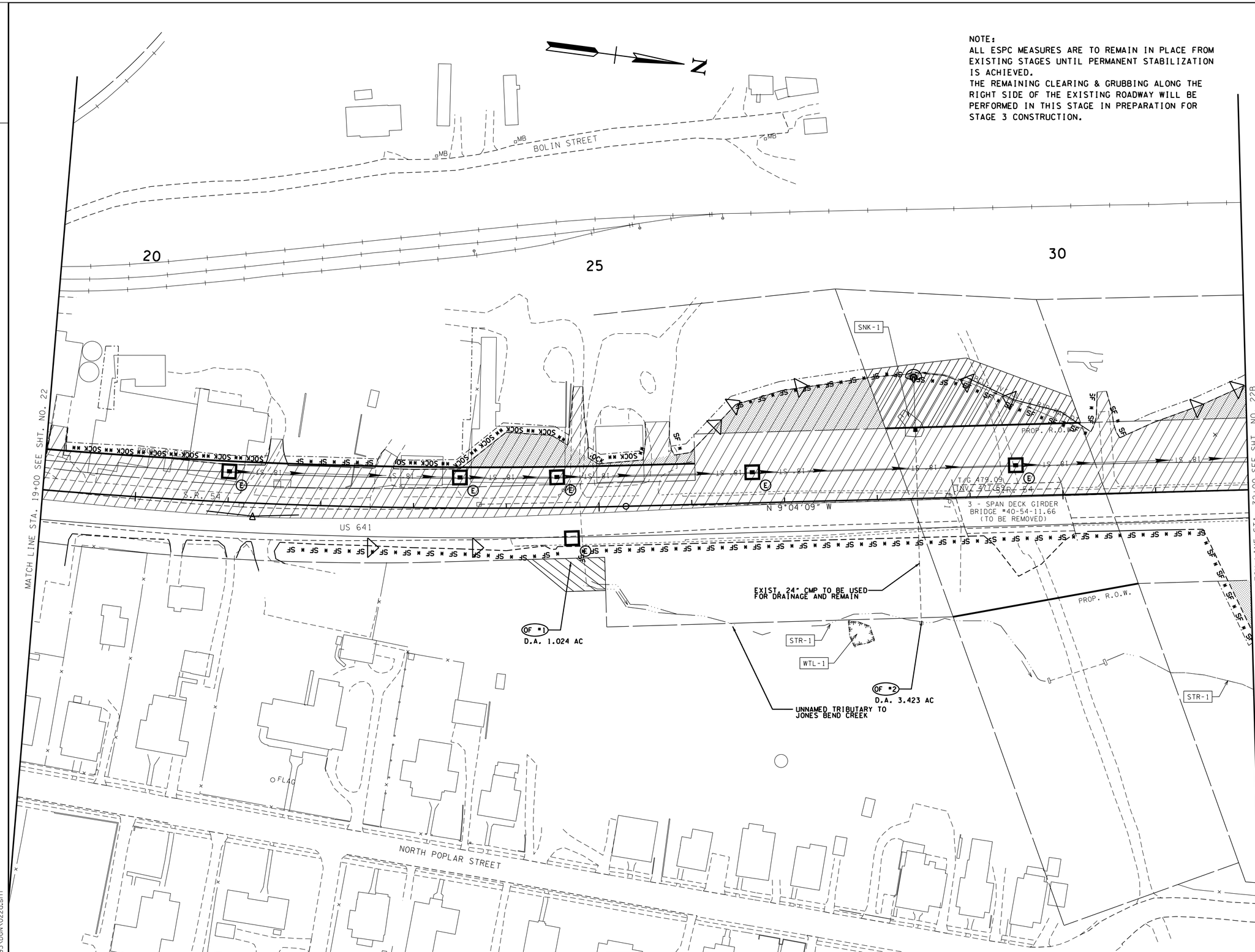
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22A
CONST.	2017	NH-54(26)	22A

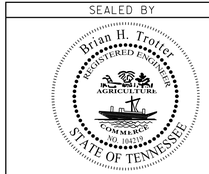
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING ALONG THE RIGHT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.



STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

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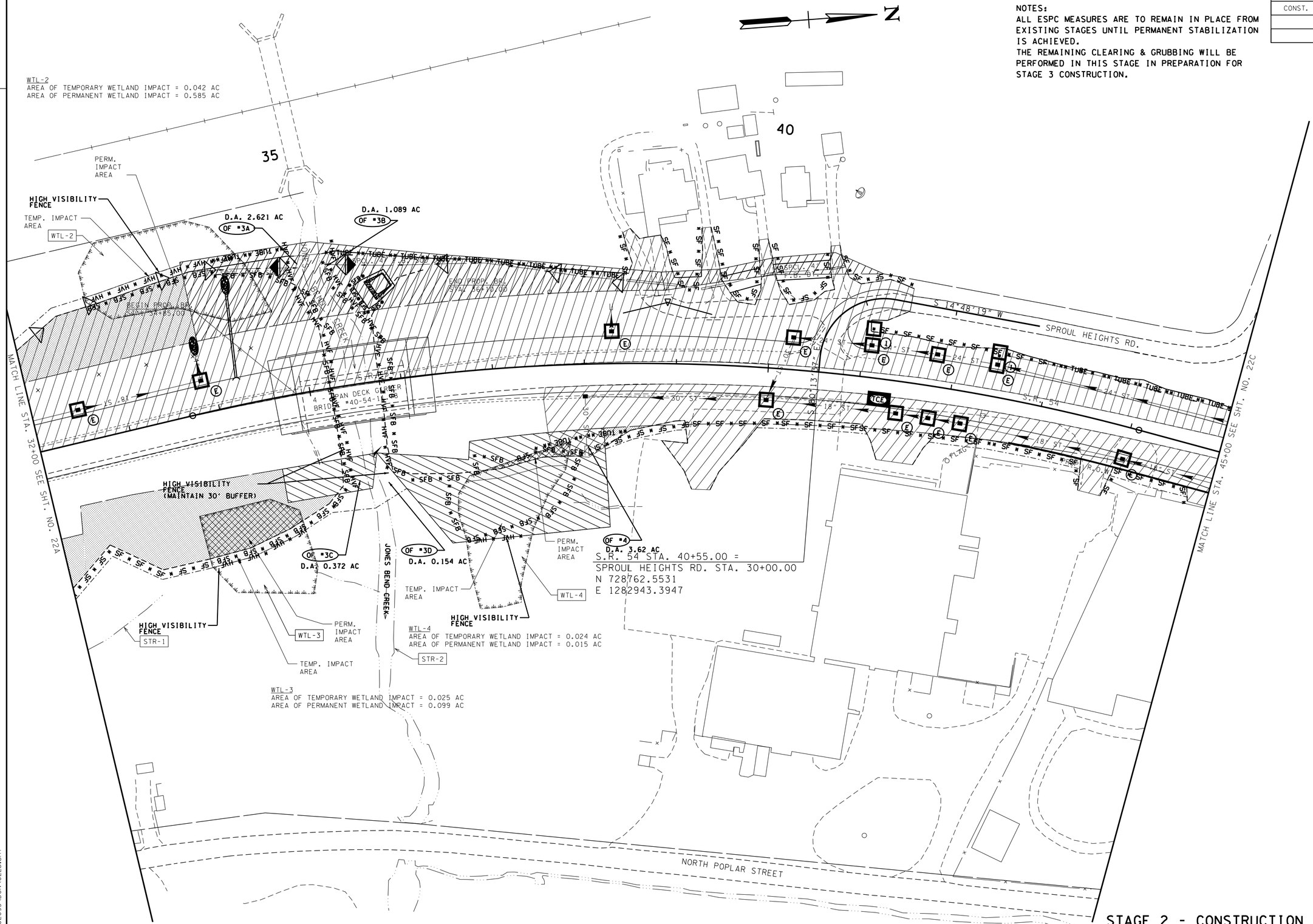
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22B
CONST.	2017	NH-54(26)	22B

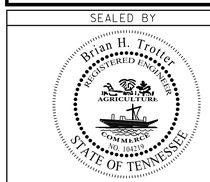
NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.



STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 32+00 TO STA. 45+00
SCALE: 1"= 50'

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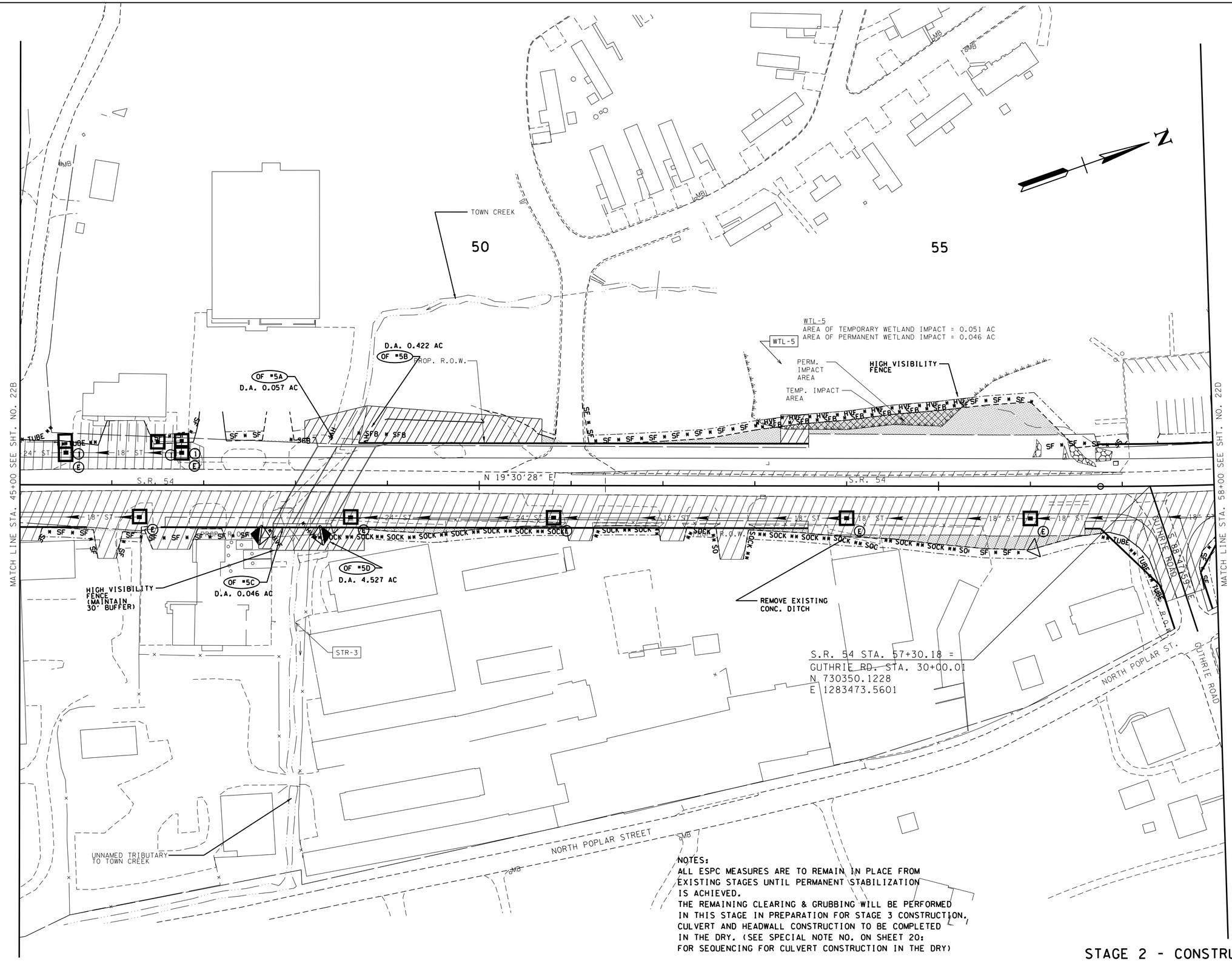
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22C
CONST.	2017	NH-54(26)	22C



NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 45+00 TO STA. 58+00
SCALE: 1"= 50'

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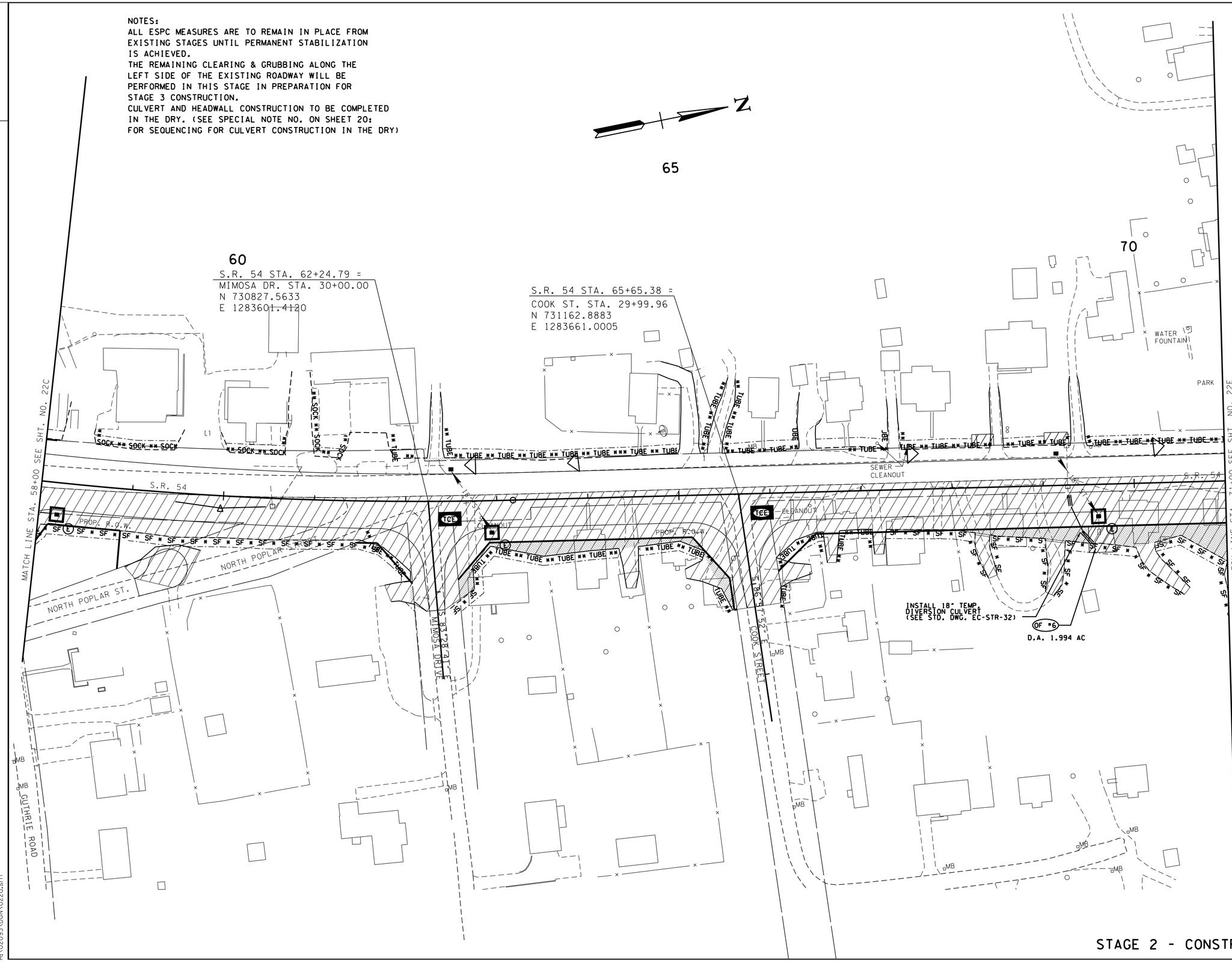
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22D
CONST.	2017	NH-54(26)	22D

NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING ALONG THE LEFT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)



STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Troter
REGISTERED ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 58+00 TO STA. 71+00
SCALE: 1"= 50'

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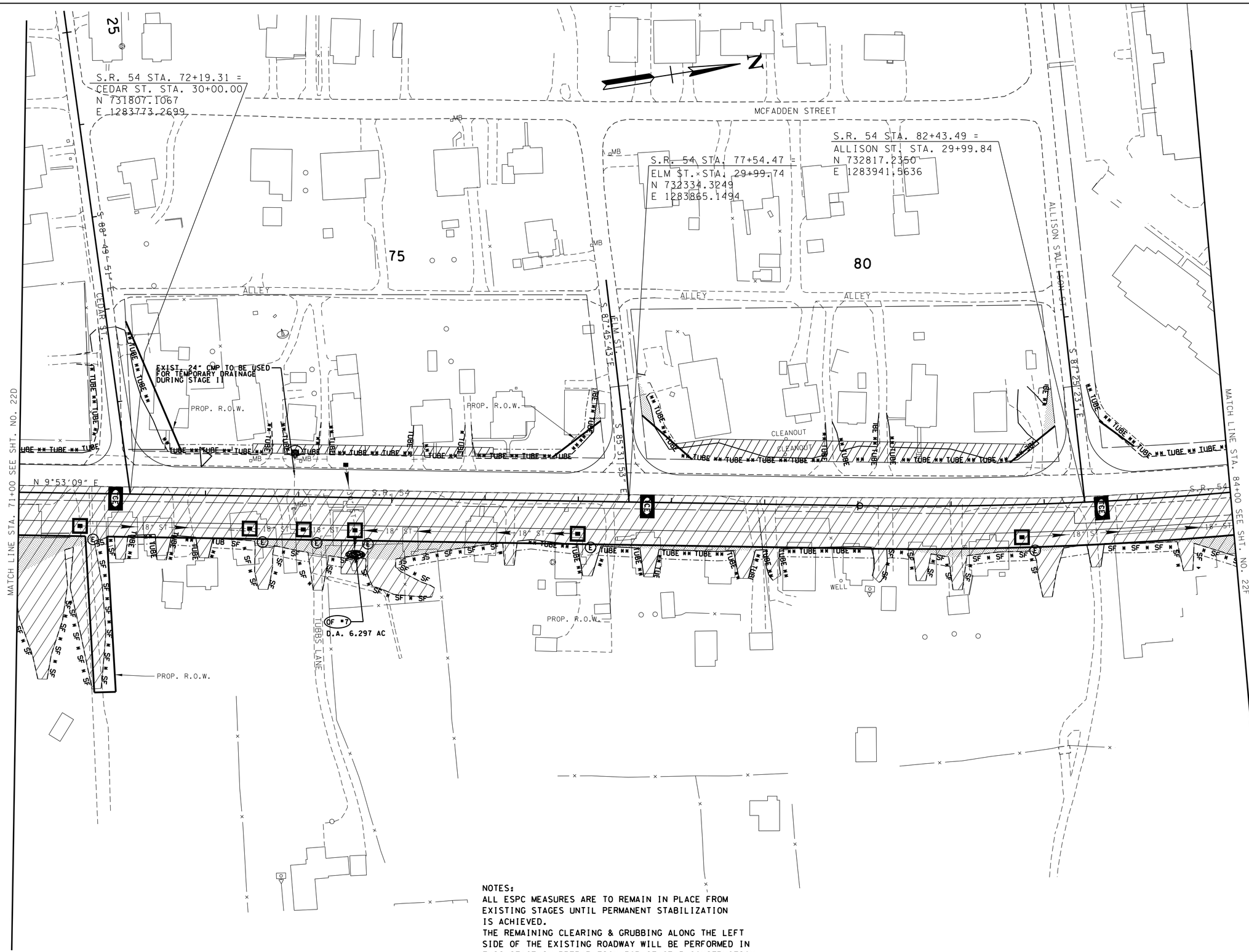
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22E
CONST.	2017	NH-54(26)	22E

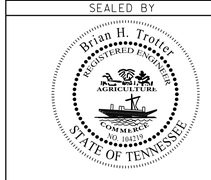


NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING ALONG THE LEFT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 71+00 TO STA. 84+00
SCALE: 1"= 50'

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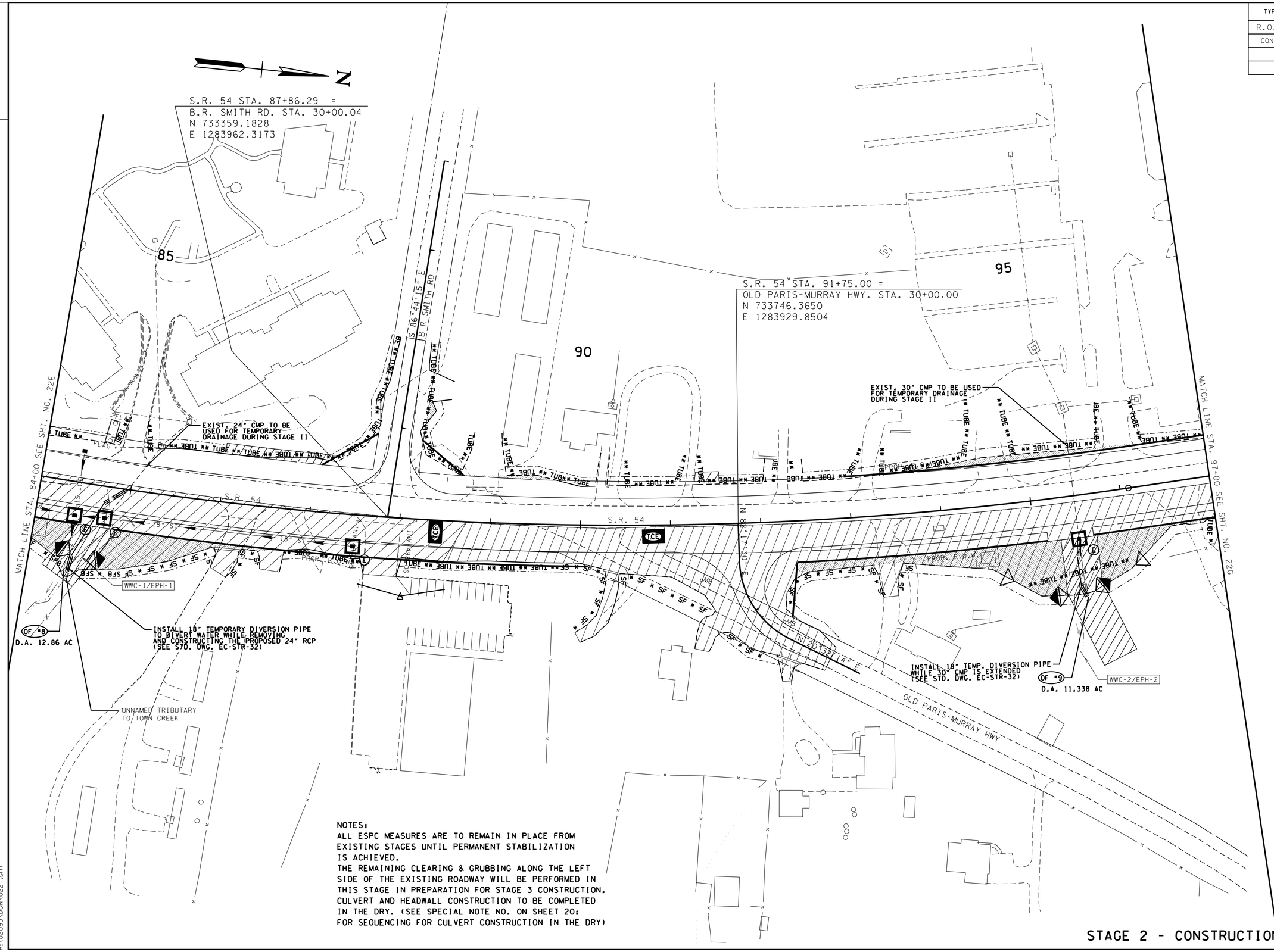
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22F
CONST.	2017	NH-54(26)	22F



NOTES:
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CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102121
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 84+00 TO STA. 97+00
SCALE: 1"= 50'

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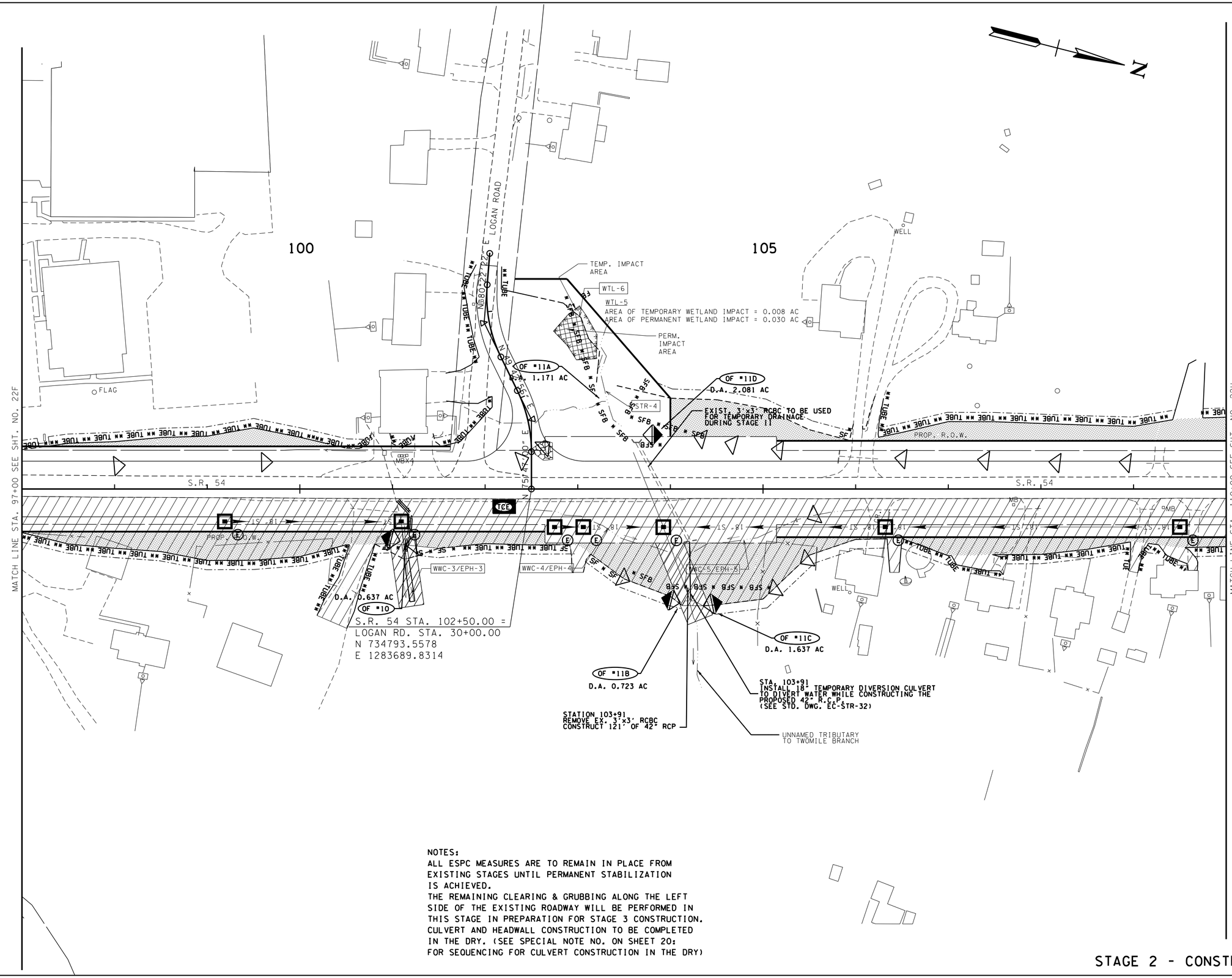
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22G
CONST.	2017	NH-54(26)	22G



NOTES:
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CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102375
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 97+00 TO STA. 110+00
SCALE: 1"= 50'

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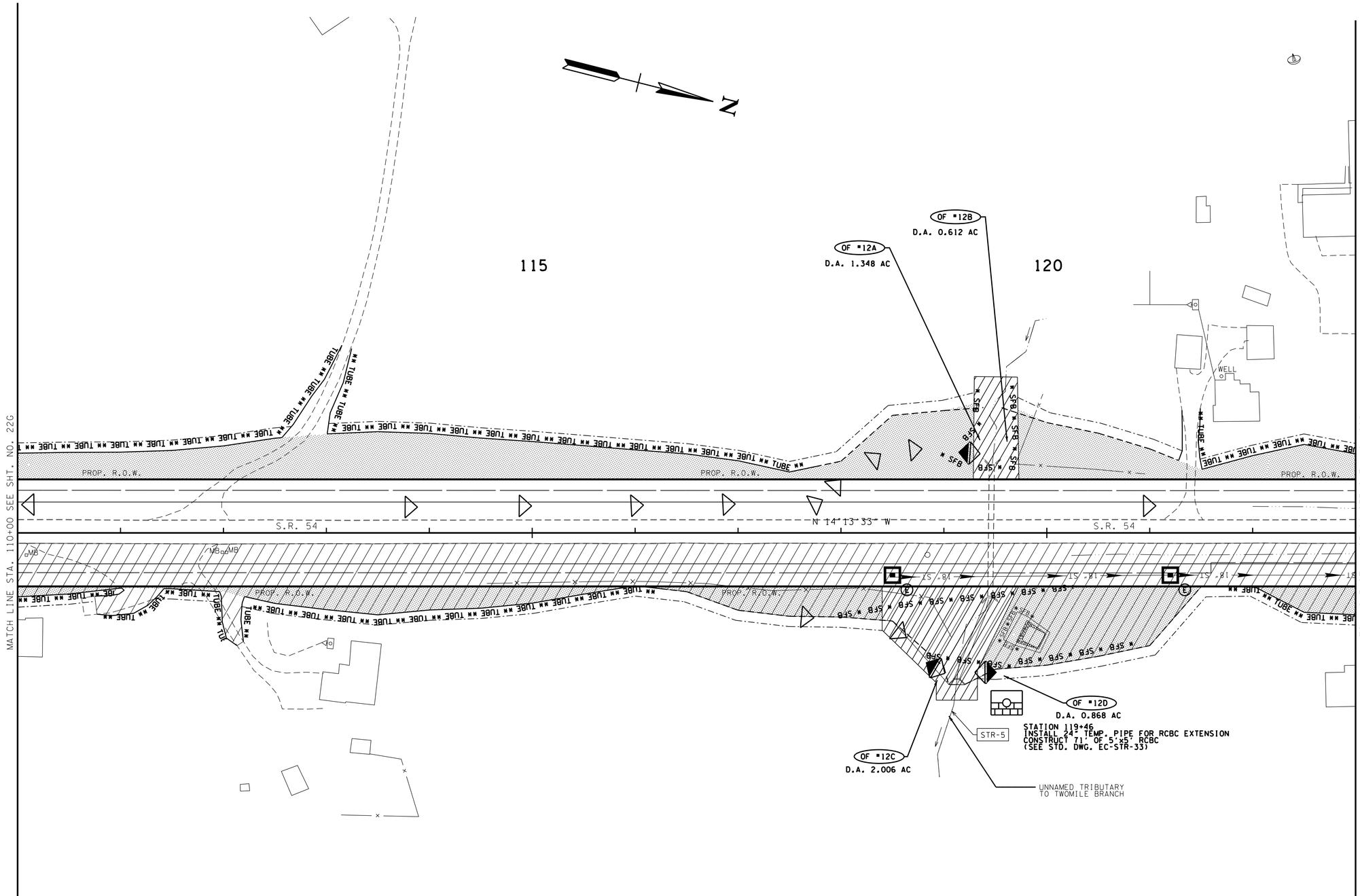
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22H
CONST.	2017	NH-54(26)	22H



NOTES:
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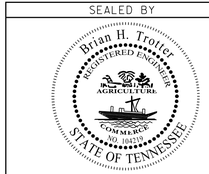
THE REMAINING CLEARING & GRUBBING ALONG THE LEFT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 110+00 TO STA. 123+00
SCALE: 1"= 50'

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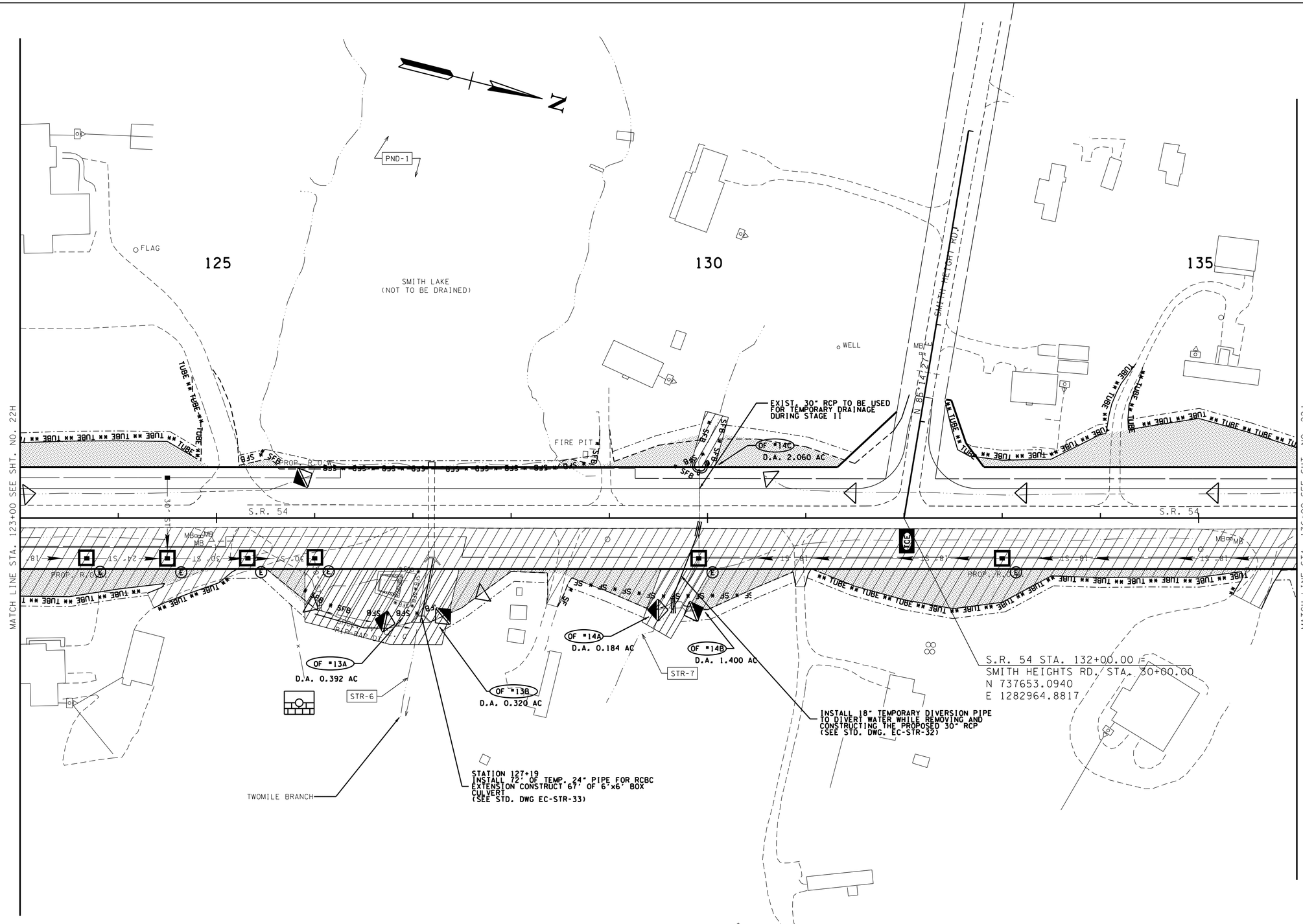
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22I
CONST.	2017	NH-54(26)	22I

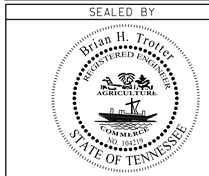


NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING ALONG THE LEFT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. 9N SHEET 22

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 123+00 TO STA. 136+00
SCALE: 1"= 50'

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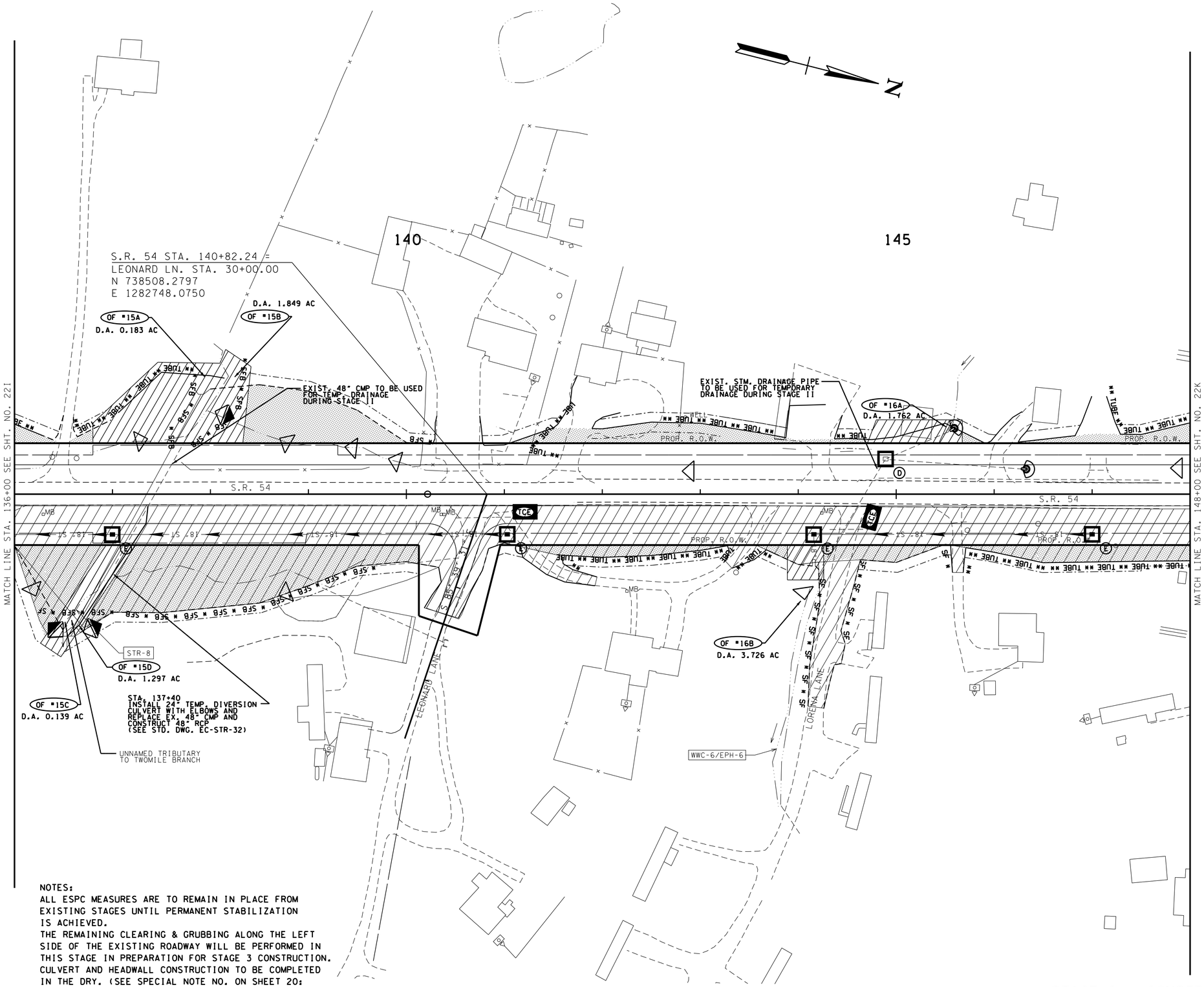
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22J
CONST.	2017	NH-54(26)	22J



NOTES:
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THE REMAINING CLEARING & GRUBBING ALONG THE LEFT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 136+00 TO STA. 148+00
SCALE: 1"= 50'

