THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Michael Morris
2023.03.01 13:24:35 -06'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
MICHAEL W. MORRIS, P.E. NO. 107385

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD ROADWAY DRAWINGS	1A1
ESTIMATED ROADWAY QUANTITIES	2
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F, 2F1
RIGHT-OF-WAY NOTES, UTILITY NOTES AND UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S)	3A – 3B
PRESENT LAYOUT(S)	4
PROPOSED LAYOUT(S)	4A
PROPOSED PROFILE(S)	4B
SIDE ROAD PROFILE(S)	5
FRONTAGE ROAD PROFILE	5A
HAUL ROADS PROFILE(S)	6
DRAINAGE MAP(S)	7
CULVERT SECTION(S)	8 – 9

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Zachary Farris
2023.03.01 13:26:01 -06'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
ZACHARY S. FARRIS, P.E. NO. 123387

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	10, 10A, 11, 12 – 14
TRAFFIC CONTROL PLANS	T1-T5

YEAR	PROJECT NO.	SHEET NO.
2023	93S111-M3-002	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Michael Morris
2023.03.24 15:04:27 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
MICHAEL W. MORRIS, P.E. NO. 107385

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
TYPICAL SECTIONS	2B
CULVERT SECTION(S)	8

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Zachary Farris
2023.03.24 15:05:52 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
ZACHARY S. FARRIS, P.E. NO. 123387

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN2
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	10A

YEAR	PROJECT NO.	SHEET NO.
2023	93S111-M3-002	ROADWAY-SIGN2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Michael Morris
2023.08.03 10:32:08 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
MICHAEL W. MORRIS, P.E. NO. 107385

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN3
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
TYPICAL SECTIONS	2B

YEAR	PROJECT NO.	SHEET NO.
2023	93S111-M3-002	ROADWAY-SIGN3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Michael Morris
2023.08.21 19:06:20 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
MICHAEL W. MORRIS, P.E. NO. 107385

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN4
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Zachary Farris
2023.08.21 19:07:36 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
ZACHARY S. FARRIS, P.E. NO. 123387

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN4
TRAFFIC CONTROL PLANS	T2

YEAR	PROJECT NO.	SHEET NO.
2023	93S111-M3-002	ROADWAY-SIGN4

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Michael Morris
2023.09.14 09:31:01 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
MICHAEL W. MORRIS, P.E. NO. 107385

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN5
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2

YEAR	PROJECT NO.	SHEET NO.
2023	93S111-M3-002	ROADWAY-SIGN5

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Michael Biggs Digitally signed by Michael Biggs
Date: 2025.09.02 17:03:42 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
MICHAEL A. BIGGS NO. 103970

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN6
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC DESIGN AND STRUCTURES STANDARD DRAWINGS	1A1
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B1, 2B2
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F, 2F1
PRESENT LAYOUT(S)	4
PROPOSED LAYOUT(S)	4A
PROPOSED PROFILE(S)	4B
SR-111 SB PROFILE	5
FRONTAGE ROAD PROFILE	5A
CULVERT SECTION(S)	8
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	10, 11, 12, 13, 13A, 14
TRAFFIC CONTROL PLANS	T1 – T16

YEAR	PROJECT NO.	SHEET NO.
2025	93S111-M3-002	ROADWAY-SIGN6

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Michael Biggs
Digitally signed by Michael Biggs
Date: 2025.09.19 12:17:44 -05'00'

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NEEL-SCHAFFER, INC.
210 25TH AVENUE NORTH
SUITE 800
NASHVILLE, TN 37203
MICHAEL A. BIGGS NO. 103970

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.

YEAR	PROJECT NO.	SHEET NO.
2025	93S111-M3-002	ROADWAY-SIGN7

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

WHITE COUNTY

SR-111,
M22LTR2_C93_SMLSTR_SR111_LM15.76

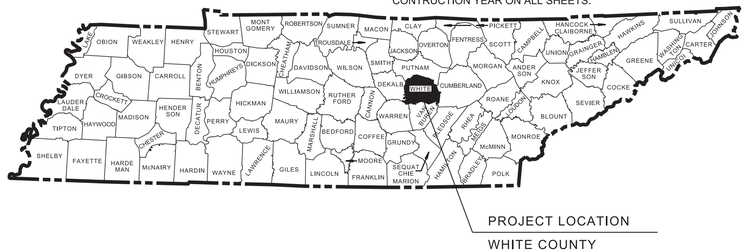
CONSTRUCTION
GRADING, PAVING, DRAINAGE

STATE HIGHWAY NO. 111

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES X	NO

TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	93S111-M3-002	

REV. 03-24-23: REVISED PROJECT TYPE OF WORK.
REV. 08-21-23: ADDED NOTE "PROJECT TO BE LET WITH PIN: 131219.00, PUTNAM COUNTY".
REV. 08-27-25: REMOVED NOTE "PROJECT TO BE LET WITH PIN: 131219.00, PUTNAM COUNTY", VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT, AND REVISED CONTRUCTION YEAR ON ALL SHEETS.



NO EXCLUSIONS

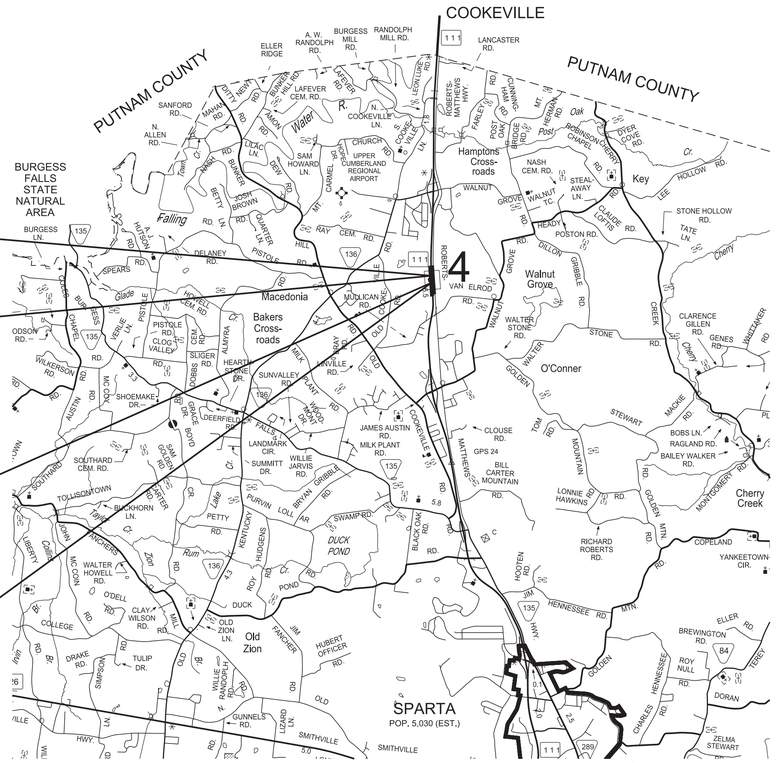
END PROJECT NO. 93S111-M3-002 CONSTRUCTION
STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER)
N 620863.7394 E 2114926.5813

END PROJECT NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 15+61.63
N 621446.9321 E 2113981.6954

PROJECT OF LIMITED SCOPE

BEGIN PROJECT NO. 93S111-M3-002 CONSTRUCTION
STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER)
N 618581.2875 E 2113920.3283

BEGIN PROJECT NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 11+06.46
N 620992.6663 E 2114010.4088



N

SEALED BY
MICHAEL A BIGGS
REGISTERED ENGINEER
AGRICULTURE
NO. 108170
STATE OF TENNESSEE
9/19/25

APPROVED:
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:
WILL REID, 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, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT PROJECT MANAGER: ROB HOWARD
DESIGNED BY : NEEL-SCHAFFER, INC.
DESIGNER : MICHAEL A BIGGS, PE, CPESC CHECKED BY MICHAEL MORRIS, PE
P.E. NO. 93S111-M1-002 (DESIGN)
PIN NO. 132458.00

R.O.W. LENGTH	0.000 MILES
ROADWAY LENGTH	0.422 MILES
PROJECT LENGTH	0.422 MILES

SURVEY 09-22-21	TRAFFIC DATA	
SURVEY UPDATE 05-26-22	ADT (2025)	19,700
SURVEY UPDATE 12-18-24	ADT (2045)	29,200
	DHV (2045)	2,920
	D	57 - 43
	T (ADT)	4 %
	T (DHV)	3 %
	V	70 MPH

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

9/19/2025 9:55:54 AM
Y:\Projects\0015000\0016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\001.sht

ROADWAY INDEX

NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
10-101.00 STANDARDS ROADWAY DRAWINGS		
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-3		SUPERELEVATION TRANSITION DETAILS FOR DIVIDED ROADWAYS
RD11-SE-3A		SUPERELEVATION TRANSITION SECTIONS FOR DIVIDED ROADWAYS
RD11-TS-5	06-28-19	DESIGN STANDARDS FOR FREEWAYS WITH DEPRESSED MEDIAN (4 AND 6 LANE)
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
10-102.00 PIPE CULVERTS AND ENDWALLS		
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PB-4	01-09-24	PIPE COLLAR DETAILS
10-103.00 CATCH BASINS AND MANHOLES		
D-CB-39RB	03-04-21	STANDARD PRECAST CIRCULAR NO. 39 CATCH BASIN
D-CB-39SE	03-04-21	STANDARD 9' X 9' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-99	02-20-20	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
10-105.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		
S-F-1	03-01-23	HIGH VISIBILITY FENCE
10-107.00 SAFETY DESIGN AND GUARDRAILS		
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-6	06-15-21	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-CC-1	03-01-23	CRASH CUSHION
10-108.00 EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-45		CATCH BASIN FILTER ASSEMBLY (TYPE 5)
EC-STR-45A		CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	1A

REV. 03-24-23: REVISED INDEX OF SHEETS.

REV. 08-03-23: REVISED INDEX OF SHEETS AND STANDARD DRAWINGS.

REV. 08-21-23: REVISED INDEX OF SHEETS .

REV. 09-14-23: REVISED INDEX OF SHEETS .

REV. 08-27-25: REVISED INDEX OF SHEETS AND VARIOUS REVISIONS DUE TO SCOPE MODIFICATION.

SEALED BY

MICHAEL A. BIGGS REGISTERED ENGINEER XVI AGRICULTURE COMMERCE NO. 108970 STATE OF TENNESSEE

9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	1A1

REV. 08-27-25: ADDED SHEET.

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-204.00		**DESIGN - TRAFFIC CONTROL**
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-5	01-24-25	MARKING DETAIL FOR FREEWAYS
T-M-8	01-24-25	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-15	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-M-16	01-24-25	RUMBLE STRIPE INSTALLATION LAYOUT
T-M-16A	01-24-25	RUMBLE STRIPE DETAILS FOR EDGE OF PAVEMENT AND CENTERLINE
T-M-18	01-24-25	FLEXIBLE DELINEATOR DETAILS
T-M-18A	01-24-25	DELINEATOR MOUNTING DETAILS
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-26-25	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-16	03-26-25	LANE SHIFT FOR DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-26-25	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-19	03-26-25	MEDIAN CROSS-OVER DETAIL ON FREEWAYS
T-WZ-20	03-26-25	GEOMETRIC MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
T-WZ-21	03-26-25	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-56	03-26-25	TRANSVERSE RUMBLE STRIP USE WITHIN WORK ZONES
T-WZ-60	03-26-25	FREEWAY RESURFACING SIGNING PROCEDURES
T-WZ-61	03-26-25	ROLLING ROADBLOCK DETAIL FOR DIVIDED HIGHWAYS
T-WZ-62	03-26-25	CONSTRUCTION ACCESS/EMERGENCY PULL-OFF ON FREEWAYS
T-WZ-65	03-26-25	LANE CLOSURE WITH LATE MERGE
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR1	03-26-25	INTERCONNECTED PORTABLE BARRIER RAIL
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES
T-WZ-PCB1	03-26-25	10 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	03-26-25	PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
10-301.00		**LRFD BOX CULVERTS**
(See Section 2-600.01)		
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY OF DRAWINGS
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTIONS AND DETAILS
STD-17-6		TYPICAL ELEVATION
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS THAN 45 DEG.
STD-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL AND SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTIONS
STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-26		EXTENSION DETAILS
STD-17-28		END SECTION DETAILS
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-51	05-01-14	BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL

SEALED BY

MICHAEL A BIGGS
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 108970
STATE OF TENNESSEE

9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
TRAFFIC DESIGN
AND
STRUCTURE
DRAWINGS

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 93S111-M3-002
	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
(2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	17737
(19)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	850
(2)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	2254
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	3103
(19)	203-05	UNDERCUTTING	C.Y.	482
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	1284
(18),(19)	204-08	FOUNDATION FILL MATERIAL	C.Y.	126
(15)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	57
(3) (4)	209-03.21	FILTER SOCK (12 INCH)	L.F.	2200
(3) (4)	209-05	SEDIMENT REMOVAL	C.Y.	98
(3) (4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	235
(3) (4)(15)	209-09.01	SANDBAGS	BAG	170
(3) (4)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
(3) (4)(15)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	500
(3) (4)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	5
(3) (4)	209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	1
(3) (4)	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	1
(2) (3) (5)	209-65.01	TEMPORARY STREAM DIVERSION (INSTREAM DIVERSION)	LS	1
(17)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	12266
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	887
(3) (4)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	88
	303-10.07	MINERAL AGGREGATE (SIZE 4)	TON	57
(17)	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	1804
(17)	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	1183
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT	TON	2
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	6
(17)	403-01	BITUMINOUS MATERIAL FOR TACK COAT	TON	24
	411-01.07	ACS MIX(PG64-22) GRADING E SHOULDER	TON	356
(17)	411-02.10	ACS MIX(PG70-22) GRADING D	TON	1941
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16 IN WIDTH)	L.M.	1.89
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	980
(14)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	5
(14)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	753
(16)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	250
(13)	607-50.12	PRECAST CONCRETE BOX CULVERT (6' X 3')	L.F.	258
	611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	2
(7)	611-09.03	CAPPING EXISTING CATCHBASIN	EACH	2
	611-39.02	CATCH BASINS, TYPE 39, 4' - 8' DEPTH	EACH	1
(6)	611-39.03	CATCH BASINS, TYPE 39, > 8' - 12' DEPTH	EACH	1
(3) (4)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	270
(3) (4)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1900
(3) (4)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	166
(3) (4)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	76
	712-01	TRAFFIC CONTROL	LS	1
	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	6750
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	8
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200
	712-04.50	BARRIER RAIL DELINEATOR	EACH	338
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	40
	712-06	SIGNS (CONSTRUCTION)	S.F.	1337
	712-08.03	ARROW BOARD (TYPE C)	EACH	4
	712-08.08	SPEED FEEDBACK SIGN ASSEMBLY	EACH	2
	712-08.09	DIGITAL SPEED LIMIT SIGN ASSEMBLY	EACH	12
	712-10.02	TEMPORARY TRANSVERSE RUMBLE STRIPS	L.F.	480
(8)	713-15.35	METAL BARRICADES (TYPE III)	EACH	8
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	65
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	65

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 93S111-M3-002
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	1.24
	716-05.49	PAINTED PAVEMENT MARKINGS (8" LINE)	L.M.	5.28
	716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	0.74
(12)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	2.13
	717-01	MOBILIZATION	LS	1
(3) (4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	829
(19)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	579
(3) (4)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1080
(3) (4)	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	2.5
(3) (4) (9)	801-02.08	TEMPORARY SEEDING (WITHOUT MULCH)	UNIT	474
(3) (4) (10)	801-03	WATER (SEEDING & SODDING)	M.G.	377
(3) (4)	803-01	SODDING (NEW SOD)	S.Y.	32904
	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	35009
(3) (4)	805-12.08	700 GRAM COIR FIBER EROSION BLANKET	S.Y.	280
(11)	806-02.03	PROJECT MOWING	CYCL	1

FOOTNOTES

(1) REFER TO SHEET 2F1 FOR TABULATION. SALVAGE SHALL BECOME PROPERTY OF THE CONTRACTOR.

(2) SEE SPECIAL NOTES ON SHEET 2D. INCLUDES CULVERT AND CHANNEL EXCAVATION (UNCLASSIFIED). NOTE: INCLUDES 36 C.Y. FOR EPSC MEASURES.

(3) SEE SUBSECTION 209.07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

(4) TO BE USED AS DIRECTED BY THE ENGINEER.

(5) INSTREAM DIVERSION TO INCLUDE ANY AND ALL ITEMS NECESSARY TO PREVENT WATER FROM ENTERING THE WORK AREA FROM EITHER END OF PIPEs AND/OR WETLAND AREA.

(6) CONTRACTOR SHALL MODIFY CATCH BASIN BOTTOM AS NEEDED TO ACCEPT THE EXISTING SPRING/SPRING BOX LOCATION.

(7) TEMPORARY COVER INCLUDES CAPPING FOR MEDIAN CROSSOVER AND RESTORING TO EXISTING CONDITION.