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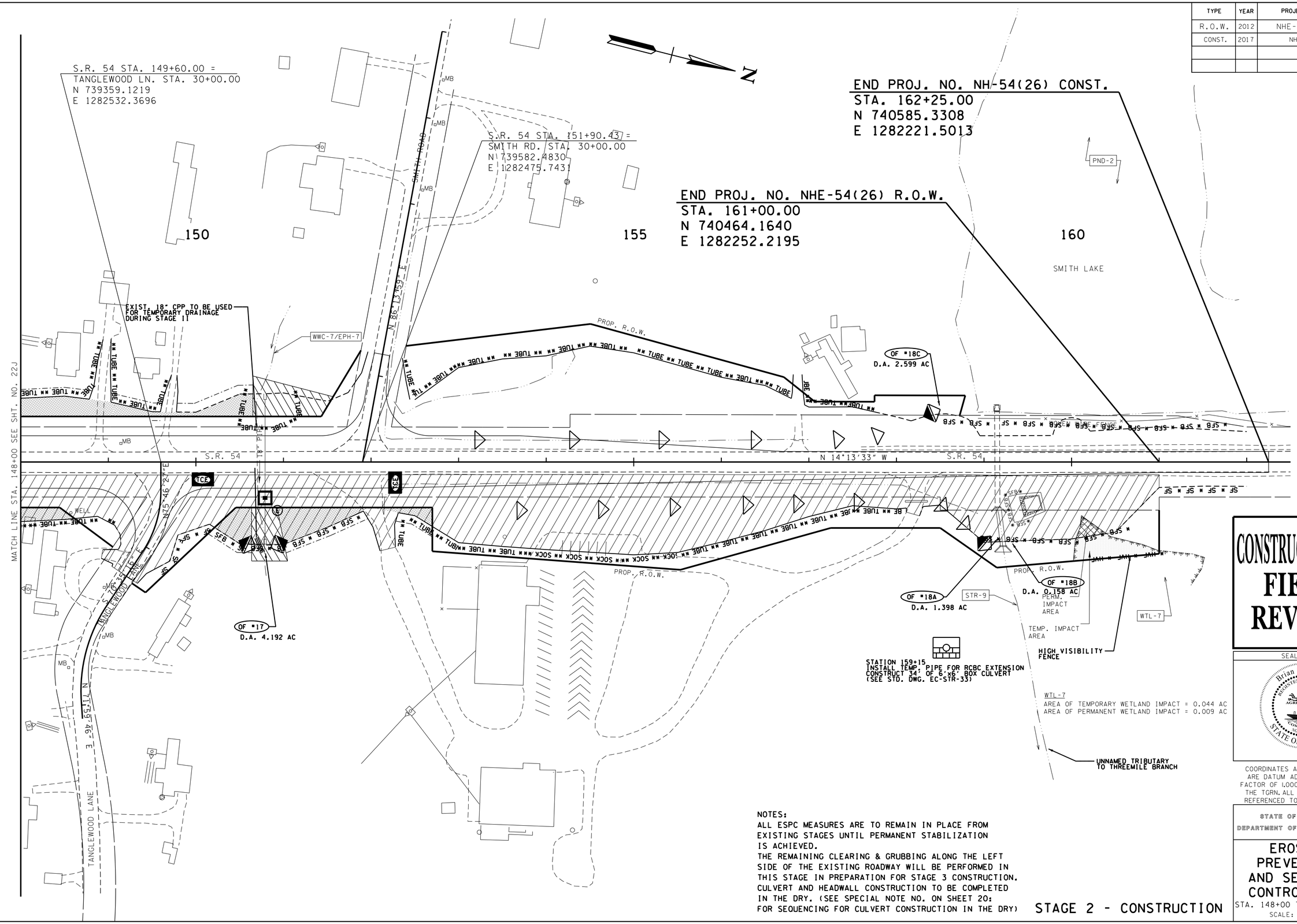
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	22K
CONST.	2017	NH-54(26)	22K



NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
THE REMAINING CLEARING & GRUBBING ALONG THE LEFT SIDE OF THE EXISTING ROADWAY WILL BE PERFORMED IN THIS STAGE IN PREPARATION FOR STAGE 3 CONSTRUCTION.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)

STAGE 2 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 100831
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 148+00 TO END PROJECT
SCALE: 1"= 50'

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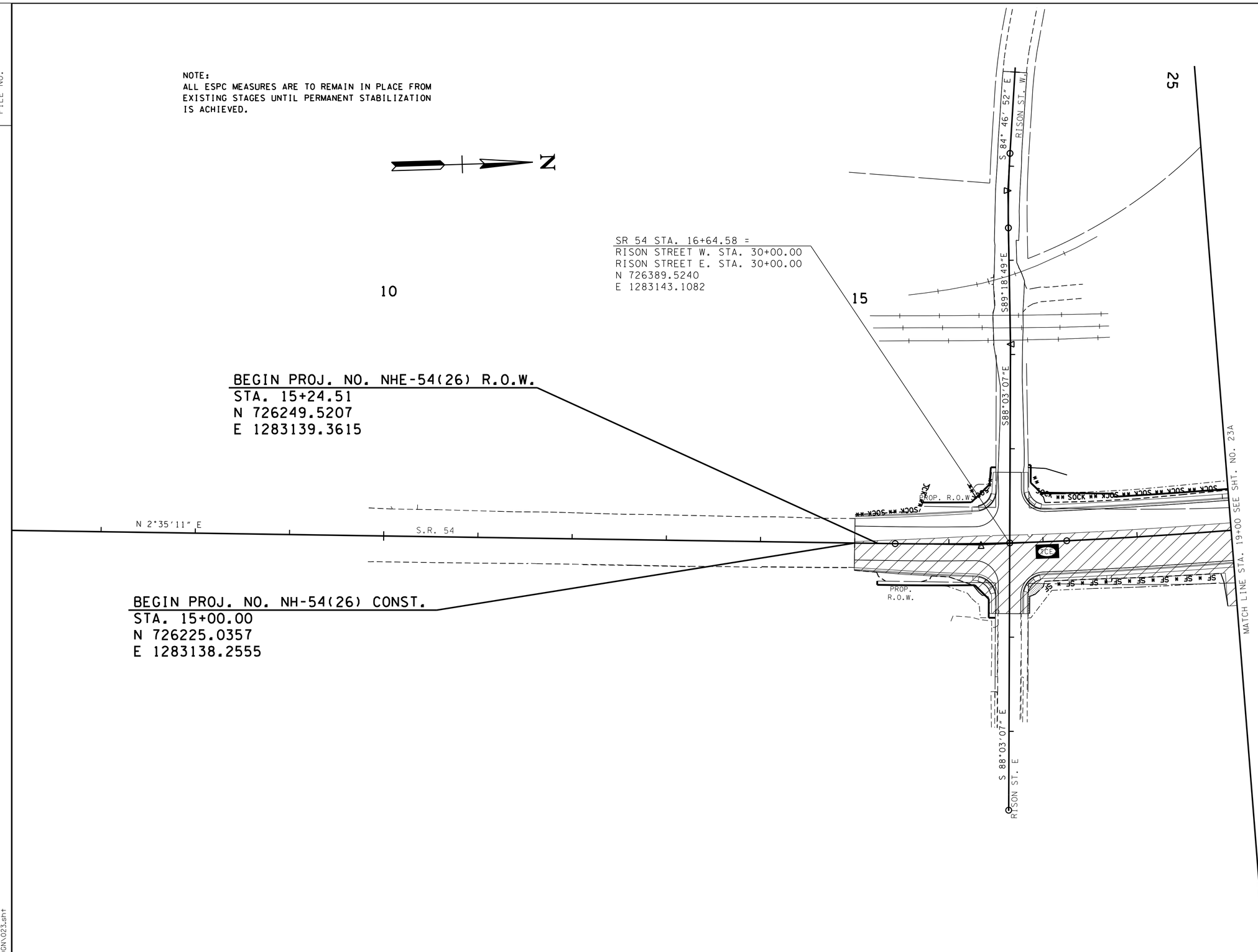
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23
CONST.	2017	NH-54(26)	23

NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102270
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
BEGIN PROJECT TO STA.19+00
SCALE: 1"= 50'

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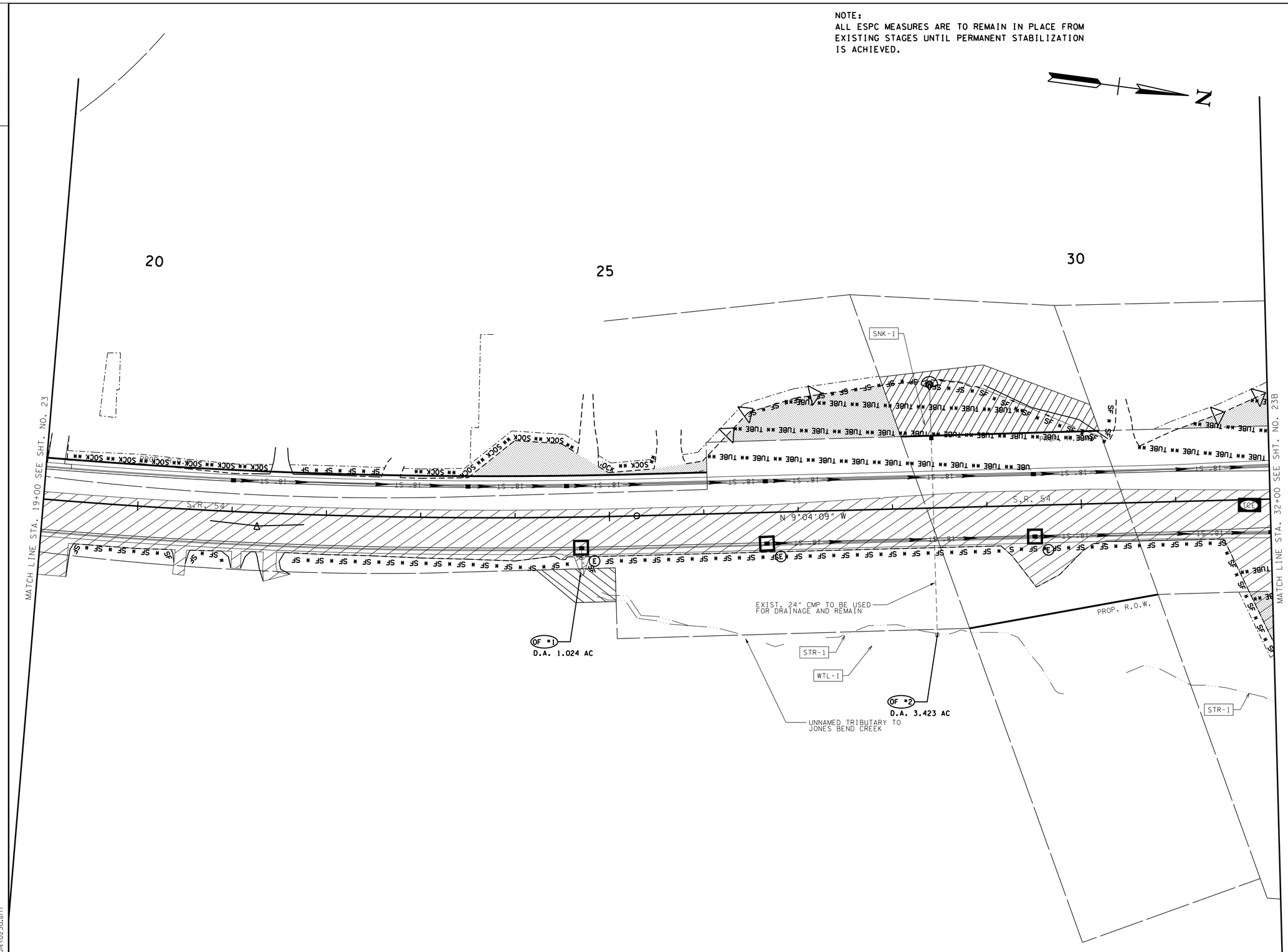
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23A
CONST.	2017	NH-54(26)	23A

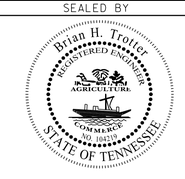
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

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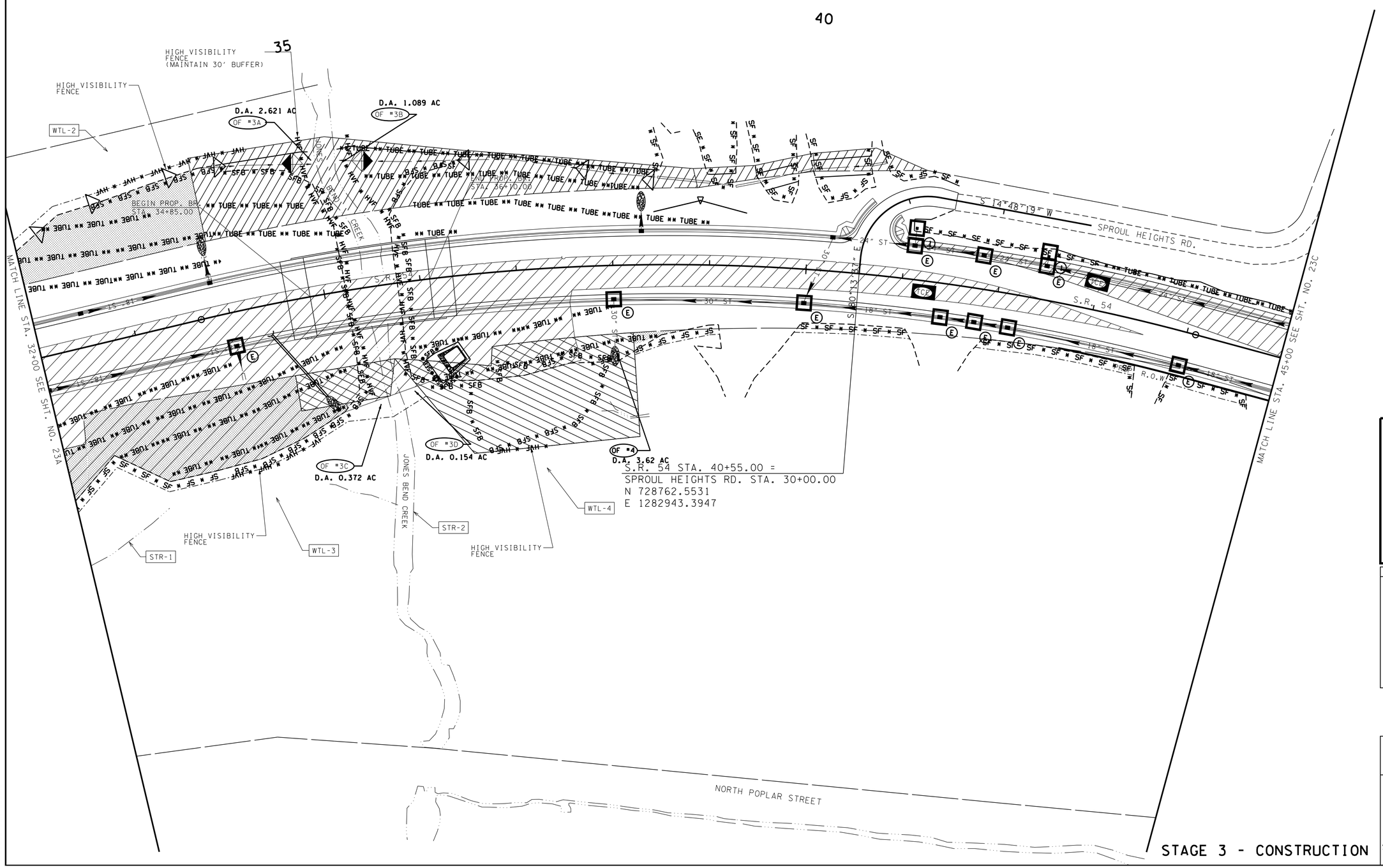
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.

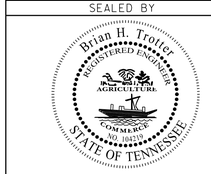
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23B
CONST.	2017	NH-54(26)	23B



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 32+00 TO STA. 45+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.	2012	NHE-54(26)	23C
CONST.	2017	NH-54(26)	23C

NOTES:
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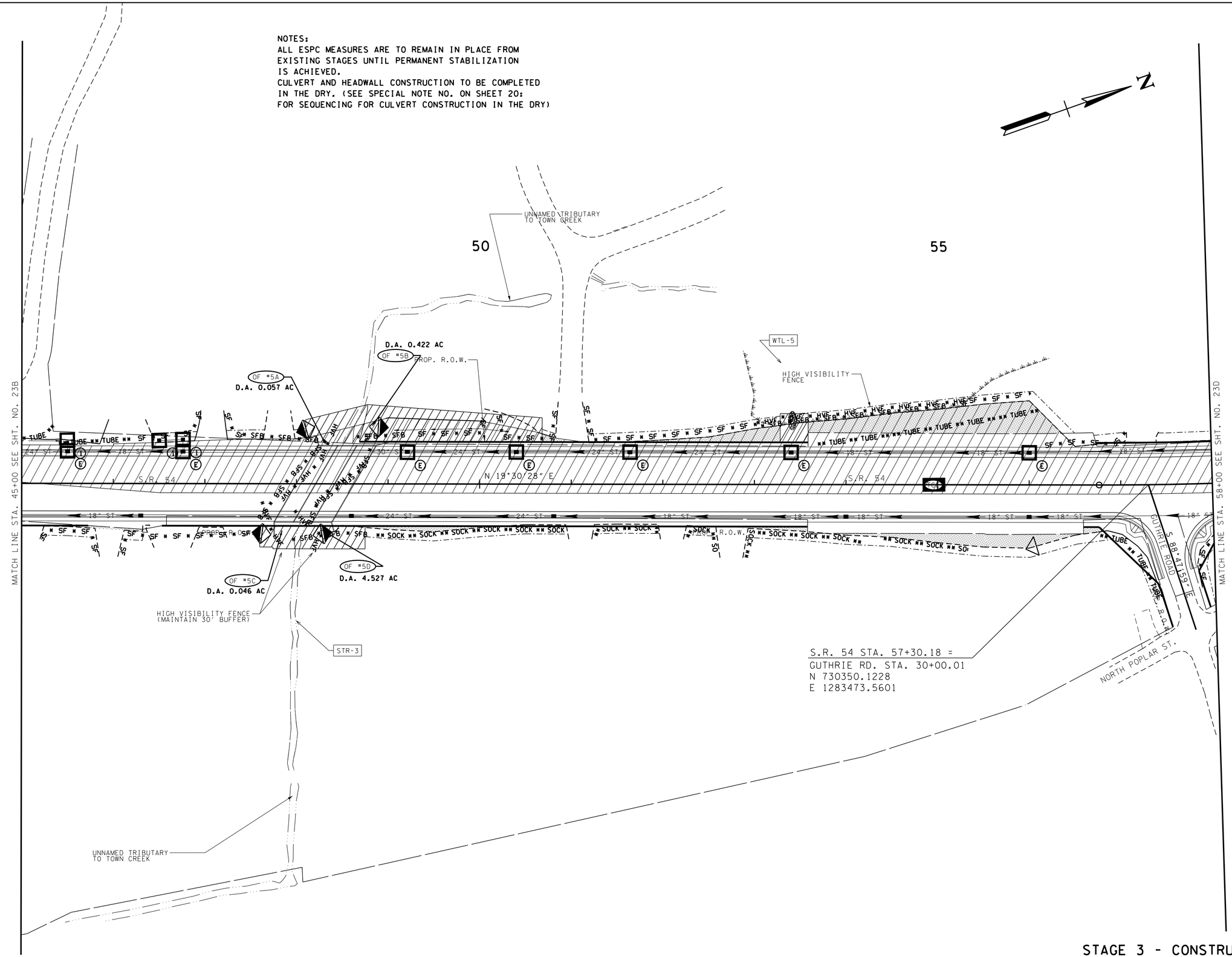
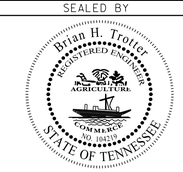
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 45+00 TO STA. 58+00
SCALE: 1"= 50'

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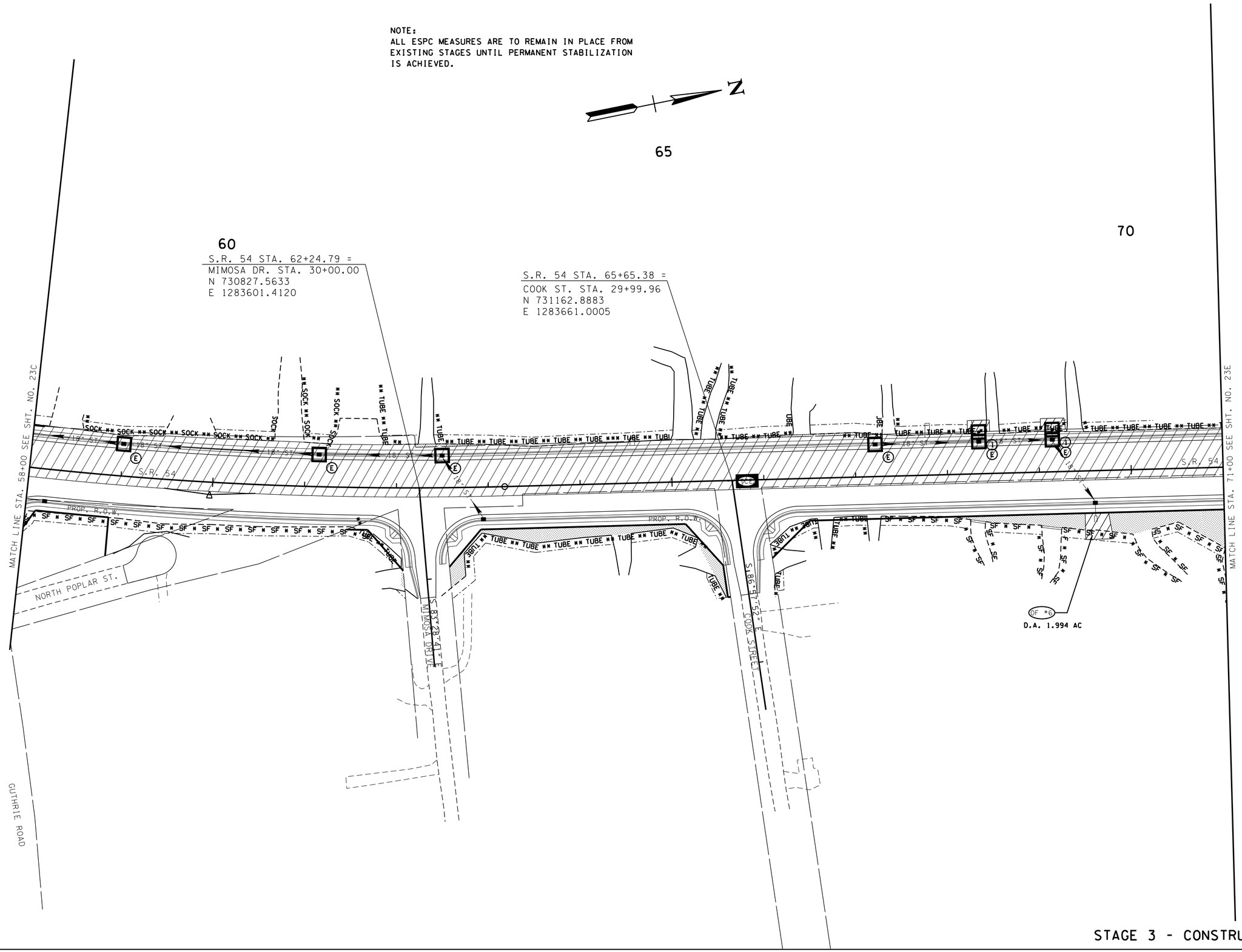
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23D
CONST.	2017	NH-54(26)	23D

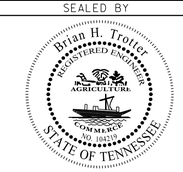
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 58+00 TO STA. 71+00
SCALE: 1"= 50'

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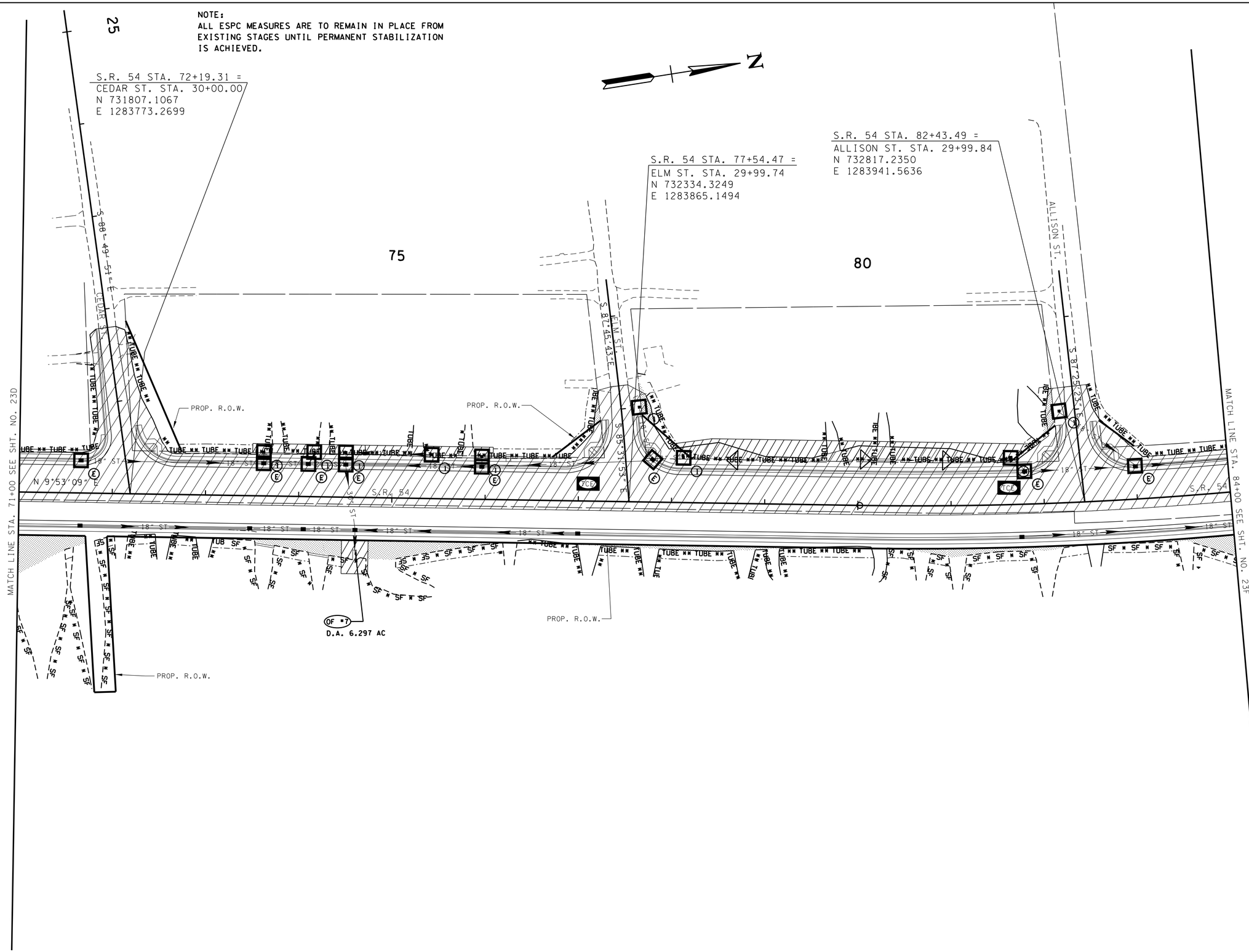
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23E
CONST.	2017	NH-54(26)	23E

NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104257
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 71+00 TO STA. 84+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.	2012	NHE-54(26)	23F
CONST.	2017	NH-54(26)	23F

NOTES:
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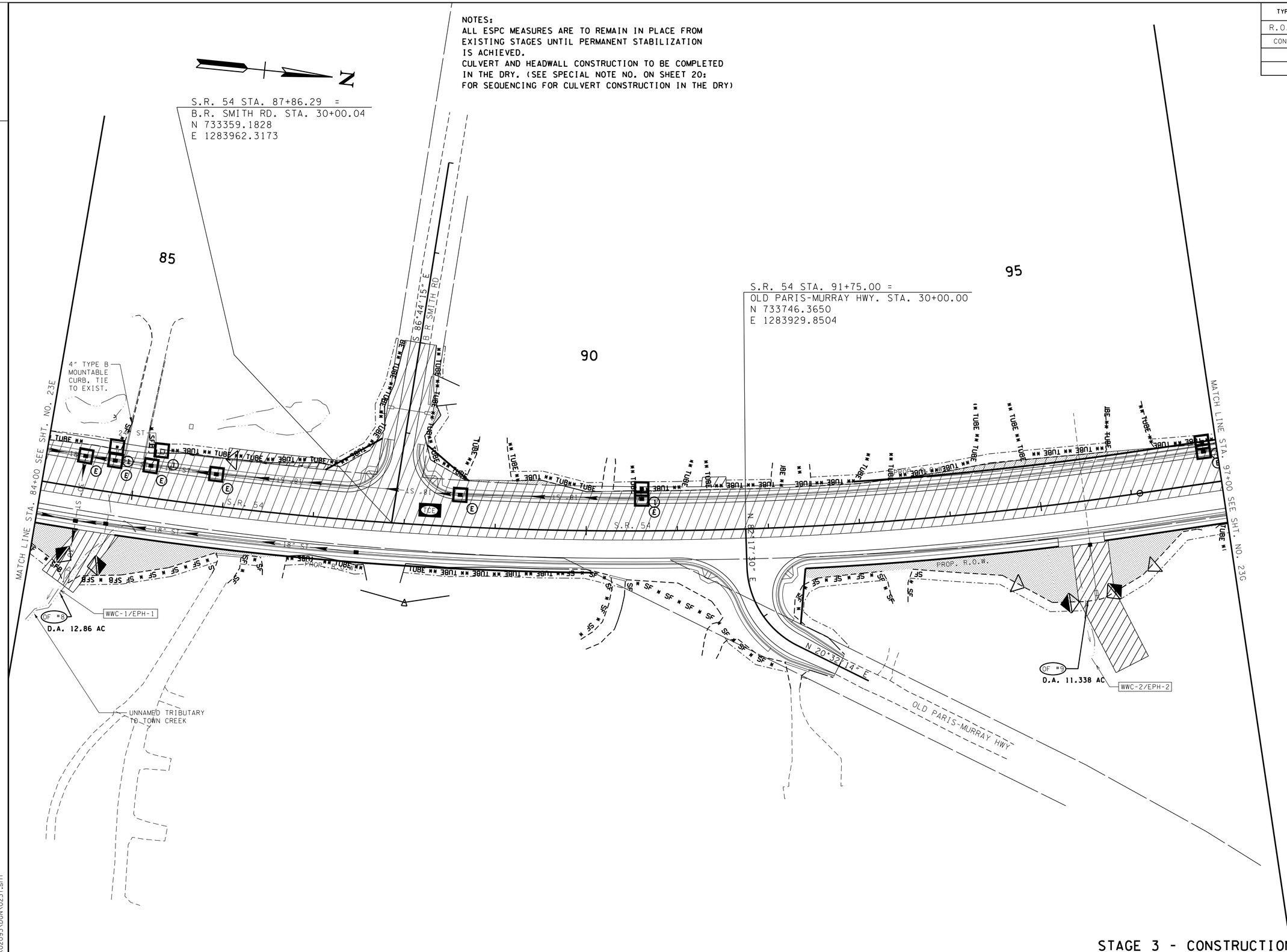
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 84+00 TO STA. 97+00
SCALE: 1"= 50'

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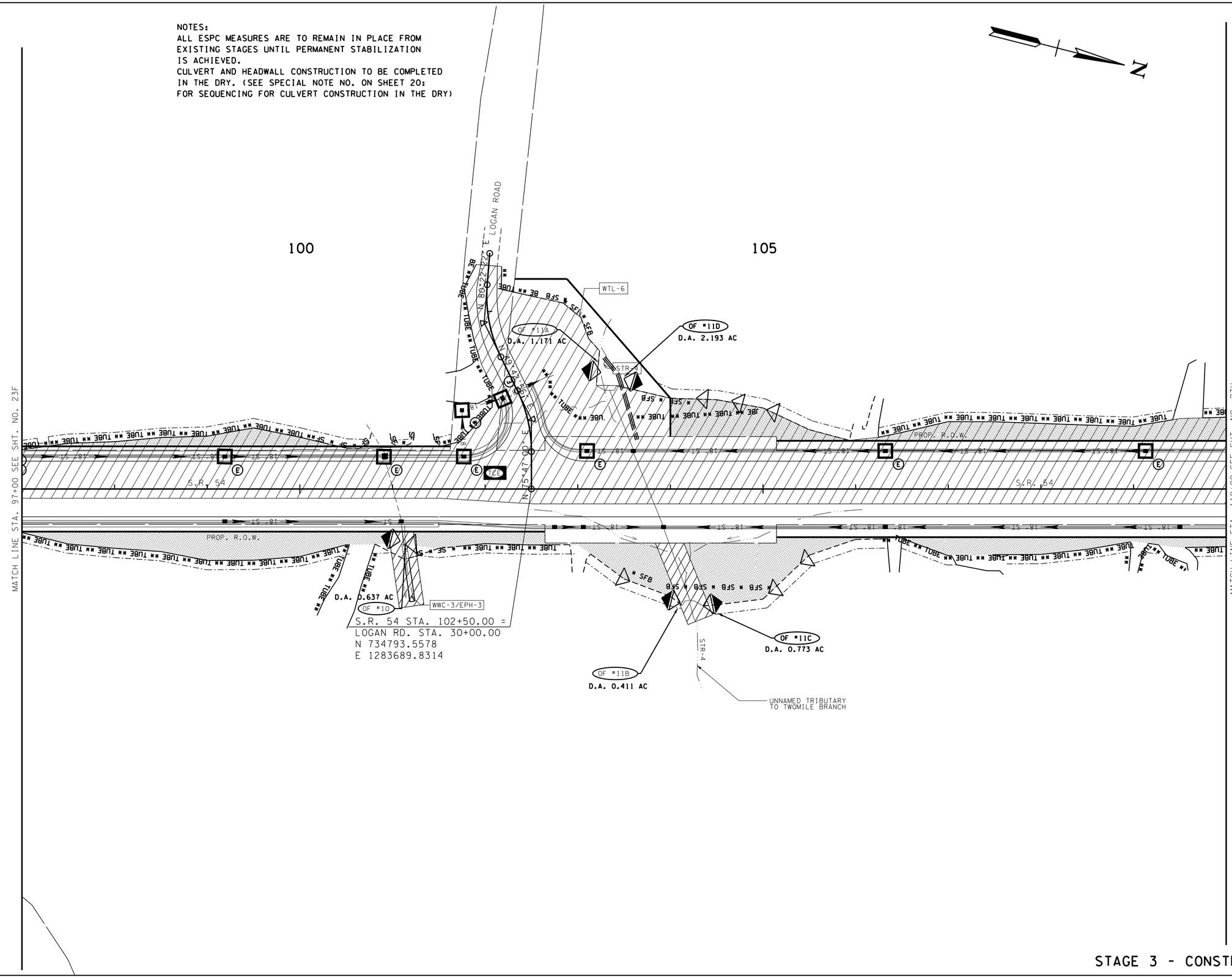
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23G
CONST.	2017	NH-54(26)	23G

NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 97+00 TO STA. 110+00
SCALE: 1"= 50'

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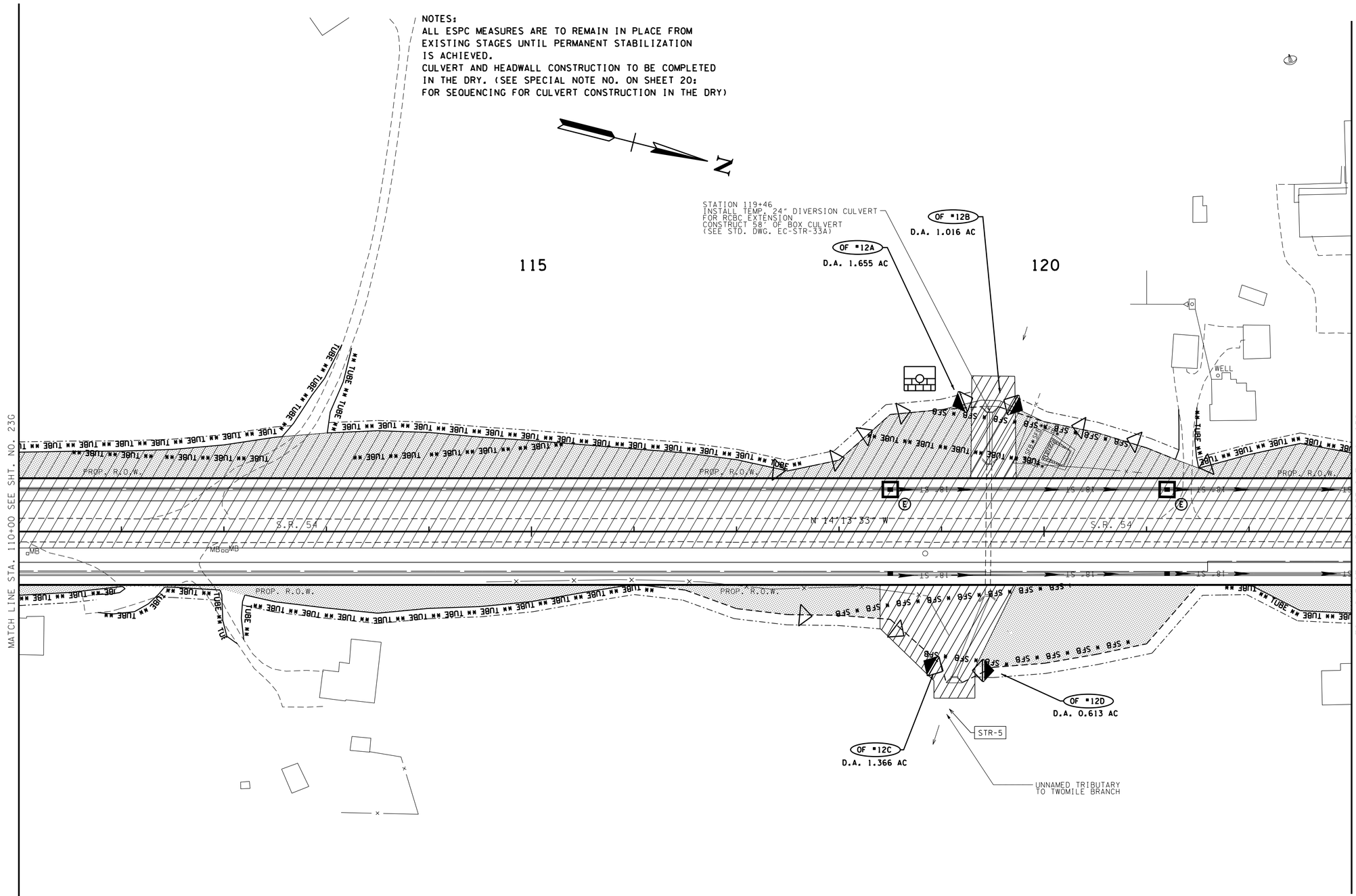
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23H
CONST.	2017	NH-54(26)	23H

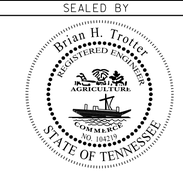
NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 110+00 TO STA. 123+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.	2012	NHE-54(26)	23I
CONST.	2017	NH-54(26)	23I