(8) SEE SHEET NO. T-2 FOR CONSTRUCTION SIGN TABULATION.

(9) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

(10) INCLUDES 53 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(11) 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 PER CYCLE.

(12) ITEM TO BE USED TO REPLACE EXISTING EDGE LINES DAMAGED BY CONSTRUCTION ACTIVITIES.

(13) NOT USED.

(14) TO BE USED FOR PRECAST BOX CULVERT WINGWALLS, EDGE BEAMS/HEADERS, FOOTINGS, ETC. SEE STD. DWG. STD-17-29.

(15) TO BE USED TO PLUG EXISTING STORM PIPES AS SHOWN IN THE PLANS.

(16) INCLUDES PIPE COLLARS AS NECESSARY.

(17) SEE SHEET 2F1 FOR PAVEMENT QUANTITIES FOR MEDIAN CROSSOVER TRAFFIC CONTROL.

(18) INCLUDES 17 C.Y. OF FOUNDATIONAL FILL FOR GEOTECH.

(19) SEE GEOTECH SHEETS FOR ITEM TABULATION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	2

REV. 08-21-23: REVISED QUANTITIES FOR ITEM NOS. 105-01, 201-01, 712-01, AND 717-01.

REV. 09-14-23: REVISED DESCRIPTION FOR ITEM NO. 707-06.01.

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

REV. 09-19-25: DELETED ITEM NO. 712-07.03. ADDED ITEM NO. 713-15.35.

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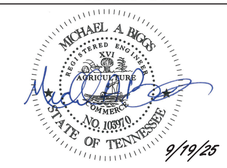
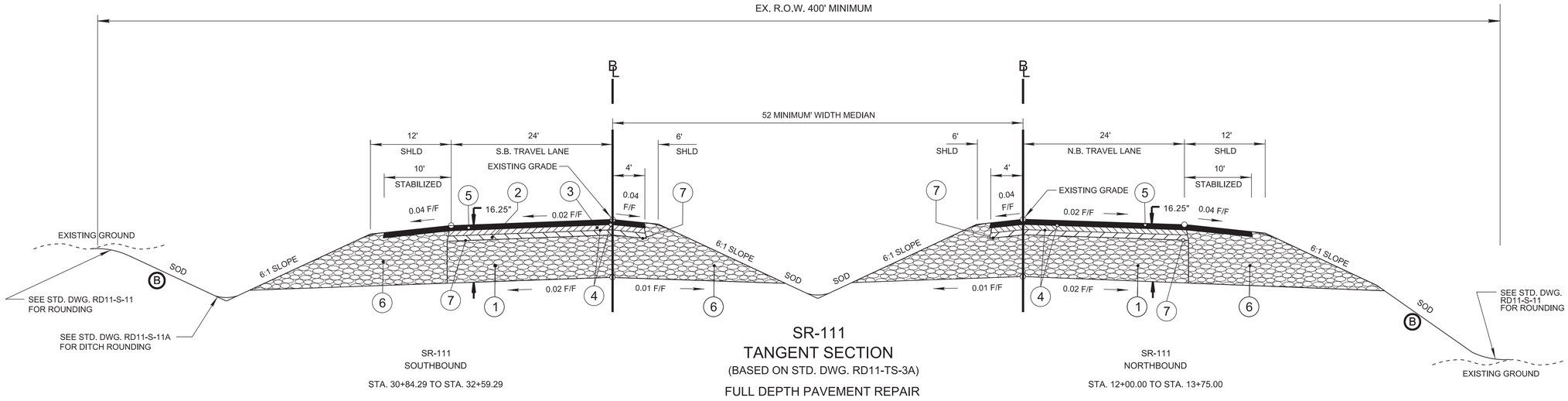


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	2B1

REV. 05-08-25: ADDED SHEET.



SR-111
SOUTHBOUND
STA. 30+84.29 TO STA. 32+59.29

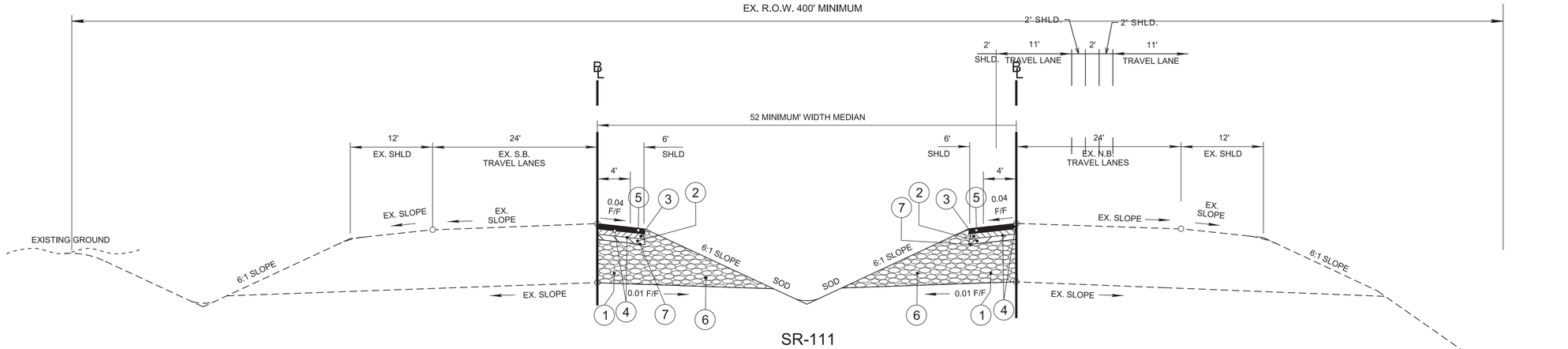
SR-111
TANGENT SECTION
(BASED ON STD. DWG. RD11-TS-3A)

FULL DEPTH PAVEMENT REPAIR

SR-111
NORTHBOUND
STA. 12+00.00 TO STA. 13+75.00

Ⓐ CONTRACTOR SHALL CAP/PLUG REMAINING EXISTING UNDERDRAIN PIPES AFTER EXCAVATION FOR PROPOSED BOX CULVERT COMPLETED.

Ⓑ SEE STANDARD DRAWINGS RD11-S-11 AND RD11-S-11B FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, SPECIAL ROCK TREATMENT AND SUB GRADE ROUNDING IF APPLICABLE.



SR-111
SOUTHBOUND
STA.20+00.00 TO STA.41+42.77 (LT) Ⓒ

SR-111
TANGENT SECTION
(BASED ON STD. DWG. RD11-TS-3A)

FULL DEPTH SHOULDER REPAIR

STA. 12+00 TO STA. 13+75

SR-111
NORTHBOUND
STA.1+46.44 TO STA.22+69.32 (RT) Ⓒ

Ⓒ STATION LIMITS ARE APPROXIMATE. STATION LIMITS SHALL BE DETERMINED BY THE CONTRACTOR UPON CONSTRUCTION OF THE MEDIAN CROSSOVER.

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
STATE OF TENNESSEE
NO. 109910
9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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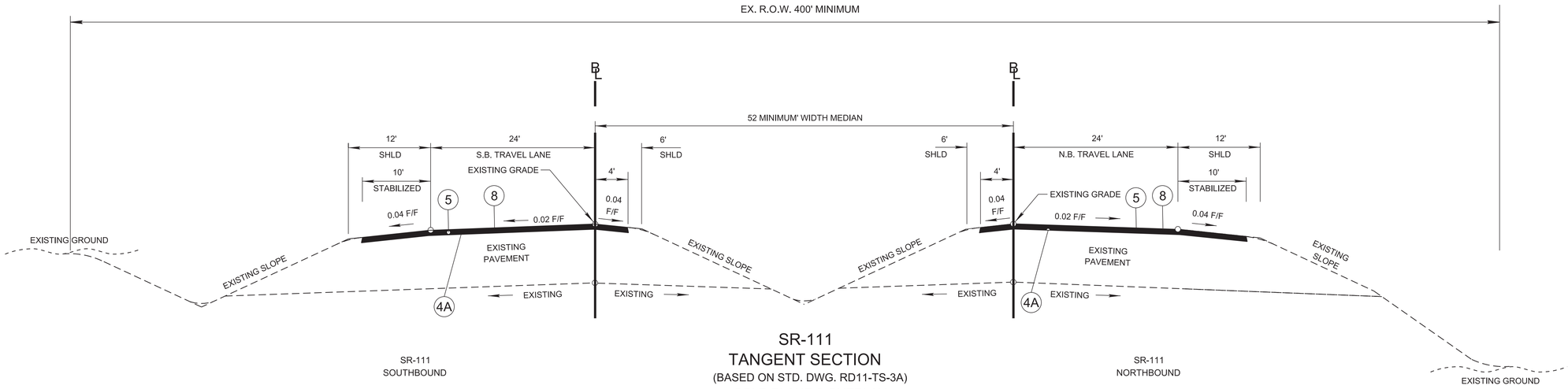

SR-111
SOUTHBOUND

SR-111
TANGENT SECTION
(BASED ON STD. DWG. RD11-TS-3A)
COLD PLANE & OVERLAY

SR-111
NORTHBOUND

STA. 24+84.29 TO STA. 30+84.29
STA. 32+59.29 TO STA. 37+84.29 (A)

STA. 6+00.00 TO STA. 12+00.00
STA. 13+75.00 TO STA. 19+00.00 (A)

(A) STATION LIMITS ARE APPROXIMATE. STATION LIMITS SHALL BE DETERMINED BY THE CONTRACTOR UPON CONSTRUCTION OF THE MEDIAN CROSSOVER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	2B-2

REV. 08-27-25: ADDED SHEET. VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE 10" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	**(5) ASPHALTIC CONCRETE SURFACE (HOT MIX) PG70-22 GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.)** 411-02.10 ACS MIX (PG70-22) GRADING "D"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) PG70-22 GRADING "A" @ 3.00" THICK (APPROX. 345 LB./S.Y.) 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"	**(6) MINERAL AGGREGATE 16.25" THICK** 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"
(3) BITUMINOUS PLANT MIX BASE (HOT MIX) PG70-22 GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.) 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"	**(7) PRIME COAT** 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.35 GALLONS/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) AT 12 LB./S.Y.
(4) TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GALLONS/S.Y.	**(8) COLD PLANING BITUMINOUS PAVEMENT** 415-01.01 COLD PLANING BITUMINOUS PAVEMENT @ 1.25" THICK
(4A) TACK COAT (FOR COLD PLANING AREAS) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.10 GALLONS/S.Y.	**(9) ASPHALTIC CONCRETE SURFACE (HOT MIX) PG64-22 GRADING "E" SHOULDERS @ 1.25" THICK (APPROX. 132.5 LB./S.Y.)** 411-01.07 ACS MIX (PG64-22) GRADING "E" SHOULDER

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
No. 109910
STATE OF TENNESSEE
9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	2C

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

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

(3) ITEM NO. 803-01, SOODING (NEW SOD), SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

DRAINAGE

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

(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 IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT WILL BE MADE DUE TO SUCH CHANGE.

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

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

FENCING

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

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

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

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

MISCELLANEOUS

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

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

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

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

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

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

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

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

(9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
No. 108170
STATE OF TENNESSEE
9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	2D

SPECIAL NOTES

GRADING

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

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

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

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

(5) EARTHWORK IS PAID FOR UNDER ITEM NO. 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.

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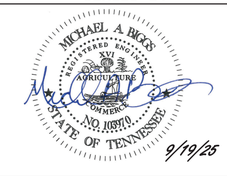

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

ENVIRONMENTAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

(1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

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

(4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.

(7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.

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

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

SPECIES

(10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.

(11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

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

PERMITS, PLANS & RECORDS

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

(14) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

(17) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

SUPPORT ACTIVITIES

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

STREAMS, WETLANDS & BUFFER ZONES

ENVIRONMENTAL

(20) 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.

ENVIRONMENTAL SPECIAL NOTES

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.

SCOPE OF WORK

(5) INSTALLATION OF A CONCRETE BOX CULVERT TO REPLACE TWO PIPES UNDER EXISTING SR-111; A 4-LANE, MEDIAN DIVIDED ARTERIAL ROADWAY.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	2E
CONST.	2025	93S111-M3-002	2E

REV. 08-27-25: REVISED SCOPE OF WORK.

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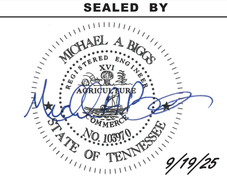

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
SR-111 BOX CULVERT	10376	10376	8820
TEMPORARY MEDIAN CROSSOVERS	4222	3993	3589
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0	
TOPSOIL (EMB.)	2571		
TOPSOIL (EXC.)	532		
TOPSOIL TOTALS (SEE TOPSOIL TABLE)			

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	17701	14369	17701	14598	12409

BALANCE SUMMARY

SHRINK = 15 % SWELL = 15 %

EMB.		EXC.
14369	VS.	-12409
AVAILABLE	=	1960
BORROW MATERIAL	=	2254

NOTE: SEE GRADING SPECIAL NOTES ON 2D

CONTRACTOR SHALL USE SELECT MATERIAL FOR BACKFILLING OF PROPOSED BOX CULVERT AND SHALL COORDINATE WITH TDOT REGION 2 DESIGN AND GEOTECH OFFICES FOR RECOMMENDATION.

TOPSOIL

IF EXISTING TOPSOIL IS SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
236894	532	2571	3103	4387	3103	1284	0

STORM DRAINAGE PIPES

SHEET NO.	FROM		TO		% GRADE	RCP CLASS III 607-06.02 30" (L.F.)
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		
4A	CB-2	971.58	CB-1	970.80	0.34	229
4A	EX. PIPE	970.95	CB-1	970.80	0.19	21
TOTALS						**250**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	2F
CONST.	2025	93S111-M3-002	2F

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

BOX CULVERT \ BRIDGE TABULATION

STATION	LOCATION	TYPE BOX	TYPE SLAB	SKEW	NO. BARRELS	WIDTH	HEIGHT	LENGTH	DRAINAGE AREA ACRES	STANDARD DRAWING NO.	PRECAST CONC. BOX CULV. (6' X 3') 607-50.12 L.F.	CULVERT ≤ 20 FT. CLASS "A" CONCRETE 604-01.01 CU. YD.	CULVERT ≤ 20 FT. STEEL BAR REINF. 604-01.02 LB.	STD. DWG. STD-17-17 & 18 FOUNDATION FILL MATERIAL 204-08 CU. YD.	STD. DWG. STD-17-17 & 18 GRANULAR BACKFILL 303-01.01 TONS	CULVERT EXC. ▲ CU. YD.
12+70.98	SR-111	X		85º	1	6	3	258	7.52 SQ. MI.	STD-17-51	258	5.00	753	109	887	10376
TOTALS											**258.00**	**5.00**	**753**	**109**	**887**	**10376**

▲ ALL COST OF CULVERT EXCAVATION WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

CATCH BASINS, MANHOLES AND SPRING BOXES

	SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 39 611-39.02 4' - 8'	PAY ITEMS TYPE 39 611-39.03 8' - 12'
(2)	4A	SR-111 NB	12+94.87	81.45	CB-1	979.57	#39	9'X4'	8.77	D-CB-39SE		1
	4A	SR-111 NB	15+24.25	83.27	CB-2	978.97	#39	4'X4'	7.39	D-CB-39S	1	
	TOTALS										1	1

(2) CONTRACTOR TO MODIFY BOTTOM OF BOX AS NEEDED TO CAPTURE EXISTING SPRING.

FLOWABLE FILL FOR EXIST. PIPES (1)

LOCATION	30 IN PIPE LENGTH	BACKFILL MATERIAL (FLOWABLE FILL) 204-08.01 C.Y.
14+52.52	310	57.0
TOTALS		57.0

(1) ALL PIPES DESIGNATED TO BE ABANDONED SHALL BE FILLED WITH FLOWABLE FILL.

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MICHAEL A. BIGGS REGISTERED ENGINEER No. 109910 STATE OF TENNESSEE

9/19/25

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	2F1

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

REMOVAL OF STRUCTURES (ITEM NO. 202-01)

SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
4	12+72.33	185.27 LT	ENDWALL	
4	12+88.14	0.00 RT	30" ST CMP - 248 L.F.	
4	12+94.87	81.45 RT	30" ST - 30 L.F.	
4	12+94.87	81.45 RT	CATCH BASIN	
4	12+96.44	179.55 LT	ENDWALL	

FOOTNOTE:
ALL ITEMS PAID FOR UNDER ITEM NO. 202-01 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS LS.