NOTES:
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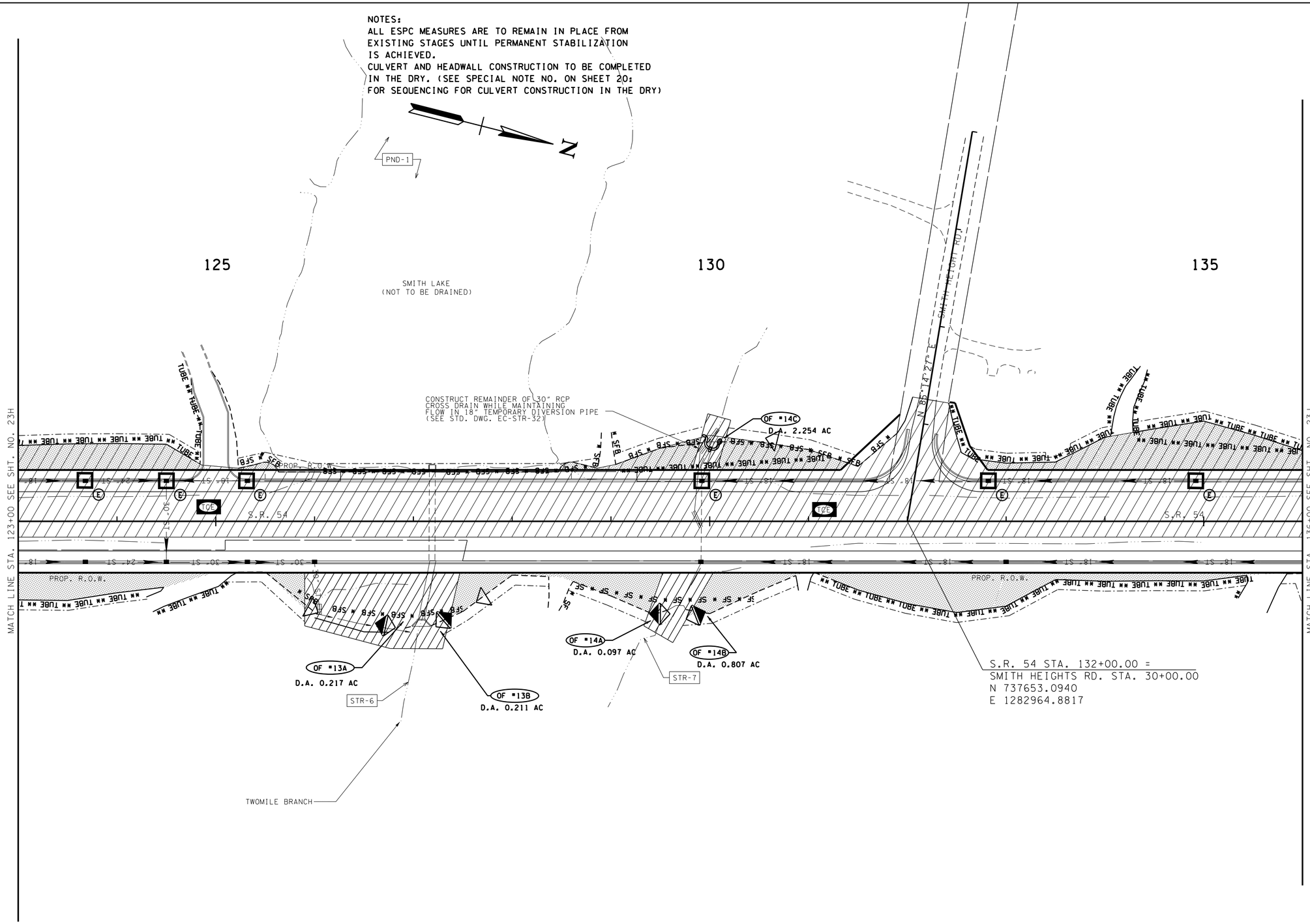
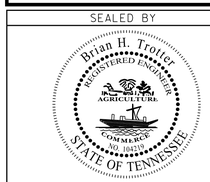


STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 123+00 TO STA. 136+00
SCALE: 1"= 50'

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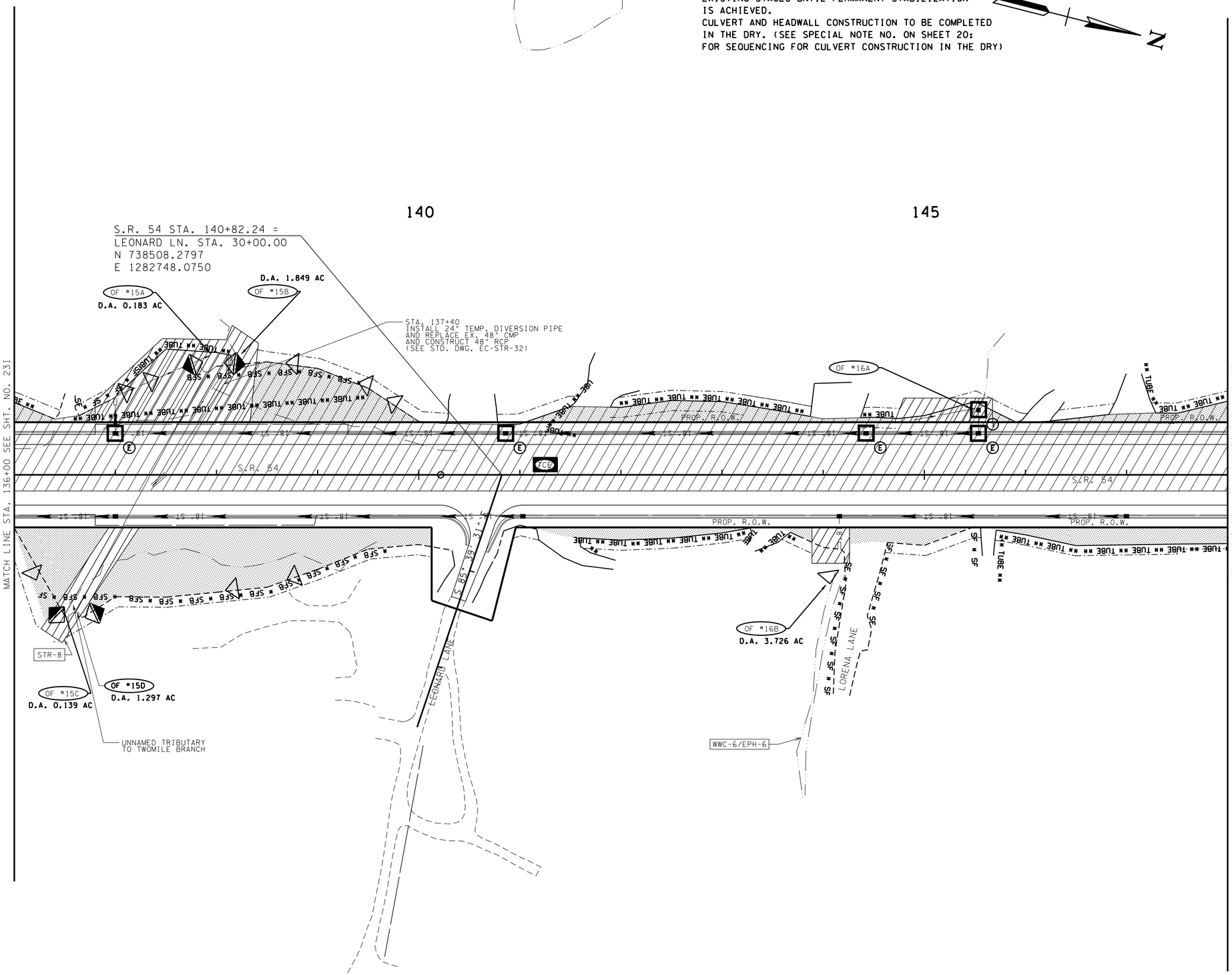
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23J
CONST.	2017	NH-54(26)	23J

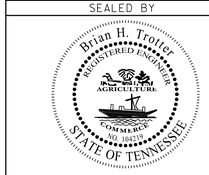
NOTES:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.
CULVERT AND HEADWALL CONSTRUCTION TO BE COMPLETED IN THE DRY. (SEE SPECIAL NOTE NO. ON SHEET 20: FOR SEQUENCING FOR CULVERT CONSTRUCTION IN THE DRY)



STAGE 3 - CONSTRUCTION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 136+00 TO STA. 148+00
SCALE: 1"= 50'

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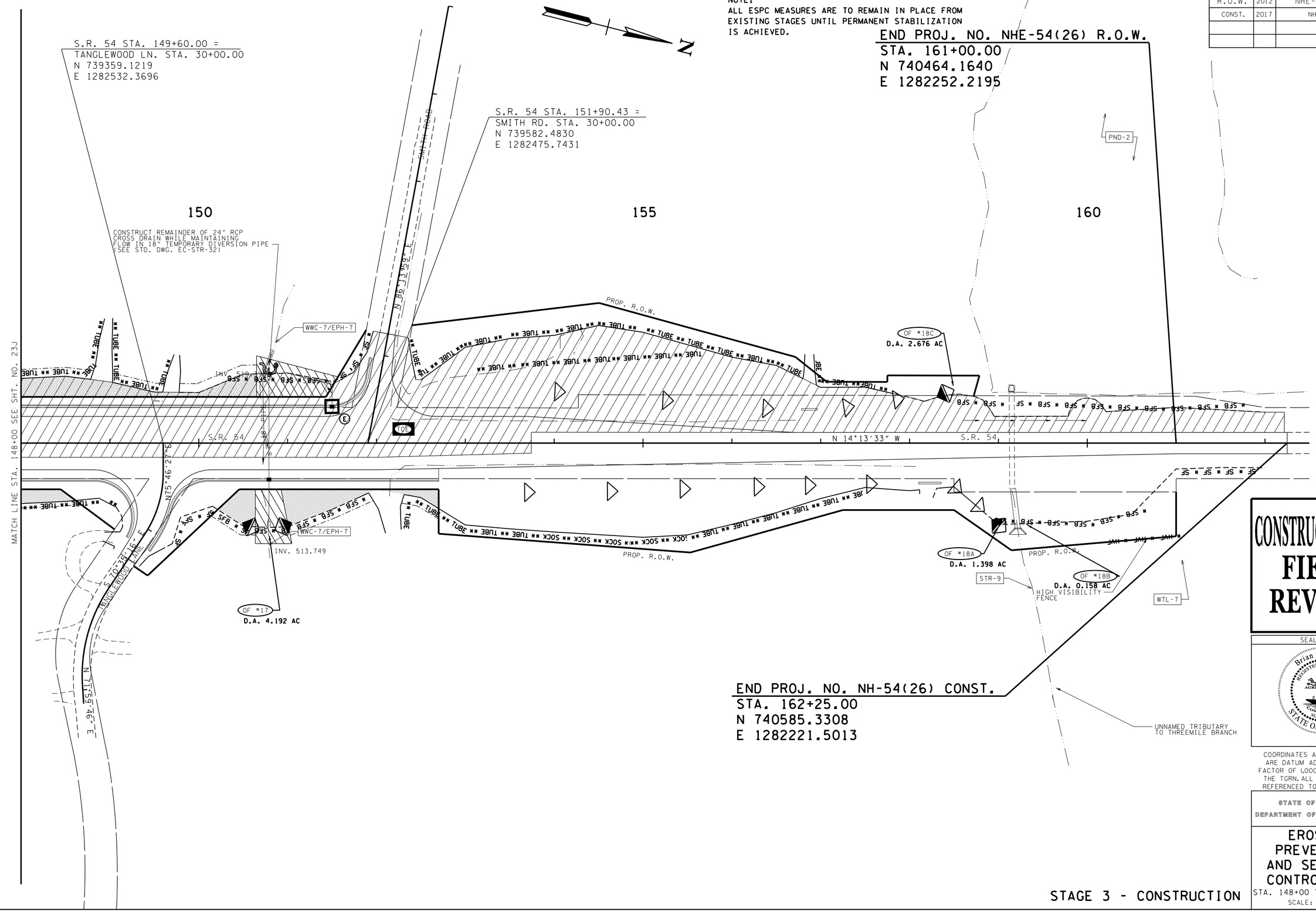
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

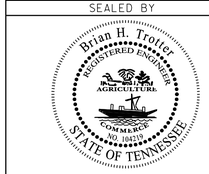
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	23K
CONST.	2017	NH-54(26)	23K

NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 148+00 TO END PROJECT

SCALE: 1"= 50'

STAGE 3 - CONSTRUCTION

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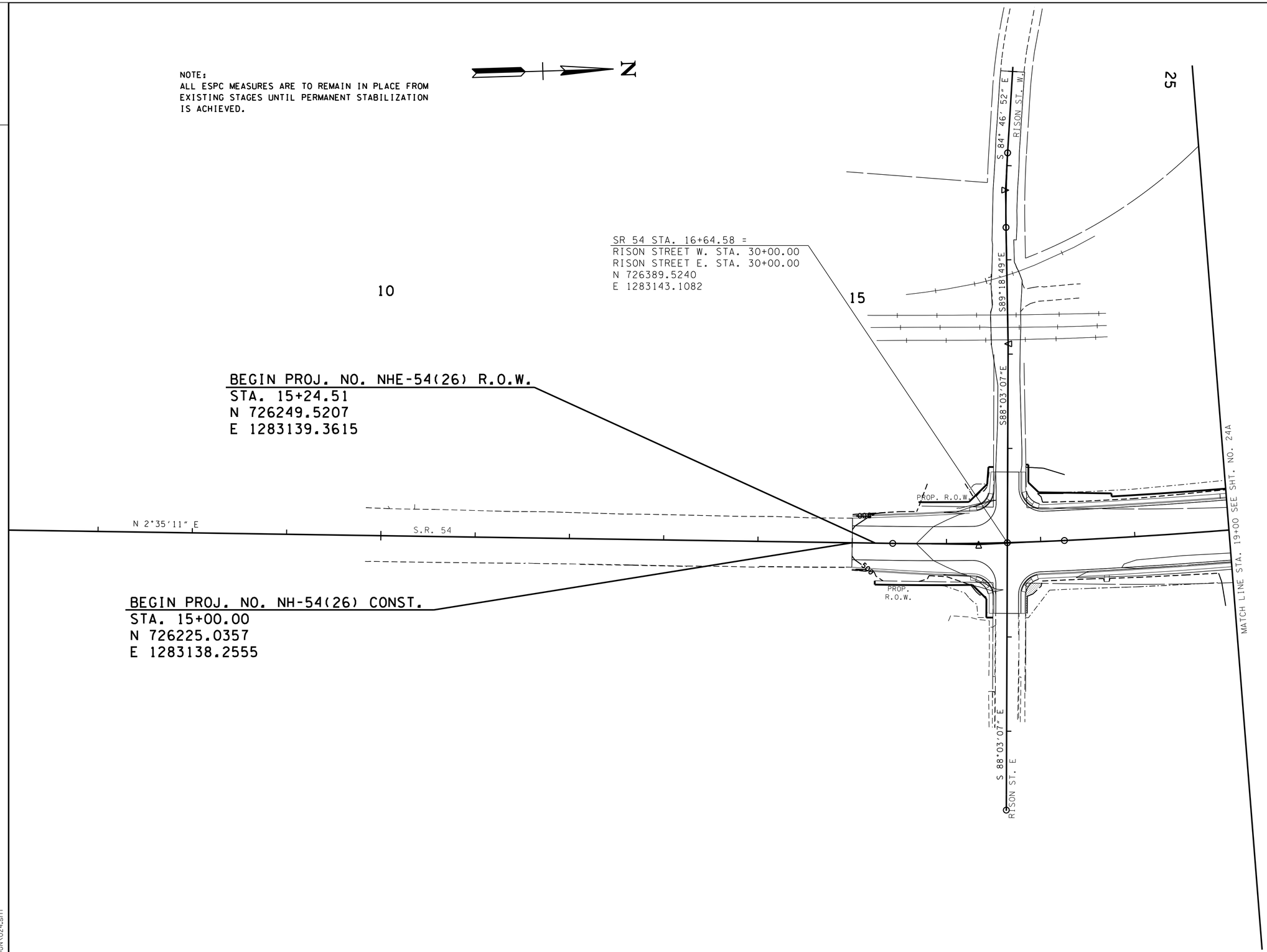
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24

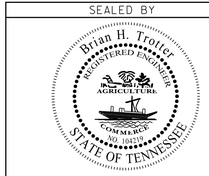
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
BEGIN PROJECT TO STA.19+00
SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24A

NOTE:
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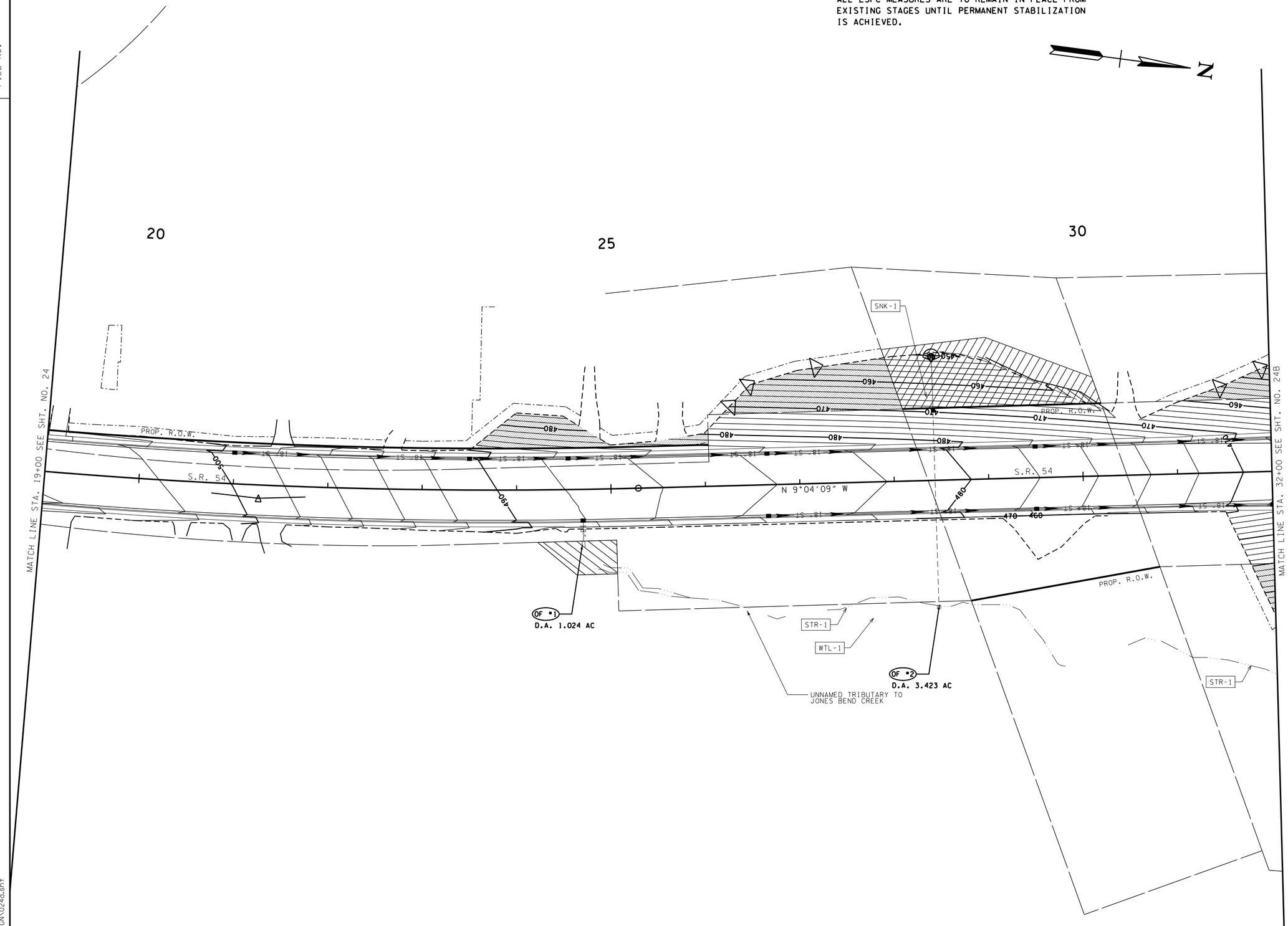

STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106337
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

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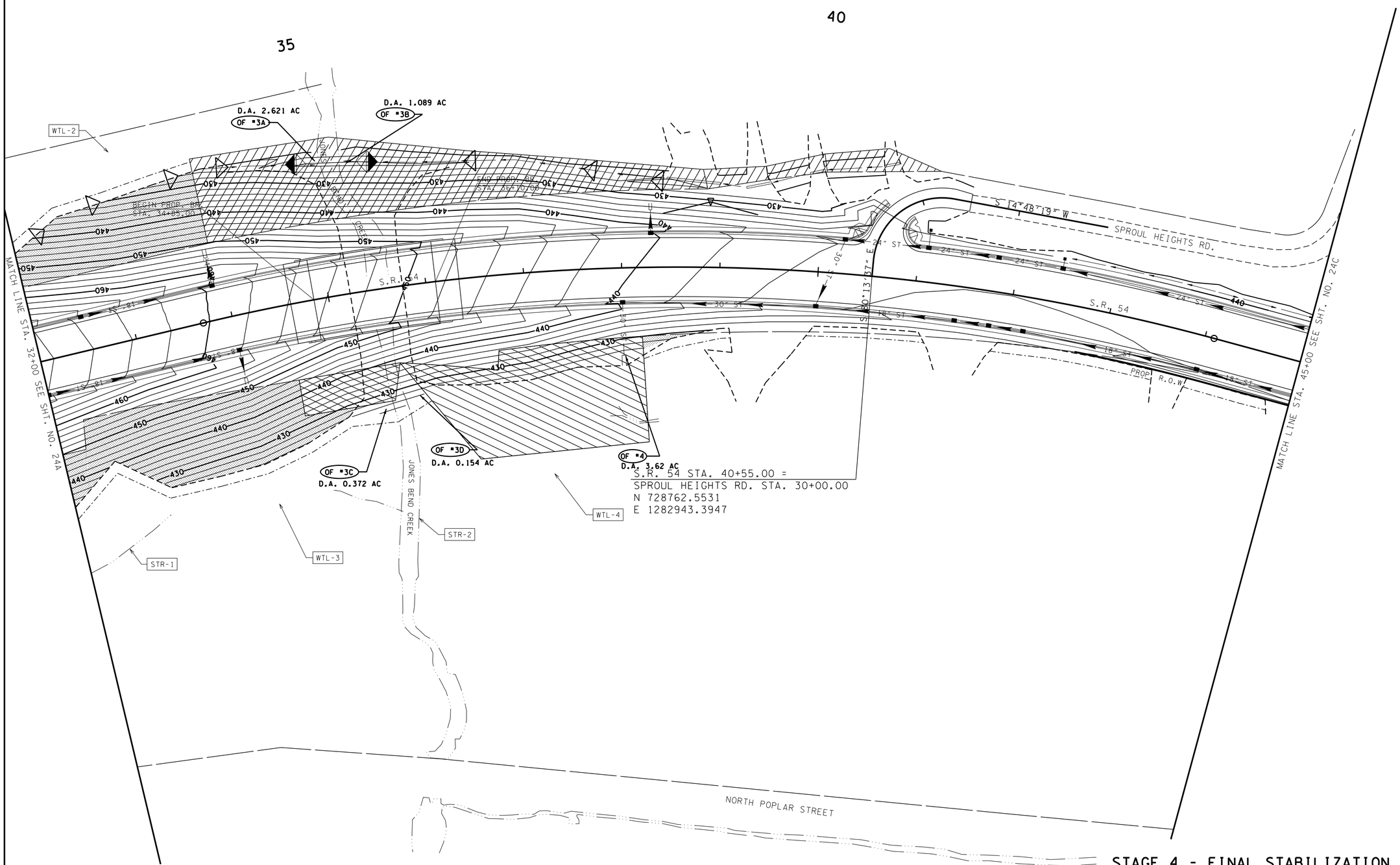
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24B



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Troter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 32+00 TO STA. 45+00
SCALE: 1"= 50'

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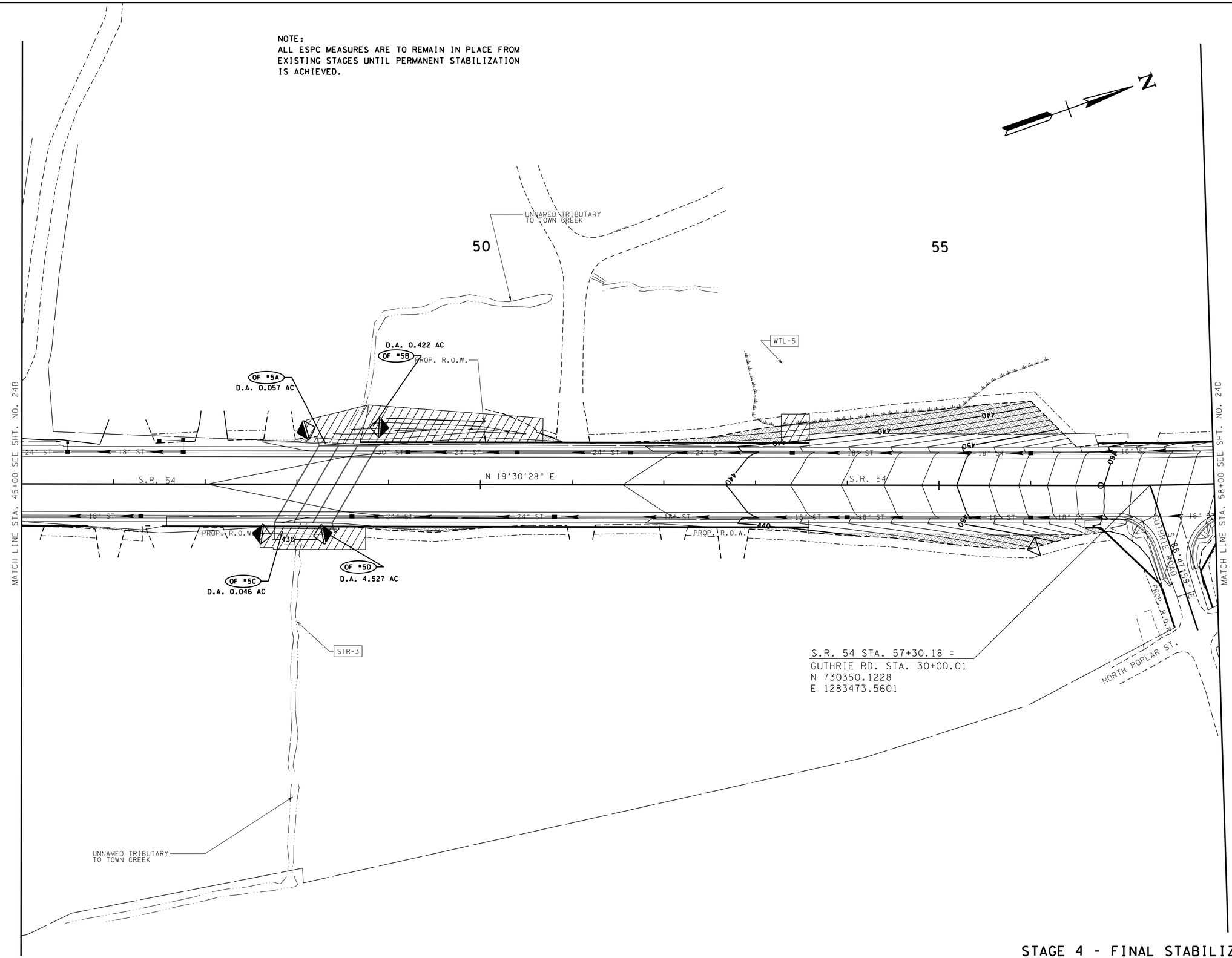
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24C

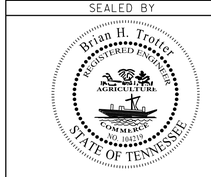
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 45+00 TO STA. 58+00
SCALE: 1"= 50'

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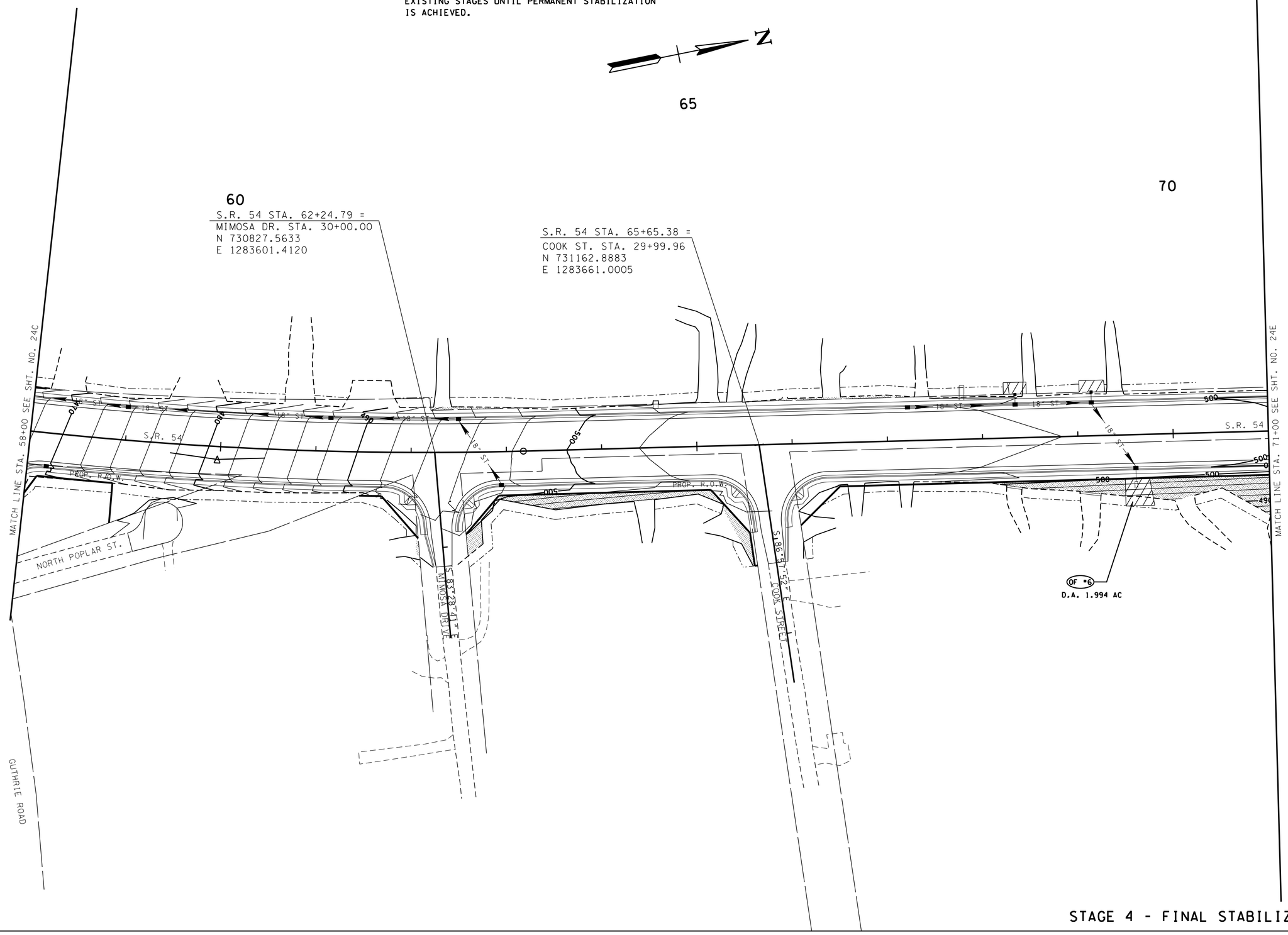
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24D

NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 58+00 TO STA. 71+00
SCALE: 1"= 50'

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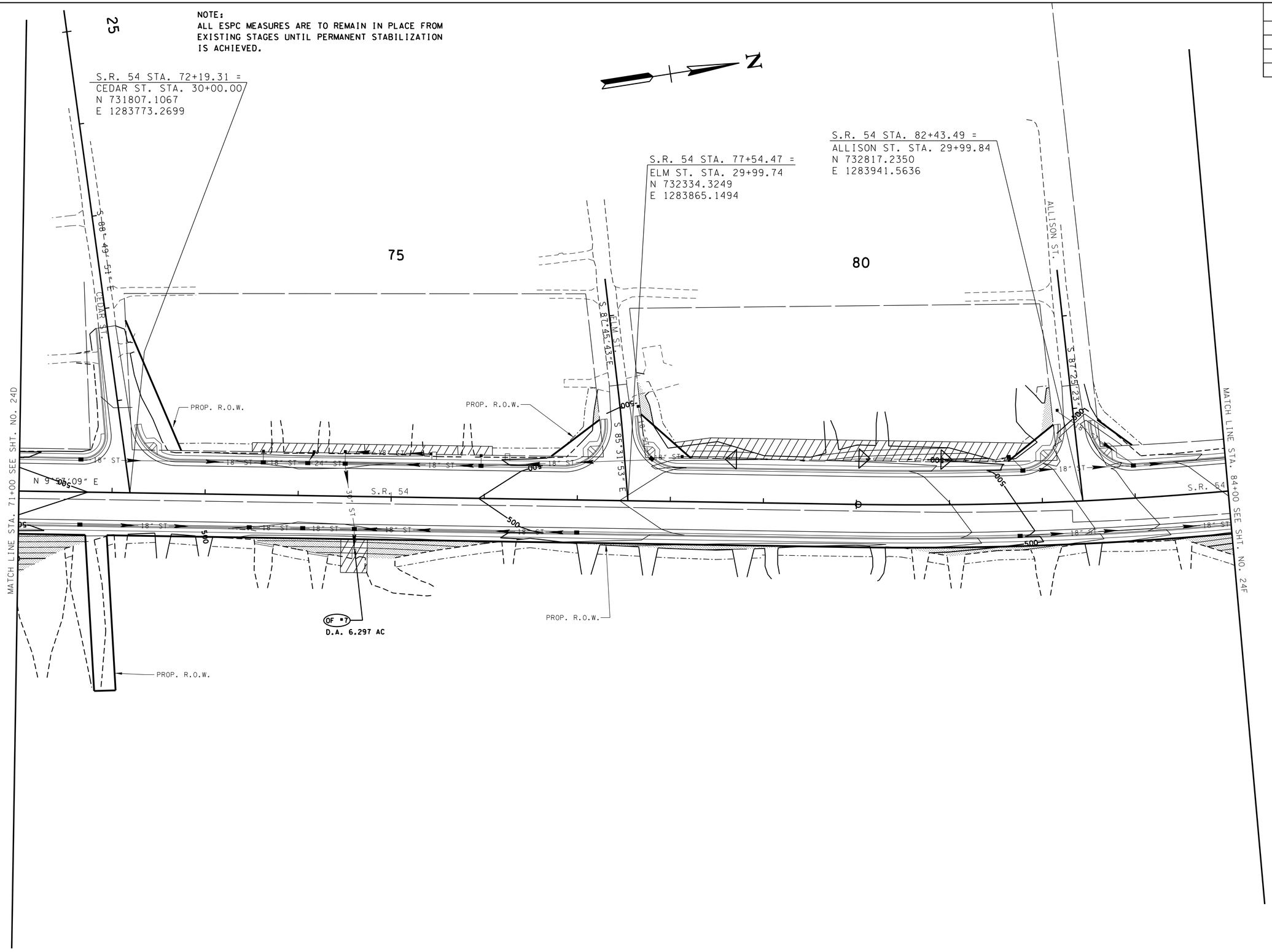
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24E

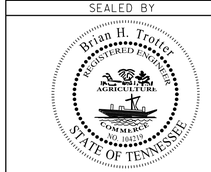
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 71+00 TO STA. 84+00
SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24F

NOTE:
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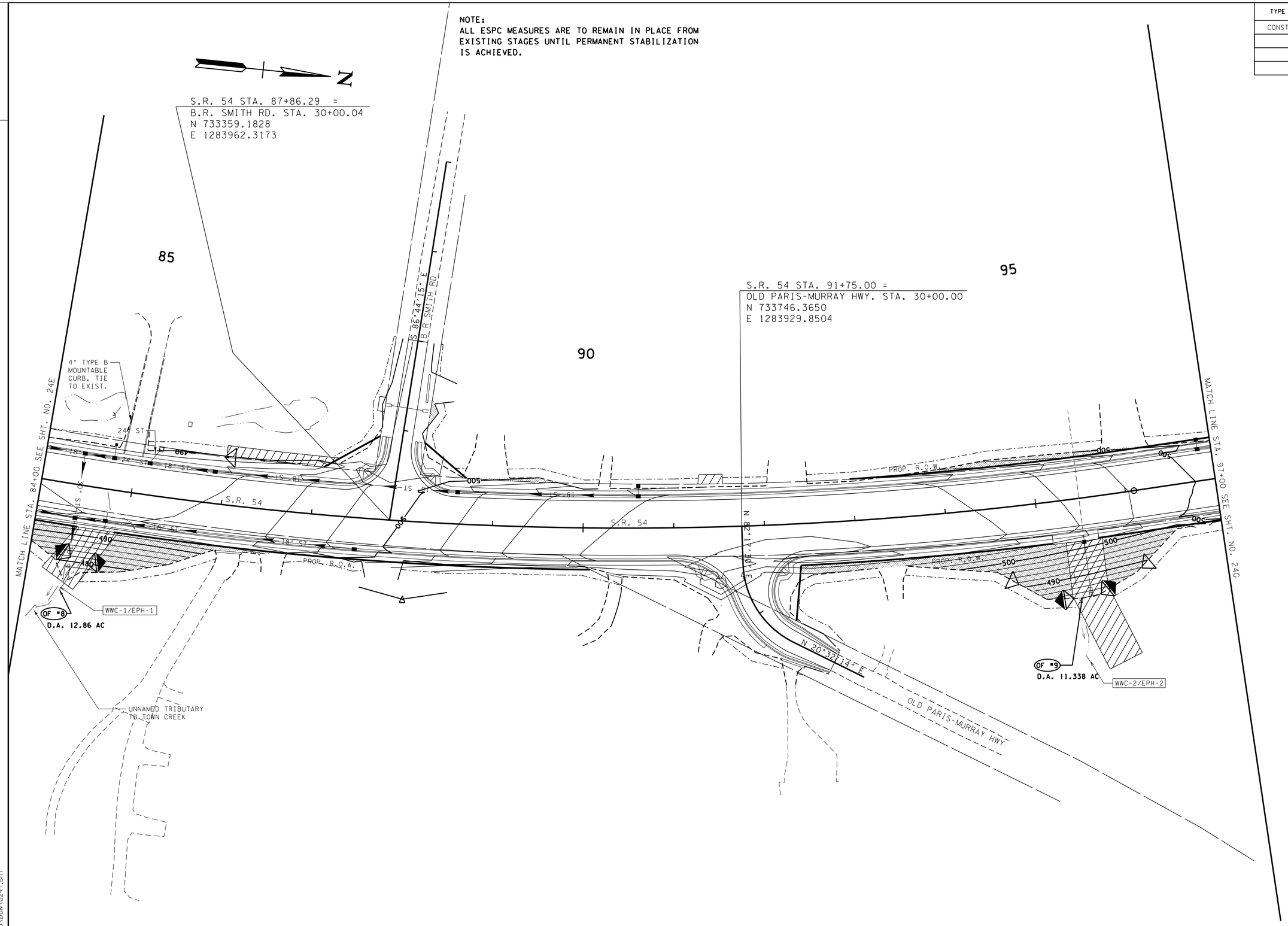
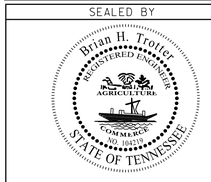


STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 84+00 TO STA. 97+00
SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24G

NOTE:
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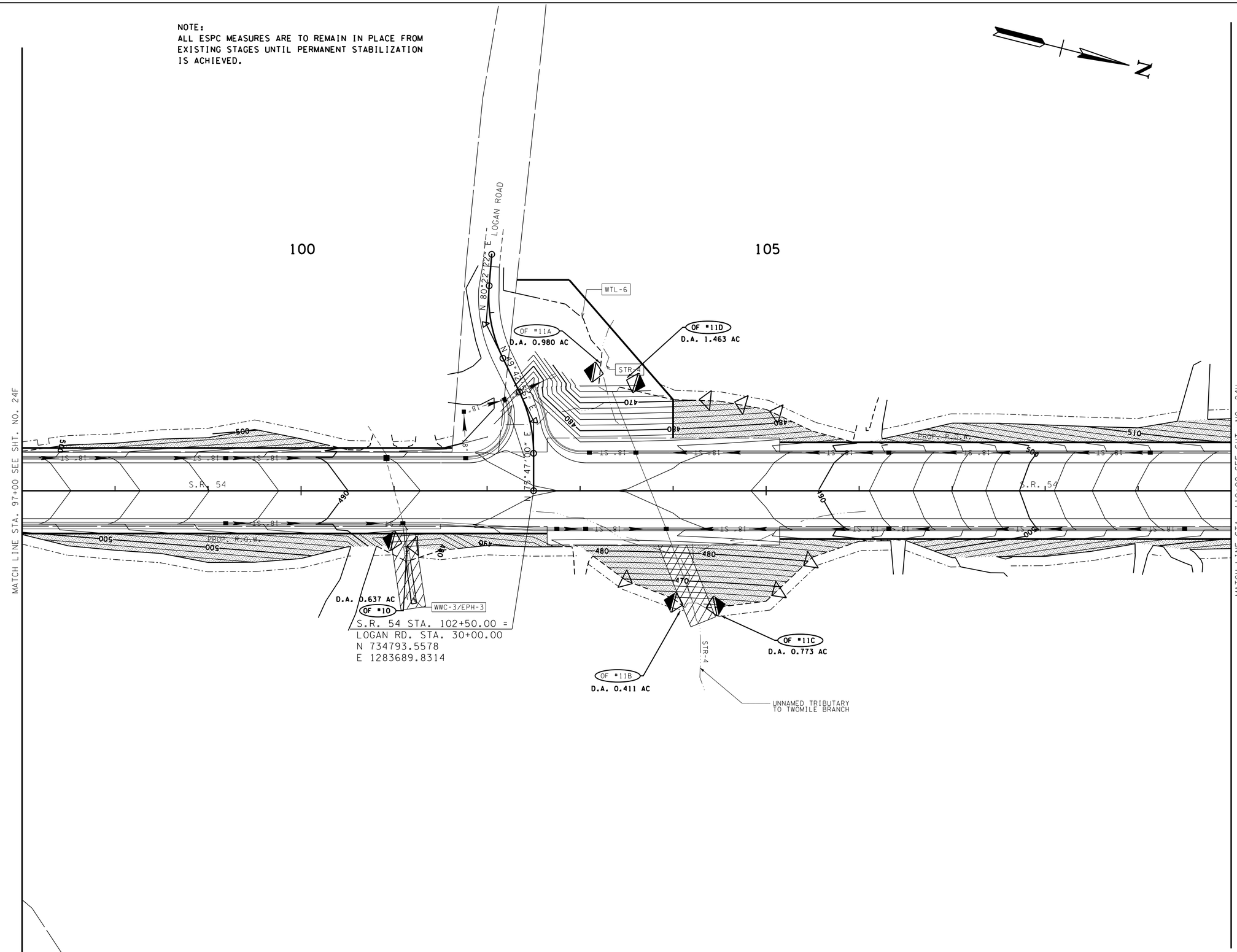
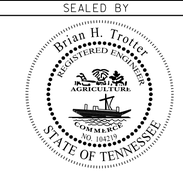


STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 97+00 TO STA. 110+00
SCALE: 1"= 50'

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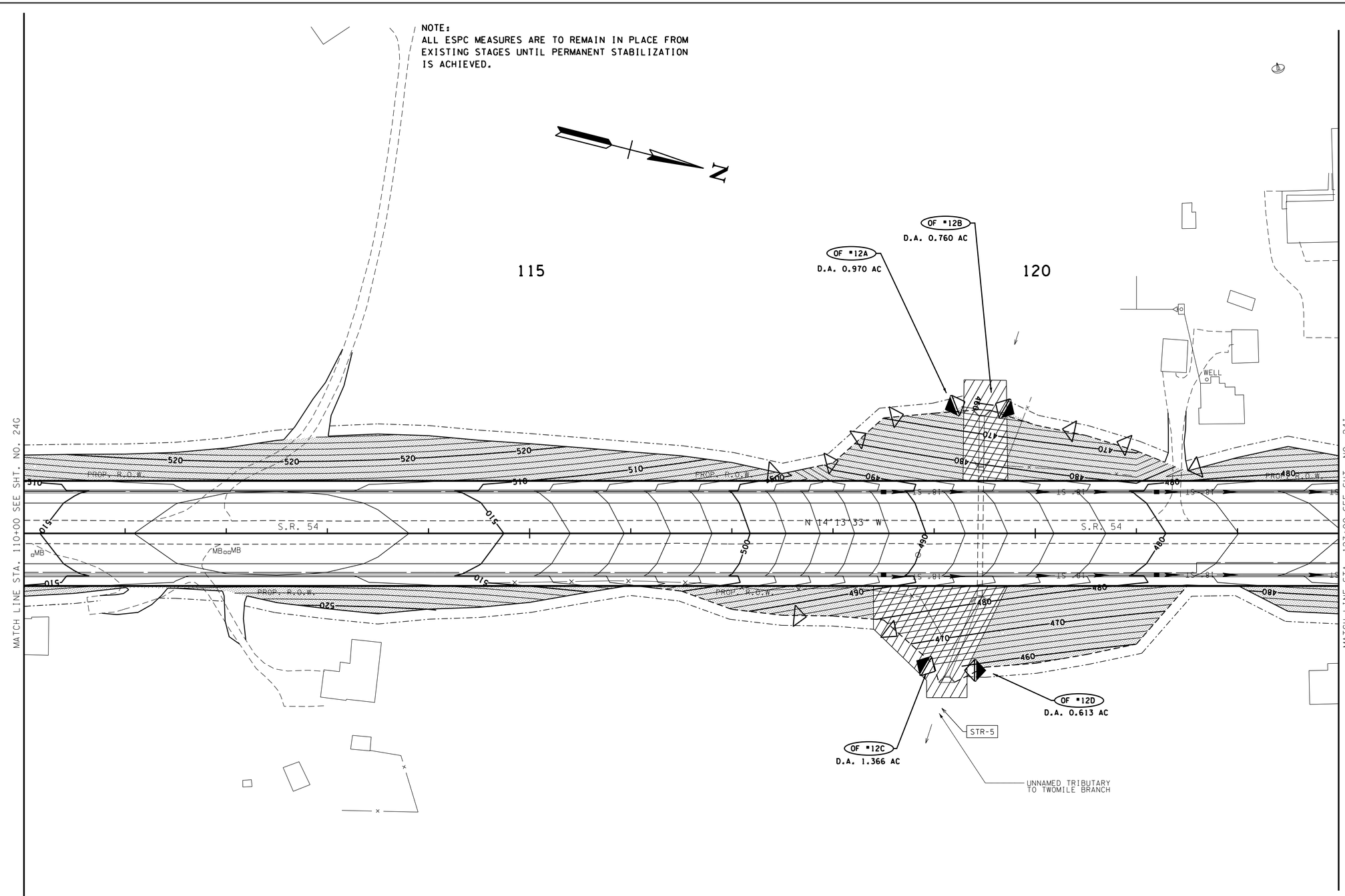
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24H



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Troter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 110+00 TO STA. 123+00
SCALE: 1"= 50'

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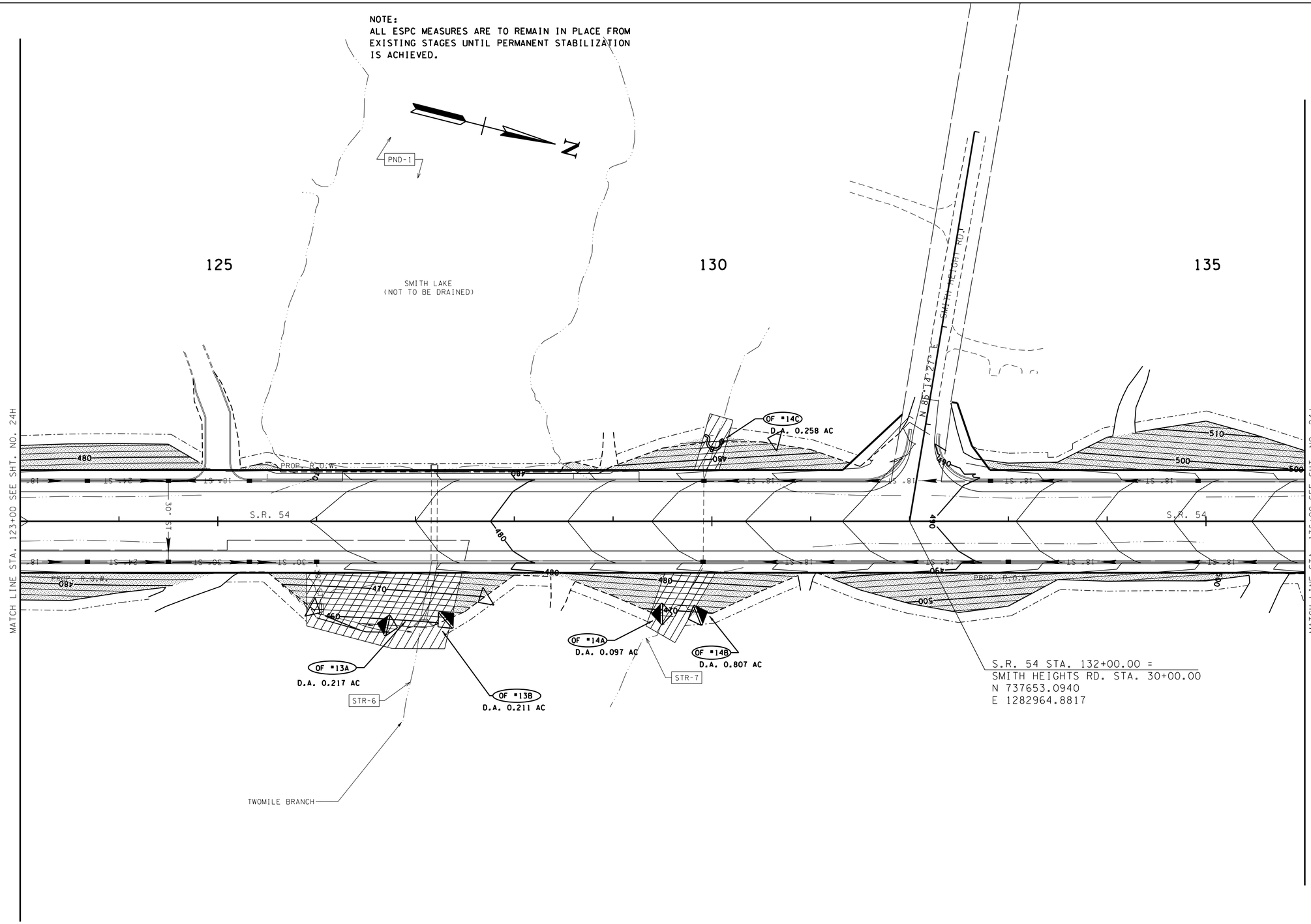
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	241

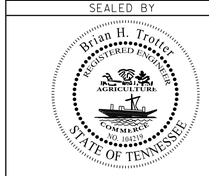
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 123+00 TO STA. 136+00
SCALE: 1"= 50'

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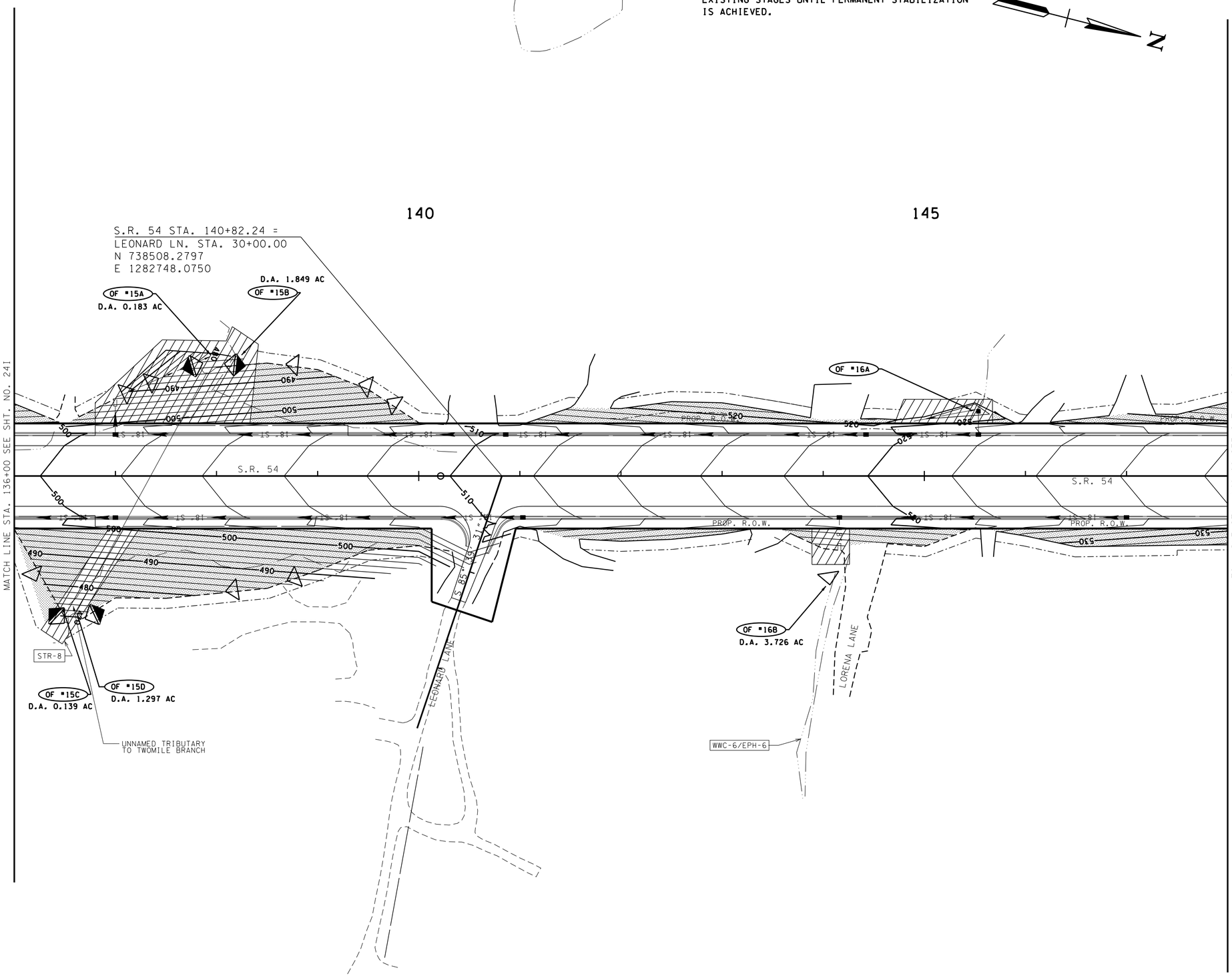
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24J

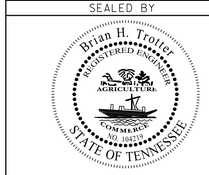
NOTE:
ALL ESPC MEASURES ARE TO REMAIN IN PLACE FROM EXISTING STAGES UNTIL PERMANENT STABILIZATION IS ACHIEVED.



STAGE 4 - FINAL STABILIZATION

CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 136+00 TO STA. 148+00
SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	24K

NOTE:
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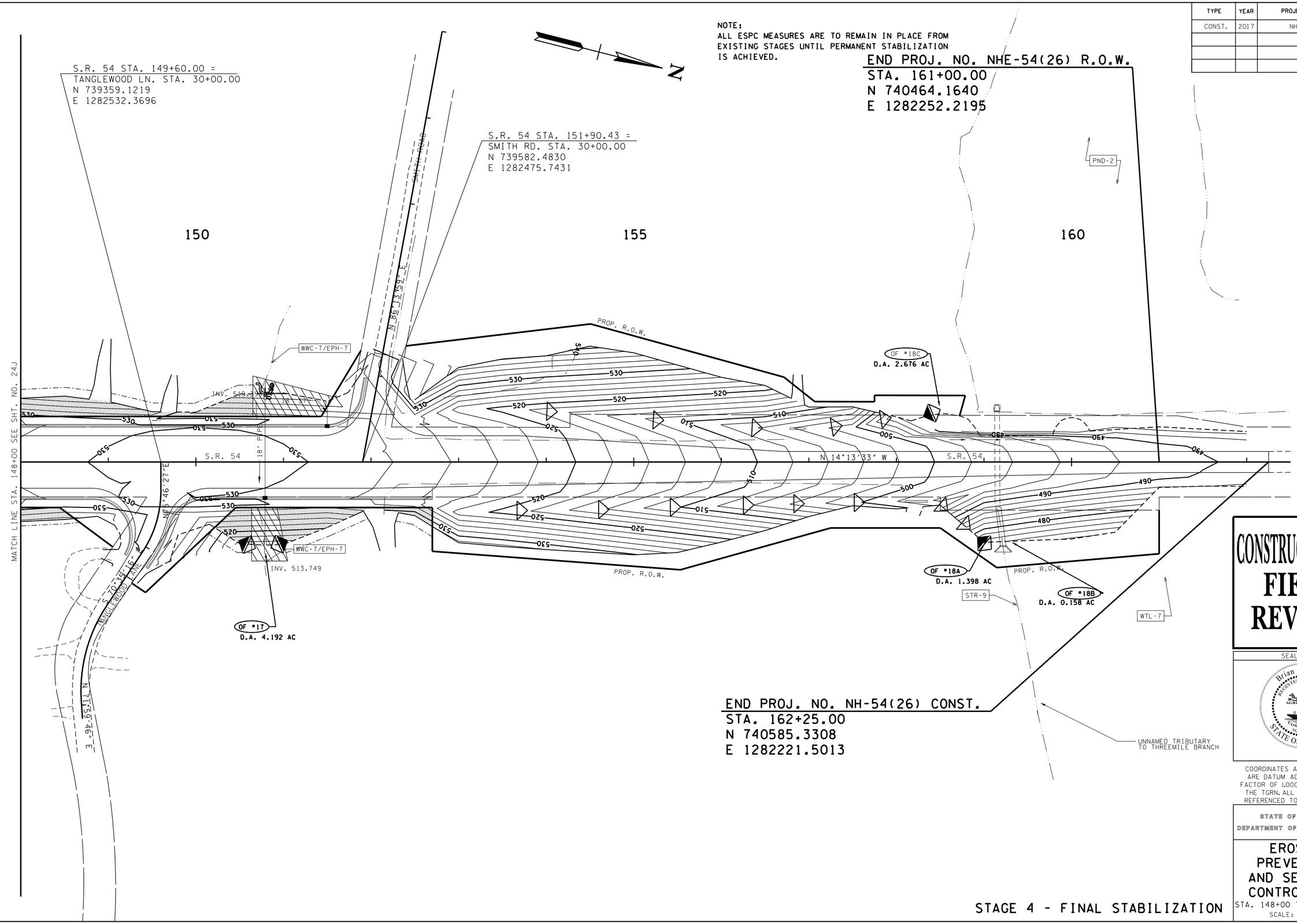

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102611
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 148+00 TO END PROJECT

SCALE: 1"= 50'

STAGE 4 - FINAL STABILIZATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	25

TRAFFIC CONTROL NOTES AND STAGING

GENERAL NOTES

STAGING GUIDELINES

- THE CONSTRUCTION SIGNING PLAN IS TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS STAGES OF CONSTRUCTION.
- THE TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- PORTABLE SIGNS MAY BE USED AT SOME LOCATIONS WITH THE ENGINEER'S APPROVAL. THE CONTRACTOR SHALL REFER TO SECTION 6 OF THE MUTCD REGARDING PORTABLE SIGNS.
- PRIOR TO COMMENCEMENT OF ANY WORK, ALL NECESSARY ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE ERECTED AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH THE MUTCD AND TDOT STANDARD DRAWINGS.
- DURING CONSTRUCTION PHASING NO CONSTRUCTION SIGN OR PERMANENT SIGN SHALL BE LEFT UNCOVERED OR IN PLACE WHICH MAY GIVE CONFLICTING DIRECTION OR INFORMATION TO MOTORISTS.
- ANY AND ALL NECESSARY EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLANS AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, TDOT DRAINAGE MANUAL CHAPTER 10 AND ANY PERMIT REQUIREMENTS MUST BE IN PLACE AND PROPERLY MAINTAINED AND INSPECTED AT ALL TIMES.
- ACCESS TO PROPERTIES MUST BE MAINTAINED AT ALL TIMES.

STAGING FOR SR 54

STAGE 1

- MAINTAIN TRAFFIC ON EXISTING LANES.
- INSTALL TRAFFIC CONTROL DEVICES.
- CONSTRUCT THE PROPOSED ROADWAY AND SHOULDER ON THE WEST SIDE THROUGH THE CROSSOVER NEAR STA. 43+50, AND ON THE EAST SIDE AFTER, AS INDICATED IN THE TRAFFIC CONTROL PLANS.
- CONSTRUCT TEMPORARY WIDENING FROM STA. 28+75 TO STA 30+10, AND FROM STA. 52+00 TO STA 56+00 AS SHOWN IN THE TYPICAL SECTION ON SHEET __ AND IN THE ROADWAY CROSS SECTIONS.
- CONDUCT PAVING THROUGH THE B-M2 LAYER AND MARK LANES WITH PAINTED MARKINGS.

STAGE 2

- SHIFT TRAFFIC TO THE WIDENING AND CONSTRUCTION PLACED IN STAGE 1.
- CONSTRUCT THE PROPOSED ROADWAY AND SHOULDER ON THE EAST SIDE THROUGH THE CROSSOVER NEAR STA. 43+50, AND ON THE WEST SIDE AFTER, AS INDICATED IN THE TRAFFIC CONTROL PLANS.
- CONDUCT PAVING THROUGH THE B-M2 LAYER AND MARK LANES WITH PAINTED MARKINGS.

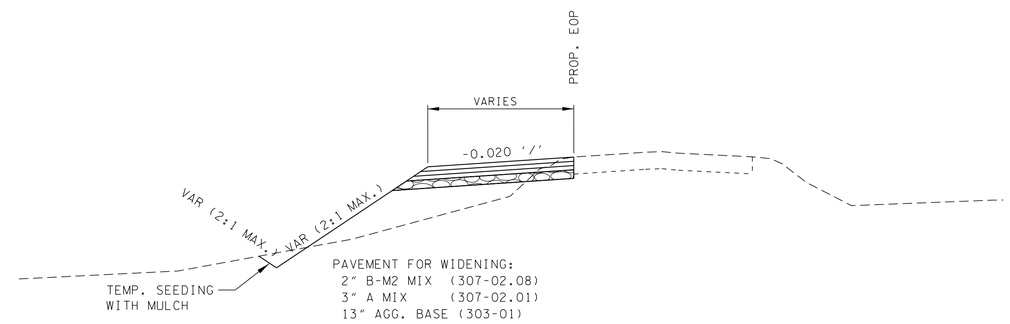
STAGE 2A

- SHIFT TRAFFIC TO THE NEW LANES.
- COMPLETE CONSTRUCTION OF THE REMAINING LANES AND SHOULDERS AT THE TWO AREAS THAT WERE TEMPORARILY WIDENED, STA. 28+75 TO STA 30+10, AND FROM STA. 52+00 TO STA 56+00.

STAGE 3

- FINAL PAVING AND MARKING OPERATIONS WILL BE COMPLETED UNDER TRAFFIC USING TEMPORARY LANE CLOSURES AND FLAGGING OPERATIONS AS APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)



SR 54 - STAGE 1 TEMPORARY WIDENING

STA. 28+75.00 TO STA. 30+10.00
STA. 52+00.00 TO STA. 56+00.00

CONSTRUCTION SIGNS

	DESCRIPTION	STAGE 1	STAGE 2	STAGE 3	NO. REQ'D.	SIZE	SIGN I.D. NO.	QTY.	UNIT
	ROAD WORK NEXT XX MILE(S)	2	2	2	2	64 X 24	G20-1	21	S.F.
	END ROAD WORK	18	18	18	18	48 X 24	G20-2	144	S.F.
	STOP	7	7		14	30 X 30	R1-1	87.5	S.F.
	ROAD CLOSED	14	14		28	48 X 30	R11-2	280	S.F.
	REVERSE CURVE - LEFT		2		2	48 X 48	W1-4L	32	S.F.
	REVERSE CURVE - RIGHT		4		4	48 X 48	W1-4R	64	S.F.
	ROAD WORK XX FT (MILE)	7	7	7	7	48 X 48	W20-1	112	S.F.
	ROAD WORK AHEAD	16	16	16	16	36 X 36	W20-1	144	S.F.
(1)	FLAGGER SYMBOL	2	2	2	2	36 X 36	W20-7	18	S.F.
(1)	FLAGGER AHEAD	2	2	2	2	36 X 36	W20-7A	18	S.F.
(1)	SHOULDER DROP OFF	2	2		2	48 X 48	W8-17	32	S.F.
(1)	SHOULDER DROP-OFF	2	2		2	30 X 24	W8-17A	10	S.F.
	ITEM 712-06 SIGNS (CONSTRUCTION)							**962.8**	**S.F.**

(1) TO BE USED WHERE AND AS APPROVED BY THE ENGINEER

ITEMIZED TRAFFIC CONTROL DEVICES

			STAGE 1	STAGE 2	STAGE 3	TOTAL NO. REQ'D	UNITS
	621-05.02	TEMPORARY SHORING				1	L.S.
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	2	3		5	EACH
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	800	1160		1960	L.F.
	712-04.01	FLEXIBLE DRUMS(CHANNELIZING)	611	688		688	EACH
	712-06	SIGNS (CONSTRUCTION)				963	S.F.
	712-06.01	VERTICAL PANELS	80	116		196	S.F.
	712-07.03	TEMPORARY BARRICADES (TYPE III)	280	245		280	L.F.
(1)	712-08.03	ARROW BOARD (TYPE C)				2	EACH
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	1488			1488	L.F.
(1)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT				2	EACH
	716-01.21	Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)			413	413	EACH
	716-01.22	Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color)			333	333	EACH
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)			11	11	S.Y.
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)			385	385	L.F.
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)			30	30	EACH
	716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)			0.08	0.08	L.M.
	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)			2	2	EACH
	716-03.02	PLASTIC WORD PAVEMENT MARKING (RXR)			2	2	EACH
	716-04.11	PLASTIC PAVEMENT MARKING (BICYCLE SYMBOL W/RIDER)			22	22	EACH
	716-04.13	PLASTIC PAVEMENT MARKING (BIKELANE SYMBOL & ARROW)			22	22	EACH
	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)			2	2	EACH
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	0.65	11.20		11.85	L.M.
	716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	0.91	0.79		1.70	L.M.
	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)			1.13	1.13	L.M.
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)			13.46	13.46	L.M.

(1) TO BE USED WHERE AND AS DIRECTED BY THE ENGINEER

CONSTRUCTABILITY FIELD REVIEW

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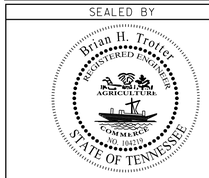

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24
CONST.	2017	NH-54(26)	25A

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:

a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

CONSTRUCTABILITY FIELD REVIEW

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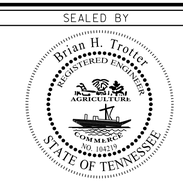

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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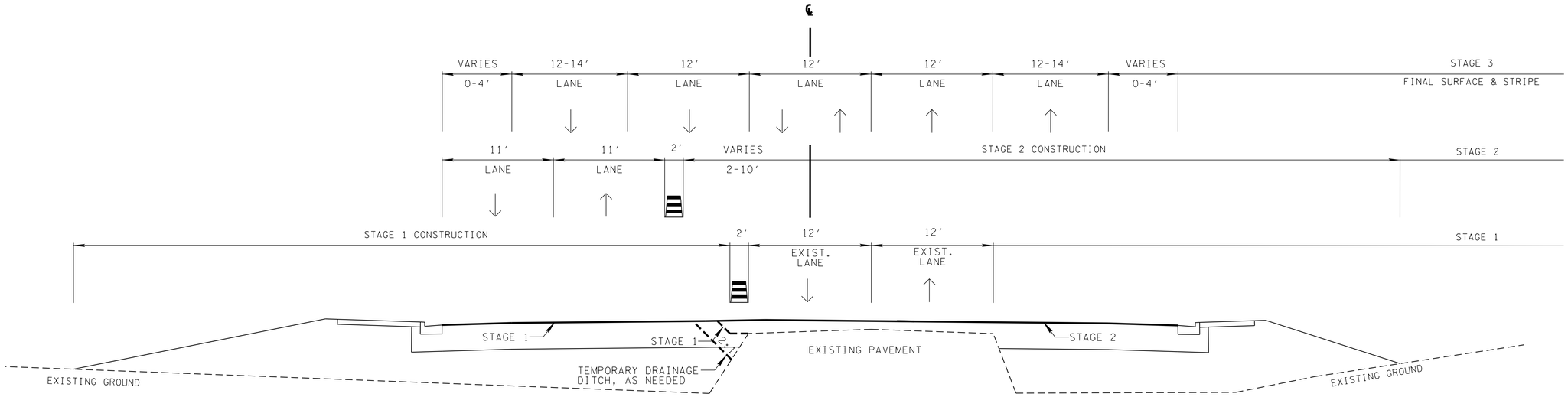
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24A
CONST.	2017	NH-54(26)	25B



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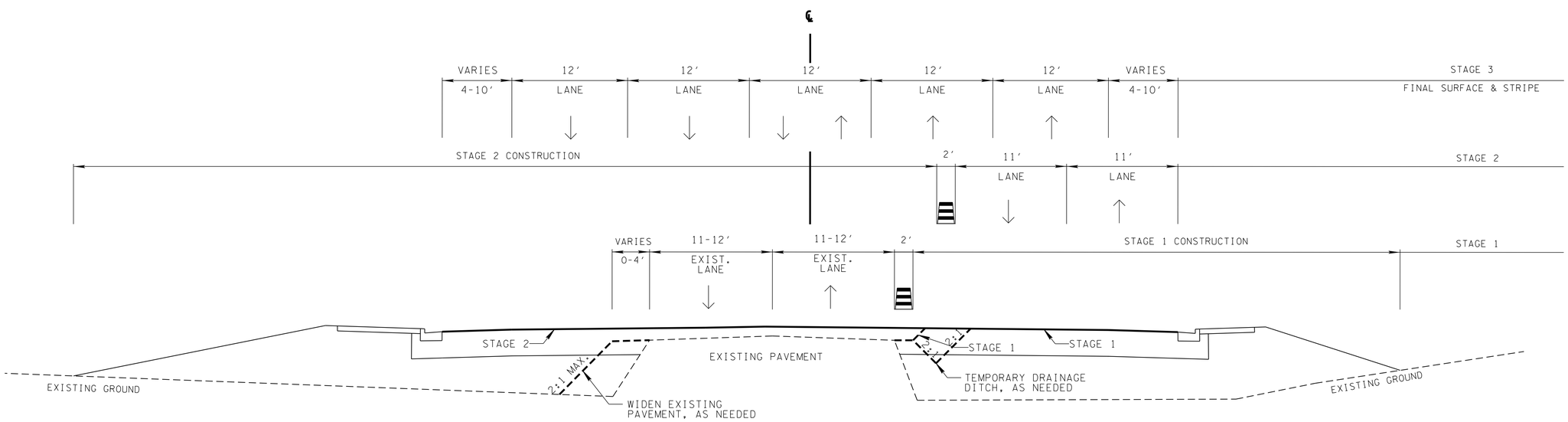

STA. 43+50 TO STA. 162+25

CONSTRUCTABILITY FIELD REVIEW

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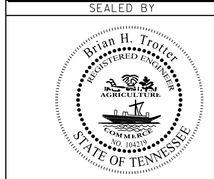

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
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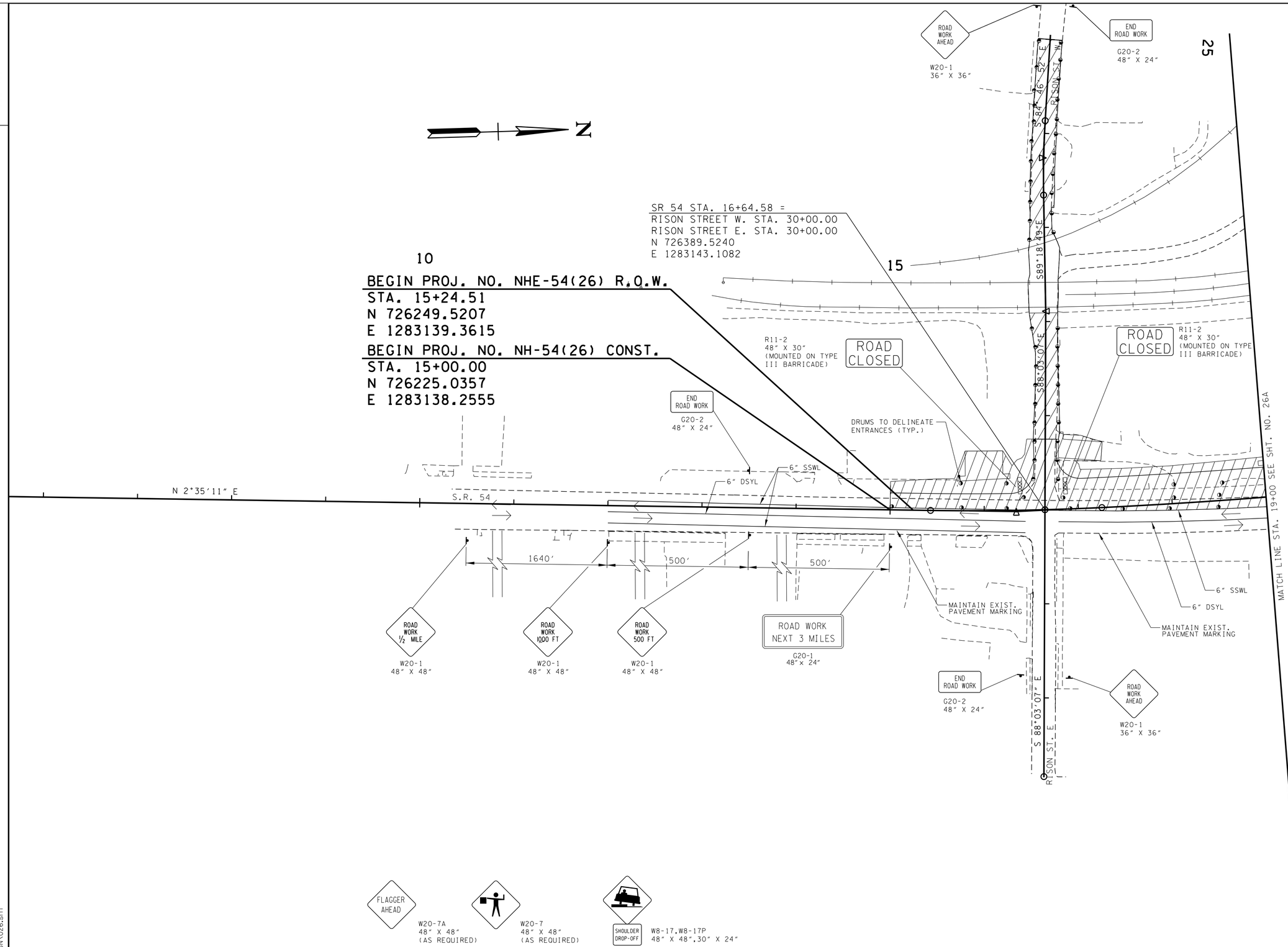
CONST.	2017	NH-54(26)	26



CONSTRUCTABILITY FIELD REVIEW

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Brian H. Trotter
REGISTERED ENGINEER
No. 108375
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

BEGIN PROJECT TO STA.19+00

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
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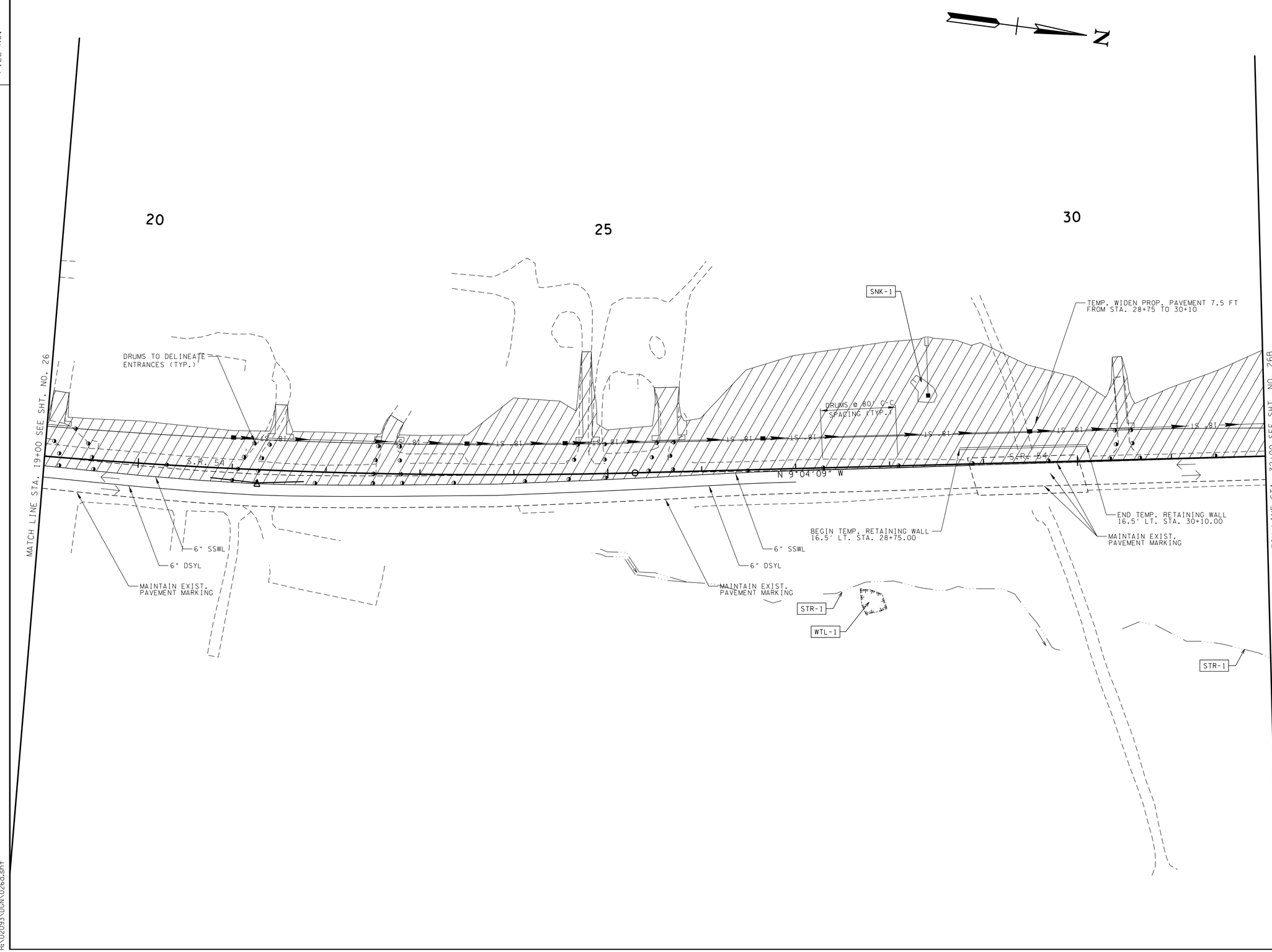
CONST.	2017	NH-54(26)	26A



CONSTRUCTABILITY FIELD REVIEW

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Brian H. Troter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 19+00 TO STA. 32+00

SCALE: 1"= 50'