PAVEMENT MARKING QUANTITIES

LOCATION	PAY ITEMS 716-12.02 6"ENHAN THERMO L.M.
S.R. 111	2.13
TOTALS	**2.13**

PAVEMENT QUANTITIES

LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON)								
	MINERAL AGG.	BITUMINOUS PLANT MIX BASE (HOT MIX)		PRIME COAT		TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX)		
		PG-70-22					PG-64-22	PG 70-22	
	D	A	B-M2	COAT		COAT	E	D	COLD-PLANE
	303-01	307-02.01	307-02.08	402-01	402-02	403-01	411-01.07	411-02.10	415-01.01
SR-111	1186.0	172.0	113.0	2.0	6.0	18.0	356.0	1055.0	980.0
SB CROSSOVER	5540.0	816.0	535.0			3.0		443.0	
NB CROSSOVER	5540.0	816.0	535.0			3.0		443.0	
TOTALS	**12266**	**1804**	**1183**	**2**	**6**	**24.0**	**356**	**1941**	**980**

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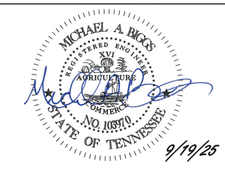

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	3
CONST.	2025	93S111-M3-002	3

UTILITY

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. 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 ITS 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. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

UTILITY OWNERS

CATV / FIBER:
BEN LOWMAND CONNECT
P.O. BOX 670 MCMINNVILLE, TN 37111
311 N. CHANCERY ST. MCMINNVILLE TN 37110
CONTACT: MR. RICHARD BOYD

OFFICE PHONE: 931 668 6692
Email:

ELECTRIC:
CANEY FORK ELECTRIC COOPERATIVE, INC.
P.O. BOX 272, MCMINNVILLE TN 37111
920 SMITHVILLE HWY, MCMINNVILLE TN 37110
CONTACT: MR. WILLIAM ROGERS
OFFICE PHONE: 931 473 3116

Email:

GAS:
MIDDLE TENNESSEE NATURAL GAS
P.O. 670, SMITHVILLE, TN 37166
1030 WEST BROAD ST., SMITHVILLE TN 37166
CONTACT: MR. JOHN MULLEN
OFFICE PHONE: 615 597 0515
CELL PHONE:
Email:

TELEPHONE:
BEN LOWMAND CONNECT
P.O. BOX 670, MCMINNVILLE TN 37111
311 N. CHANCERY ST., MCMINNVILLE TN 37110
CONTACT: MR. RICHARD BOYD
OFFICE PHONE: 931 668 6692
CELL PHONE:
Email:

WATER:
O'CONNOR UTILITY DISTRICT
250 SUMMITT DRIVE, SPARTA TN 38583
4210 ROBT. MATTHEWS HWY, SPARTA TN 38583
CONTACT: MR. TONY MAGGART, II
OFFICE PHONE: 931 761 7074
Email:

SEWER:
SPARTA PUBLIC WORKS
P.O. BOX 468, SPARTA TN 38583
545 BOCKMAN WAY, SPARTA TN 38583
CONTACT: PUBLIC WORKS DIRECTOR
DILLARD QUICK
OFFICE PHONE: 931 738 2281
CELL PHONE: 931 212 7231 931 738 2281
Email: spartapublicworks@blomand.net

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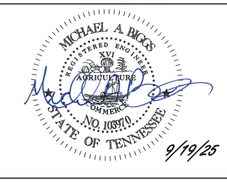

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
NOTES,
UTILITY NOTES
AND
UTILITY OWNERS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	3A
CONST.	2025	93S111-M3-002	3A

REV. 08-27-25: REVISED DISTURBED AREA TABLE.

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		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	SLOPE	CONST	AIR RIGHTS	PERM RAILROAD
				BOOK	PAGE													
	NO PROPERTY INFO REQUIRED																	
ACQUISITION TOTALS (ACRES)																		

DISTURBED AREA

STAGE 1 DISTURBED AREA	2.140 (AC)
STAGE 2 DISTURBED AREA	2.020 (AC)
TOTAL DISTURBED AREA	**4.160 (AC)**
TOTAL PROJECT AREA	**4.160 (AC)**

NOTE: DISTURBED AREA IS DEPENDENT ON TRAFFIC CONTROL PHASING OF MEDIAN CROSS-OVERS AND SHALL BE STABILIZED BETWEEN PHASES AND CONTRACTOR SHALL HAVE NO MORE THAN 3 AC OF DISTURBANCE AT ONE TIME.

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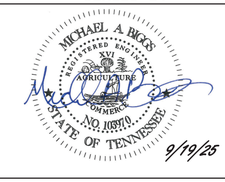


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP
AND
RIGHT-OF-WAY
ACQUISITION
TABLE

9/19/2025 10:08:25 AM
Y:\Projects\0015000\0016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\003A.SHT

LEGEND	
SYMBOL	ITEM
———	CUT SLOPE
—·—·—	LIMIT OF DISTURBANCE

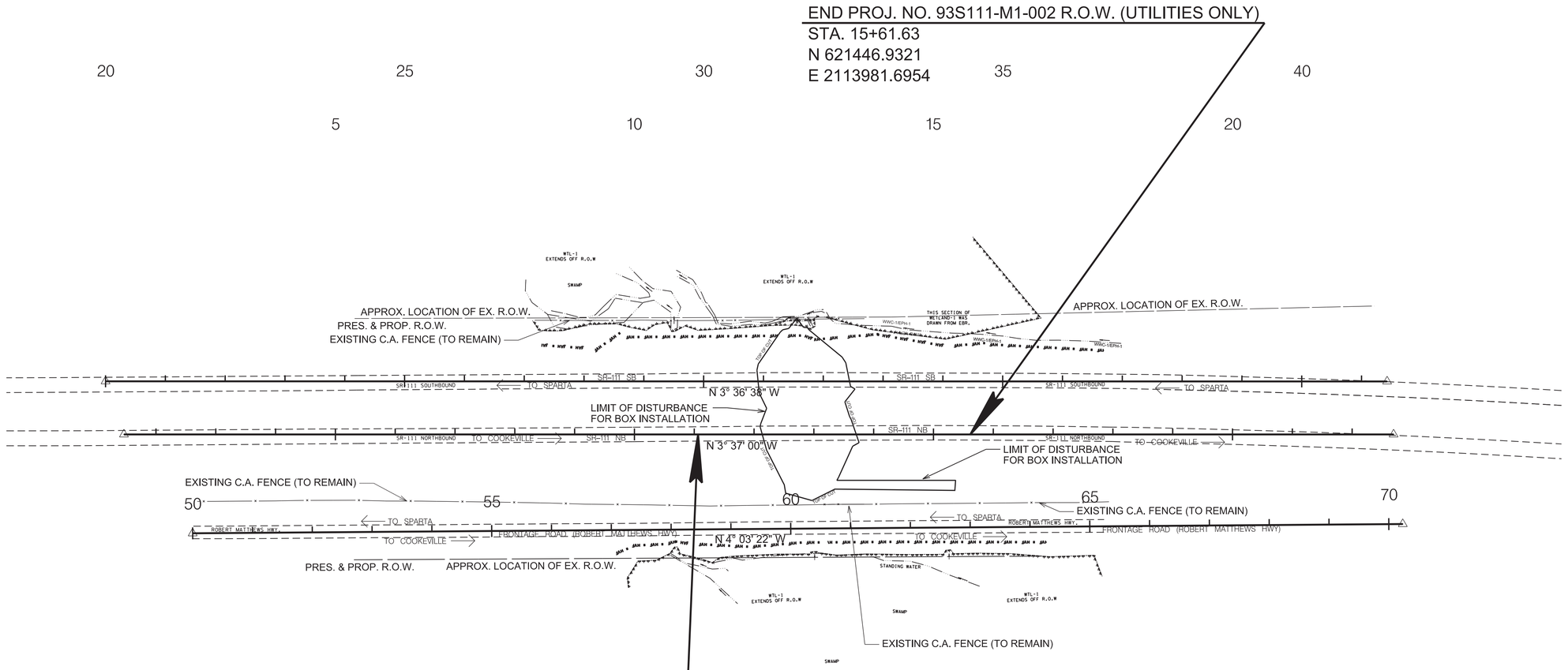
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	3B
CONST.	2025	93S111-M3-002	3B

REV. 12-19-22: REVISED PERMANENT WETLAND IMPACT AREA AND REMAINING WETLAND LIMIT.

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

END PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 15+61.63
N 621446.9321
E 2113981.6954



BEG. PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 11+06.46
N 620992.6663
E 2114010.4088

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
No. 109170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

SCALE: 1"=100'

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LEGEND	
SYMBOL	ITEM
———	CUT SLOPE
—·—·—	LIMIT OF DISTURBANCE

NOTE:
EX. R.O.W. LINE LOCATIONS ARE APPROXIMATED BASED ON PREVIOUS ROADWAY PLANS AND NOT SURVEYED.

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.012 AC.
	VOLUME OF PERMANENT IMPACT = 9.69 C.Y.
	AREA OF TEMPORARY IMPACT = 0.011 AC.
	VOLUME OF TEMPORARY IMPACT = 8.31 C.Y.

N

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	4
CONST.	2025	93S111-M3-002	4

REV. 12-19-22: REVISED PERMANENT WETLAND IMPACT AREA.

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

END PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 15+61.63
N 621446.9321
E 2113981.6954

BEG. PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 11+06.46
N 620992.6663
E 2114010.4088

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STA.	OFF.
SO1	621599.8140	2114146.2610	985.12	17+03.82	173.88
SO2	620789.5050	2114202.6480	985.09	8+91.57	179.04

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
No. 109870
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

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NOTE:
1. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING THE HAUL ROADS IF APPLICABLE.

2. HIGH VISABILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED PORTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

3. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WETLAND (WTL-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERITTMED LOCATIONS.

4. REMOVE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE.

5. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETE, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING HAUL ROADS (IF APPLICABLE). RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION, AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE.

6. THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED WITH WETLAND SEED MIXTURE 801-01-36 ONLY.

7. WETLAND AREA LOCATED OUTSIDE THE PROPOSED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS ARE TO BE CLEARLY MARKED AND NOT TO BE DISTURBED.

8. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

NOTE:
EX. R.O.W. LINE LOCATIONS ARE APPROXIMATED BASED ON PREVIOUS ROADWAY PLANS AND NOT SURVEYED.

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.012 AC. VOLUME OF PERMANENT IMPACT = 9.69 C.Y.
	AREA OF TEMPORARY IMPACT = 0.011 AC. VOLUME OF TEMPORARY IMPACT = 8.31 C.Y.

N

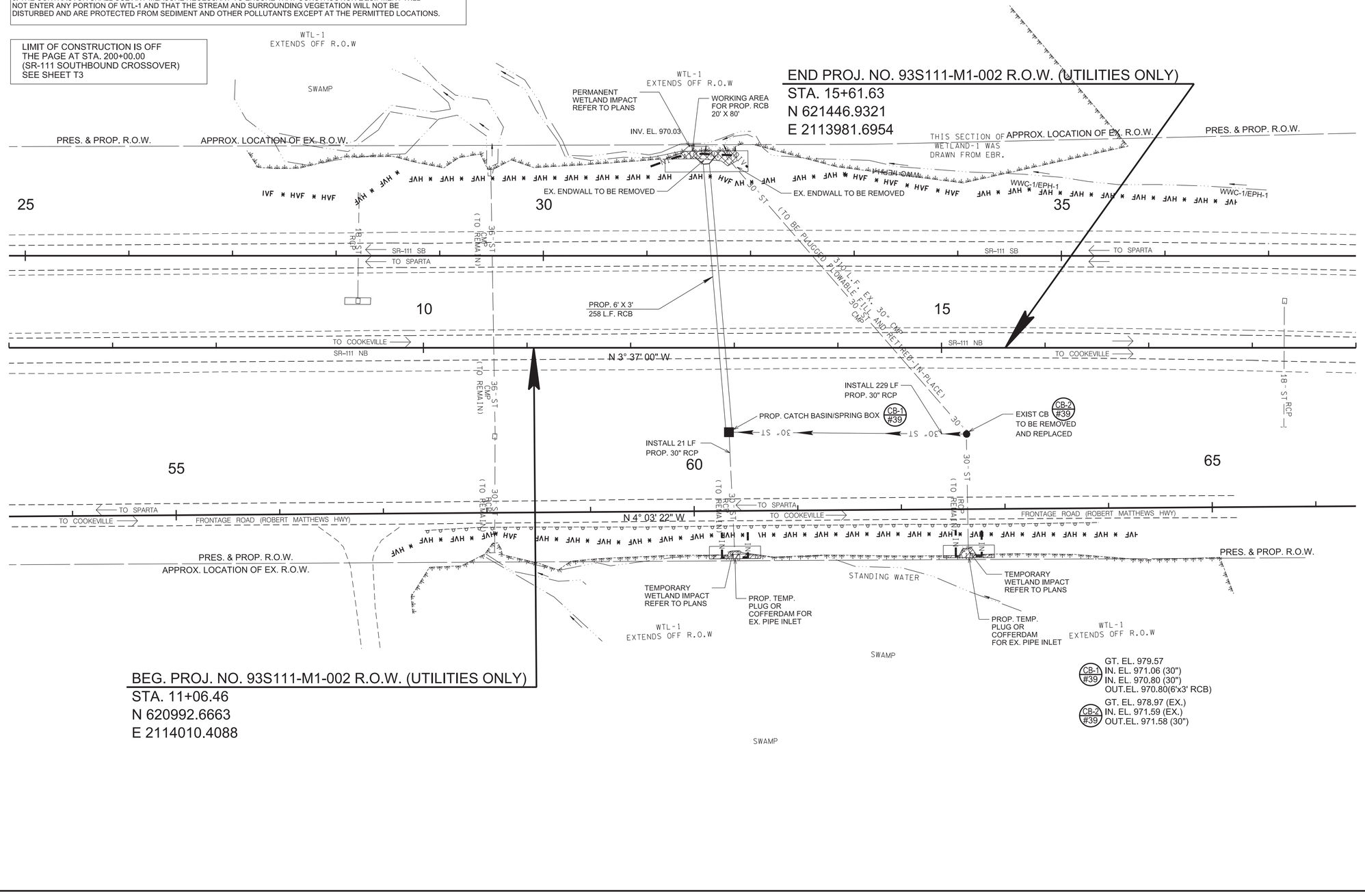
LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	4A
CONST.	2025	93S111-M3-002	4A

REV. 12-19-22: REVISED REMAINING WETLAND LIMIT. REMOVED NOTE REGARDING REMOVAL OF TOPSOIL IN TEMPORARY IMPACT AREAS.

REV. 06-25-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.



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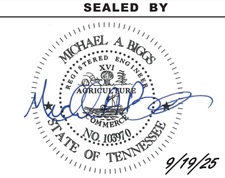

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

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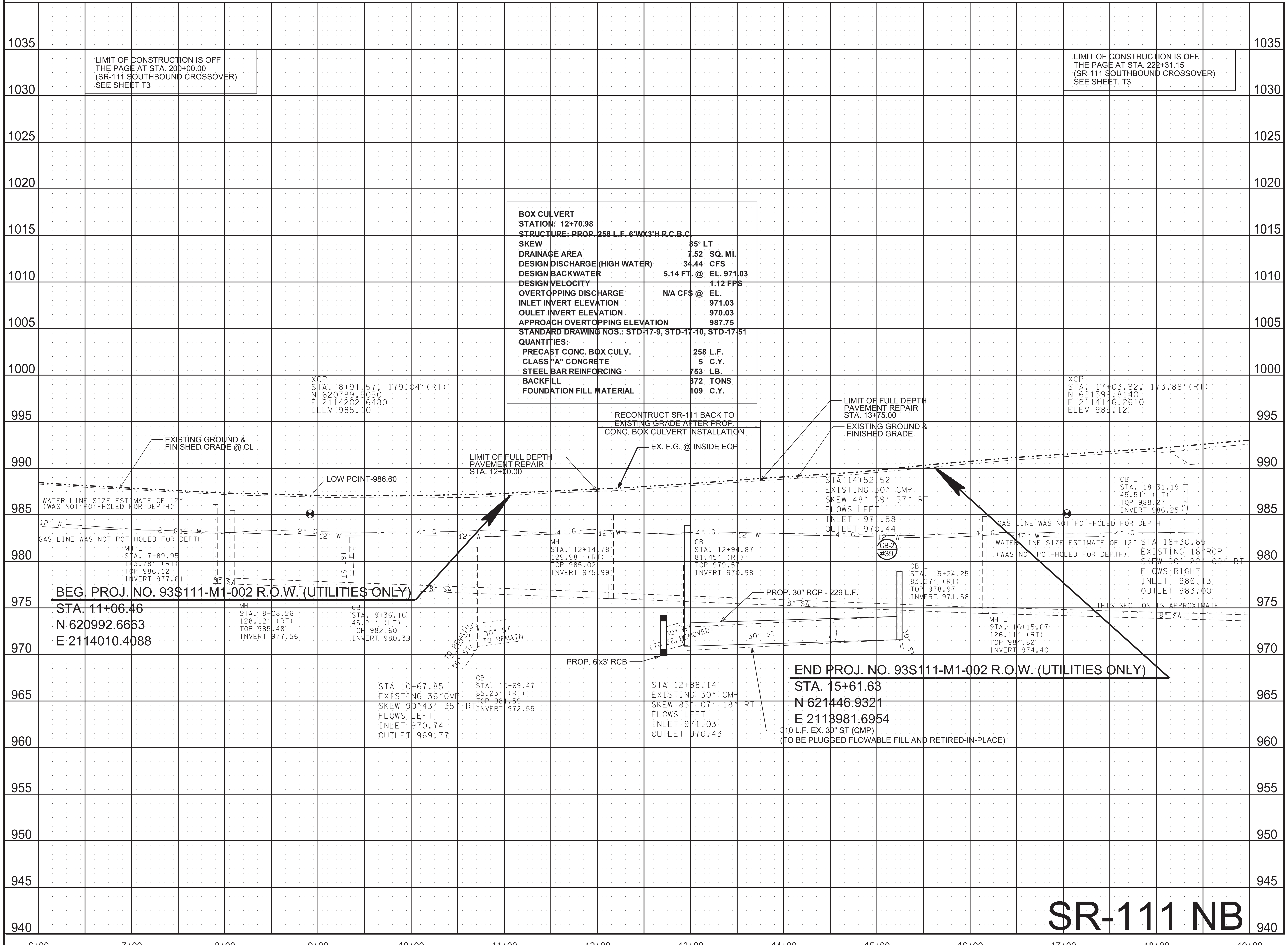
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	4B
CONST.	2025	93S111-M3-002	4B

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.



LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3
LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3
BOX CULVERT
STATION: 12+70.98
STRUCTURE: PROP. 258 L.F. 6'WX3'H R.C.B.C.
SKEW 85° LT
DRAINAGE AREA 7.52 SQ. MI.
DESIGN DISCHARGE (HIGH WATER) 34.44 CFS
DESIGN BACKWATER 5.14 FT. @ EL. 971.03
DESIGN VELOCITY 1.12 FPS
OVERTOPPING DISCHARGE N/A CFS @ EL.
INLET INVERT ELEVATION 971.03
OULET INVERT ELEVATION 970.03
APPROACH OVERTOPPING ELEVATION 987.75
STANDARD DRAWING NOS.: STD-17-9, STD-17-10, STD-17-51
QUANTITIES:
PRECAST CONC. BOX CULV. 258 L.F.
CLASS "A" CONCRETE 5 C.Y.
STEEL BAR REINFORCING 753 LB.
BACKFILL 872 TONS
FOUNDATION FILL MATERIAL 109 C.Y.
XCP STA. 8+91.57, 179.04'(RT) N 620789.5050 E 2114202.6480 ELEV 985.10
XCP STA. 17+03.82, 173.88'(RT) N 621599.8140 E 2114146.2610 ELEV 985.12
RECONTRUCT SR-111 BACK TO EXISTING GRADE AFTER PROP. CONC. BOX CULVERT INSTALLATION
LIMIT OF FULL DEPTH PAVEMENT REPAIR STA. 13+75.00
EXISTING GROUND & FINISHED GRADE
EXISTING GROUND & FINISHED GRADE @ CL
EX. F.G. @ INSIDE EOP
LIMIT OF FULL DEPTH PAVEMENT REPAIR STA. 12+00.00
LOW POINT-986.60
WATER LINE SIZE ESTIMATE OF 12" (WAS NOT POT-HOLED FOR DEPTH)
GAS LINE WAS NOT POT-HOLED FOR DEPTH
MH STA. 7+89.95 143.78' (RT) TOP 986.12 INVERT 977.61
MH STA. 8+08.26 128.12' (RT) TOP 985.48 INVERT 977.56
CB STA. 9+36.16 45.21' (LT) TOP 982.60 INVERT 980.39
MH STA. 12+14.76 129.98' (RT) TOP 985.02 INVERT 975.99
CB STA. 12+94.87 81.45' (RT) TOP 979.57 INVERT 970.98
STA 14+52.52 EXISTING 30" CMP SKEW 48° 59' 57" RT FLOWS LEFT INLET 971.58 OUTLET 970.44
CB-2 #39
CB STA. 15+24.25 83.27' (RT) TOP 978.97 INVERT 971.58
CB STA. 18+31.19 45.51' (LT) TOP 988.27 INVERT 986.25
GAS LINE WAS NOT POT-HOLED FOR DEPTH
WATER LINE SIZE ESTIMATE OF 12" (WAS NOT POT-HOLED FOR DEPTH)
STA 18+30.65 EXISTING 18"RCP SKEW 90° 22' 09" RT FLOWS RIGHT INLET 986.13 OUTLET 983.00
THIS SECTION IS APPROXIMATE
MH STA. 16+15.67 126.11' (RT) TOP 984.82 INVERT 974.40
BEG. PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 11+06.46
N 620992.6663
E 2114010.4088
PROP. 30" RCP - 229 L.F.
30" ST (TO BE REMOVED)
30" ST TO REMAIN
36" ST TO REMAIN
PROP. 6'x3' RCB
END PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 15+61.63
N 621446.9321
E 2113981.6954
STA 10+67.85 EXISTING 36"CMP SKEW 90°43' 35" RT FLOWS LEFT INLET 970.74 OUTLET 969.77
CB STA. 10+69.47 85.23' (RT) TOP 981.59 INVERT 972.55
STA 12+88.14 EXISTING 30" CMP SKEW 85° 07' 18" RT FLOWS LEFT INLET 971.03 OUTLET 970.43
310 L.F. EX. 30" ST (CMP) (TO BE PLUGGED FLOWABLE FILL AND RETIRED-IN-PLACE)
SR-111 NB

SEALED BY
MICHAEL A. BIGGS, REGISTERED ENGINEER, STATE OF TENNESSEE, NO. 109770
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 6+00 TO STA. 19+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	5
CONST.	2025	93S111-M3-002	5

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

XCP
STA. 27+75.89, 267.82'(RT)
N 620789.5050
E 2114202.6480
ELEV 985.10

XCP
STA. 35+88.14, 262.57'(RT)
N 621599.8140
E 2114146.2610
ELEV 985.12

EXISTING GROUND & FINISHED GRADE

LIMIT OF FULL DEPTH PAVEMENT REPAIR STA. 30+84.29

RECONTRUCT SR-111 BACK TO EXISTING GRADE AFTER PROP. CONC. BOX CULVERT INSTALLATION

LIMIT OF FULL DEPTH PAVEMENT REPAIR STA. 32+59.29

EX. F.G. @ INSIDE EOP

CB -
STA. 28+21.18
43.50' (RT)
TOP 982.64
INVERT 980.49

18" ST

STA 28+21.46
EXISTING 18"RCP
SKEW 90° 43' 35" RT
FLOWS LEFT
INLET 980.44
OUTLET 978.42

CB -
STA. 29+53.16
174.20' (RT)
TOP 981.55
INVERT 970.71

36" ST

STA 29+50.67
EXISTING 36"CMP
SKEW 89° 02' 52" RT
FLOWS LEFT
INLET 970.74
OUTLET 969.77

CB -
STA. 31+79.18
170.19' (RT)
TOP 979.57
INVERT 970.98

PROP. 6'x3' RCB

30" ST

STA 31+64.86
EXISTING 30" CMP
SKEW 85° 06' 56" RT
FLOWS LEFT
INLET 971.03(PIPE TORN OUT)
OUTLET 970.43

30" ST

CB -
STA. 34+08.56
171.38' (RT)
TOP 978.97
INVERT 971.58

STA 32+59.68
EXISTING 30" CMP
SKEW 48° 59' 33" RT
FLOWS LEFT
INLET 971.58
OUTLET 970.44

310 L.F. EX. 30" ST (CMP)
(TO BE PLUGGED FLOWABLE FILL AND RETIRED-IN-PLACE)

1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970 965 960 955 950 945 940

25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00

SR-111 SB

SEALED BY

MICHAEL A. BOGGS
REGISTERED ENGINEER
NO. 109170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDE ROAD PROFILE

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	5A

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

XCP
STA. 56+30.07, 18.50'(RT)
N 620789.5059
E 2114202.6480
ELEV 985.10

XCP
STA. 64+42.34, 19.58'(RT)
N 621599.8140
E 2114146.2610
ELEV 985.12

WATER LINE SIZE ESTIMATE OF 12" LINE WAS DROPPED 3' (WAS NOT POT-HOLED FOR DEPTH)

8" F.M.S. WAS DROPPED 5' (NOT POT HOLED FOR DEPTH)

GAS LINE WAS DROPPED 2.5' (WAS NOT POT-HOLED FOR DEPTH)

ROAD GRADE

MH -
STA. 55+28.72
17.53' (LT)
TOP 986.12
INVERT 977.61

MH -
STA. 55+47.15
33.05' (LT)
TOP 985.48
INVERT 977.56

INSTA. 56+50.79
12" WATER LINE

CB -
STA. 57+11.94
73.74' (LT)
TOP 981.55
INVERT 970.71

STA 58+07.56
EXISTING 30" RCP
SKEW 90° 36' 17" RT
FLOWS RIGHT
INLET 970.83
OUTLET 970.79

MH -
STA. 59+53.65
28.07' (LT)
TOP 985.02
INVERT 975.99

STA 60+37.15
EXISTING 30" RCP
SKEW 87° 43' 07" RT
FLOWS LEFT
INLET 970.77
OUTLET TORN OUT OR CRUSHED

CB -
STA. 62+63.46
72.41' (LT)
TOP 978.97
INVERT 971.58

STA 62+83.89
EXISTING 30" RCP
SKEW 89° 27' 27" RT
FLOWS RIGHT
INLET 970.57
OUTLET 971.59

MH -
STA. 63+54.56
28.87' (LT)
TOP 984.82
INVERT 974.40

FRONTAGE ROAD

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
STATE OF TENNESSEE
NO. 109910
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FRONTAGE ROAD PROFILE

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

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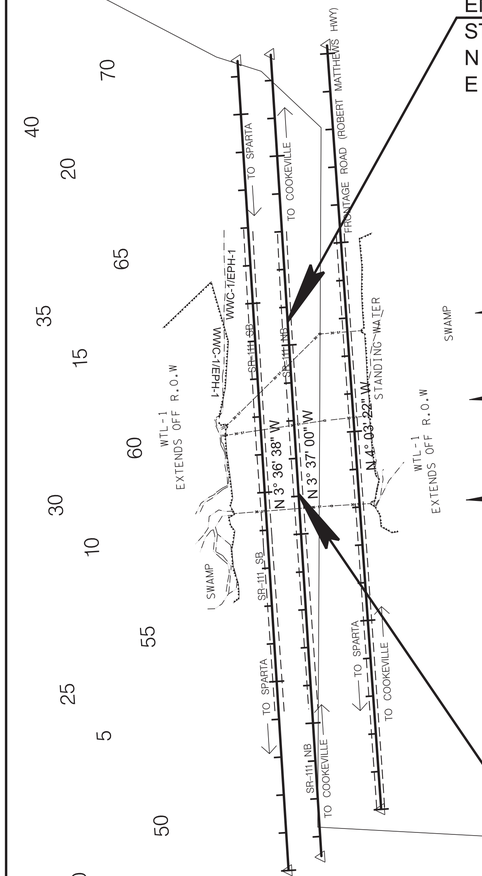
LIMIT OF CONSTRUCTION IS OFF
THE PAGE AT STA. 222+31.15
(SR-111 SOUTHBOUND CROSSOVER)
SEE SHEET. T3

END PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 15+61.63
N 621446.9321
E 2113981.6954



BEG. PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 11+06.46
N 620992.6663
E 2114010.4088

LIMIT OF CONSTRUCTION IS OFF
THE PAGE AT STA. 200+00.00
(SR-111 SOUTHBOUND CROSSOVER)
SEE SHEET T3

DRAINAGE AREA
4819.388 AC.
7.53 SQ. MI.
EX. 30" RCP/36" CMP; STA. 10+67.85 S.R. 111 NB
EX. 30" RCP/30" CMP; STA. 12+88.14 S.R. 111 NB
EX. 30" RCP/30" CMP; STA. 14+52.52 S.R. 111 NB

DRAINAGE AREA INSET
N.T.S.

N

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	7
CONST.	2025	93S111-M3-002	7

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
AGRICULTURE
NUMBER
NO. 108170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 1+47 TO STA. 22+69
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	8
CONST.	2025	93S111-M3-002	8

REV. 03-24-23: REVISED PLACEMENT OF CULVERT-SECTION ON SHEET.

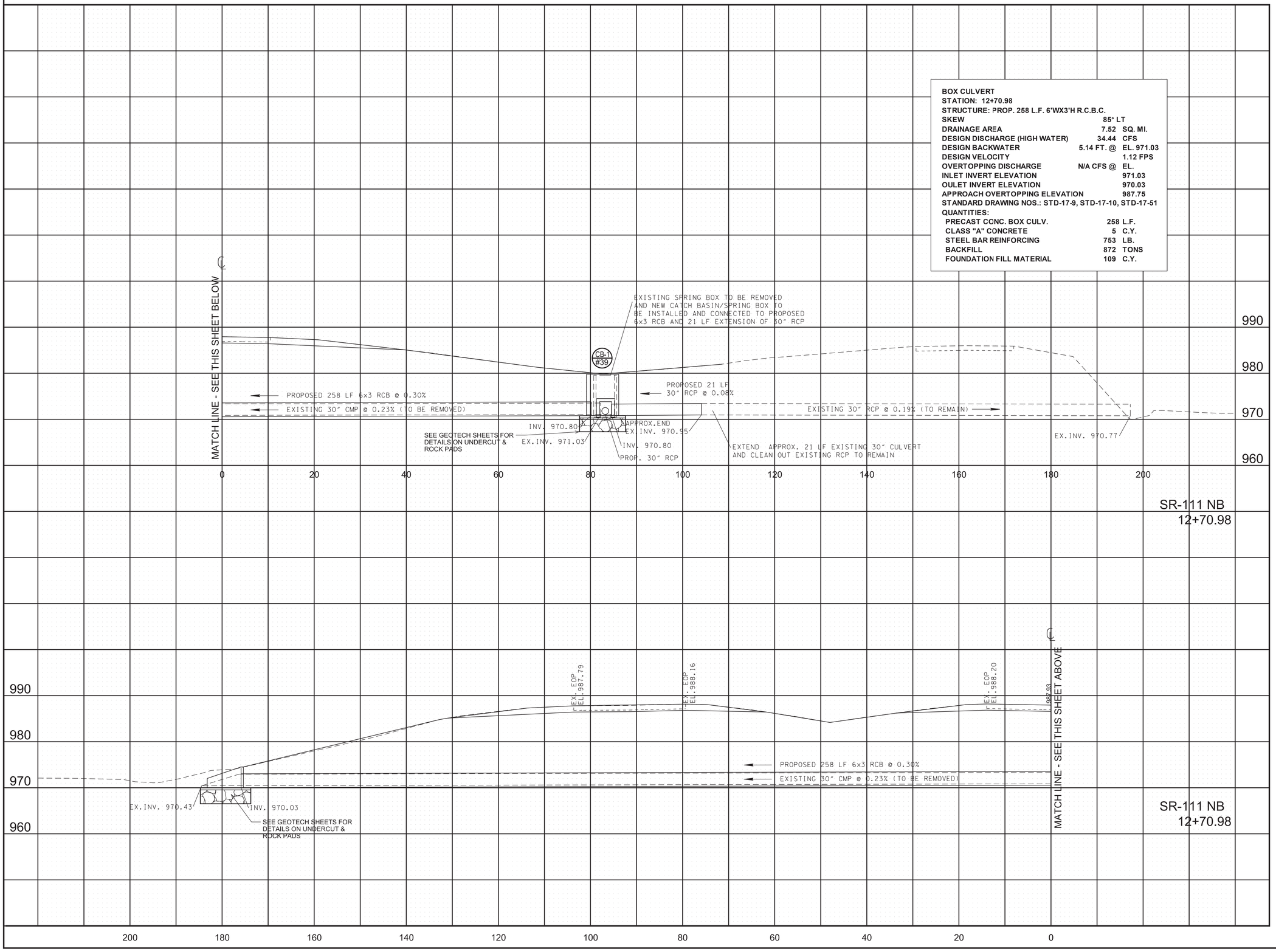
REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

BOX CULVERT
STATION: 12+70.98
STRUCTURE: PROP. 258 L.F. 6'WX3'H R.C.B.C.

SKEW	**85° LT**	
DRAINAGE AREA	**7.52**	**SQ. MI.**
DESIGN DISCHARGE (HIGH WATER)	**34.44**	**CFS**
DESIGN BACKWATER	**5.14 FT. @**	**EL. 971.03**
DESIGN VELOCITY		**1.12 FPS**
OVERTOPPING DISCHARGE	**N/A CFS @**	**EL.**
INLET INVERT ELEVATION		**971.03**
OULET INVERT ELEVATION		**970.03**
APPROACH OVERTOPPING ELEVATION		**987.75**

STANDARD DRAWING NOS.: STD-17-9, STD-17-10, STD-17-51
QUANTITIES:

PRECAST CONC. BOX CULV.	**258**	**L.F.**
CLASS "A" CONCRETE	**5**	**C.Y.**
STEEL BAR REINFORCING	**753**	**LB.**
BACKFILL	**872**	**TONS**
FOUNDATION FILL MATERIAL	**109**	**C.Y.**



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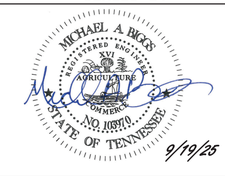

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 12+70.98
TO
STA. 12+70.98

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

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EROSION PREVENTION AND SEDIMENT CONTROL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

INSPECTION, MAINTENANCE & REPAIR

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

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(29) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.

(30) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.

(31) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

(32) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.

(33) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

(34) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.

(35) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.

(36) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

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

(38) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.

(39) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

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

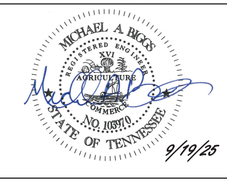
STREAMS, WETLANDS & BUFFER ZONES

(54) 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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	10
CONST.	2025	93S111-M3-002	10

REV. 08-27-25: REVISED EPSC NOTES.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

TABULATED EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	36
(1),(2)	209-03.21	FILTER SOCK (12 INCH)	L.F.	2200
(1),(2)	209-05	SEDIMENT REMOVAL	C.Y.	98
(1),(2)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	235
(1),(2),(11)	209-09.01	SANDBAGS	EACH	170
(1),(2)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
(1),(2),(11)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	500
(1),(2)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	5
(1),(2)	209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	1
(1),(2)	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	1
(1),(2),(7)	209-65.01	TEMPORARY STREAM DIVERSION (INSTREAM DIVERSION)	LS	1
(1),(2)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	88
(1),(2)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	270
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1900
(1),(2),(9)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	166
(1),(2)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	76
(1),(2),(8)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	829
(1),(2)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1080
(1),(2),(3)	801-02.08	TEMPORARY SEEDING (WITHOUT MULCH)	UNIT	474
(1),(2),(4)	801-03	WATER (SEEDING & SODDING)	M.G.	377
(1),(2)	803-01	SODDING (NEW SOD)	S.Y.	32904
(1),(2)	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	35009
(6)	806-02.03	PROJECT MOWING	CYCL	1

FOOT NOTES

(1) SEE SUBSECTION 209.07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

(2) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(3) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

(4) INCLUDES 377 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(5) PLACED UNDER SEEDING AND SODDING AREAS.

(6) 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 PER CYCLE.

(7) INSTREAM DIVERSION TO INCLUDE ANY AND ALL ITEMS NECESSARY TO PREVENT WATER FROM ENTERING THE WORK AREA FROM EITHER END OF PIPE AND/OR WETLAND AREA.

(8) 258 S.Y. OF 740-10.03 IS TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.

(9) 151 TONS OF ITEM NUMBER 709-05.05 IS TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.

(10) 36 C.Y. OF 203-01 IS TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.

(11) TO BE USED TO PLUG EXISTING STORM PIPES AS SHOWN IN THE PLANS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
✱ SFB ✱ SFB ✱ SFB ✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
✱ TUBE 12" ✱ ✱ TUBE 12" ✱ ✱	12 INCH SEDIMENT TUBE	EC-STR-37
✱ SOCK 12" ✱ ✱ SOCK 12" ✱ ✱	12 INCH FILTER SOCK	EC-STR-8
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
SFB ✱ SFB ✱ SFB ✱ SFB ✱	SEDIMENT FILTER BAG	EC-STR-2
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
✱ HVF ✱ HVF ✱	HIGH VISIBILITY FENCE	S-F-1
	SOD	

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	11
CONST.	2025	93S111-M3-002	11

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
No. 109710
STATE OF TENNESSEE
9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
EPSC
QUANTITIES

NOTE:
1. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING THE HAUL ROADS IF APPLICABLE.

2. HIGH VISABILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED PORTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

3. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WETLAND (WTL-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERITTMED LOCATIONS.

4. REMOVE THE TOP 12 INCHES OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE.

5. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETE, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING HAUL ROADS (IF APPLICABLE). RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION, AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE.

6. THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED WITH WETLAND SEED MIXTURE 801-01-36 ONLY.

7. WETLAND AREA LOCATED OUTSIDE THE PROPOSED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS ARE TO BE CLEARLY MARKED AND NOT TO BE DISTURBED.

8. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

NOTE:
EX. R.O.W. LINE LOCATIONS ARE APPROXIMATED BASED ON PREVIOUS ROADWAY PLANS AND NOT SURVEYED.

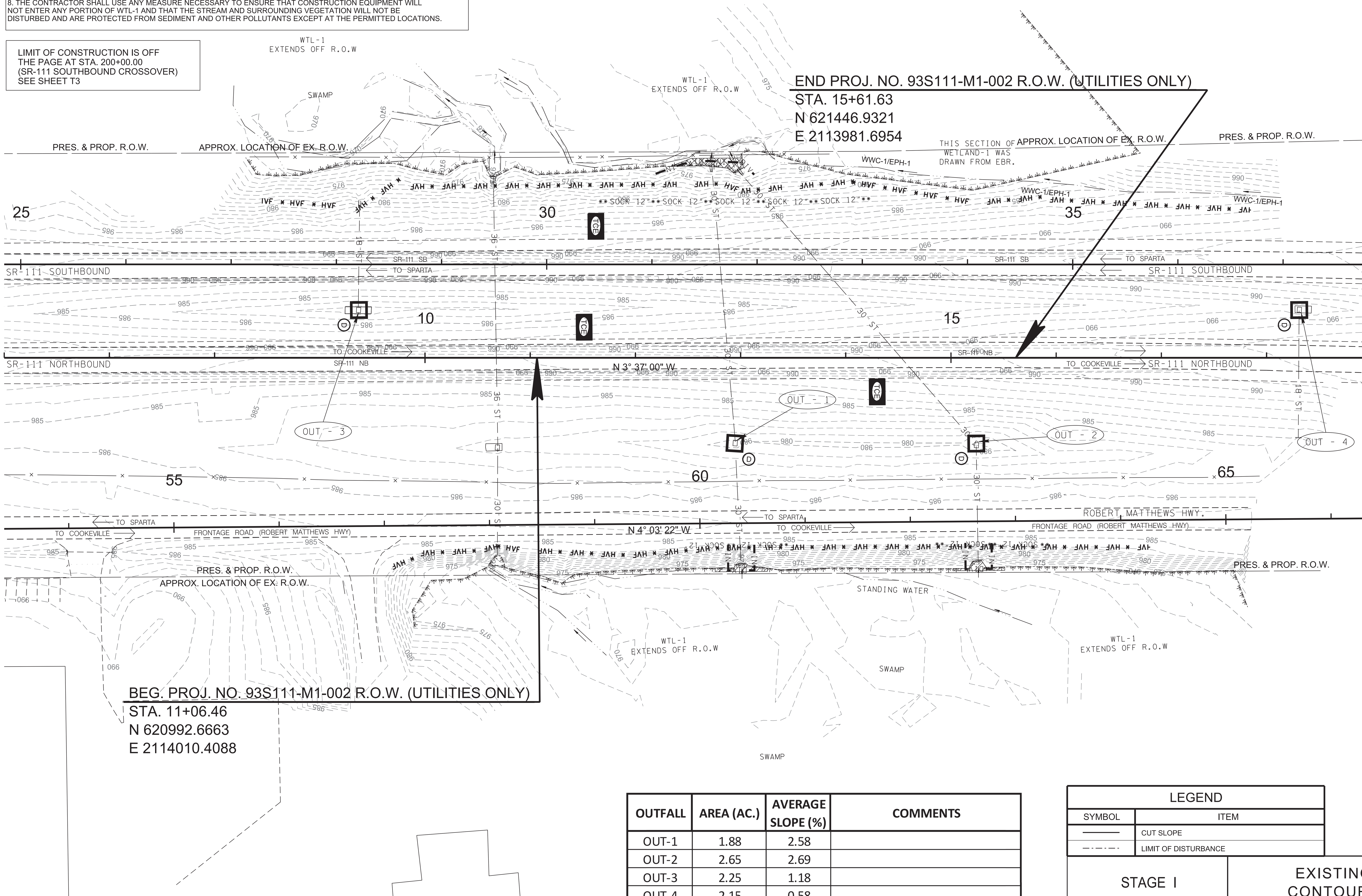
LEGEND	WETLAND IMPACTS (WTL-1)
(cross-hatch)	AREA OF PERMANENT IMPACT = 0.012 AC.
	VOLUME OF PERMANENT IMPACT = 9.69 C.Y.
(diagonal hatch)	AREA OF TEMPORARY IMPACT = 0.011 AC.
	VOLUME OF TEMPORARY IMPACT = 8.31 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	12
CONST.	2025	93S111-M3-002	12

REV. 12-19-22: REVISED PERMANENT WETLAND IMPACT AREA. REMOVED NOTE REGARDING REMOVAL OF TOPSOIL IN TEMPORARY IMPACT AREAS.
REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3



OUTFALL	AREA (AC.)	AVERAGE SLOPE (%)	COMMENTS
OUT-1	1.88	2.58	
OUT-2	2.65	2.69	
OUT-3	2.25	1.18	
OUT-4	2.15	0.58	

LEGEND	
SYMBOL	ITEM
———	CUT SLOPE
—·—·—	LIMIT OF DISTURBANCE

STAGE I

EXISTING CONTOURS

SEALED BY

MICHAEL A. BIGGS, REGISTERED ENGINEER, NO. 109701, STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

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Y:\Projects\0015000\0016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\012-EPSC-Stage1.SHT

NOTE:
1. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING THE HAUL ROADS IF APPLICABLE.

2. HIGH VISABILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED PORTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

3. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WETLAND (WTL-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERITTMED LOCATIONS.

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6. THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED WITH WETLAND SEED MIXTURE 801-01-36 ONLY.

7. WETLAND AREA LOCATED OUTSIDE THE PROPOSED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS ARE TO BE CLEARLY MARKED AND NOT TO BE DISTURBED.

8. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

NOTE:
EX. R.O.W. LINE LOCATIONS ARE APPROXIMATED BASED ON PREVIOUS ROADWAY PLANS AND NOT SURVEYED.

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.012 AC. VOLUME OF PERMANENT IMPACT = 9.69 C.Y.
	AREA OF TEMPORARY IMPACT = 0.011 AC. VOLUME OF TEMPORARY IMPACT = 8.31 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	13
CONST.	2025	93S111-M3-002	13

REV. 12-19-22: REVISED PERMANENT WETLAND IMPACT AREA. REMOVED NOTE REGARDING REMOVAL OF TOPSOIL IN TEMPORARY IMPACT AREAS.

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

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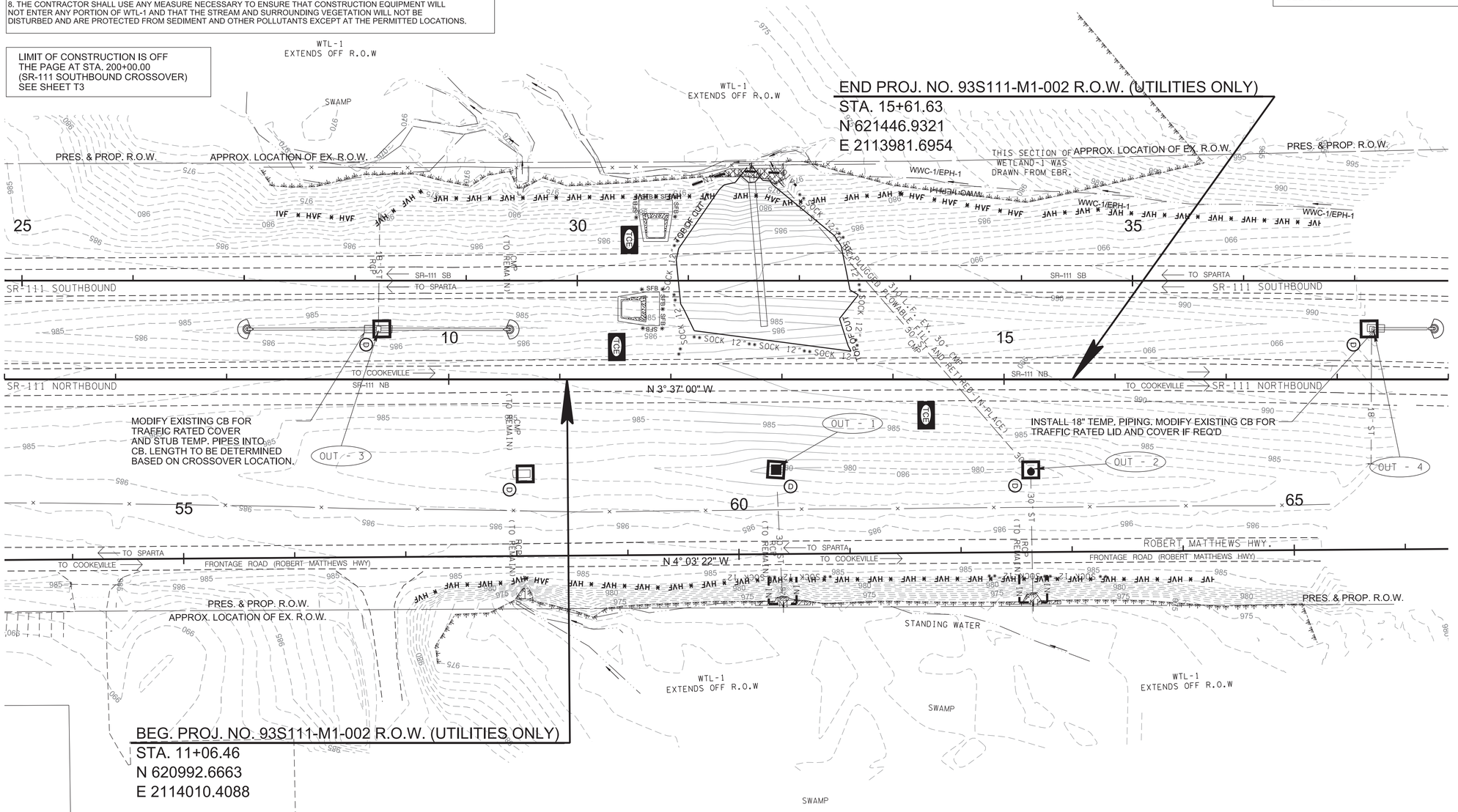

OUTFALL	AREA (AC.)	AVERAGE SLOPE (%)	COMMENTS
OUT-1	1.88	2.58	
OUT-2	2.65	2.69	
OUT-3	2.25	1.18	
OUT-4	2.15	0.58	

LEGEND	
SYMBOL	ITEM
———	CUT SLOPE
—·—·—	LIMIT OF DISTURBANCE

STAGE IIA

EXISTING & PROPOSED CONTOURS

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
AGRICULTURE
NO. 109170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

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NOTE:
1. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING THE HAUL ROADS IF APPLICABLE.

2. HIGH VISABILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED PORTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

3. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WETLAND (WTL-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERITTMED LOCATIONS.

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NOTE:
EX. R.O.W. LINE LOCATIONS ARE APPROXIMATED BASED ON PREVIOUS ROADWAY PLANS AND NOT SURVEYED.