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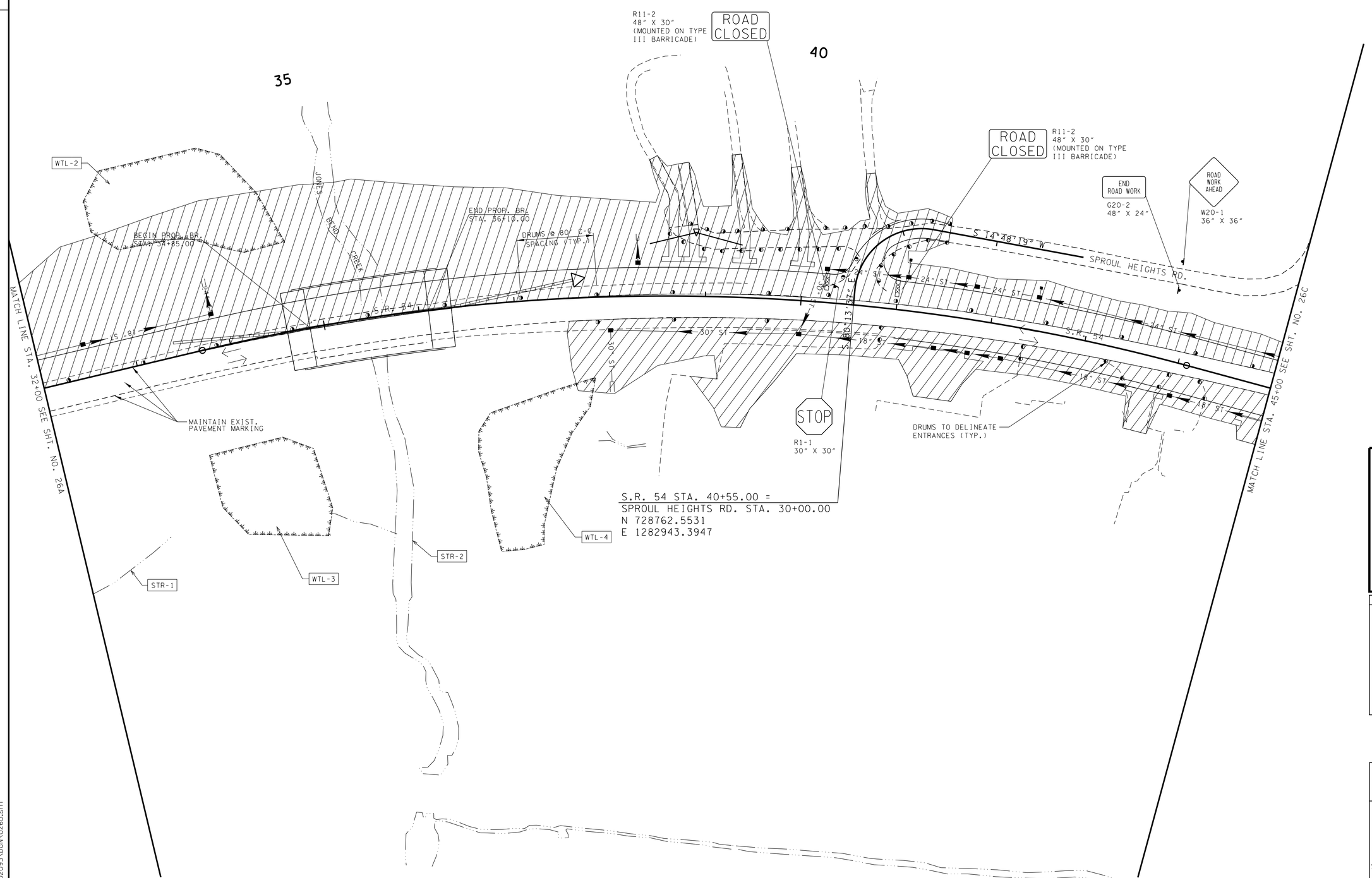
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24D
CONST.	2017	NH-54(26)	26B



CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 32+00 TO STA. 45+00

SCALE: 1"= 50'

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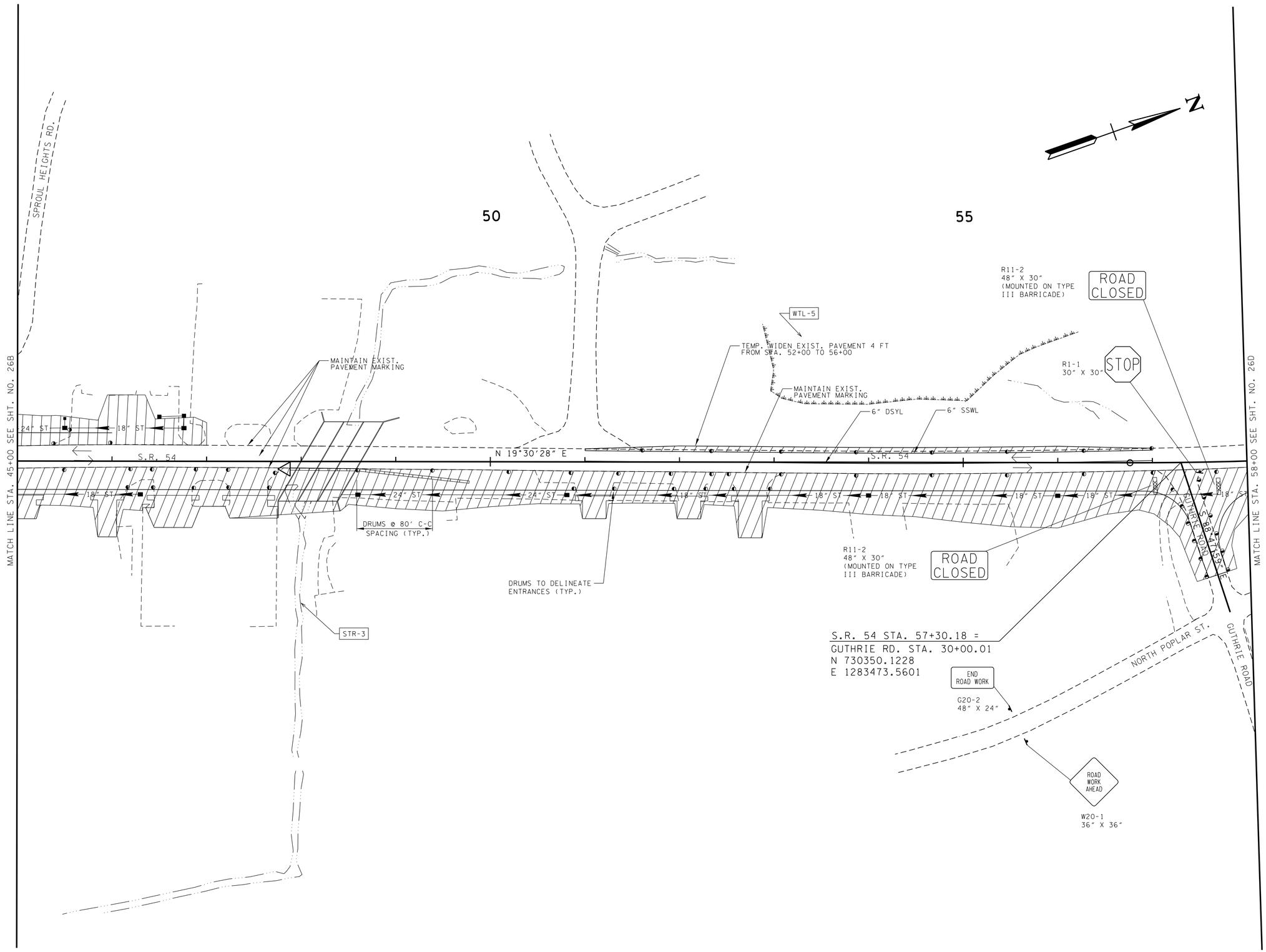
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24E
CONST.	2017	NH-54(26)	26C



CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 45+00 TO STA. 58+00

SCALE: 1"= 50'

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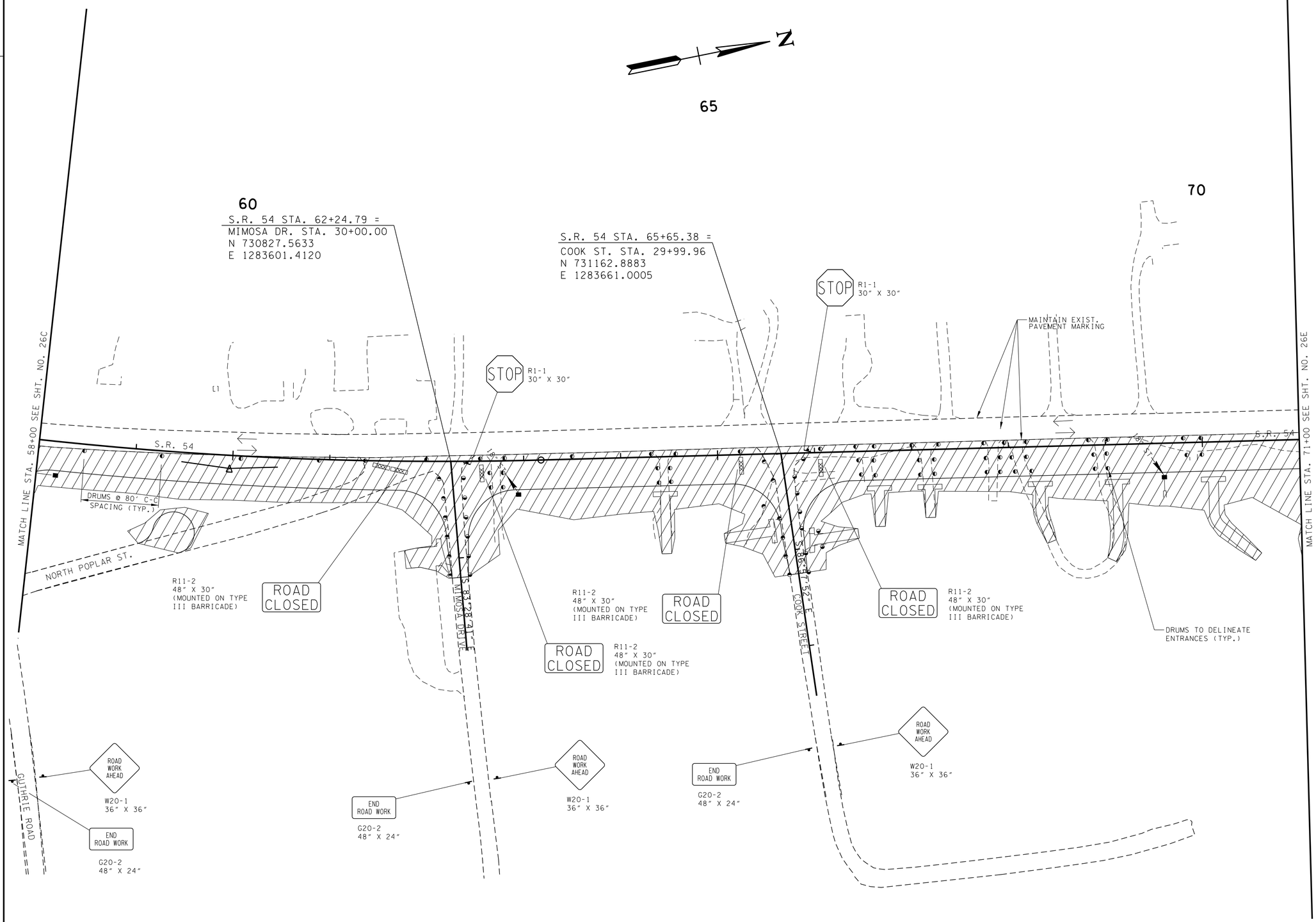
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24F
CONST.	2017	NH-54(26)	26D



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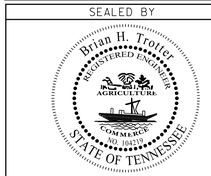

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 58+00 TO STA. 71+00

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
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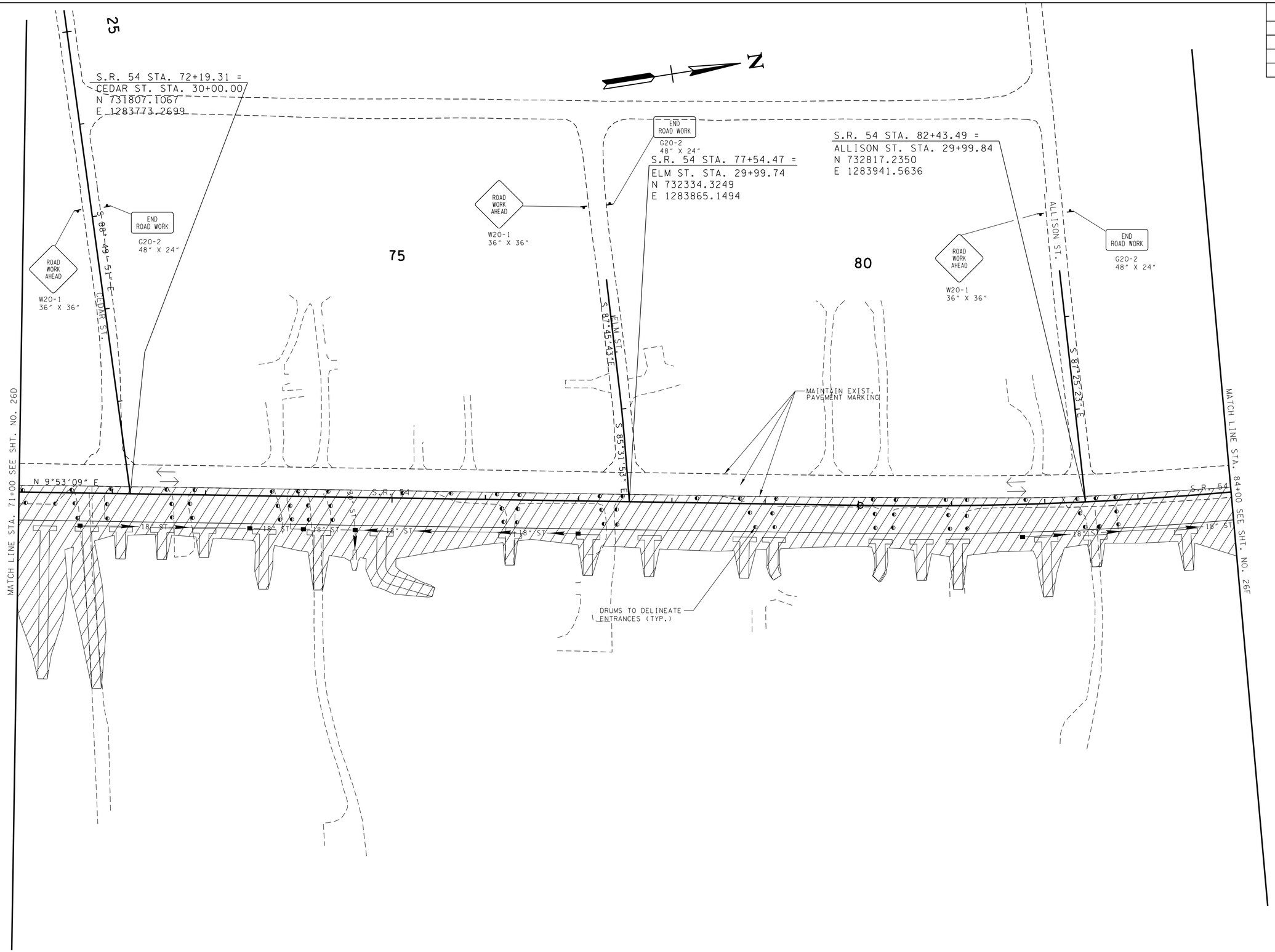
CONST.	2017	NH-54(26)	26E



CONSTRUCTABILITY FIELD REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 71+00 TO STA. 84+00

SCALE: 1"= 50'

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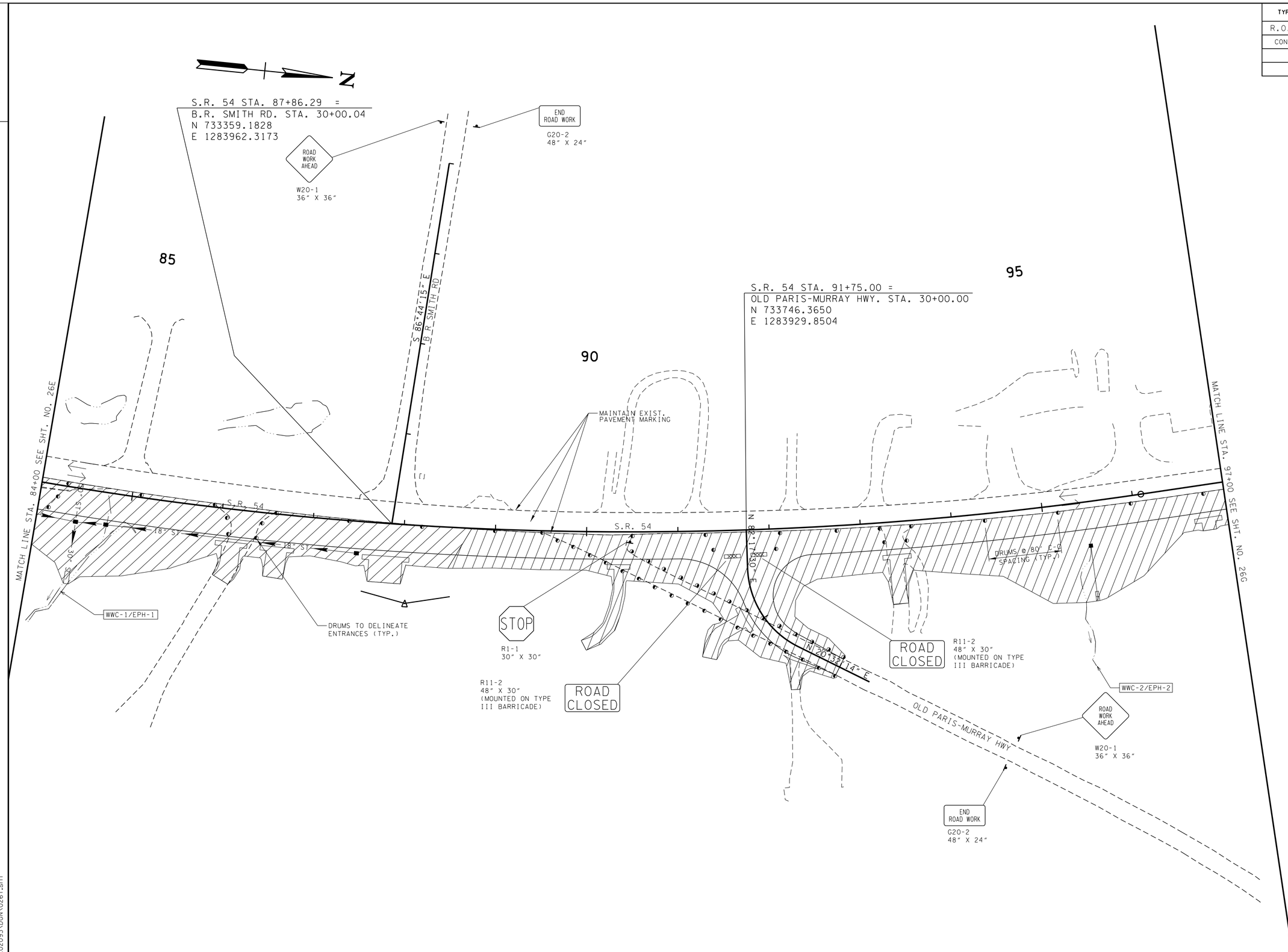
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24H
CONST.	2017	NH-54(26)	26F



CONSTRUCTABILITY FIELD REVIEW

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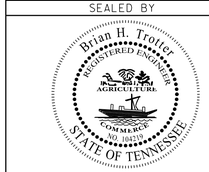

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 84+00 TO STA. 97+00

SCALE: 1"= 50'

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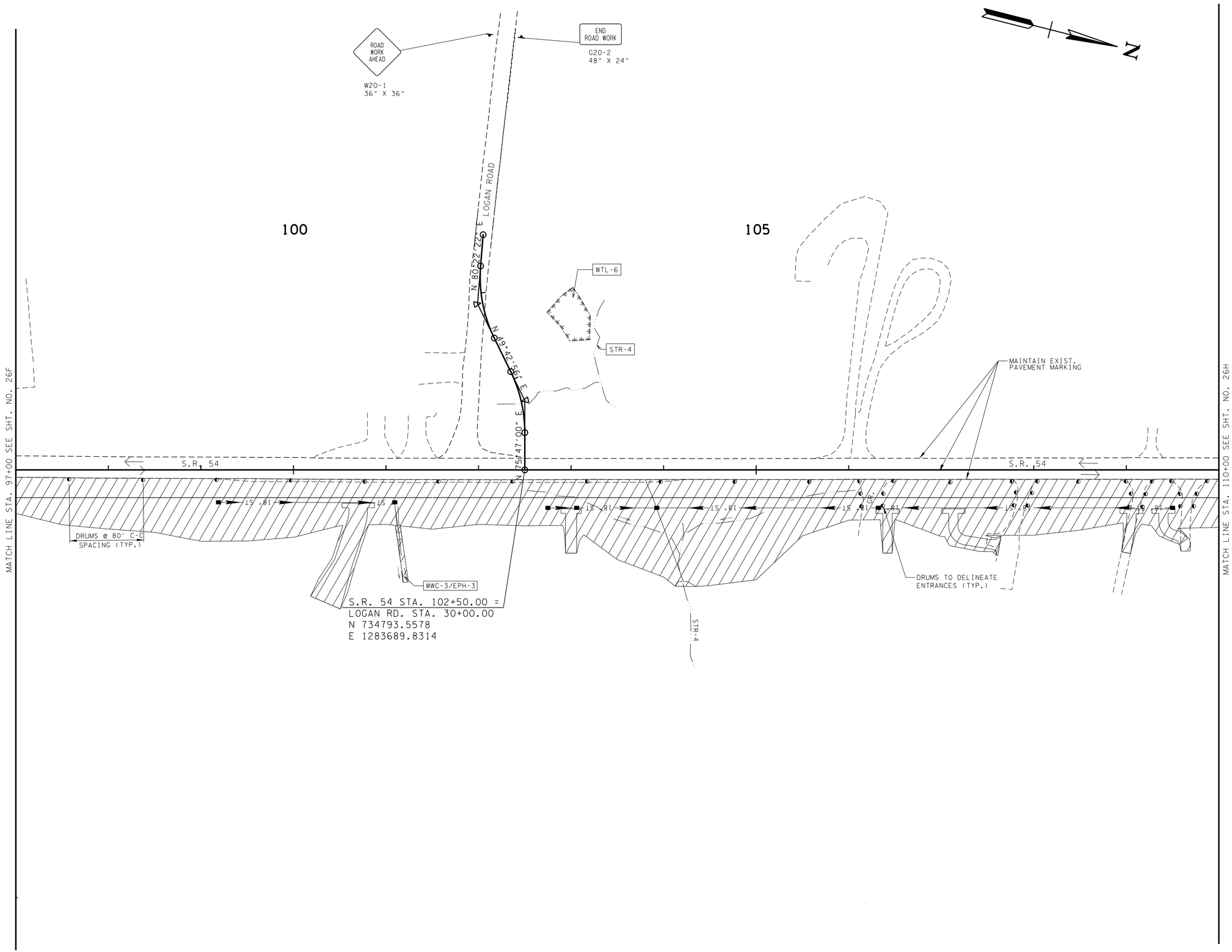
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24I
CONST.	2017	NH-54(26)	26G



CONSTRUCTABILITY FIELD REVIEW

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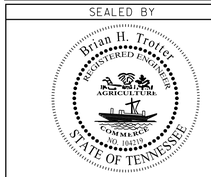

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 97+00 TO STA. 110+00

SCALE: 1"= 50'

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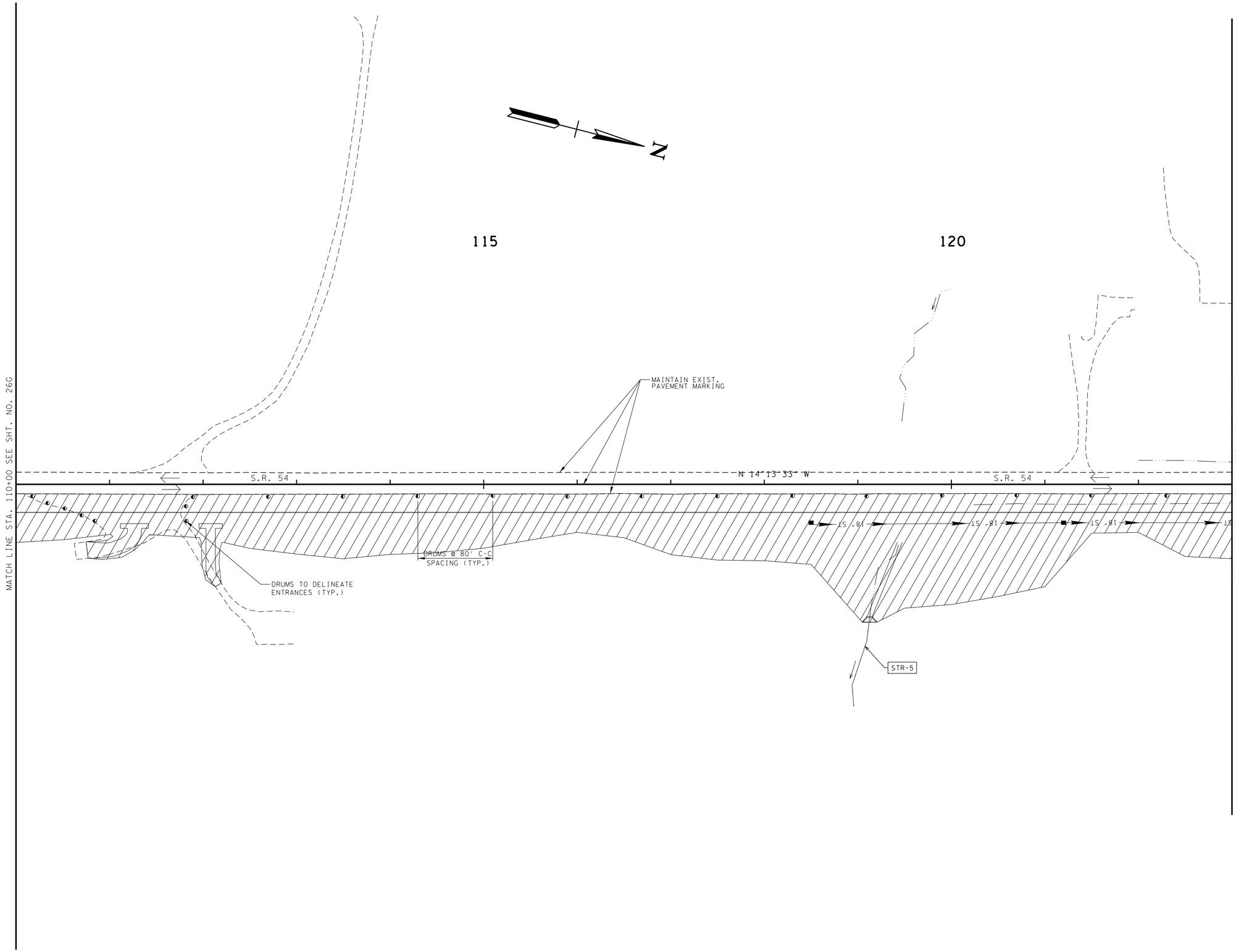
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24J
CONST.	2017	NH-54(26)	26H



CONSTRUCTABILITY FIELD REVIEW

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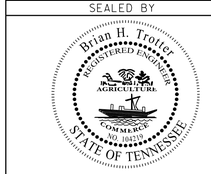

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 110+00 TO STA. 123+00

SCALE: 1"= 50'

7/25/2016 3:08:08 PM
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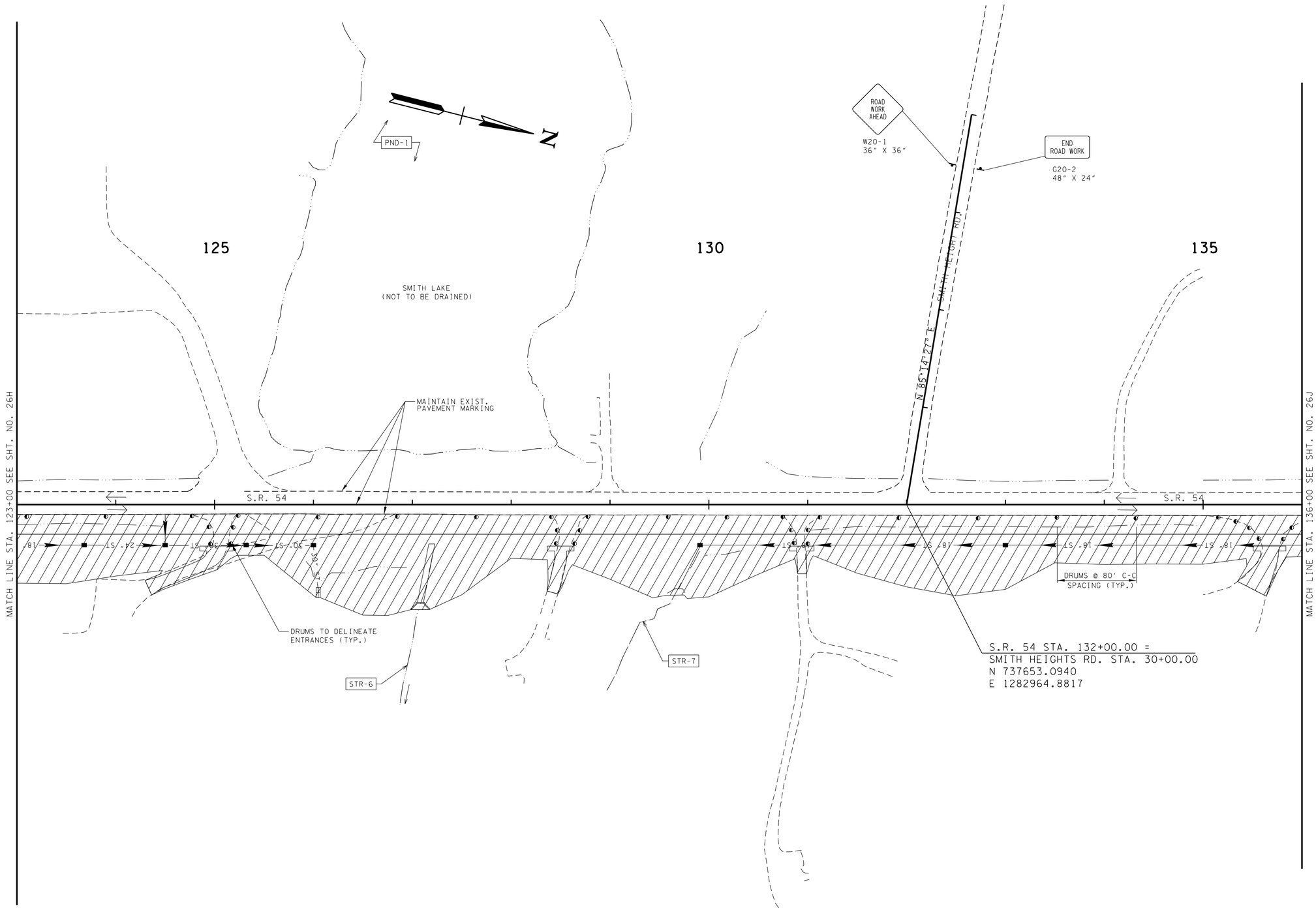
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24K
CONST.	2017	NH-54(26)	26I



CONSTRUCTABILITY FIELD REVIEW

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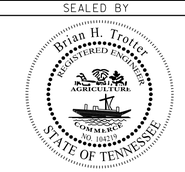

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 123+00 TO STA. 136+00

SCALE: 1"= 50'

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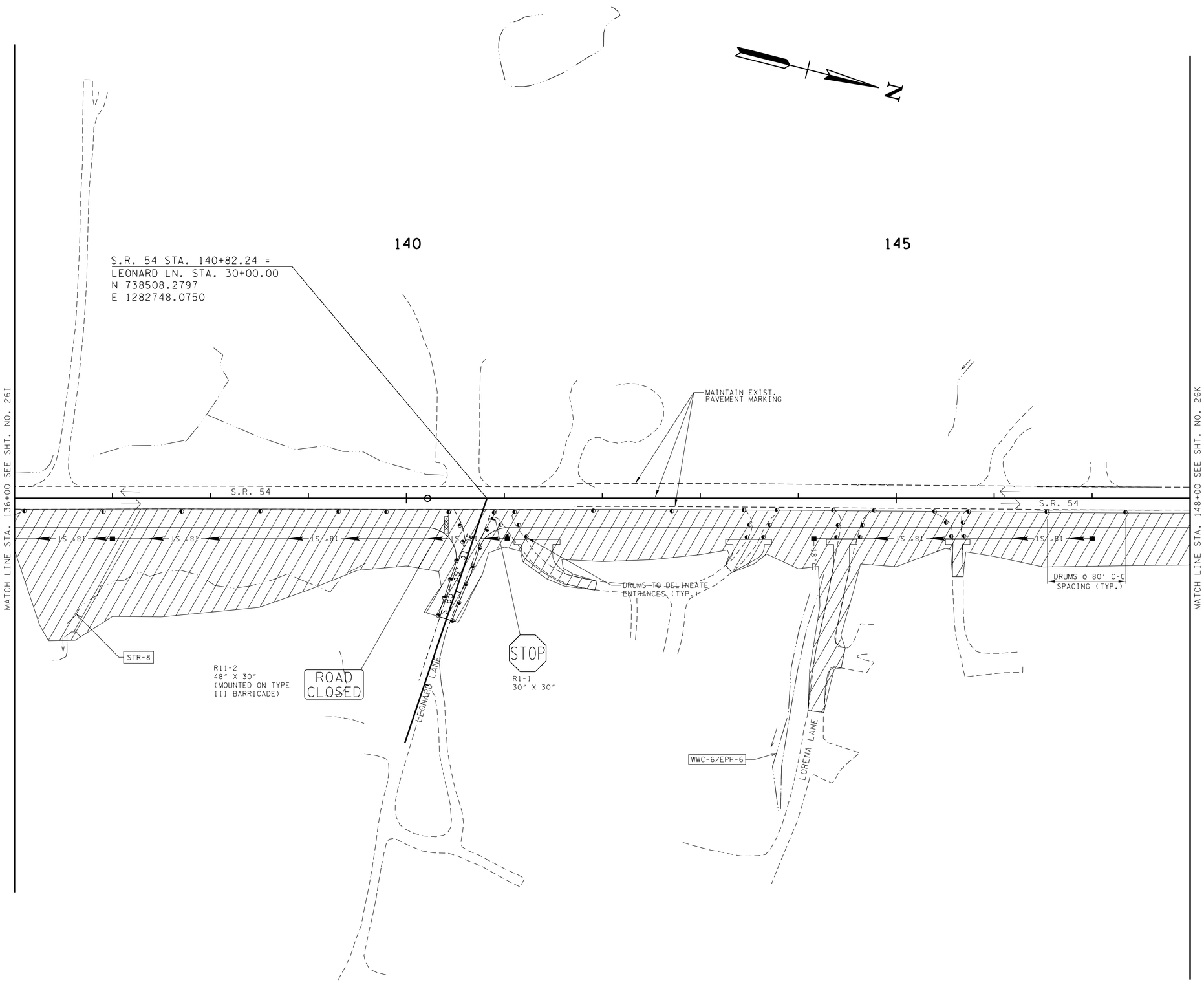
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24L
CONST.	2017	NH-54(26)	26J



CONSTRUCTABILITY FIELD REVIEW

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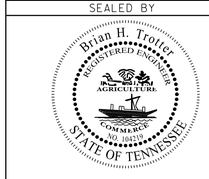

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 136+00 TO STA. 148+00

SCALE: 1"= 50'

8/1/2016 12:54:59 PM
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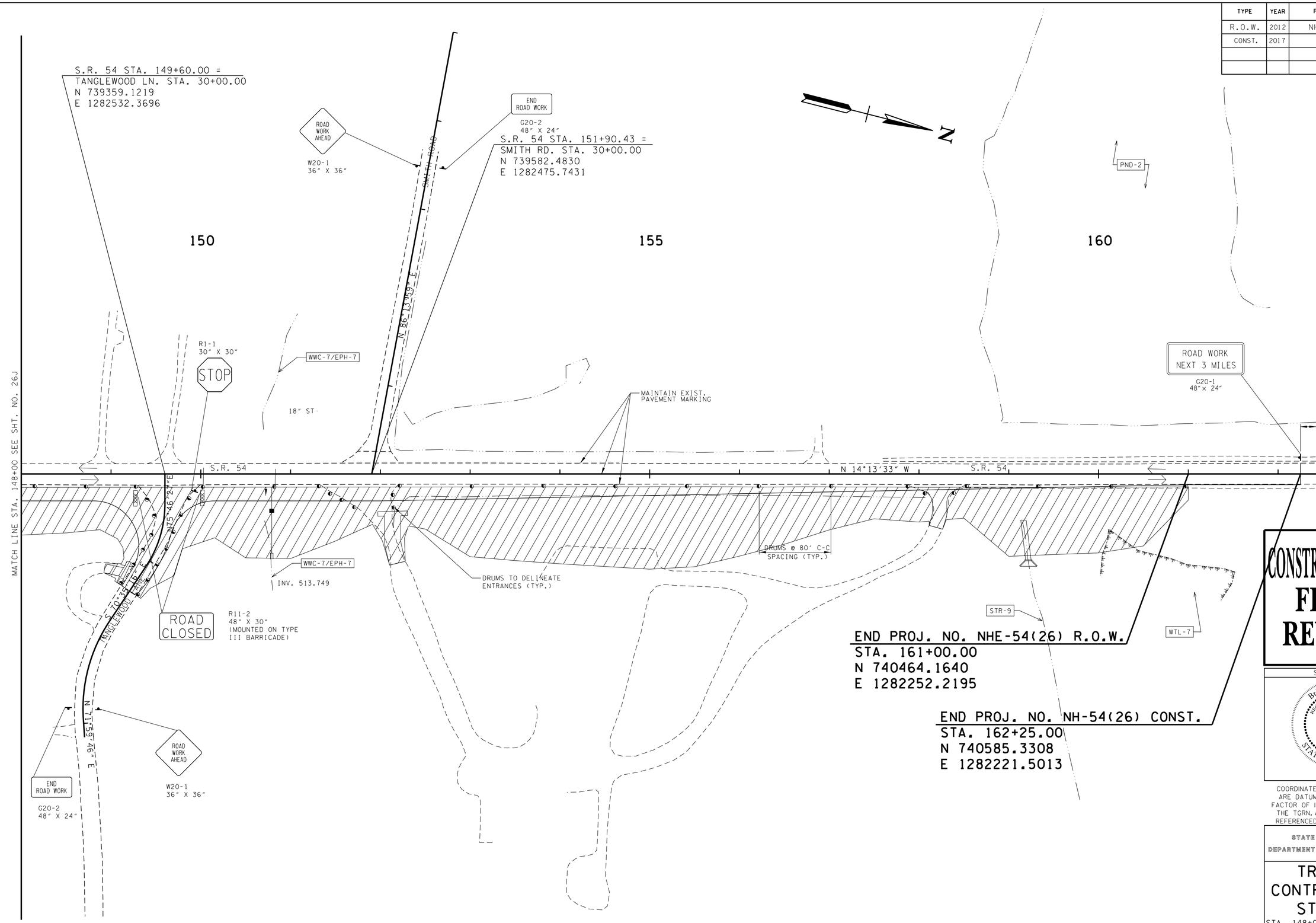
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24M
CONST.	2017	NH-54(26)	26K



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 148+00 TO STA. 162+50

SCALE: 1"= 50'