LEGEND	WETLAND IMPACTS (WTL-1)
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	AREA OF TEMPORARY IMPACT = 0.011 AC. VOLUME OF TEMPORARY IMPACT = 8.31 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	13A

REV. 08-27-25: ADDED SHEET. VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

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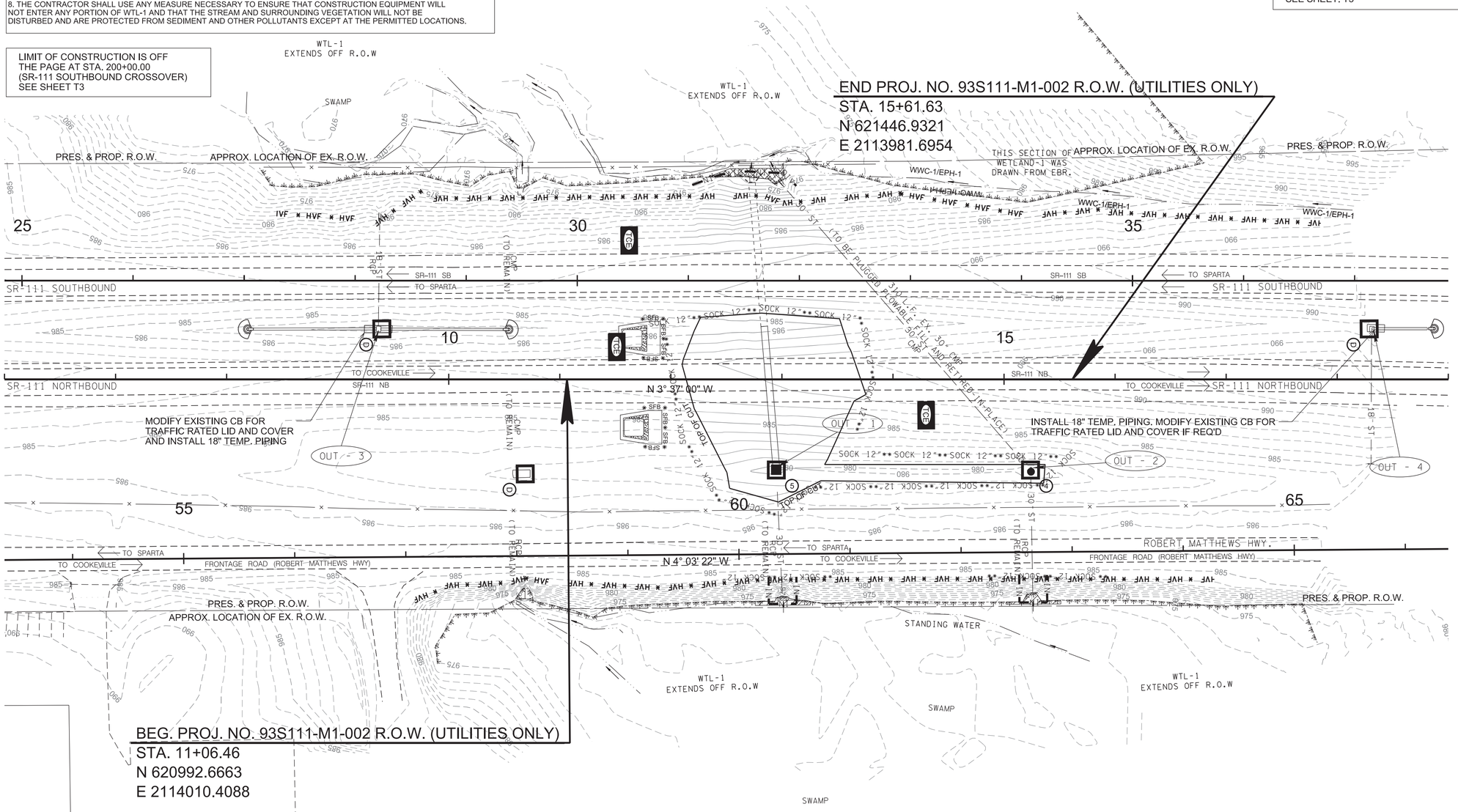

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LEGEND	
SYMBOL	ITEM
———	CUT SLOPE
-·-·-·-	LIMIT OF DISTURBANCE

STAGE IIB

EXISTING & PROPOSED CONTOURS

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
AGRICULTURE
NUMBER
NO. 108170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

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(hatch)	AREA OF TEMPORARY IMPACT = 0.011 AC.
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	93S111-M1-002	14
CONST.	2025	93S111-M3-002	14

REV. 12-19-22: REVISED PERMANENT WETLAND IMPACT AREA AND REMAINING WETLAND LIMIT. REMOVED NOTE REGARDING REMOVAL OF TOPSOIL IN TEMPORARY IMPACT AREAS.

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

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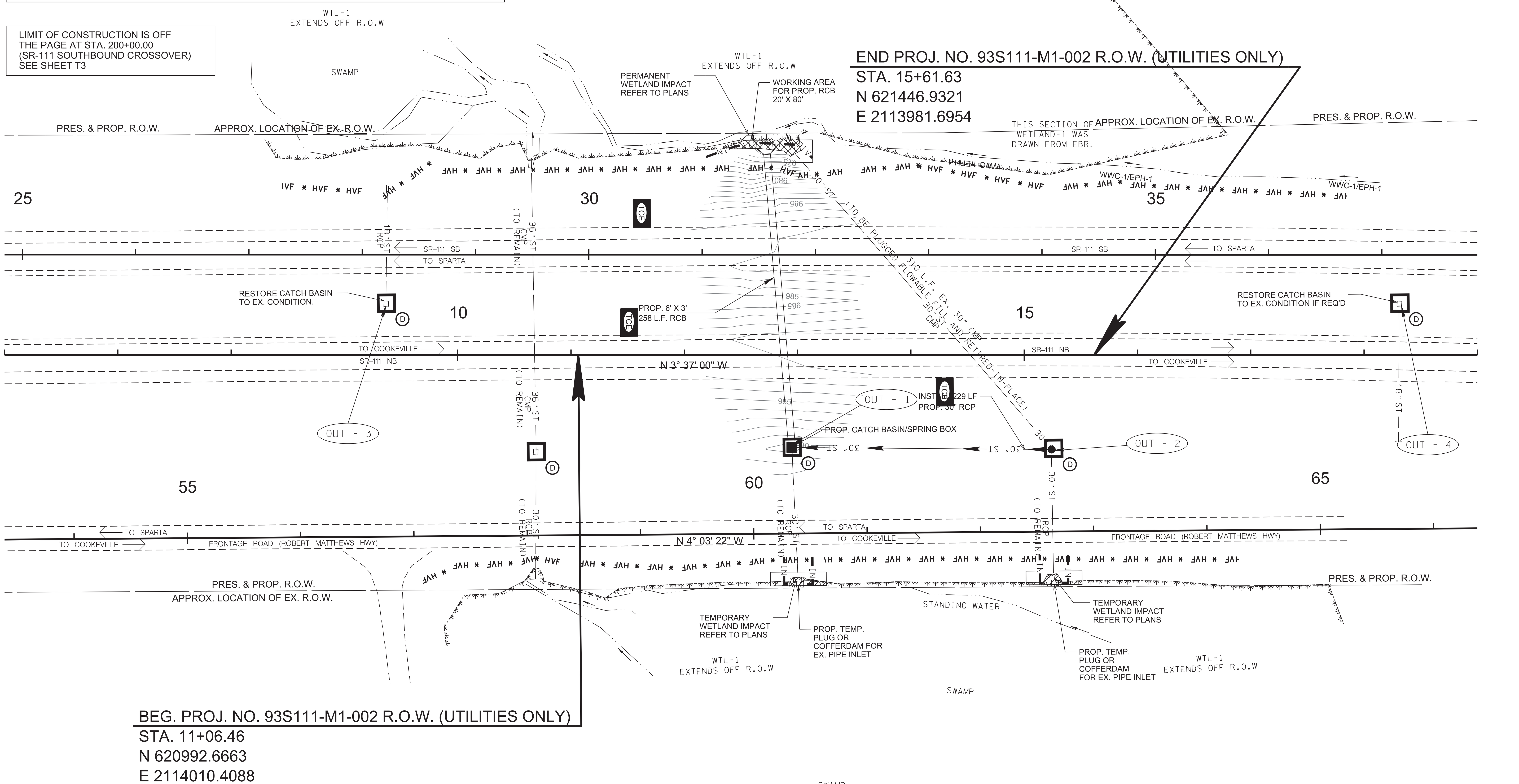

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LEGEND	
SYMBOL	ITEM
———	CUT SLOPE
—·—·—	LIMIT OF DISTURBANCE

STAGE III

EXISTING & PROPOSED CONTOURS

SEALED BY

MICHAEL A. BIGGS STATE OF TENNESSEE 9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 6+00 TO STA. 19+00

SCALE: 1"= 50'

9/19/2025 10:11:59 AM
Y:\Projects\0015000\0016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\014-EPSC-Stage3.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T1

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 1.75 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 1.75 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.

   a. 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.

SEALED BY

MICHAEL A. BIGGS — REGISTERED ENGINEER — XVI — AGRICULTURE — COMMERCE — NO. 108970 — STATE OF TENNESSEE

9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL

TABULATED TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	712-01	TRAFFIC CONTROL	LS	1
	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	6750
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	8
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200
	712-04.50	BARRIER RAIL DELINEATOR	EACH	338
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	40
	712-06	SIGNS (CONSTRUCTION)	S.F.	1337
	712-08.03	ARROW BOARD (TYPE C)	EACH	4
	712-08.08	SPEED FEEDBACK SIGN ASSEMBLY	EACH	2
	712-08.09	DIGITAL SPEED LIMIT SIGN ASSEMBLY	EACH	12
(2)	712-10.02	TEMPORARY TRANSVERSE RUMBLE STRIPS	L.F.	240
	713-15.35	METAL BARRICADES (TYPE III)	EACH	8
(1)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	1.24
	716-05.49	PAINTED PAVEMENT MARKING (8" LINE)	L.M.	5.28

NOTE: SEE SHEET 2F1 FOR MEDIAN CROSSOVER PAVEMENT QUANTITIES.

FOOTNOTES

(1) CONTRACTOR SHALL COORDINATE MESSAGE AND MESSAGE BOARD LOCATIONS WITH THE PROJECT ENGINEER.

(2) ITEM PAID FOR BY EACH LINE'S L.F. PERPENDICULAR TO TRAVEL LANE.

(3) TO BE LOCATED AND INSTALLED AS DIRECTED BY PROJECT ENGINEER.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	TEMPORARY CRASH CUSHION
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (CAUTION)
	CHANGEABLE MESSAGE SIGN
	CHANGEABLE MESSAGE SIGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T2

REV. 08-21-23: REVISED QUANTITY FOR ITEM NO. 712-01.
REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.
REV. 09-19-25: DELETED ITEM NO. 712-07.03. ADDED ITEM NO. 713-15.35.

712-06 SIGNS(CONSTRUCTION)

	DESCRIPTION	M.U.T.C.D. NO.	SIZE (IN. X IN.)		SIGN AREA (S.F.)	QUANTITY	TOTAL AREA (S.F.)	REMARKS
	END ROAD WORK	G20-2	48	24	8	6	48	
	ROAD WORK 1/2 MILE	W20-1M	48	48	16	2	32	
	ROAD WORK 1000 FT	W20-1F	48	48	16	2	32	
	LEFT LANE CLOSED 1500 FT	W20-5LF	48	48	16	6	96	
	RIGHT LANE CLOSED 1500 FT	W20-5RF	48	48	16	4	64	
	LEFT LANE MERGE	W4-2LC	48	48	16	6	96	
	RIGHT LANE MERGE	W4-2RC	48	48	16	4	64	
	ADVISORY SPEED (PLAQUE)	W13-1PC	24	24	4	6	24	
	RIGHT LANE SHIFT	W1-4AR	48	48	16	2	32	
	LEFT LANE SHIFT	W1-4AL	48	48	16	4	64	
	DO NOT PASS	R4-1	24	30	5	4	20	
	DO NOT ENTER	R5-1	30	30	6.25	4	25	
	KEEP RIGHT	R4-7	24	30	5	2	10	
	ROAD CLOSED	R11-2	48	30	10	2	20	
	ONE-DIRECTION LARGE ARROW LEFT	W1-6	48	24	8	2	16	
	ONE-DIRECTION LARGE ARROW RIGHT	W1-6R	48	24	8	2	16	
	TWO-WAY TRAFFIC	W6-3	36	36	9	4	36	
	LEFT LANE CLOSED 1 MILE	W20-5L	48	48	16	6	96	
	LEFT LANE CLOSED 1/2 MILE	W20-5aL	48	48	16	6	96	
	RIGHT LANE CLOSED 1 MILE	W20-5R	48	48	16	4	64	
	RIGHT LANE CLOSED 1/2 MILE	W20-5aR	48	48	16	4	64	
	REDUCED SPEED AHEAD (SPEED REDUCTION)	W3-5b	48	48	16	4	64	
	WORKERS PRESENT	TN-44	78	60	32.5	4	130	
(3)	RUMBLE STRIPS AHEAD	TN-78	48	48	16	8	128	
	TOTAL						**1337**	

SEALED BY

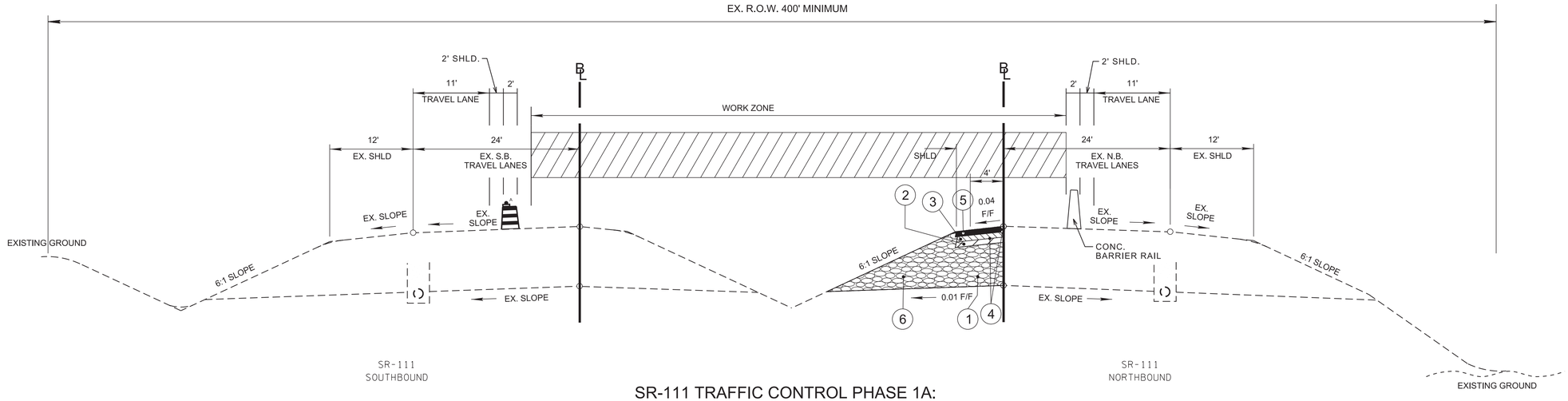
MICHAEL A. BIGGS
REGISTERED ENGINEER
No. XVI
AGRICULTURE
COMMERCE
No. 109170
STATE OF TENNESSEE
9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

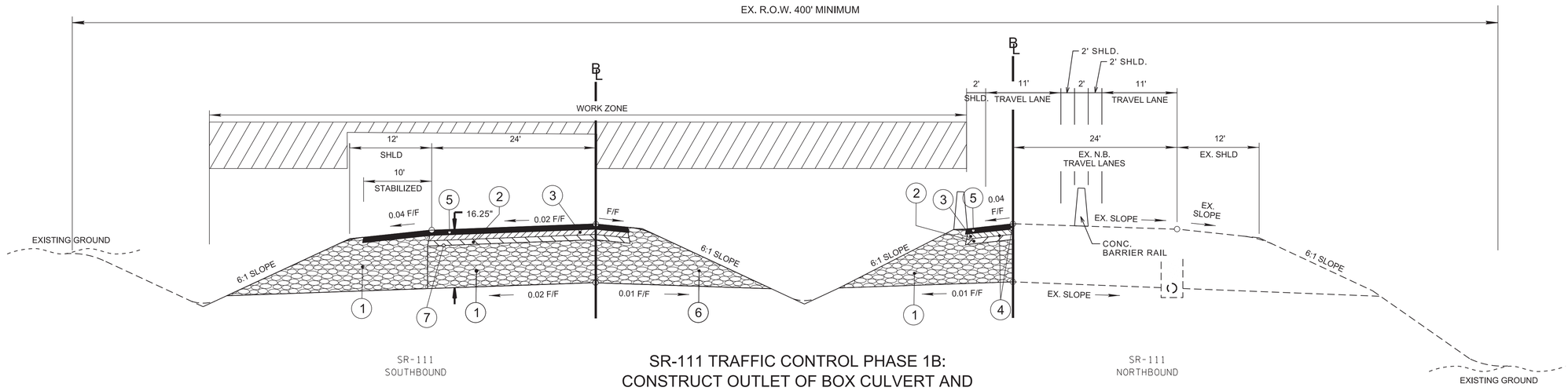
TABULATED TRAFFIC CONTROL QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T2A

REV. 08-27-25: ADDED SHEET.



SR-111 TRAFFIC CONTROL PHASE 1A:
CONSTRUCT SOUTHBOUND MEDIAN CROSS OVER

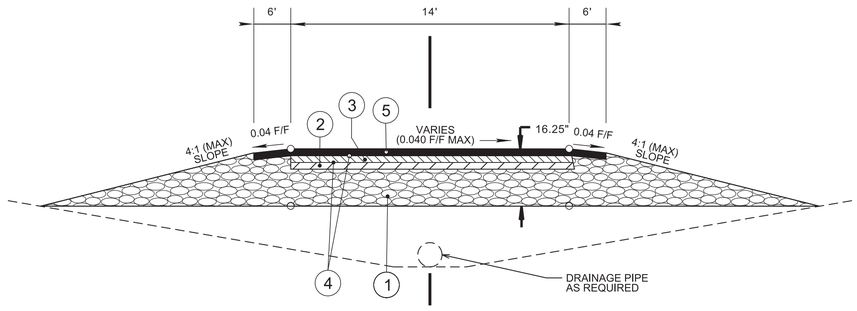


SR-111 TRAFFIC CONTROL PHASE 1B:
CONSTRUCT OUTLET OF BOX CULVERT AND
REPAIR SR-111 PAVEMENT

PHASING NOTES:

PHASE 1A
1. INSTALL ADVANCE WARNING SIGNING PER STD. T-WZ-11 (DS=80MPH).
2. SHIFT TRAFFIC IN BOTH DIRECTIONS TO OUTSIDE TRAVEL LANES.
3. RECONSTRUCT INSIDE SHOULDER FOR NB SR-111 FOR FULL DEPTH PAVEMENT.
4. CONSTRUCT TEMPORARY MEDIAN CROSSOVER PER STD. T-WZ-19 FOR DIRECTING SB TRAFFIC ONTO TEMPORARY NB LANES. (DS=40MPH)
5. CONTRACTOR TO CONFIRM DESIGN SPEED WITH PROJECT ENGINEER.

PHASE 1B
1. PREPARE NB LANES TO RECEIVE TWO-WAY TRAFFIC.
2. SHIFT TRAFFIC AND CONSTRUCT A PORTION OF THE PROPOSED 6X4 RCB ALONG THE NORTHERN SIDE OF SR-111.
3. BACKFILL AND RE-CONSTRUCT SB TRAVEL LANES.



SR-111
TANGENT SECTION
MEDIAN CROSSOVER DETAIL
(BASED ON STD. DWG. T-WZ-19)

SEE SHEET 2B2 FOR
PROPOSED PAVEMENT SCHEDULE

SEALED BY

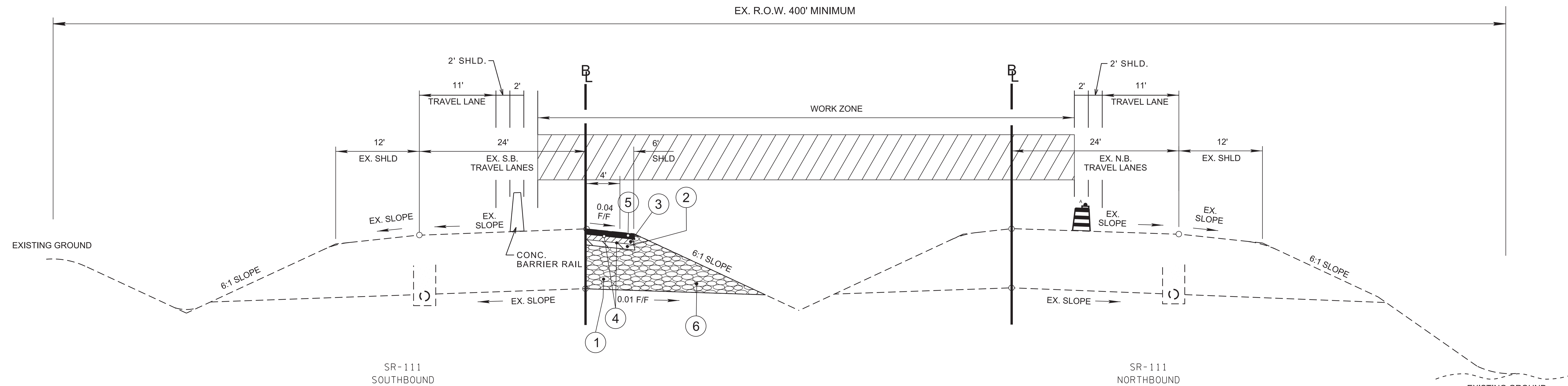
MICHAEL A BIGGS
REGISTERED ENGINEER
STATE OF TENNESSEE
NO. 109910
9/19/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

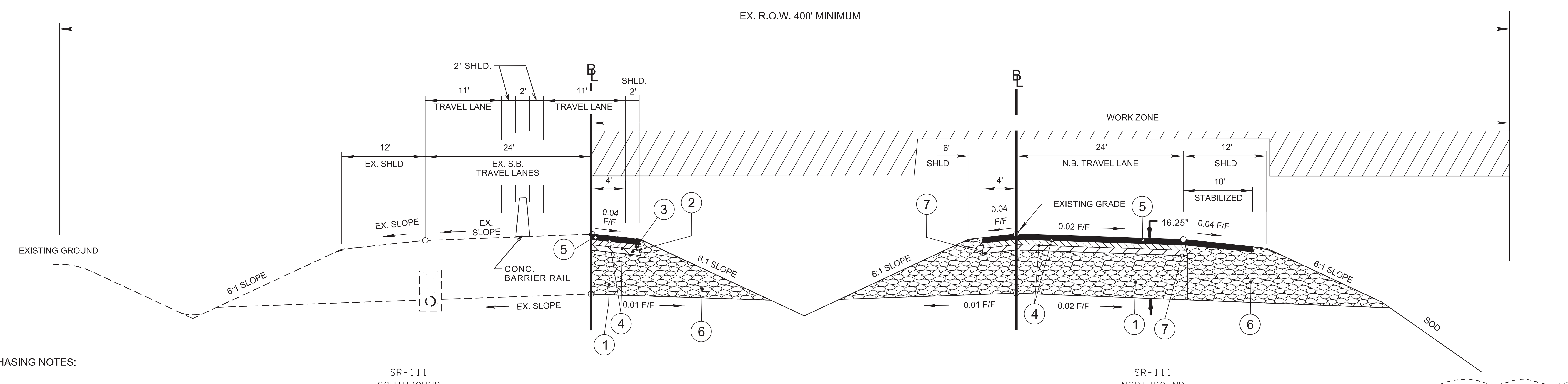
TRAFFIC CONTROL TYPICAL SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T2B

REV. 08-27-25: ADDED SHEET.



TRAFFIC CONTROL PHASE 2A: CONSTRUCT NORTHBOUND MEDIAN CROSS OVER



SR-111 TRAFFIC CONTROL PHASE 2B: CONSTRUCT INLET OF BOX CULVERT AND REPAIR SR-111 PAVEMENT

PHASING NOTES:

PHASE 2A

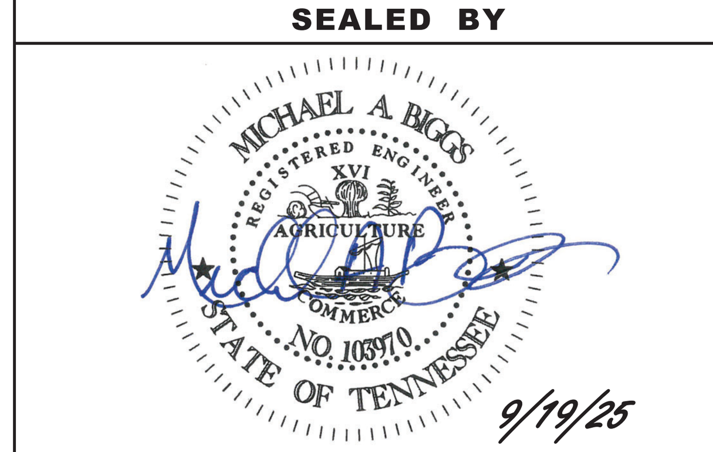
1. SHIFT ALL NB AND SB TO OUTSIDE TRAVEL LANES FOR 1-LANE TRAVEL.
2. REMOVE TEMPORARY MEDIAN CROSSOVER FROM PHASE1. RECONSTRUCT INSIDE SHOULDER FOR SB SR-111 FOR FULL DEPTH PAVEMENT.
4. CONSTRUCT TEMPORARY MEDIAN CROSSOVER PER STD. T-WZ-19 FOR DIRECTING NB TRAFFIC ONTO TEMPORARY SB LANES. (DS=40MPH). CONTRACTOR TO CONFIRM DESIGN SPEED WITH PROJECT ENGINEER.

PHASE 2B

1. PREPARE SB LANES TO RECEIVE TWO-WAY TRAFFIC.
2. SHIFT TRAFFIC AND CONSTRUCT THE REMAINING PORTION OF THE PROPOSED 6X4 RCB AND OTHER DRAINAGE IMPROVEMENTS ALONG THE SOUTHERN SIDE OF SR-111.
3. BACKFILL AND RE-CONSTRUCT NB TRAVEL LANES.
4. UPON COMPLETION SHIFT ALL TRAFFIC TO RESPECTIVE DIRECTIONS TO OUTSIDE TRAVEL LANES FOR 1-LANE TRAVEL. REMOVE TEMPORARY MEDIAN CROSSOVER, CONCRETE MEDIAN BARRIER, SAFETY DEVICES, AND ALL TRAFFIC CONTROL MEASURES.
5. RESTORE THE PROJECT SITE AND OPEN ALL LANES TO TRAFFIC.

SEE SHEET 2B2 FOR PROPOSED PAVEMENT SCHEDULE

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TYPICAL SECTIONS

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Y:\Projects\0015000\0016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T2B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONSTR.	2025	93S111-M3-002	T3

REV. 08-27-25: ADDED SHEET.

SEE SHEETS T4-T9 FOR
PHASE I SIGNING AND MARKING

200 205 210 215 220

POT 200+00.00

PC 202+67.05

PT 217+46.64

LIMIT OF CONSTRUCTION
STA. 200+00.00
N 618581.2875
E 2113920.3283

STRUCTURE #93SR111001O2
3 SPAN BR10GE

STRUCTURE #93SR111001O1
3 SPAN BR10GE

N 10^ 45' 24" E

SR-111 SOUTHBOUND (ASPH.)

SR-111 NORTHBOUND (ASPH.)

CURVE DC300
PI 210+10.99
N 619,574.5084
E 2,114,109.0166
~ 14^ 47' 45" (LT)
D 1^ 00' 00"
R 5,729.58
L 1,479.59
T 743.93
SE 0.021 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 150

BEGIN COLD PLANING
STA. 210+74.63
N 619643.1869
E 2114103.6238

BEGIN COLD PLANING
STA. 217+00.05
N 620264.3946
E 2113968.2244

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

WTL-1
EXTENDS OFF R.O.W

SWAMP

ROBERT MATTHEWS HWY.

MATCHLINE STA. 224+75.53 SEE BELOW

PC 224+24.13

225 230 235 240 245

MATCHLINE STA. 224+75.53 SEE ABOVE

WTL-1
EXTENDS OFF R.O.W

THIS SECTION OF
WETLAND-1 WAS
DRAWN FROM EBR.

WWC-1EPH-3

WWC-1EPH-1

ROBERT MATTHEWS HWY.

STANDING WATER

SWAMP

PT 225+24.53

CURVE DC301
PI 224+74.33
N 621,042.4780
E 2,114,005.3558
~ 0^ 20' 05" (RT)
D 0^ 20' 00"
R 17,188.73
L 100.40
T 50.20
SE NC
DESIGN SPEED 50 MPH
TRANS. LENGTH 000

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

LIMIT OF COLD PLANE/OVERLAY
STA. 241+33.10
N 622695.5081
E 2113856.7300

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

LIMIT OF COLD PLANE/OVERLAY
STA. 236+74.92
N 622242.1293
E 2113952.0128

PC 240+57.62

LIMIT OF CONSTRUCTION
STA. 222+31.15
N 620863.7394
E 2114926.5813

N 2^ 01' 10" E

SR-111 SOUTHBOUND (ASPH.)

SR-111 NORTHBOUND (ASPH.)

PT 248+20.82

CURVE DC302
PI 244+39.54
N 623,003.5764
E 2,113,878.3805
~ 5^ 43' 26" (RT)
D 0^ 45' 00"
R 7,639.44
L 763.20
T 381.92
SE RC
DESIGN SPEED 50 MPH
TRANS. LENGTH 150

POT 249+21.48

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
No. 109911
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SOUTHBOUND CROSSOVER

STA.200+00 TO STA.222+31.15
SCALE: 1"= 50'

PHASE I

9/19/2025 10:15:21 AM
Y:\Projects\00150001001650016756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T3.sht

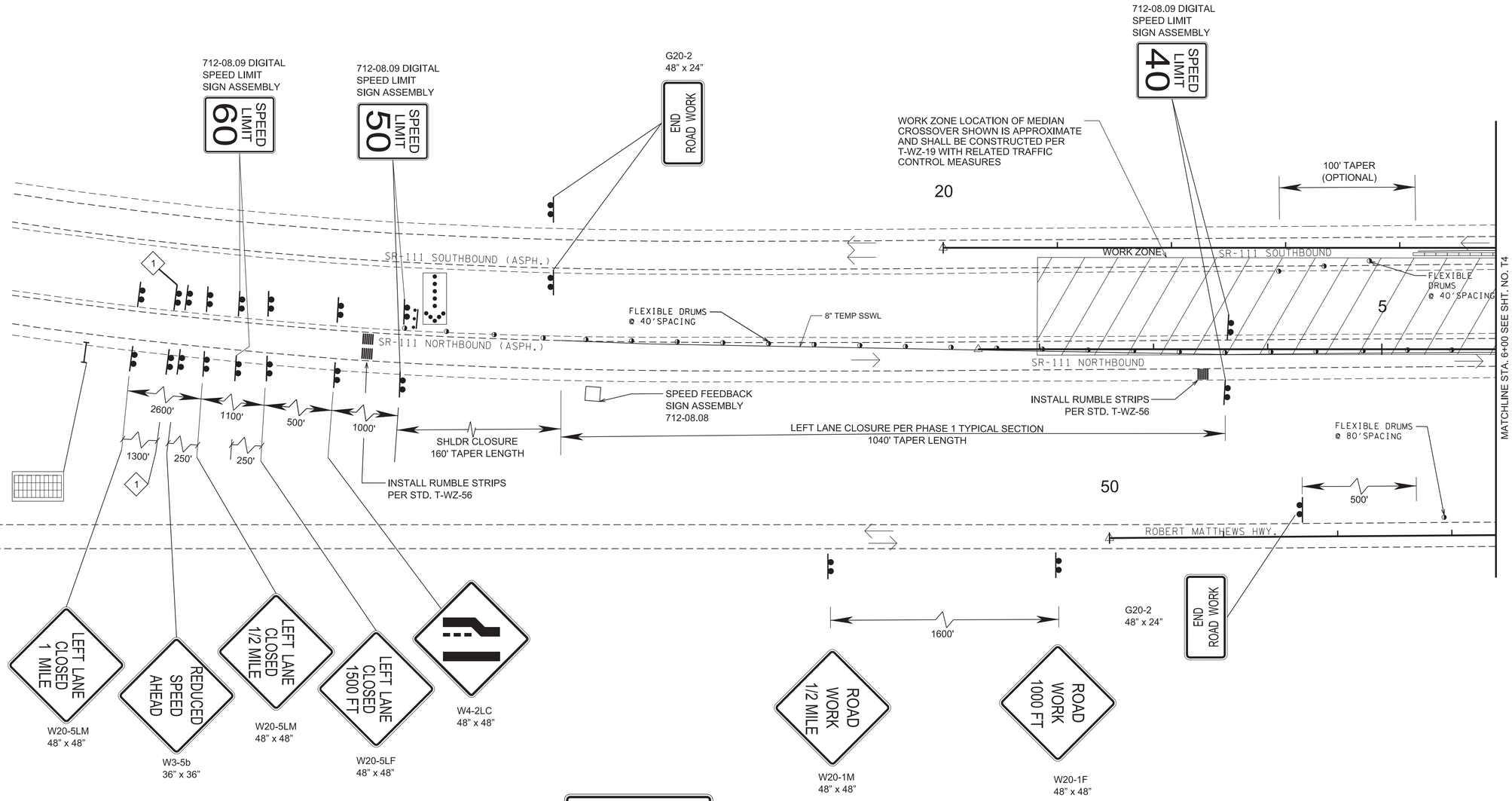
PHASE NOTES:

WORKZONE LOCATION AND DESIGN OF MEDIAN CROSSOVER TO BE DETERMINED BY CONTRACTOR PER STD T-WZ-19. TRAFFIC CONTROL MAY BE ADJUSTED IN ACCORDANCE TO THE LOCATION OF THE MEDIAN CROSSOVER. ADDITIONAL TRAFFIC CONTROL DEVICES MAY REQUIRE IMPLEMENTATION PER THE MOST CURRENT VERSION OF THE MUTCD AND/OR PROJECT ENGINEER.

SEE TDOT STD. DWG. T-WZ-11 FOR ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T4

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.