7/25/2016 3:08:09 PM
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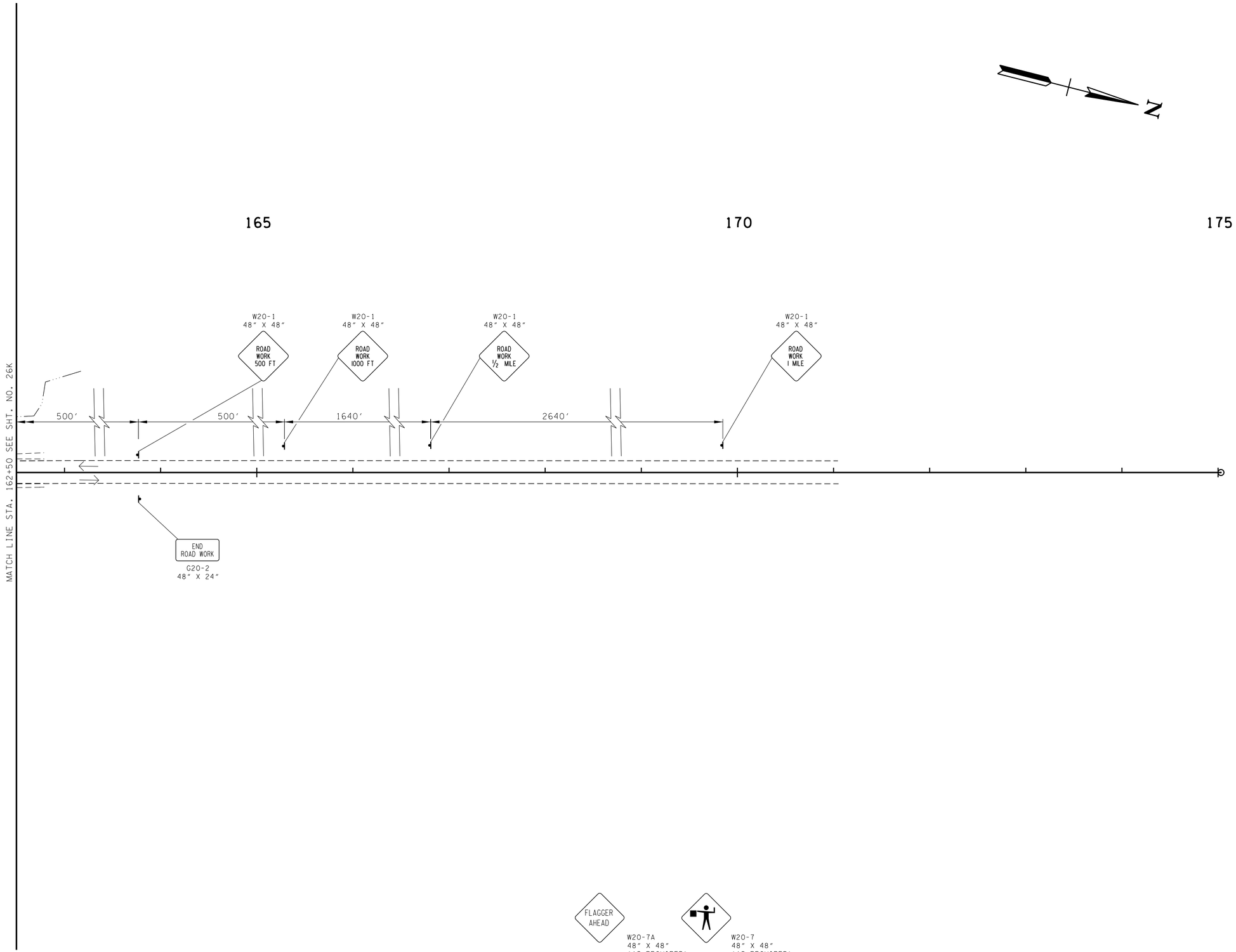
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24N
CONST.	2017	NH-54(26)	26L



CONSTRUCTABILITY FIELD REVIEW

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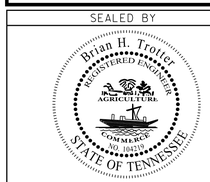

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 1

STA. 162+50 TO END PROJECT

SCALE: 1"= 50'

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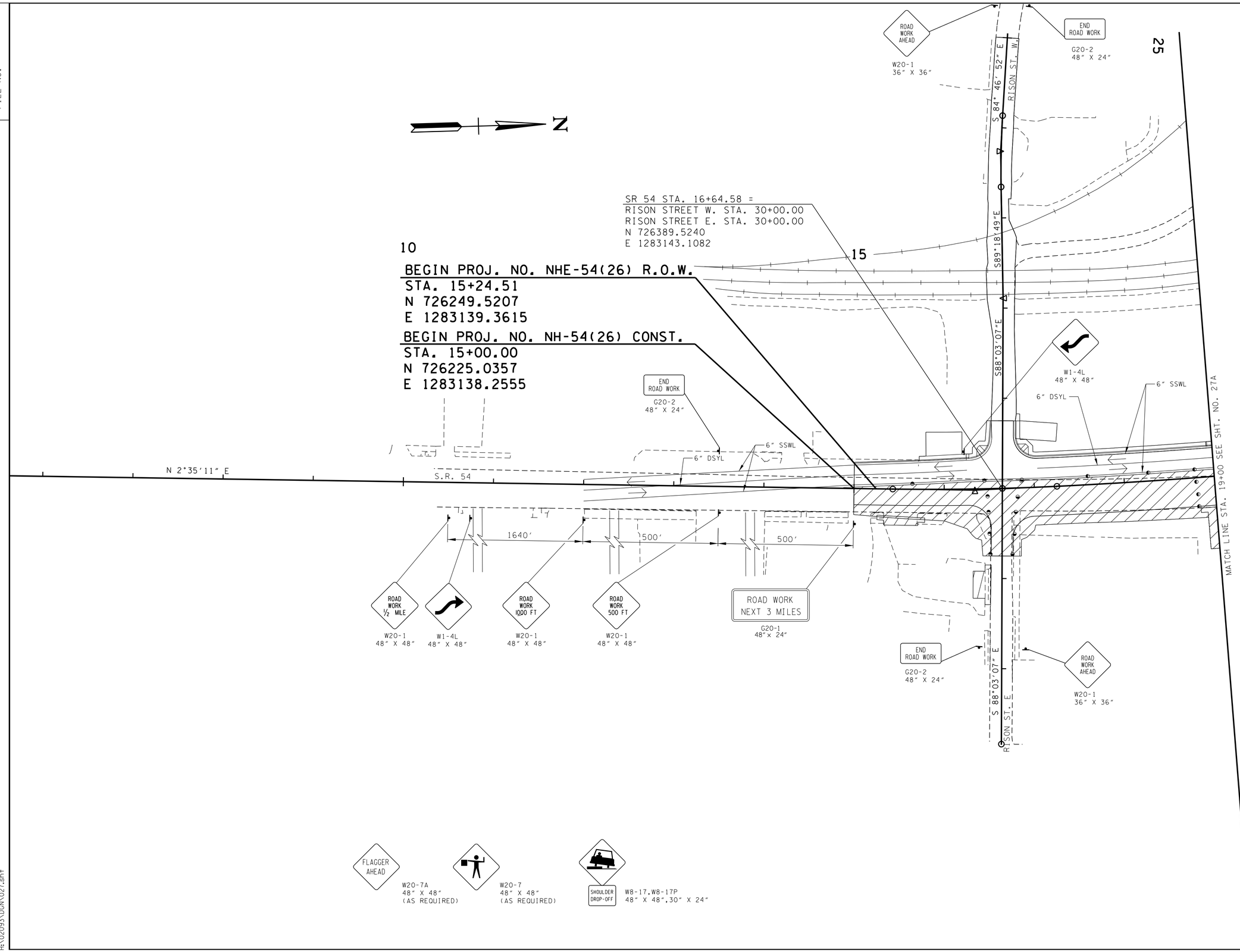
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	240
CONST.	2017	NH-54(26)	27



CONSTRUCTABILITY FIELD REVIEW

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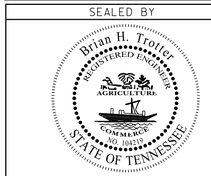

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

BEGIN PROJECT TO STA.19+00

SCALE: 1"= 50'

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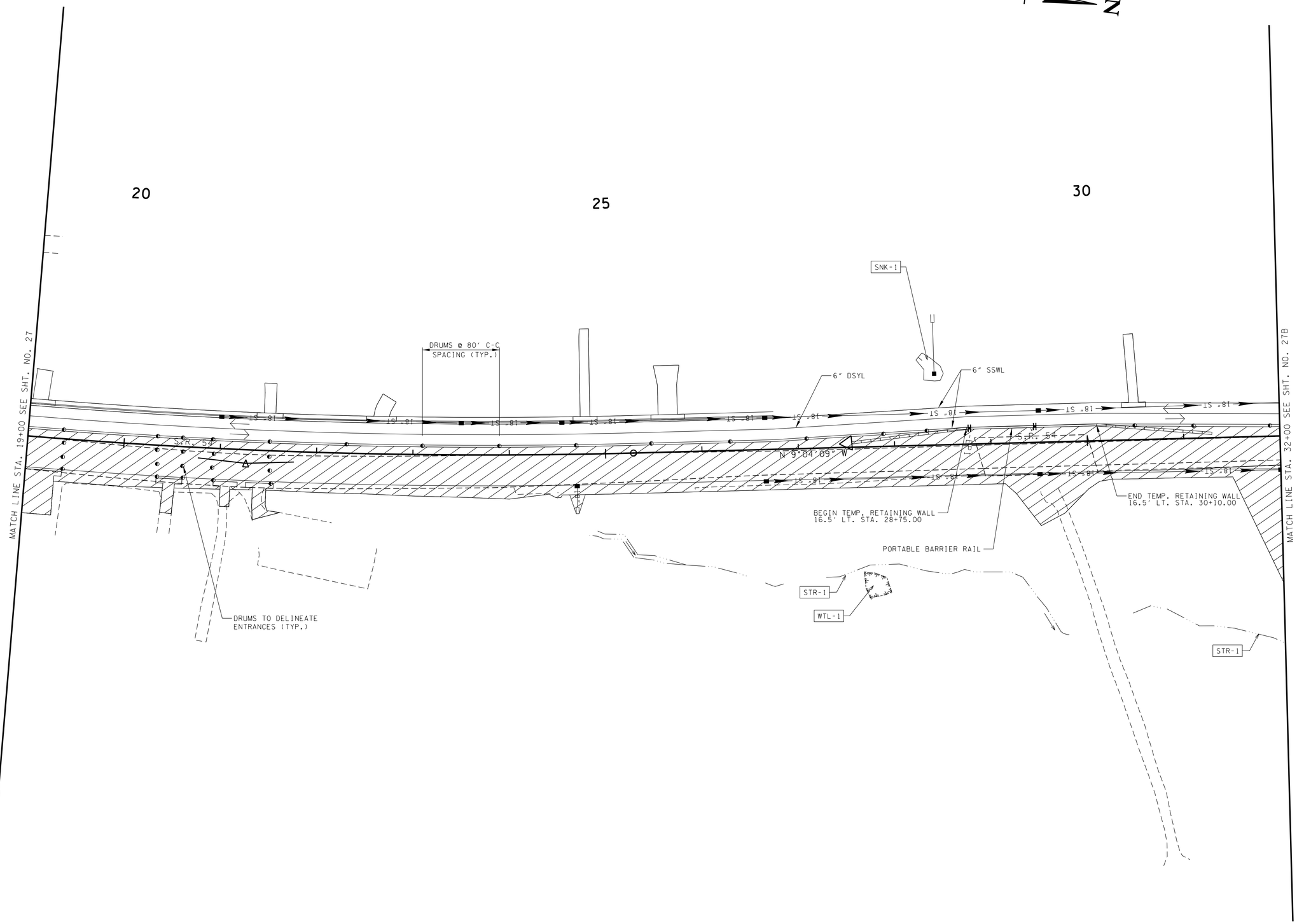
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24P
CONST.	2017	NH-54(26)	27A



CONSTRUCTABILITY FIELD REVIEW

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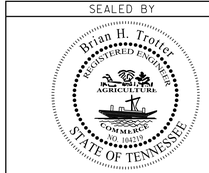

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 19+00 TO STA. 32+00

SCALE: 1"= 50'

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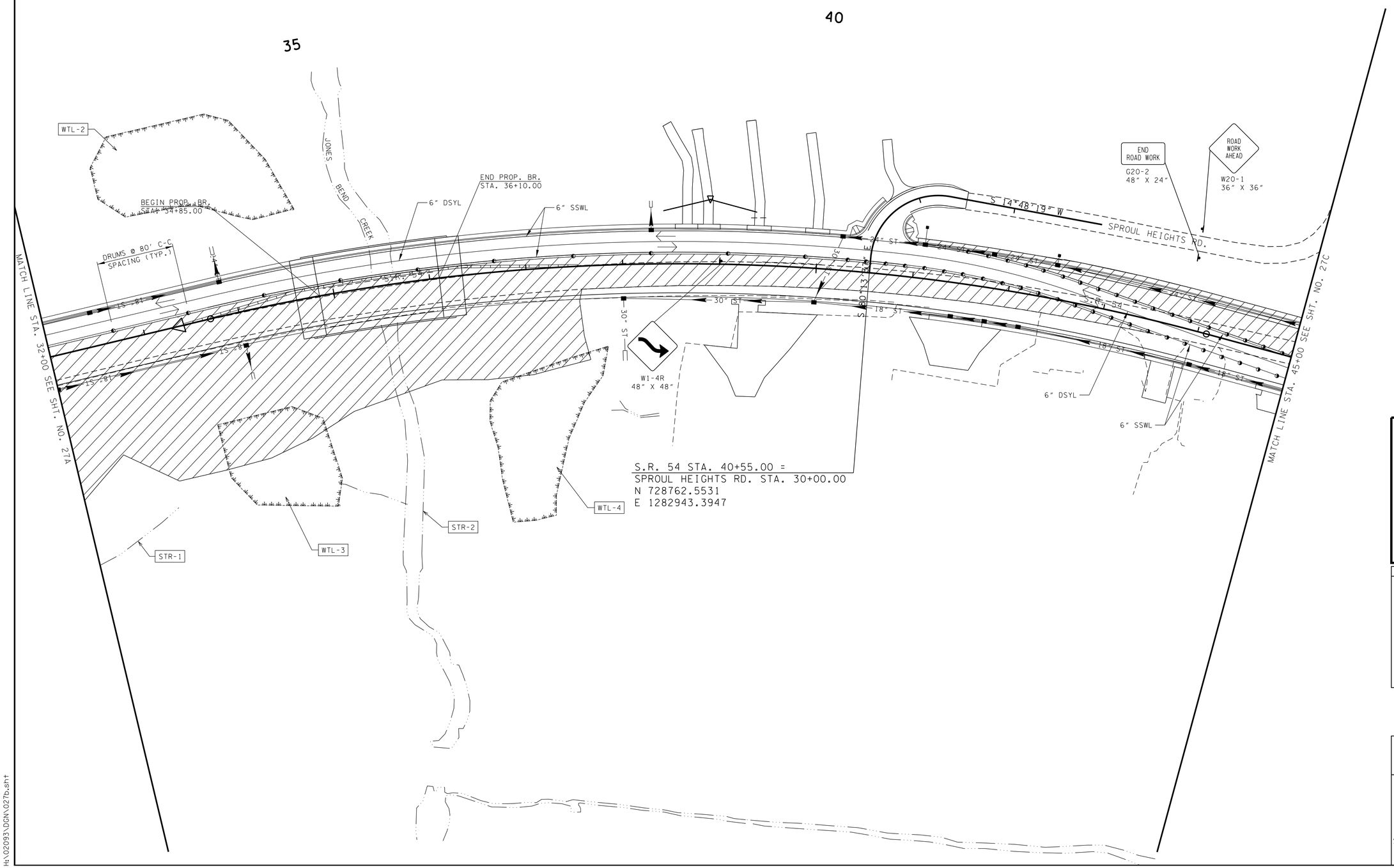
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24Q
CONST.	2017	NH-54(26)	27B



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102321
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 32+00 TO STA. 45+00

SCALE: 1"= 50'

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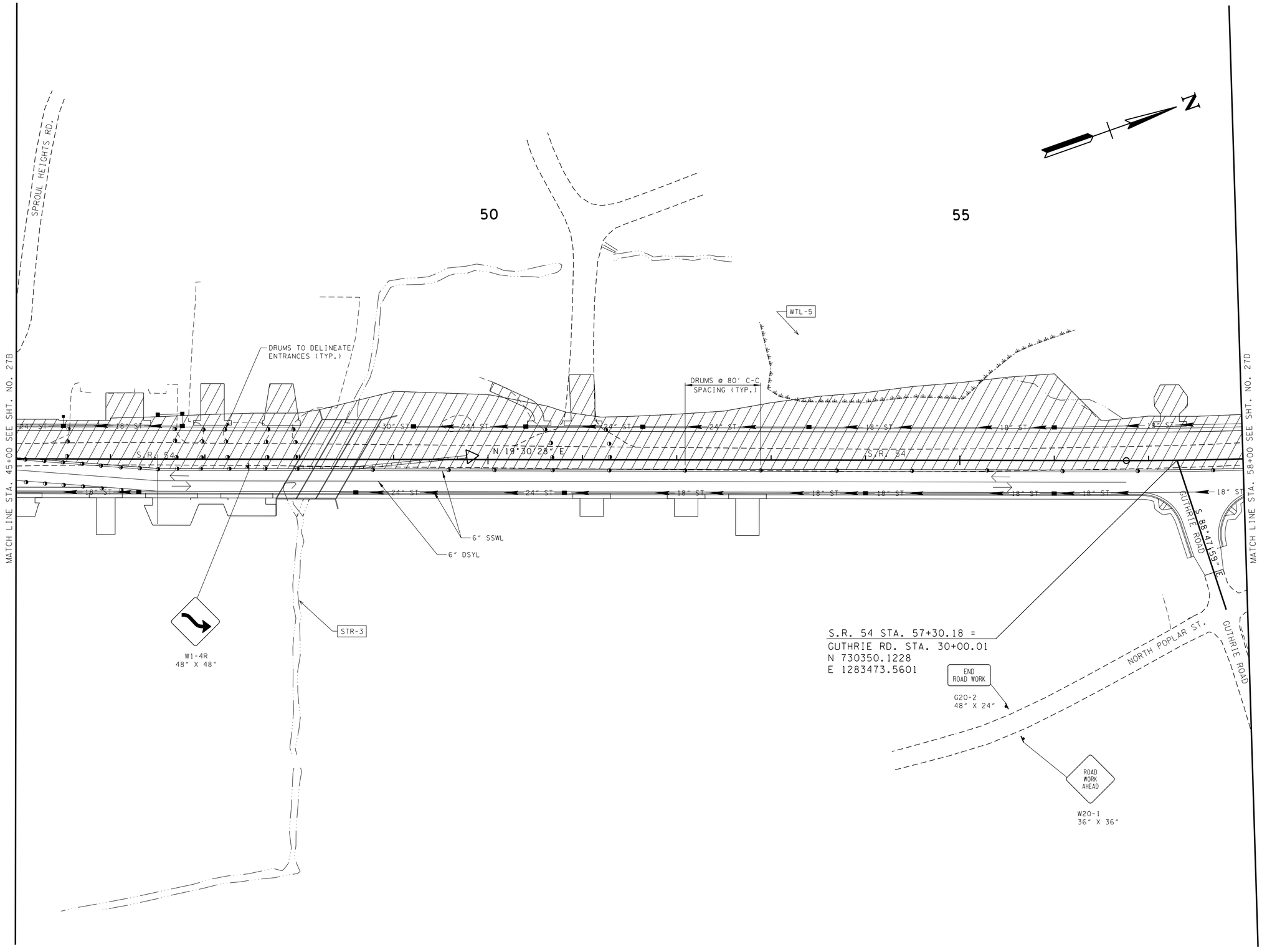
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24R
CONST.	2017	NH-54(26)	27C



CONSTRUCTABILITY FIELD REVIEW

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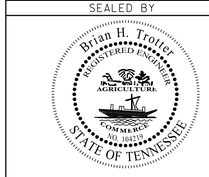

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 45+00 TO STA. 58+00

SCALE: 1"= 50'

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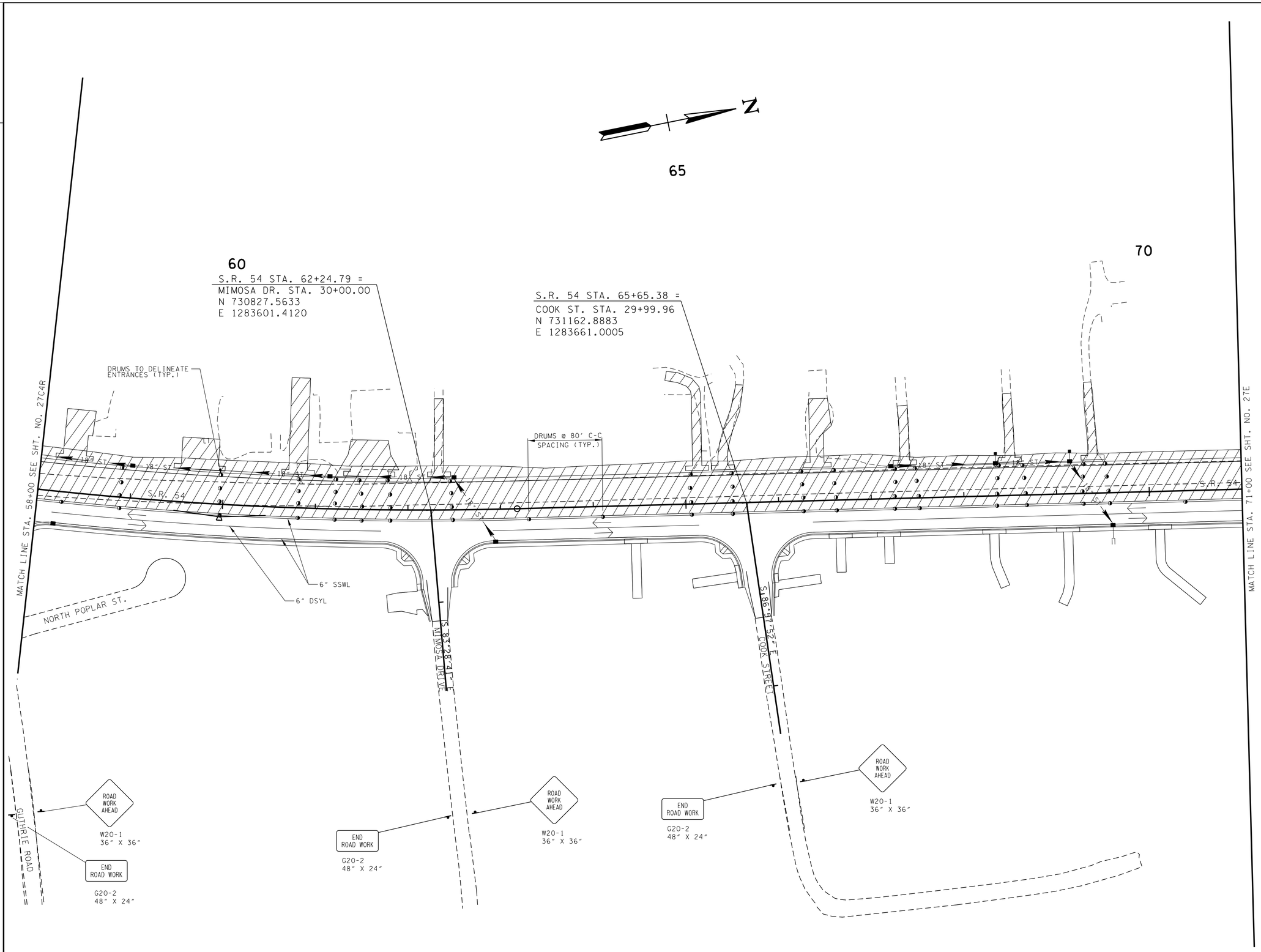
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24S
CONST.	2017	NH-54(26)	27D



CONSTRUCTABILITY FIELD REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104319
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 58+00 TO STA. 71+00

SCALE: 1"= 50'

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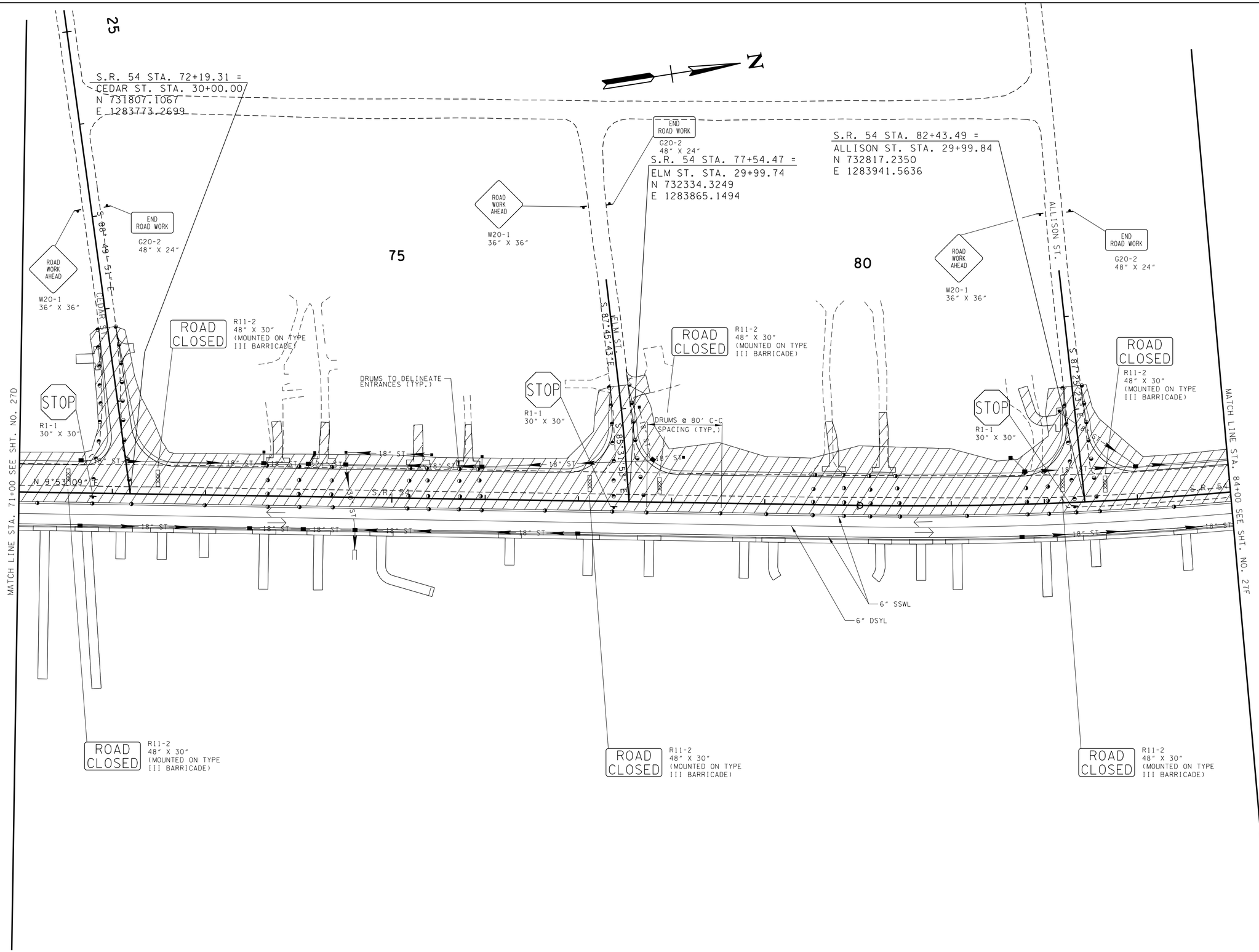
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24T
CONST.	2017	NH-54(26)	27E



CONSTRUCTABILITY FIELD REVIEW

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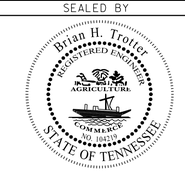

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 71+00 TO STA. 84+00

SCALE: 1"= 50'

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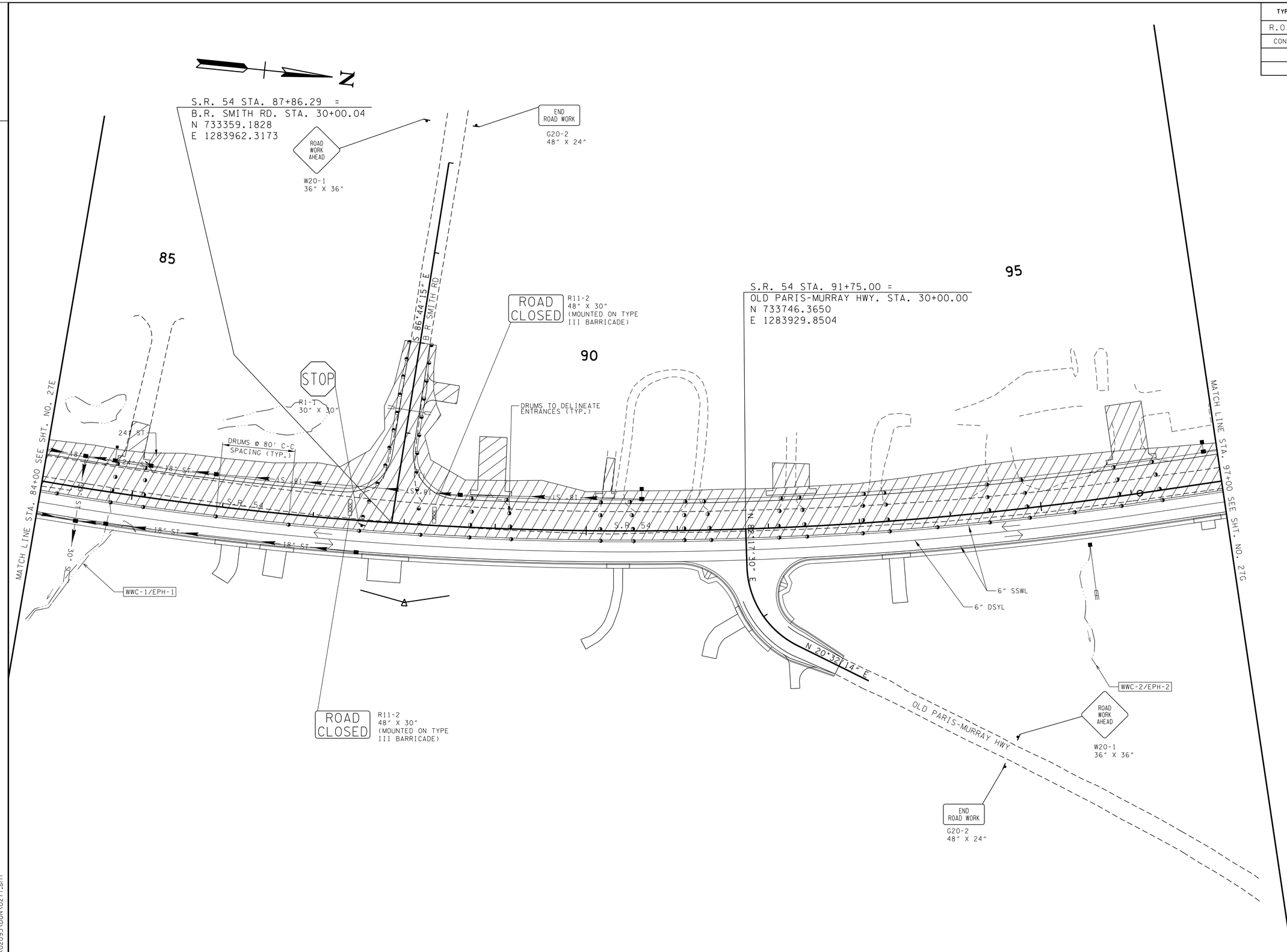
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24U
CONST.	2017	NH-54(26)	27F



CONSTRUCTABILITY FIELD REVIEW

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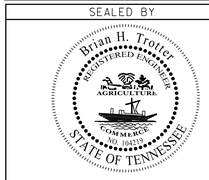

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 84+00 TO STA. 97+00

SCALE: 1"= 50'

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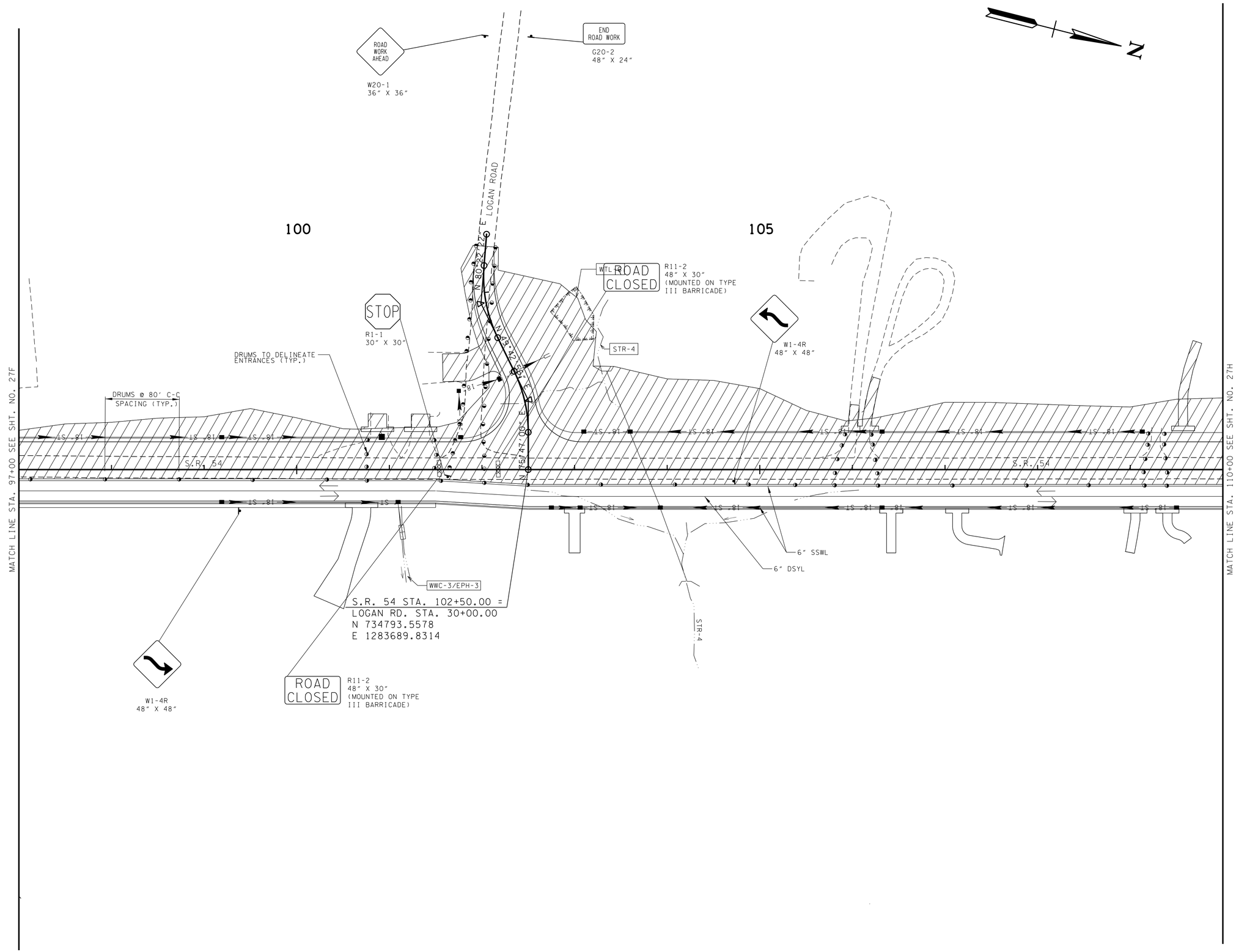
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24V
CONST.	2017	NH-54(26)	27G



CONSTRUCTABILITY FIELD REVIEW

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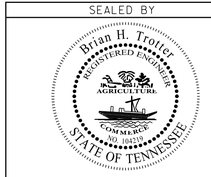

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 97+00 TO STA. 110+00

SCALE: 1"= 50'

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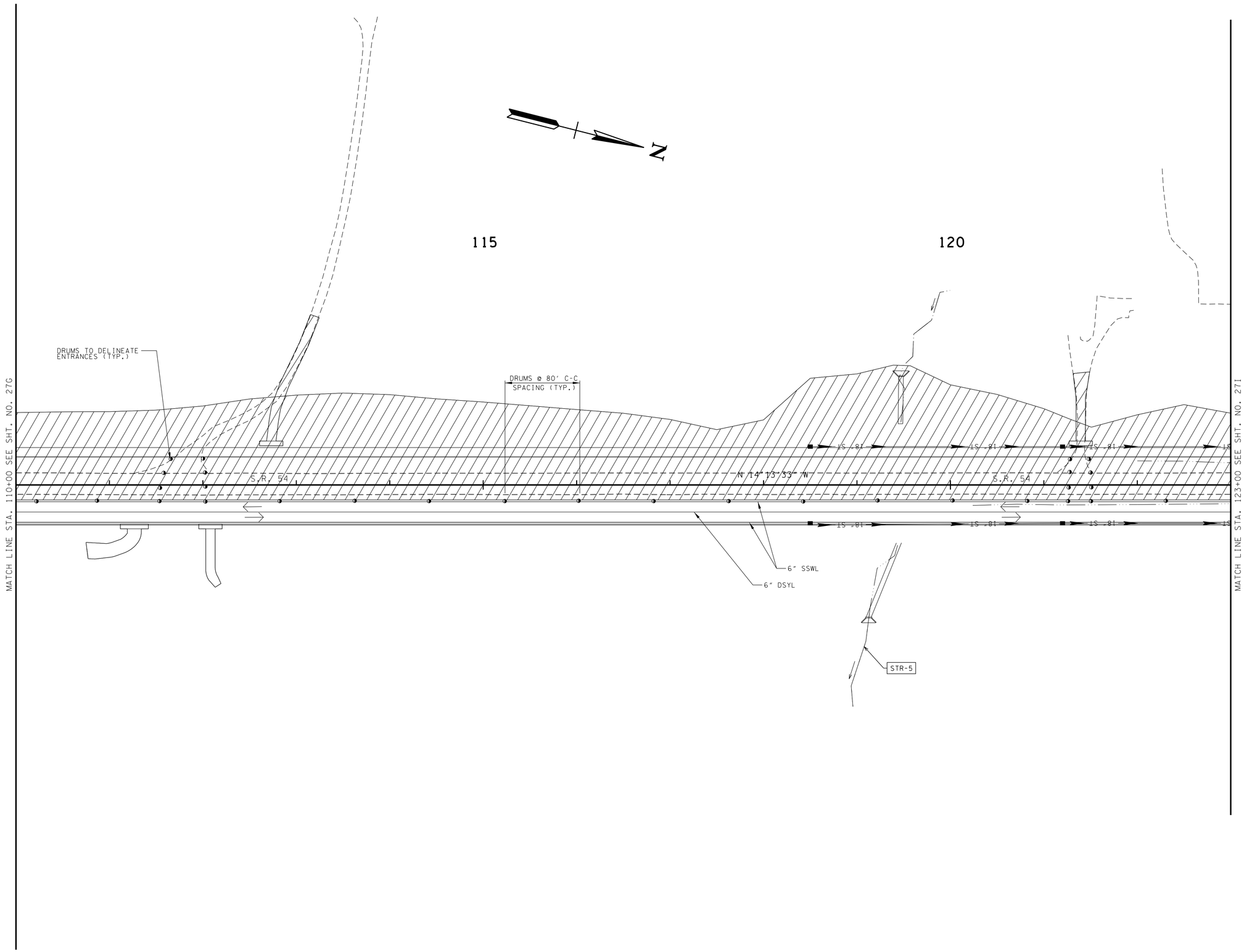
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24W
CONST.	2017	NH-54(26)	27H



CONSTRUCTABILITY FIELD REVIEW

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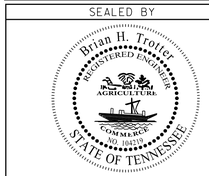

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 110+00 TO STA. 123+00

SCALE: 1"= 50'

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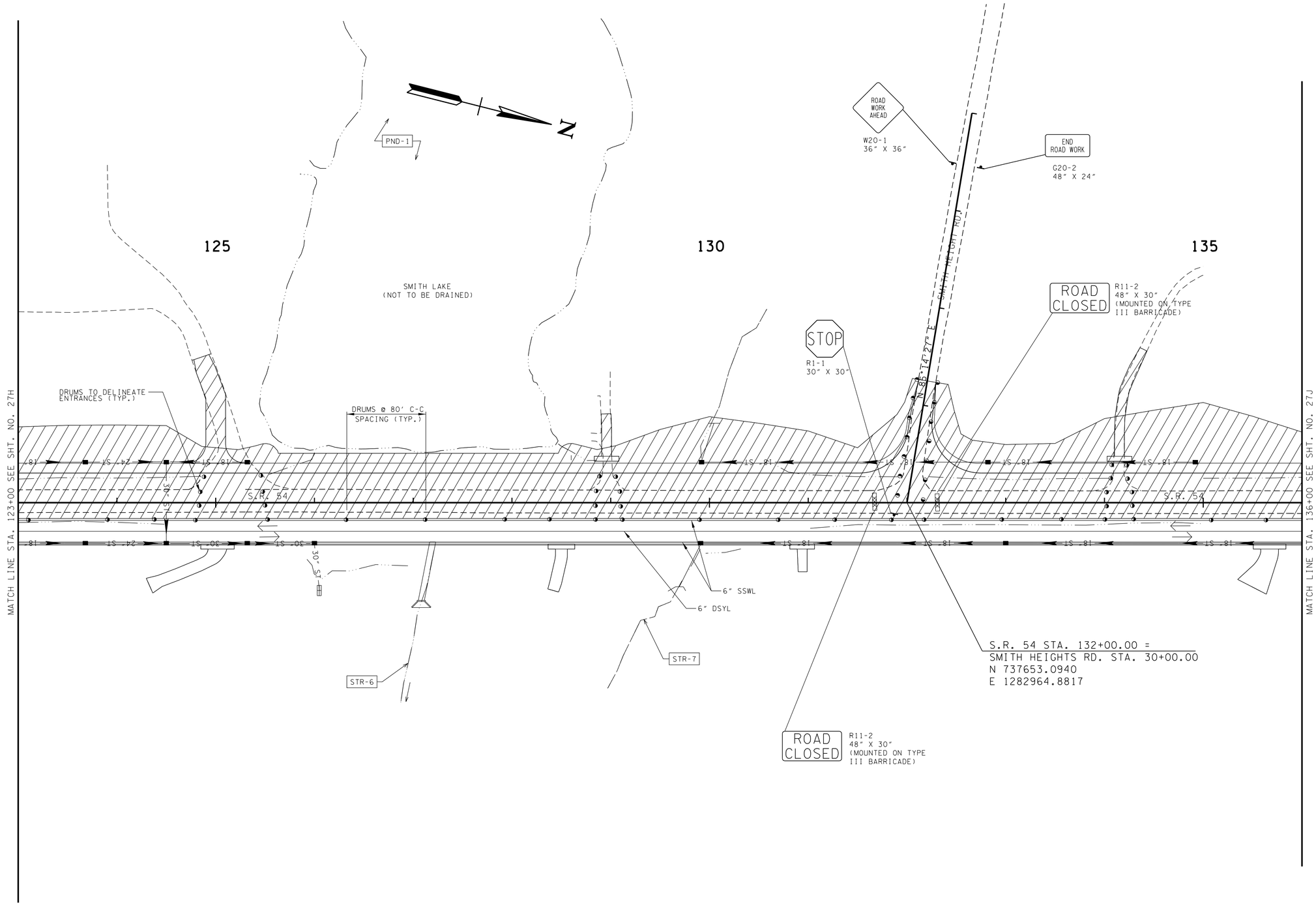
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24X
CONST.	2017	NH-54(26)	27I



CONSTRUCTABILITY FIELD REVIEW

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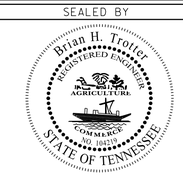

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 123+00 TO STA. 136+00

SCALE: 1"= 50'

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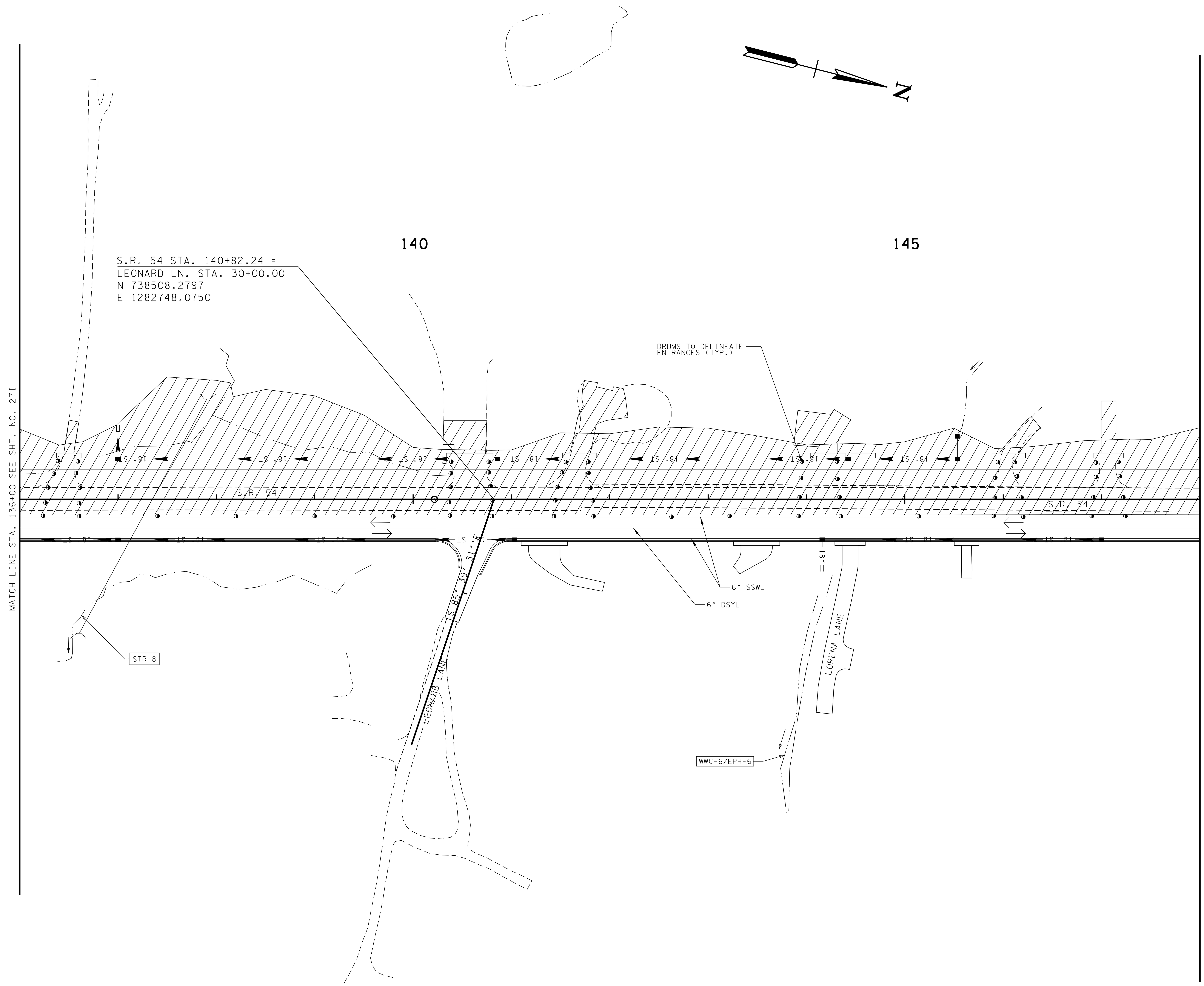
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24Y
CONST.	2017	NH-54(26)	27J



CONSTRUCTABILITY
FIELD
REVIEW

SEALED BY

Brian H. Trotter
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104219
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 136+00 TO STA. 148+00

SCALE: 1"= 50'

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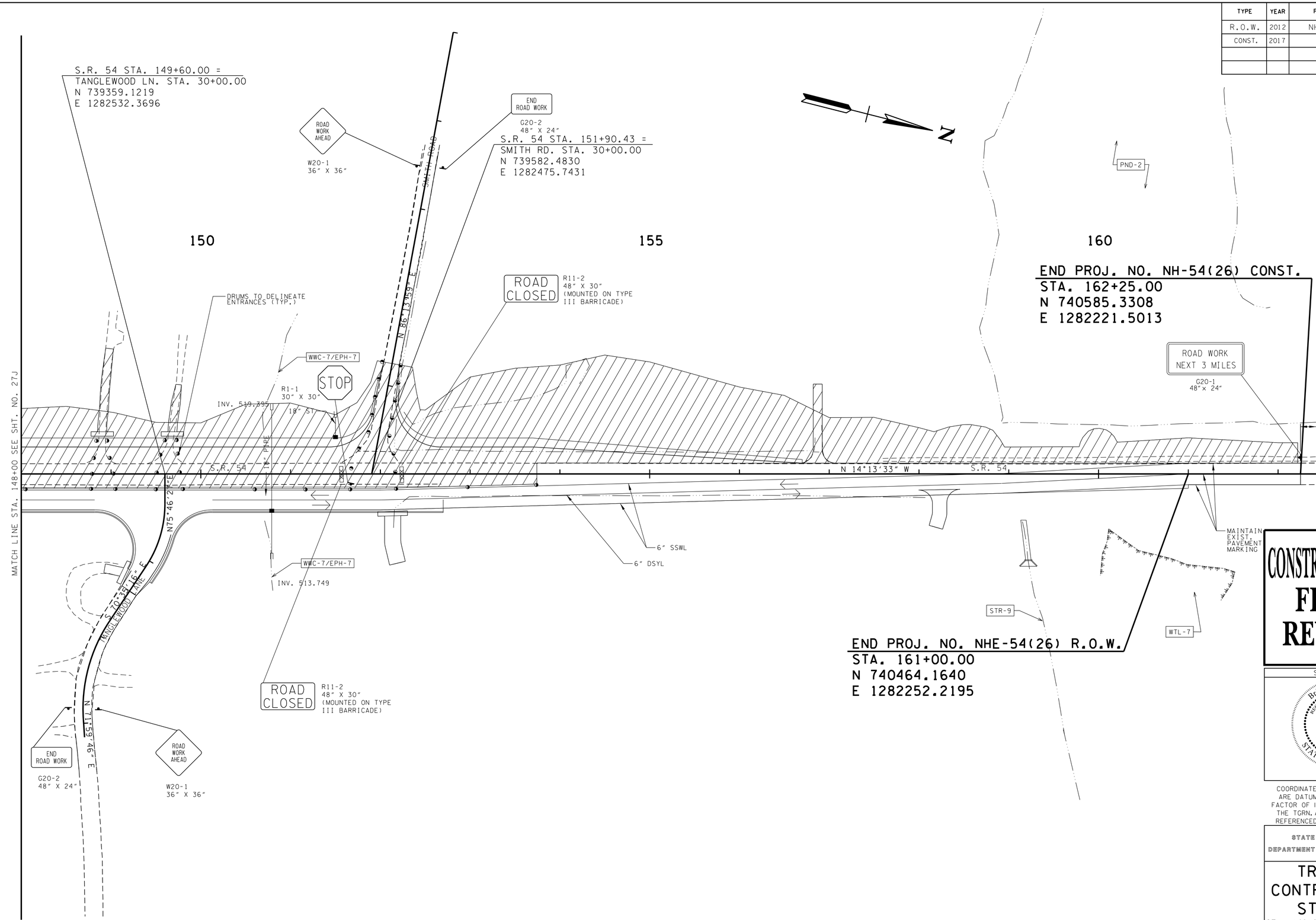
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24Z
CONST.	2017	NH-54(26)	27K



CONSTRUCTABILITY FIELD REVIEW

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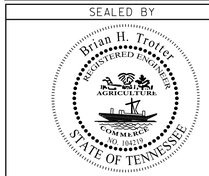

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 148+00 TO STA. 162+50

SCALE: 1"= 50'

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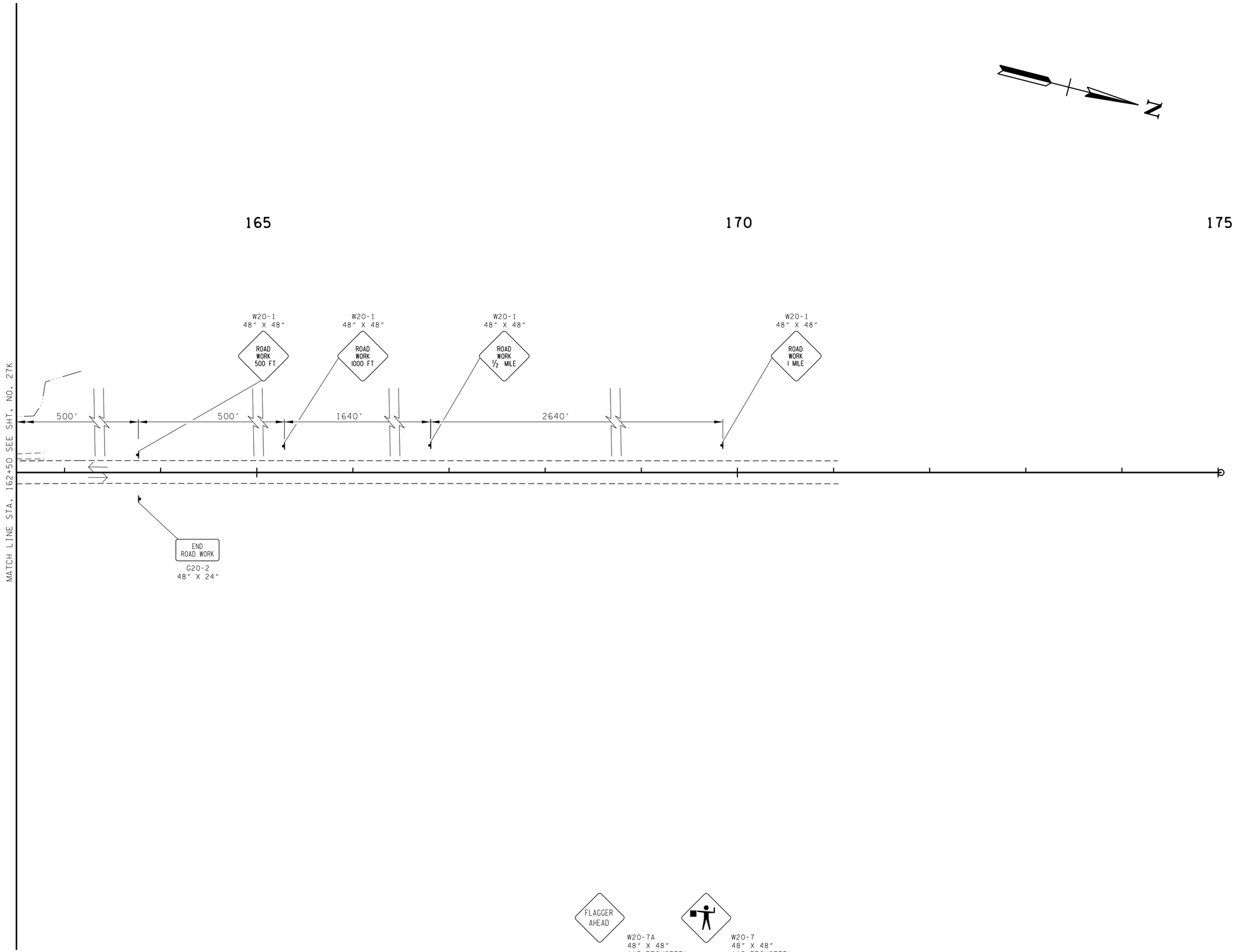
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	24AA
CONST.	2017	NH-54(26)	27L



CONSTRUCTABILITY FIELD REVIEW

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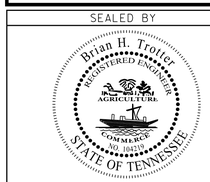

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN STAGE 2

STA. 162+50 TO END PROJECT

SCALE: 1"= 50'

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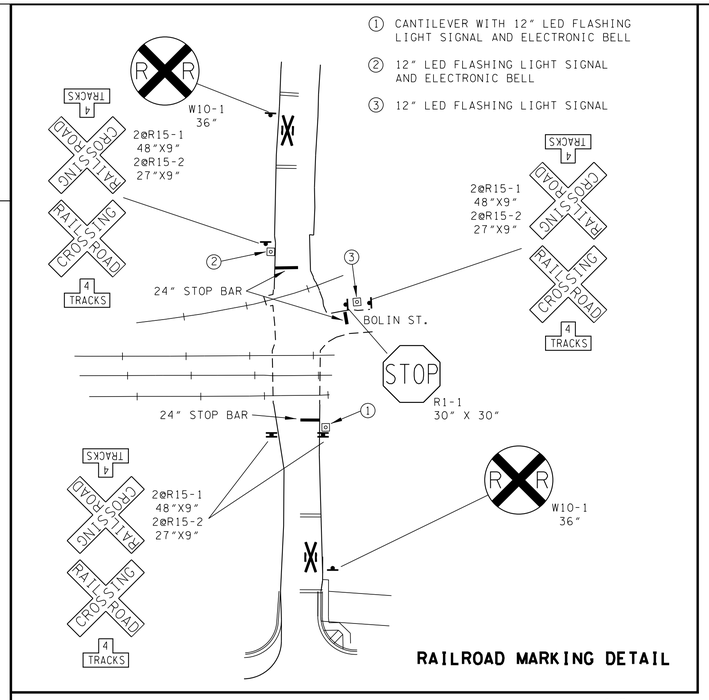
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28



RAILROAD MARKING DETAIL

10

RISON ST. W
PI 26+26.07
N 726,398.6469
E 1,282,769.2665
Δ 4° 31' 57" (LT)
D 5° 43' 46"
R 1,000.00
L 79.11
T 39.57

RISON ST. W
PI 27+89.07
N 726,396.6940
E 1,282,932.3000

25

PC 25+86.49

PT 26+65.60

SR 54 STA. 16+64.58 =
RISON STREET W. STA. 30+00.00
RISON STREET E. STA. 30+00.00
N 726389.5240
E 1283143.1082

15

PI 27+89.07
Δ 1° 15' 42"
NO CURVE

S 84° 46' E
S 89° 18' 49" E
S 88° 03' 07" E

4" SSWL
"RXR" PAVEMENT MARKING WORD
4" SSWL
4" DSYL
CANTILEVER SIGNAL SUPPORT STA. 16+38.60 @ 46.60' SSWL
"RXR" PAVEMENT MARKING WORD
4" DSYL
6" SSWL
10' CROSSWALK (TYP.)
6" DSYL
"ONLY" PAVEMENT MARKING WORD
TURN LANE ARROW
MONO-DIRECTIONAL MARKERS (CLEAR) AT 20' SPACING C TO C (TYP.)
12" WHITE TRANSVERSE CHANNELIZATION MARKINGS
BI-DIRECTIONAL MARKERS (YELLOW) AT 80' SPACING C TO C (TYP.)
BI-DIRECTIONAL MARKERS (YELLOW) AT 20' SPACING C TO C (TYP.)
6" SSWL
N 2°35'11" E
S.R. 54
6" SSWL
12" WHITE TRANSVERSE CHANNELIZATION MARKINGS
TURN LANE ARROW
6" SBWL
6" SSWL
6" DSYL
CANTILEVER SIGNAL SUPPORT STA. 16+89.50 @ 46.60' RT.
MONO-DIRECTIONAL MARKERS (CLEAR) AT 20' SPACING C TO C (TYP.)
24" STOP LINE (TYP.)
4" DSYL
MONO-DIRECTIONAL MARKERS (CLEAR) AT 80' SPACING C TO C (TYP.)
PEDESTAL POLE STA. 16+37.50 @ 45.90' RT.
BI-DIRECTIONAL MARKERS (YELLOW) AT 20' SPACING C TO C (TYP.)
MATCH LINE STA. 19+00 SEE SHT. NO. 28A

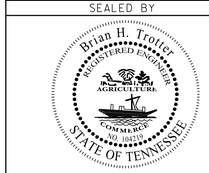
BEGIN PROJ. NO. NH-54(26) CONST.
STA. 15+00.00
N 726225.0357
E 1283138.2555

PROPOSED S.R. 54
PI 16+34.09
N 726,358.9898
E 1,283,144.3061
Δ 3° 38' 07" (LT)
D 1° 59' 44"
R 2,871.25
L 182.17
T 91.12
SE 0.022 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 160'

S 88° 03' 07" E
RISON ST. E
PC 15+42.98
PI 16+34.09
PCC 17+25.14
POT 32+83.66

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT
BEGIN PROJECT TO STA.19+00
SCALE: 1"= 50'

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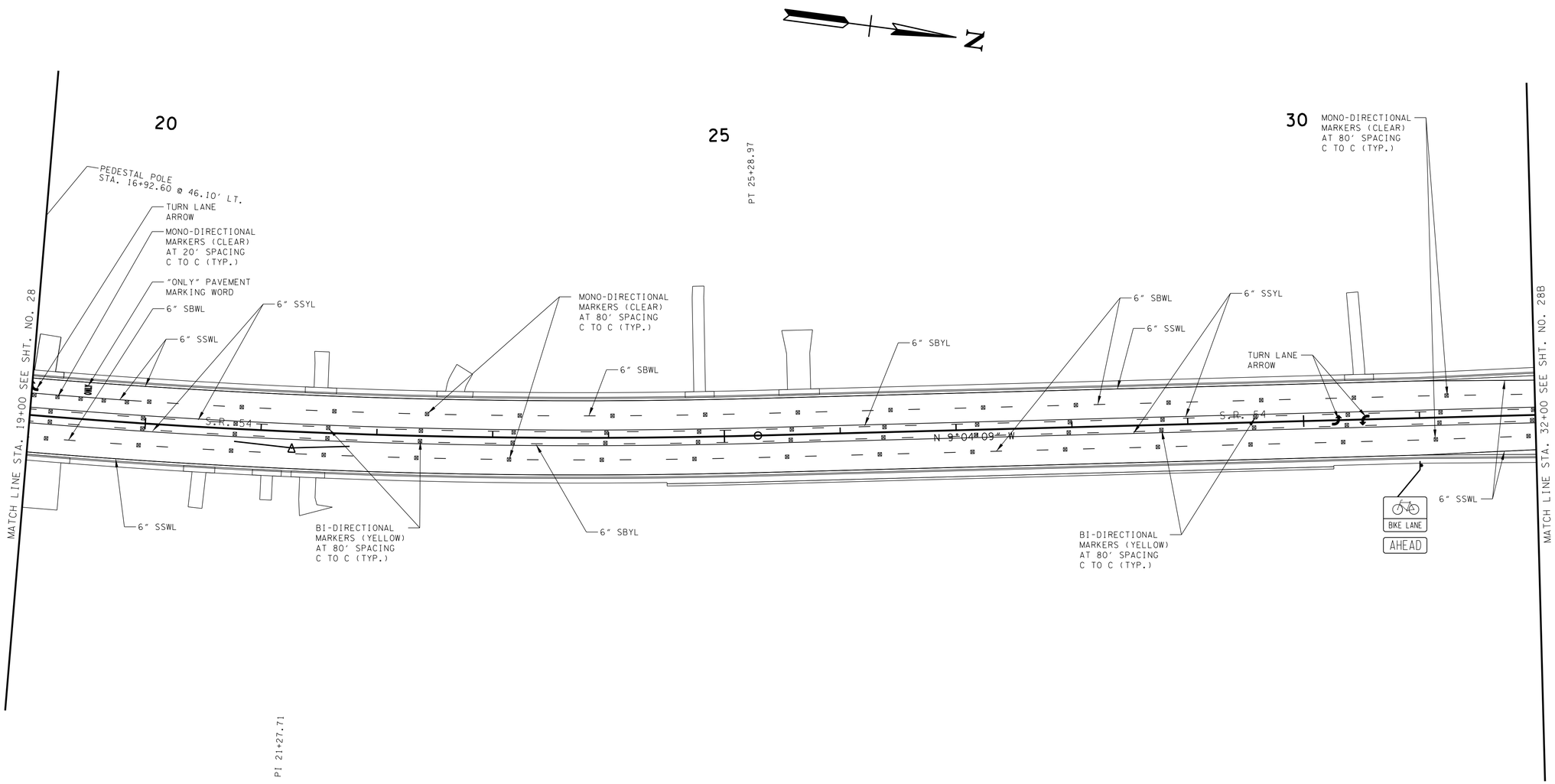
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28A

PROPOSED S.R. 54
PI 21+27.71
N 726,852.5922
E 1,283,135.2688
Δ 8° 01′ 13″ (LT)
D 0° 59′ 52″
R 5,742.50
L 803.83
T 402.57
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150′



CONSTRUCTABILITY FIELD REVIEW

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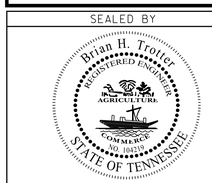

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 19+00 TO STA. 32+00
SCALE: 1″= 50′

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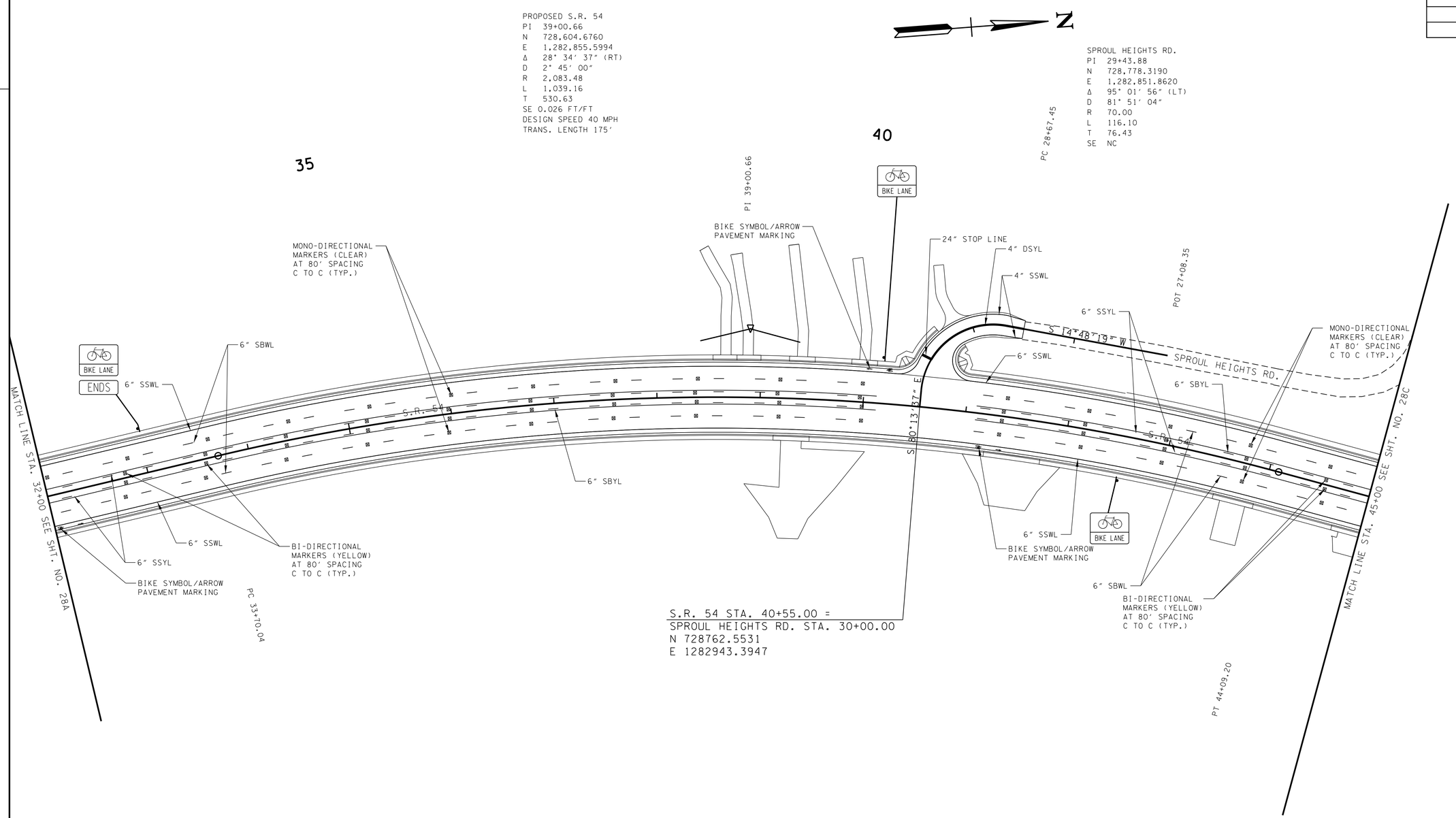
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28B

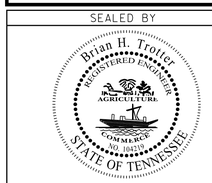
PROPOSED S.R. 54
PI 39+00.66
N 728,604.6760
E 1,282,855.5994
Δ 28° 34′ 37″ (RT)
D 2° 45′ 00″
R 2,083.48
L 1,039.16
T 530.63
SE 0.026 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 175′

SPROUL HEIGHTS RD.
PI 29+43.88
N 728,778.3190
E 1,282,851.8620
Δ 95° 01′ 56″ (LT)
D 81° 51′ 04″
R 70.00
L 116.10
T 76.43
SE NC



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 32+00 TO STA. 45+00

SCALE: 1″= 50′

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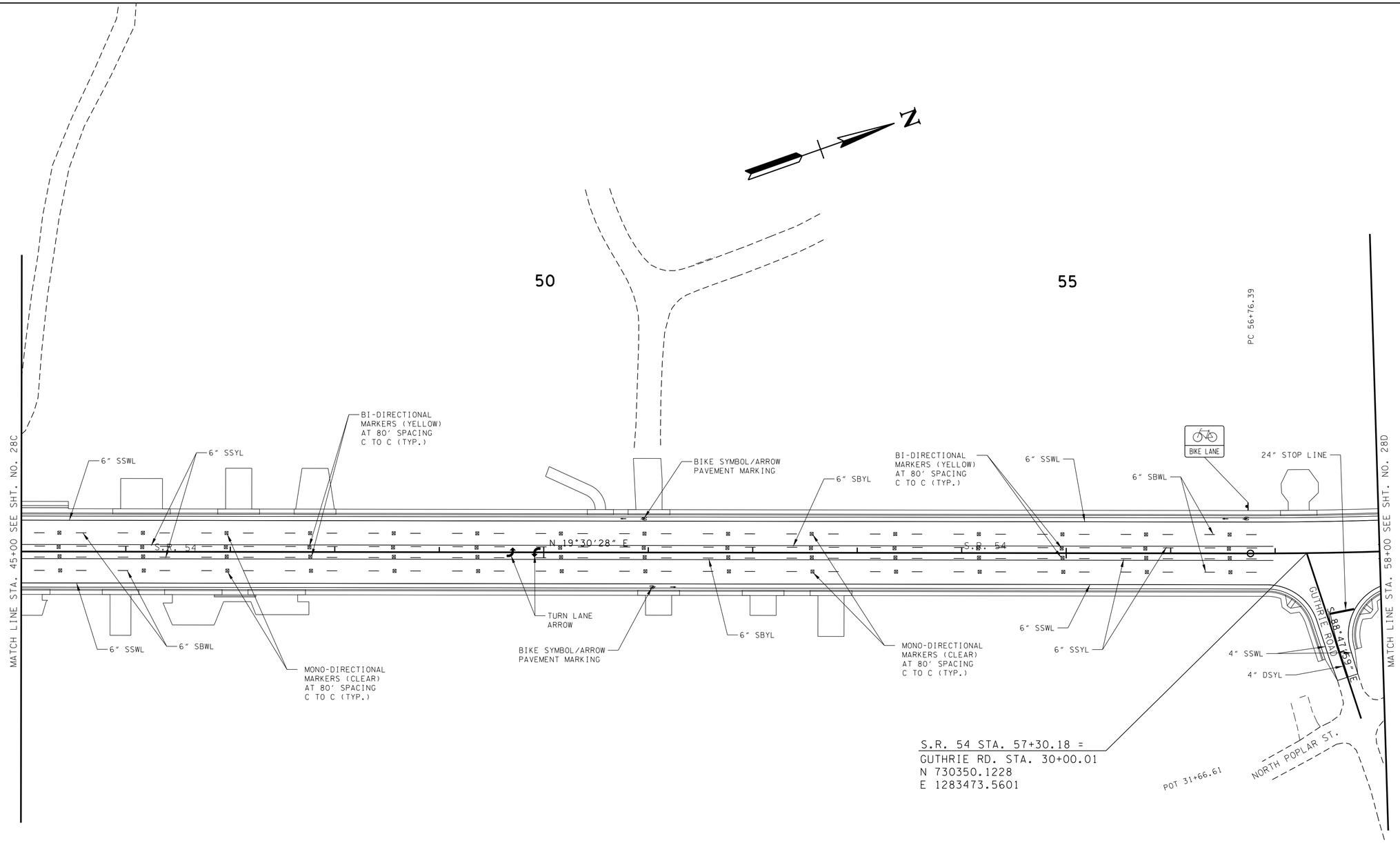
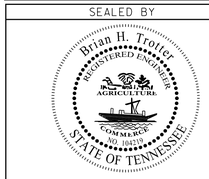
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28C



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 45+00 TO STA. 58+00

SCALE: 1"= 50'

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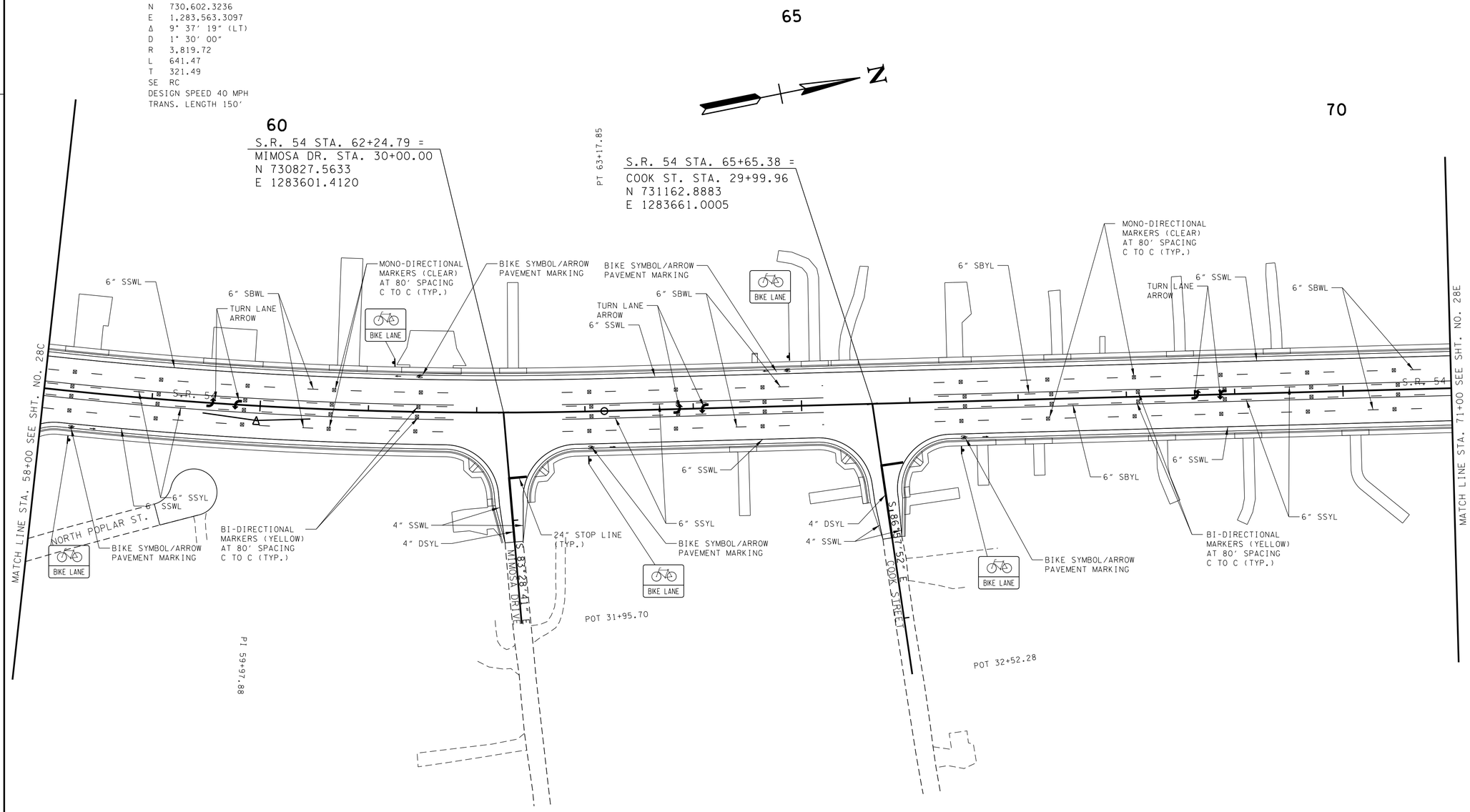
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

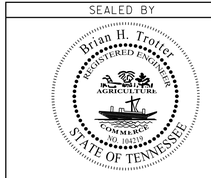
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28D

PROPOSED S.R. 54
PI 59+97.88
N 730,602.3236
E 1,283,563.3097
Δ 9° 37′ 19″ (LT)
D 1° 30′ 00″
R 3,819.72
L 641.47
T 321.49
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150′



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 58+00 TO STA. 71+00
SCALE: 1″= 50′

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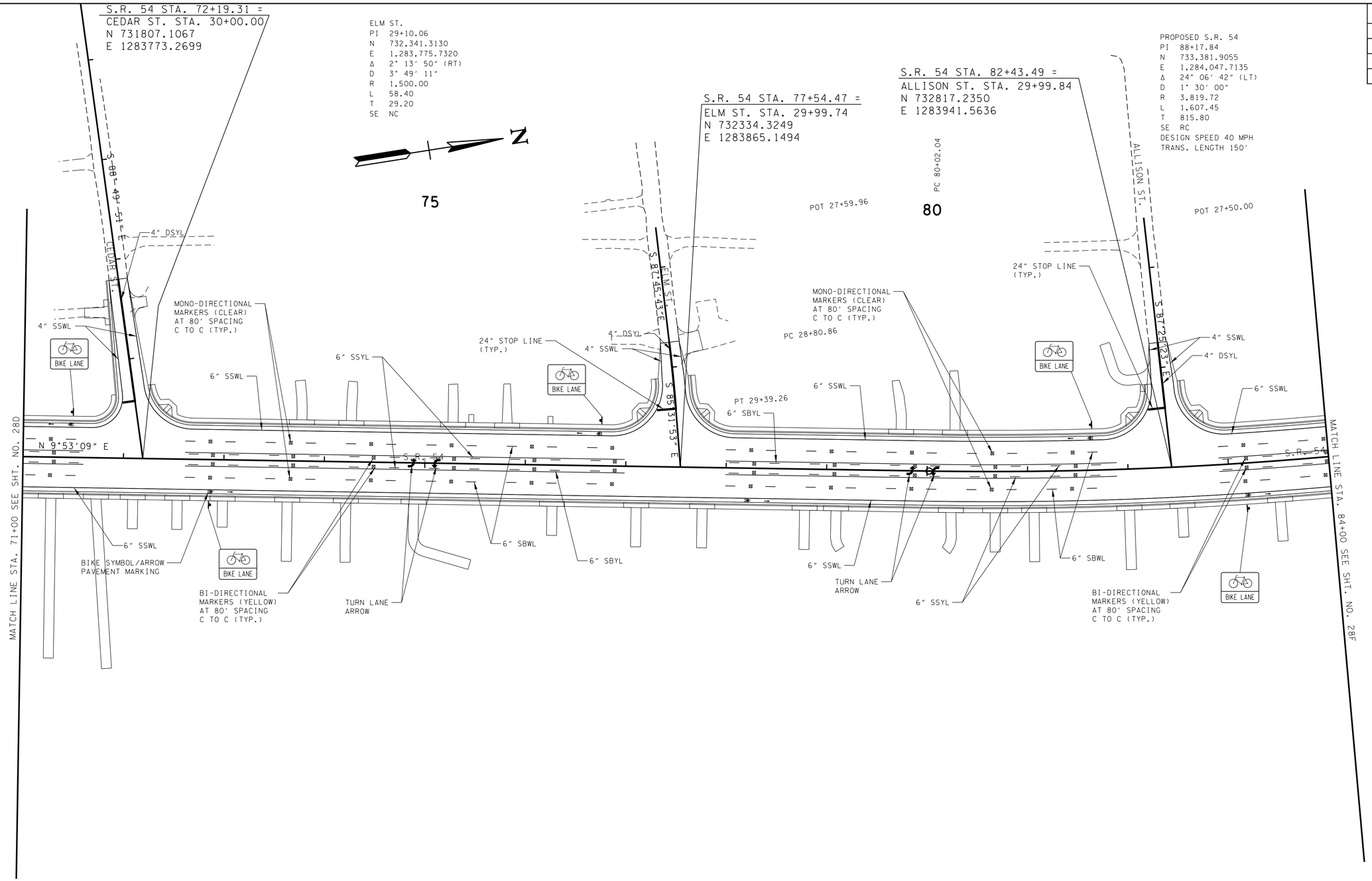
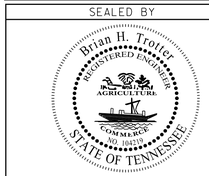
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28E



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKOUT LAYOUT

STA. 71+00 TO STA. 84+00

SCALE: 1″= 50′

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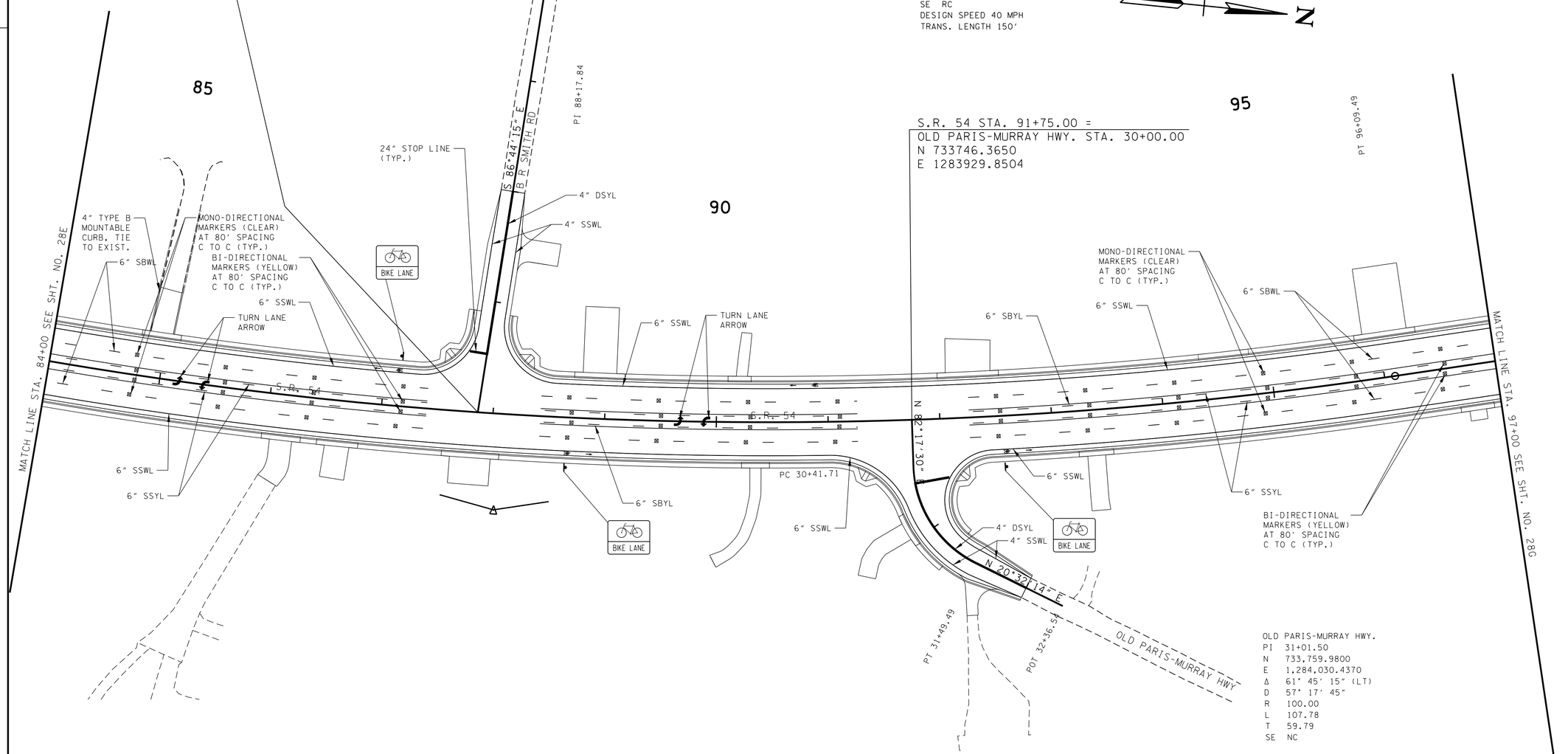
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28F

S.R. 54 STA. 87+86.29 =
B.R. SMITH RD. STA. 30+00.04
N 733359.1828
E 1283962.3173

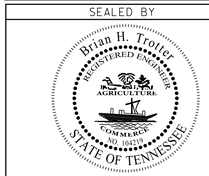
PROPOSED S.R. 54
PI 88+17.84
N 733,381.9055
E 1,284,047.7135
Δ 24° 06′ 42″ (LT)
D 1° 30′ 00″
R 3,819.72
L 1,607.45
T 815.80
SE RC
DESIGN SPEED 40 MPH
TRANS. LENGTH 150′



OLD PARIS-MURRAY HWY.
PI 31+01.50
N 733,759.9800
E 1,284,030.4370
Δ 61° 45′ 15″ (LT)
D 57° 17′ 45″
R 100.00
L 107.78
T 59.79
SE NC

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 84+00 TO STA. 97+00

SCALE: 1″= 50′

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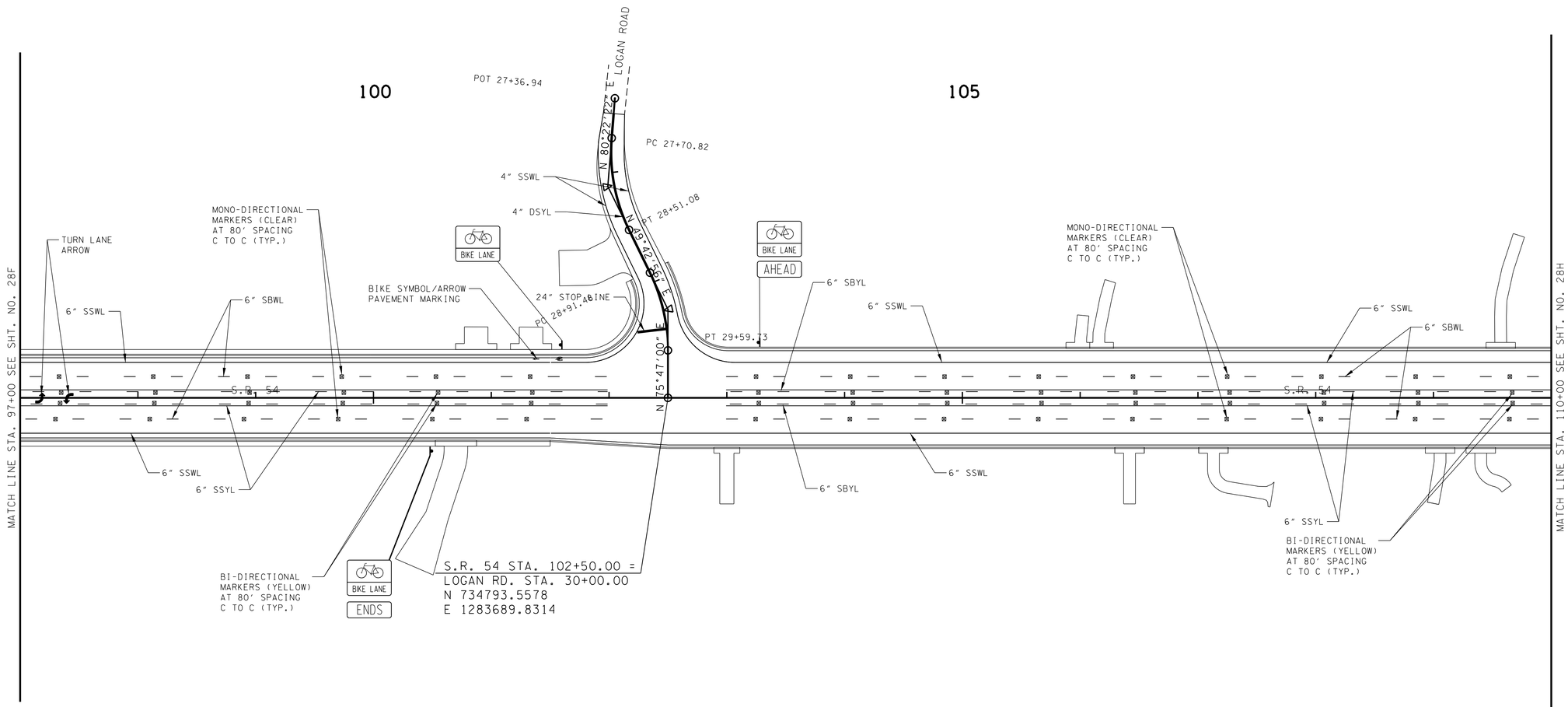
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28G

LOGAN RD.
PI 28+11.94
N 734,699.9820
E 1,283,528.4580
Δ 30° 39′ 25″ (LT)
D 38° 11′ 50″
R 150.00
L 80.26
T 41.12
SE NC

LOGAN RD.
PI 29+26.21
N 734,775.1390
E 1,283,617.1290
Δ 26° 04′ 05″ (RT)
D 38° 11′ 50″
R 150.00
L 68.25
T 34.72
SE NC

N



CONSTRUCTABILITY FIELD REVIEW

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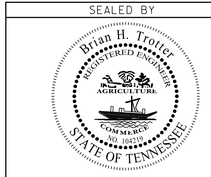

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 97+00 TO STA. 110+00

SCALE: 1″= 50′

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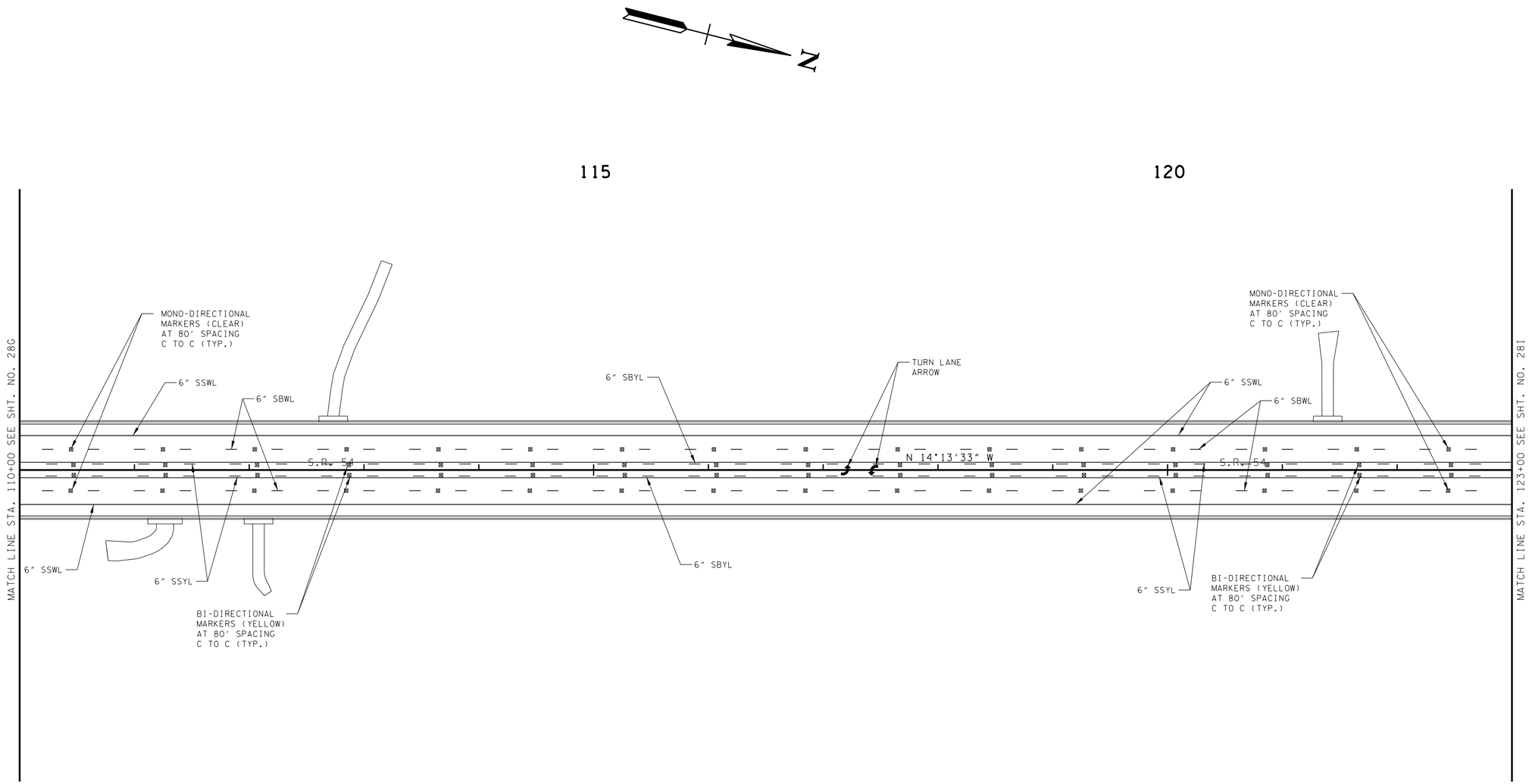
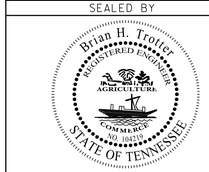
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28H



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 110+00 TO STA. 123+00

SCALE: 1"= 50'

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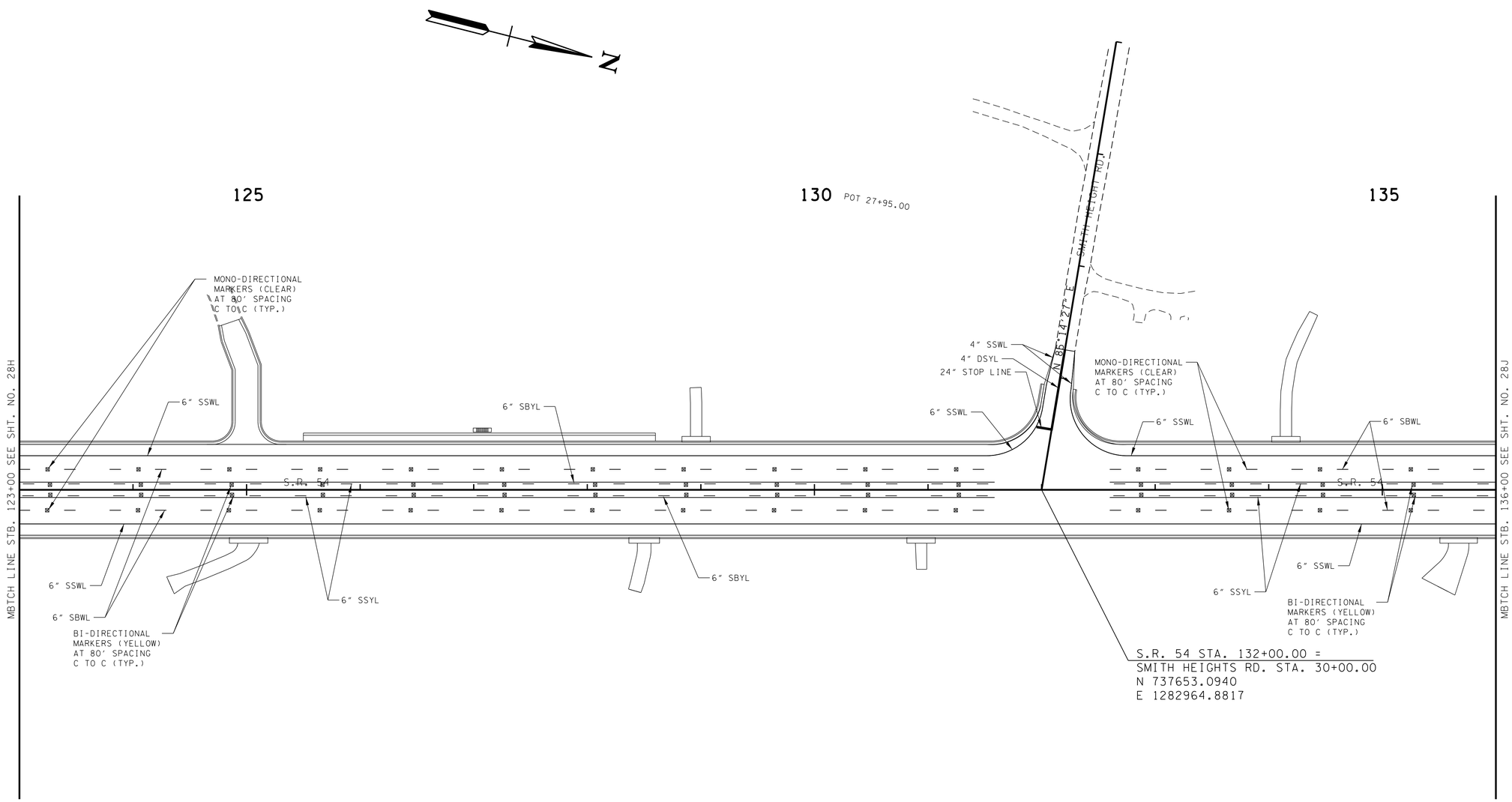
TENNESSEE D.O.T.
DESIGN DIVISION

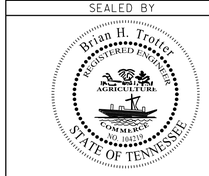
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28I



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 123+00 TO STA. 136+00

SCALE: 1"= 50'

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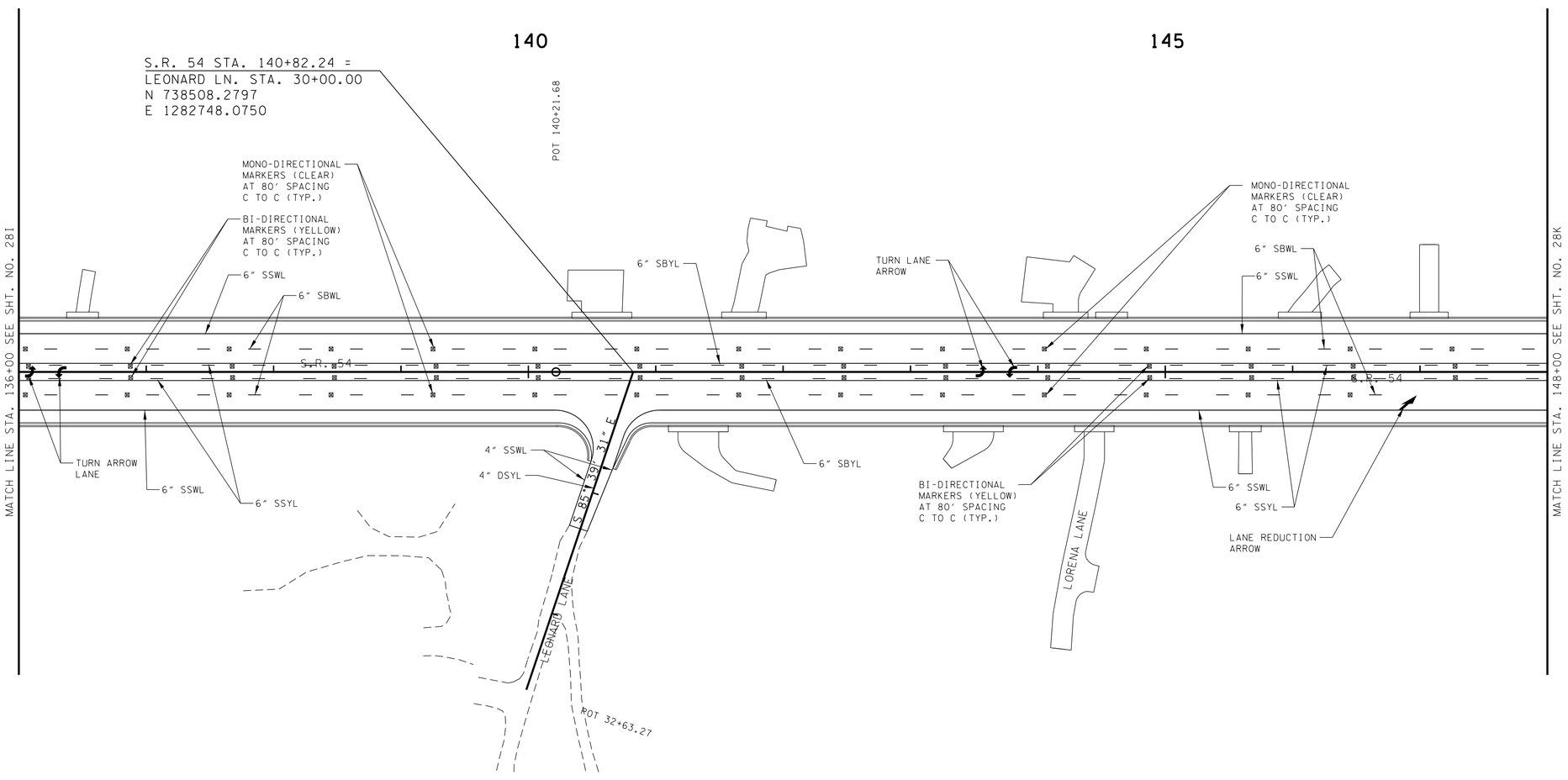
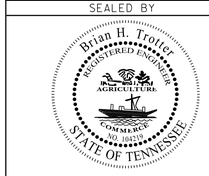
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28J



CONSTRUCTABILITY FIELD REVIEW

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 136+00 TO STA. 148+00

SCALE: 1"= 50'

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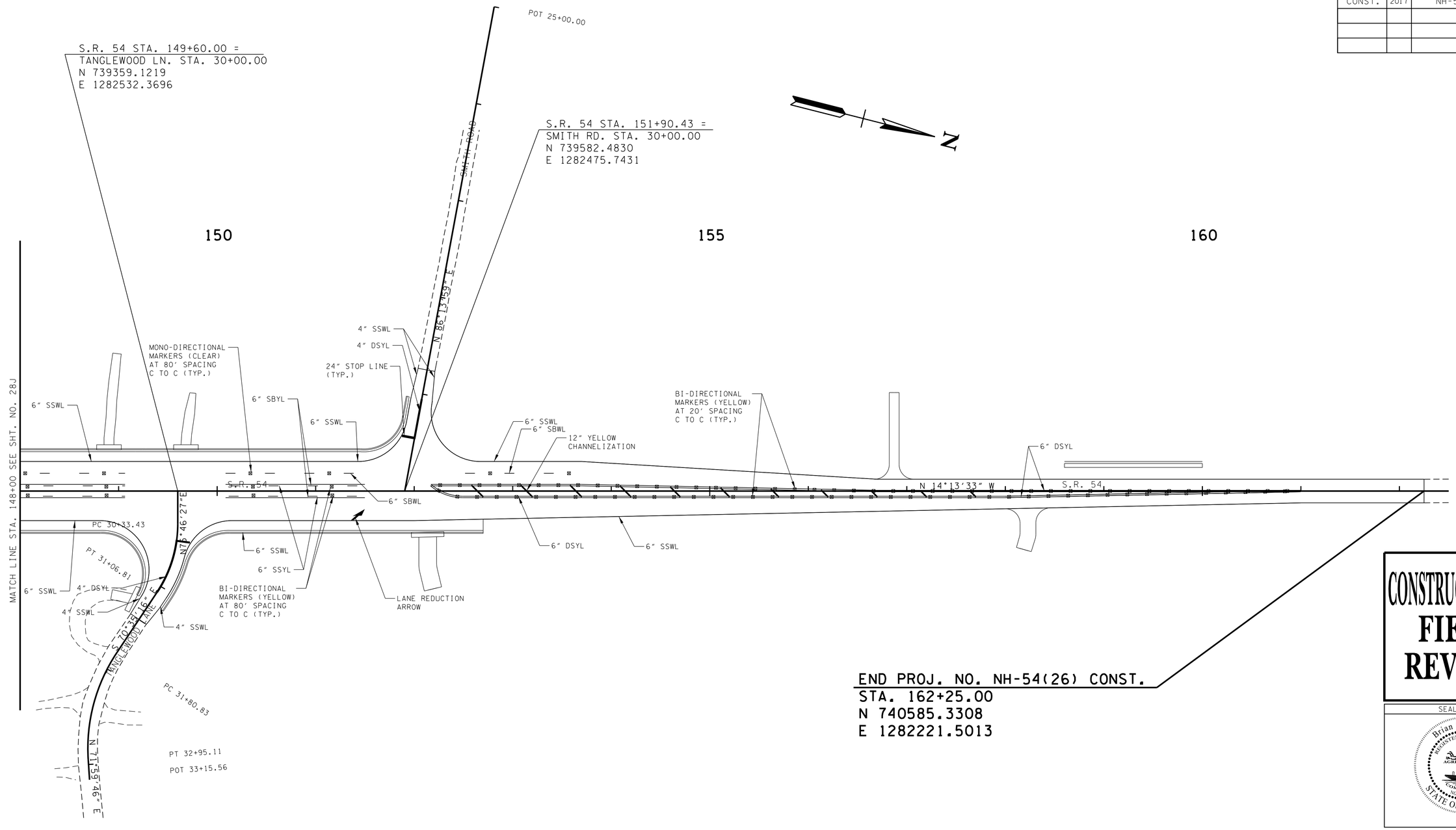
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	28K



TANGLEWOOD LN.		TANGLEWOOD LN.	
PI	30+71.21	PI	32+40.09
N	739,376.6220	N	739,319.7680
E	1,282,601.3990	E	1,282,762.7360
Δ	33° 38' 16" (RT)	Δ	37° 24' 58" (LT)
D	45° 50' 12"	D	32° 44' 26"
R	125.00	R	175.00
L	73.39	L	114.28
T	37.78	T	59.26
SE	NC		

CONSTRUCTABILITY FIELD REVIEW

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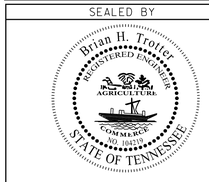

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND MARKING LAYOUT

STA. 148+00 TO END PROJECT

SCALE: 1"= 50'

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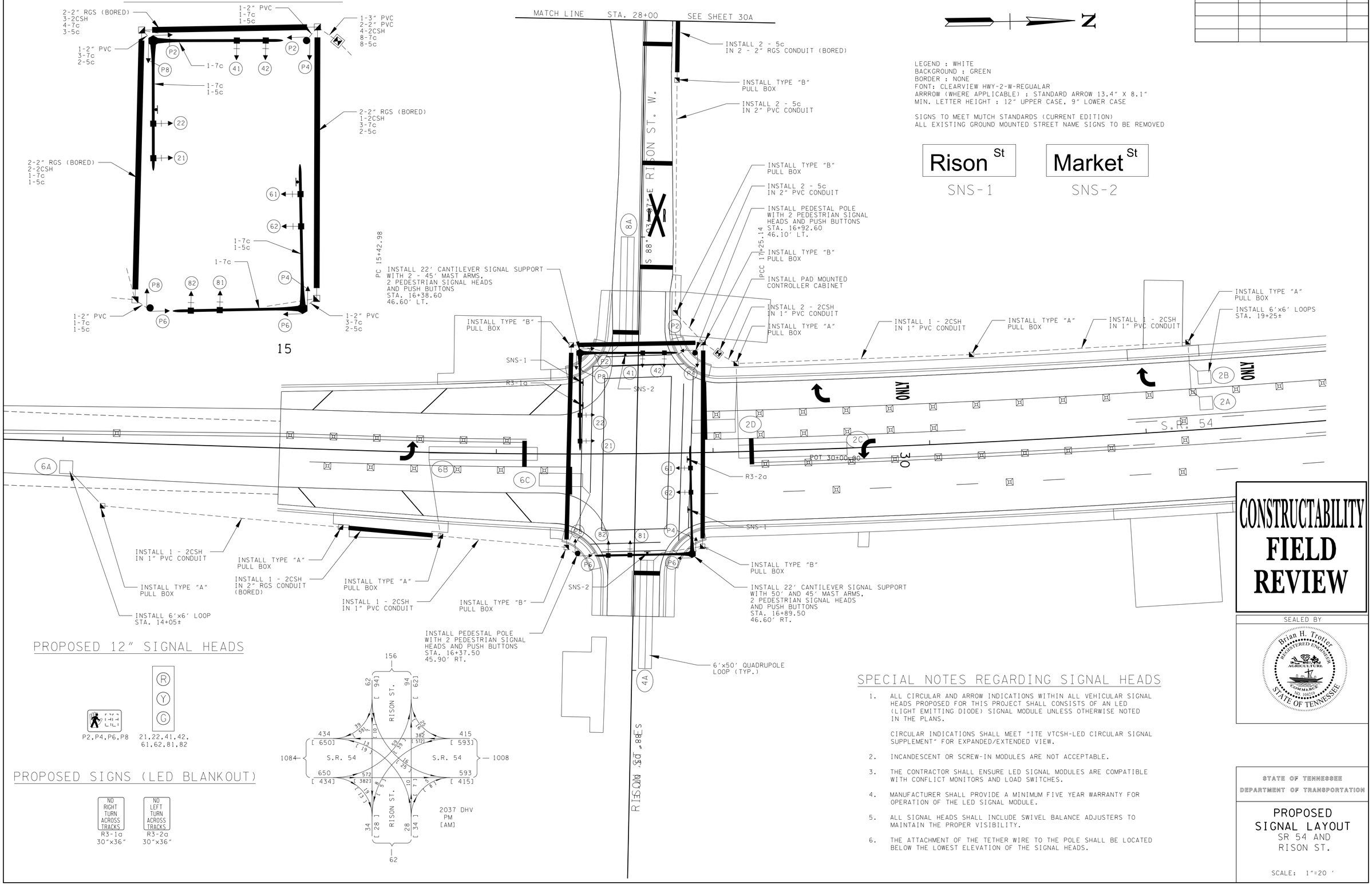
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	30

WIRING AND CONDUIT DIAGRAM

15



LEGEND : WHITE
BACKGROUND : GREEN
BORDER : NONE
FONT: CLEARVIEW HWY-2-W-REGUALAR
ARRROW (WHERE APPLICABLE) : STANDARD ARROW 13.4" X 8.1"
MIN. LETTER HEIGHT : 12" UPPER CASE, 9" LOWER CASE

SIGNS TO MEET MUTCH STANDARDS (CURRENT EDITION)
ALL EXISTING GROUND MOUNTED STREET NAME SIGNS TO BE REMOVED

Rison St — SNS-1

Market St — SNS-2

PROPOSED 12" SIGNAL HEADS

P2,P4,P6,P8 — 21,22,41,42, 61,62,81,82

PROPOSED SIGNS (LED BLANKOUT)

R3-1a 30"x36" — R3-2a 30"x36"

SPECIAL NOTES REGARDING SIGNAL HEADS

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

   CIRCULAR INDICATIONS SHALL MEET "ITE VTCSH-LED CIRCULAR SIGNAL SUPPLEMENT" FOR EXPANDED/EXTENDED VIEW.

2. INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.

3. THE CONTRACTOR SHALL ENSURE LED SIGNAL MODULES ARE COMPATIBLE WITH CONFLICT MONITORS AND LOAD SWITCHES.

4. MANUFACTURER SHALL PROVIDE A MINIMUM FIVE YEAR WARRANTY FOR OPERATION OF THE LED SIGNAL MODULE.

5. ALL SIGNAL HEADS SHALL INCLUDE SWIVEL BALANCE ADJUSTERS TO MAINTAIN THE PROPER VISIBILITY.

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

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
SIGNAL LAYOUT
SR 54 AND
RISON ST.

SCALE: 1"=20 '

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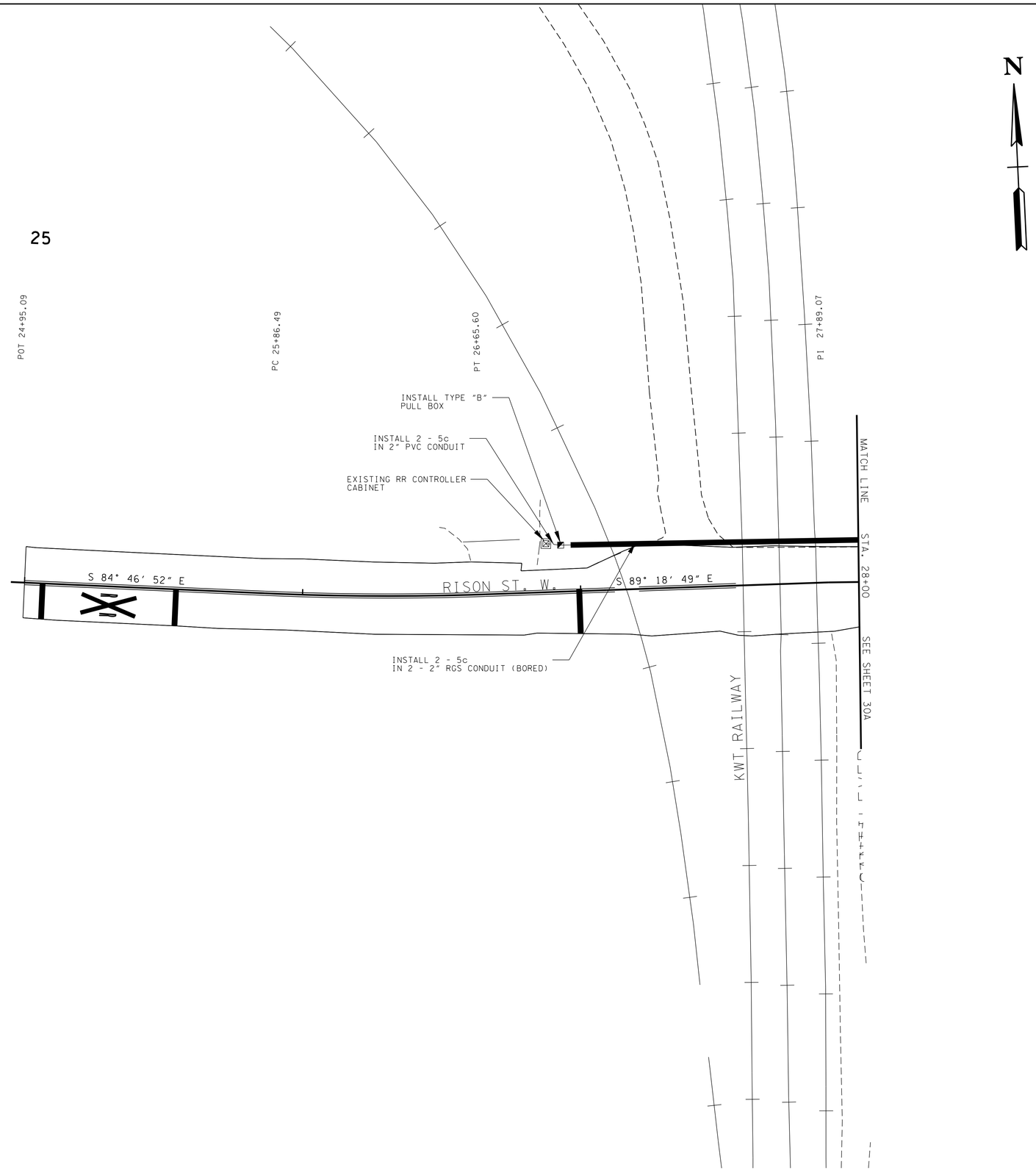
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	30A



CONSTRUCTABILITY
FIELD
REVIEW

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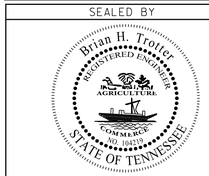

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
SIGNAL LAYOUT
SR 54 AND
RISON ST.

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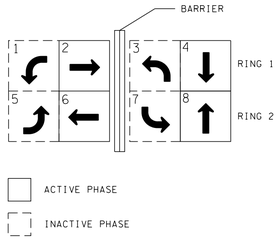
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	30B

NEMA EIGHT PHASE DESIGNATIONS



- OPERATION IS DUAL ENTRY MODE. FULL SKIP CAPABILITY
- SINGLE DIRECTION. LAGGING LEFT TURN PHASES ARE NOT ALLOWED
- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

BASIC OR SEMI - ACTUATED TIMING (SECS)

PHASE	INITIAL INTERVAL	VEHICLE INTERAL	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)	LEFT TURN OPERATION (2)
					YELLOW	ALL RED	WALK	FLASHING DON'T WALK			
4	6	3.0	28.5		4.0	2.0	7.0	21.0	2-6	NL	PERM
8	6	3.0	28.5		4.0	2.0	7.0	21.0	2-6	NL	PERM

(1) NL = NONLOCK
L = LOCK

(2) PERM = PERMITTED
PROT = PROTECTED
P + P = PROT/PERM

VOLUME - DENSITY TIMING (SECS)

PHASE	INITIAL INTERVAL	ADDED INITIAL PER ACTUATION	PASSAGE TIME	MINIMUM GAP	TIME BEFORE REDUCTION	TIME TO REDUCE	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)
									YELLOW	ALL RED	WALK	FLASHING DON'T WALK		
2	15.0	2.3	3.9	2.0	15.0	15.0	45.0		4.5	1.0	7.0	10.0		L
6	15.0	2.3	3.9	2.0	15.0	15.0	45.0		4.5	1.0	7.0	10.0		L

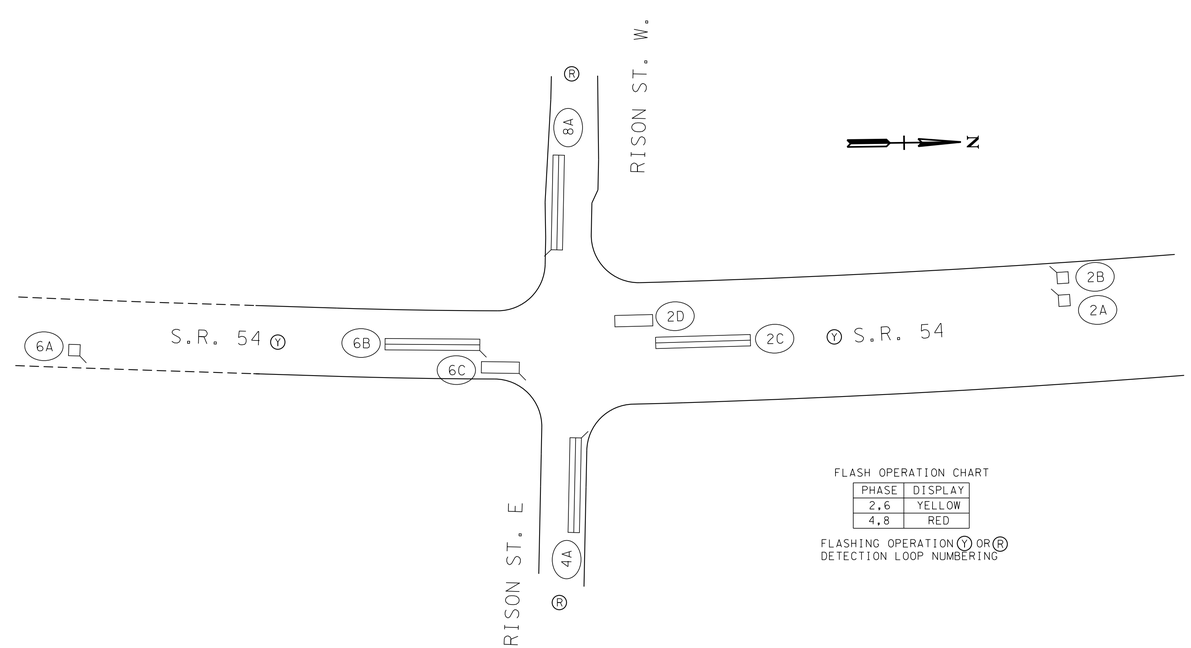
THESE TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY THE CONTRACTOR BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATIONS.

LOOP AND AMP ASSIGNMENTS

LOOP #	AMP #	LOOP LENGTH	TURNS	AMP MODE	AMP FEATURE TIMING (SEC)
2A	1	6	3	PULSE	
2B	1	6	3	PULSE	
2C	2	50	2-4-2	PRES	
2D	2	20	3	PRES	
4A	3	50	2-4-2	PRES	
6A	4	50	3	PULSE	
6B	4	50	2-4-2	PRES	
6C	5	20	3	PRES	
8A	3	50	2-4-2	PRES	

- ALL LOOPS ARE 6' IN WIDTH, CENTERED IN TRAFFIC LANE.
- LOOP WIRE CONNECTIONS SAHLL BE WIRED TO PROVIDE THE APPROXIMATE INDUCTANCE AS REQUIRED BY STD. DWG. T-SG-3.
- DETECTOR LOOP NUMBER CORRESPOND WITH INPUT PHASE NUMBERS

DETECTION LOOP DIAGRAM



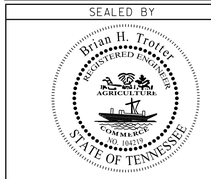
FLASH OPERATION CHART

PHASE	DISPLAY
2,6	YELLOW
4,8	RED

FLASHING OPERATION (Y) OR (R)
DETECTION LOOP NUMBERING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAL LAYOUT
SR 54 AND
RISON ST.

SCALE: 1"=20 '

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