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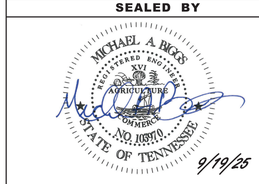


COORDINATES ARE NAD 83(CONUS). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

BEGIN TO STA. 6+00
SCALE: 1"= 50'

PHASE IA

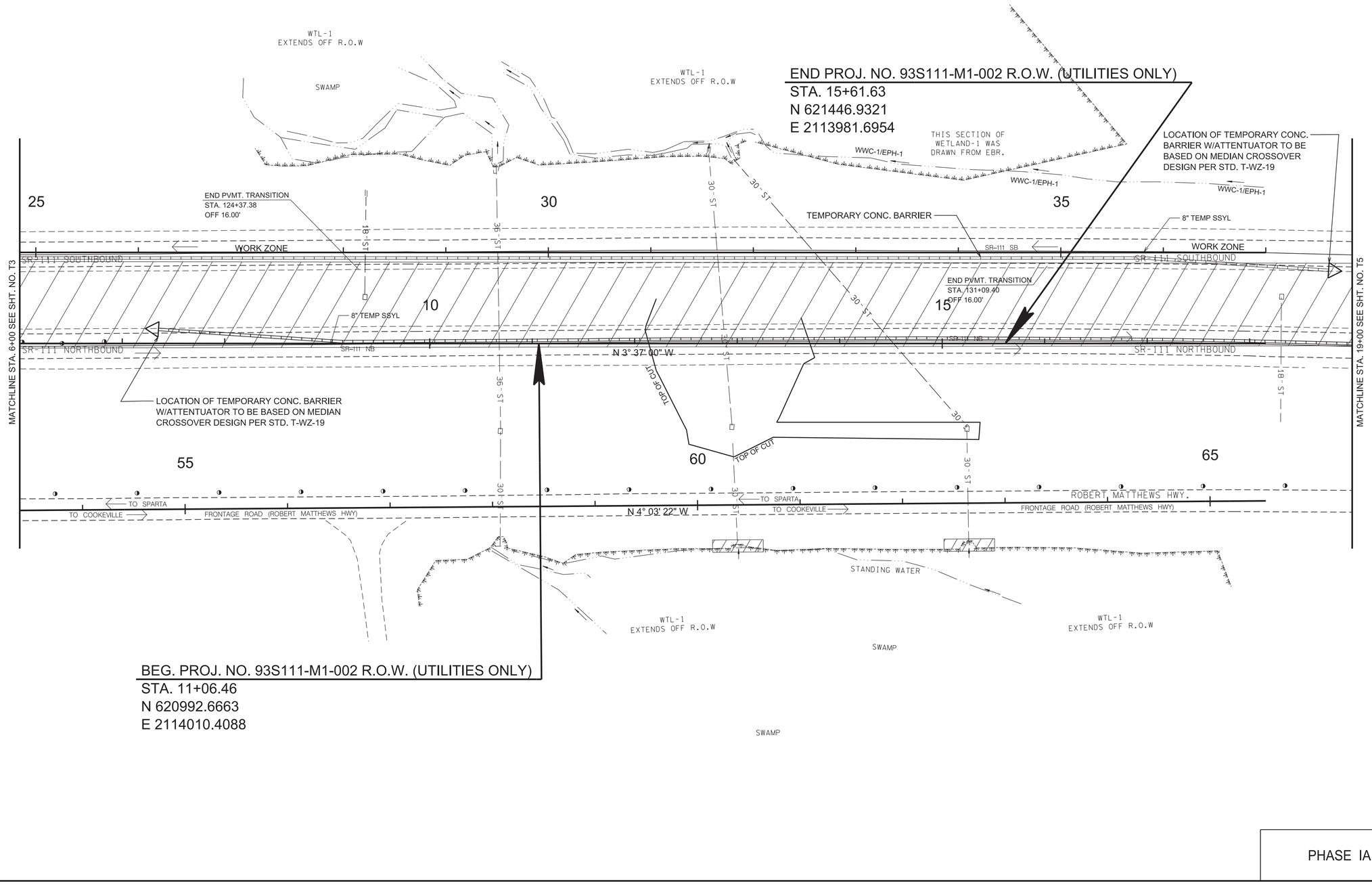
9/19/2025 10:15:25 AM
Y:\Projects\0015000\001650\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T4.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T5

REV. 08-27-25: VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3



SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
No. 109170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

PHASE IA

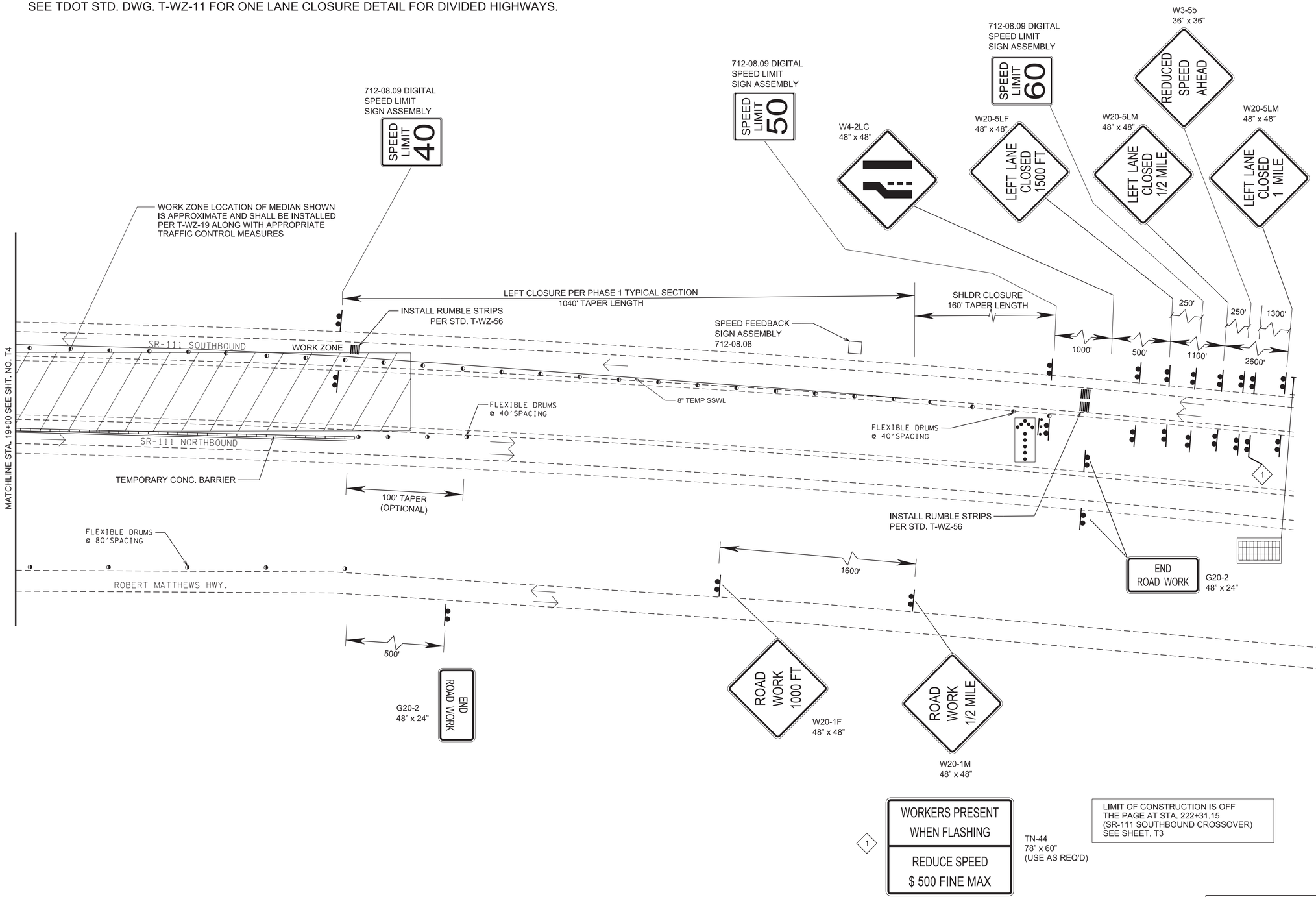
9/19/2025 10:15:26 AM
Y:\Projects\0015000\0016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T5.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T6

REV. 08-27-25: ADDED SHEET. VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

NOTES:

SEE TDOT STD. DWG. T-WZ-11 FOR ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS.



LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

SEALED BY

MICHAEL A BIGGS REGISTERED ENGINEER XVI AGRICULTURE COMMERCE NO. 108970 STATE OF TENNESSEE

9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 19+00 TO END

SCALE: 1"= 50'

PHASE IA

9/19/2025 10:15:27 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T7

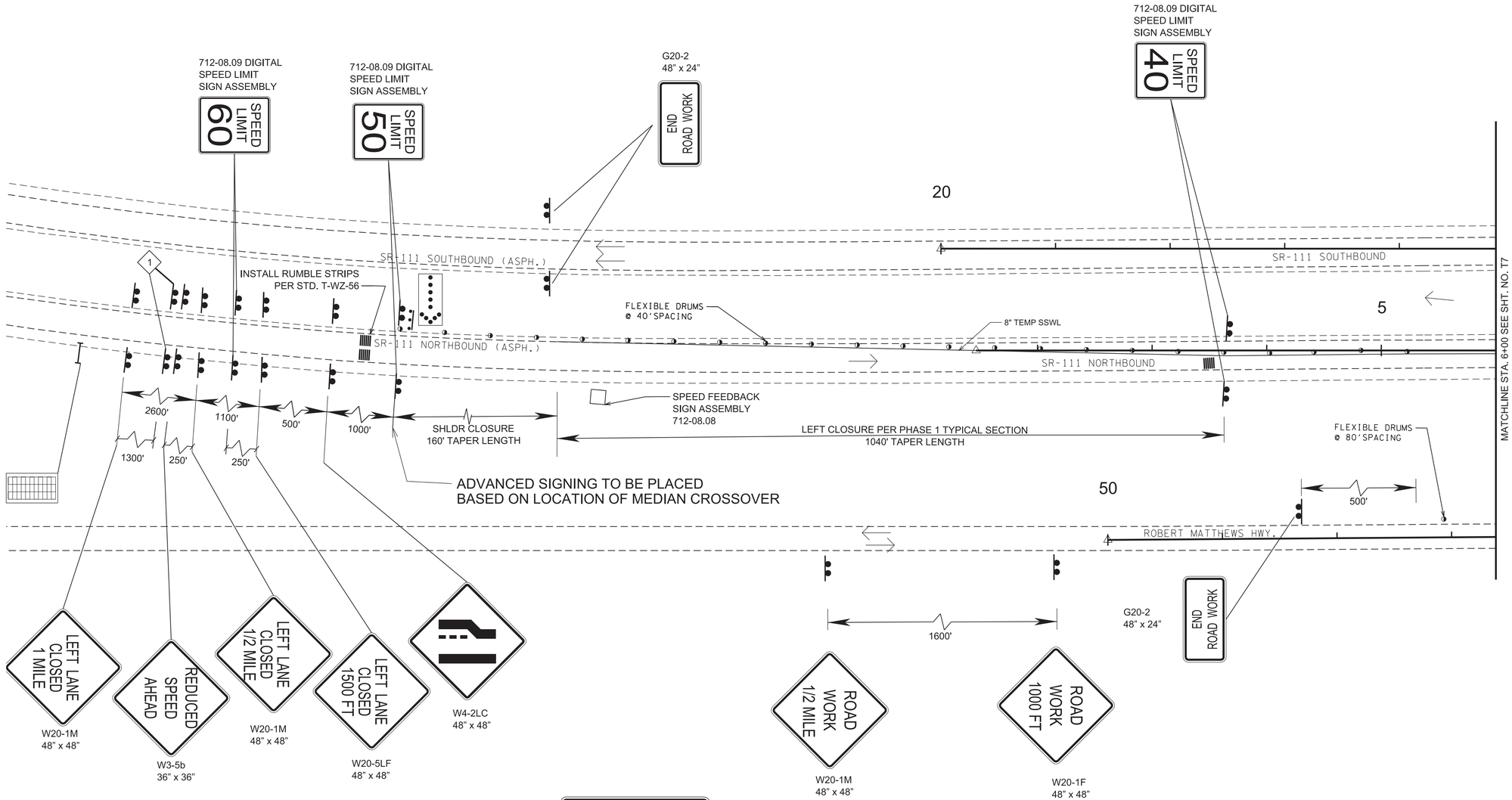
REV. 08-27-25: ADDED SHEET. VARIOUS REVISIONS DUE TO SCOPE MODIFICATION AND LETTING DATE CHANGE FOR THE PROJECT.

NOTES:

CONTRACTOR IS TO REFER TO TDOT STANDARD DRAWING T-WZ-19 FOR CONSTRUCTION OF MEDIAN CROSSOVER. CONTRACTOR IS TO ADJUST ANY TRAFFIC CONTROL DEVICES AND LOCATION IN ORDER TO MEET MEDIAN CROSSOVER DESIGN.

SEE TDOT STD. DWG. T-WZ-11 FOR ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS.

REPRESENTATIVE EDGE OF PAVEMENT FOR MEDIAN CROSSOVER NOT SHOWN.

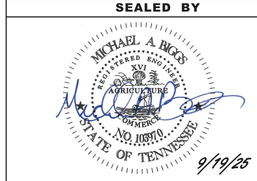


LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

1 WORKERS PRESENT WHEN FLASHING / REDUCE SPEED $ 500 FINE MAX

TN-44 78" x 60" (USE AS REQ'D)

SEALED BY



COORDINATES ARE NAD 83(CONUS). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

BEGIN TO STA. 6+00

SCALE: 1"= 50'

PHASE IB

9/19/2025 10:15:28 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T8

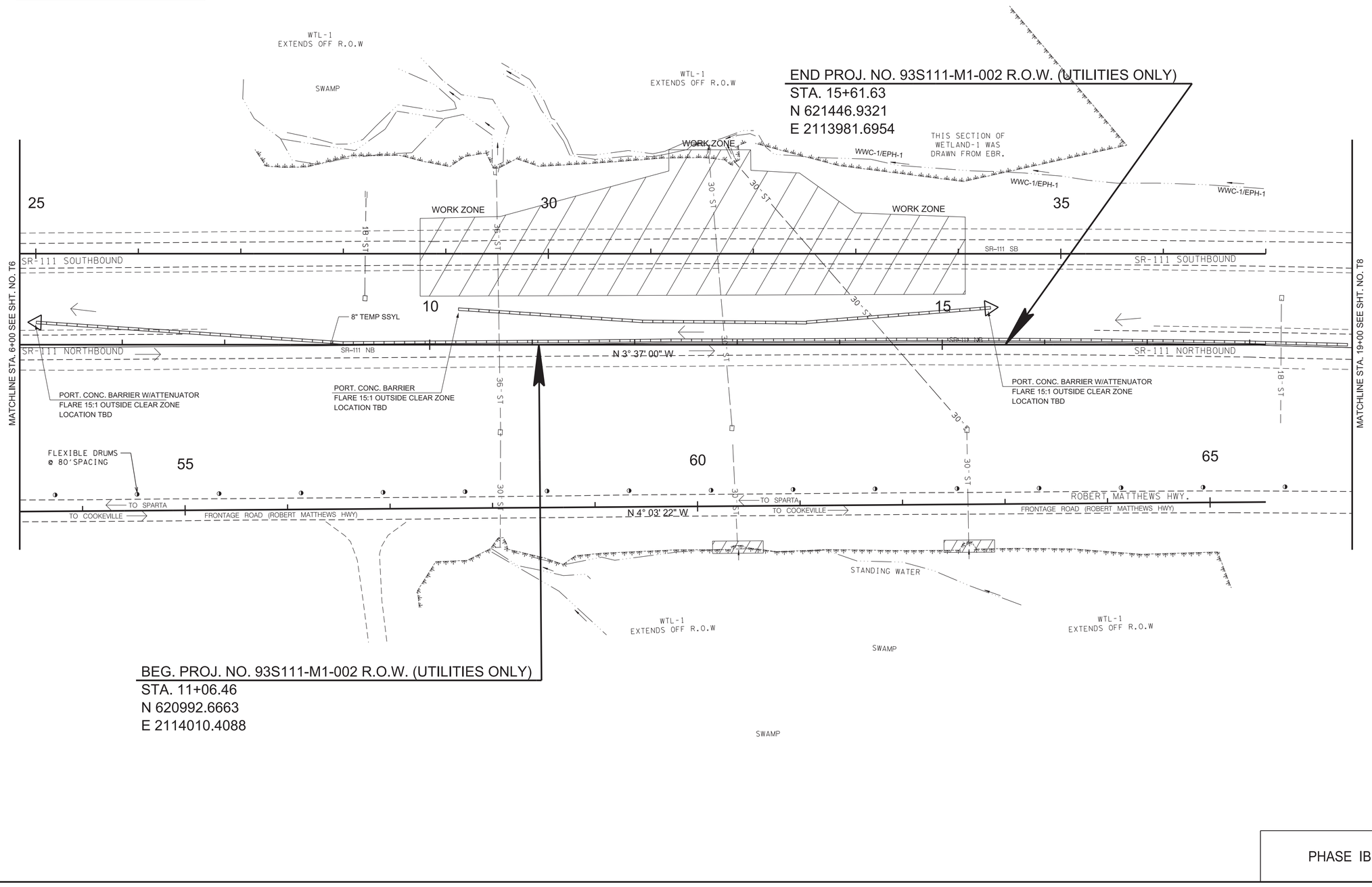
REV. 08-27-25: ADDED SHEET.

NOTE:
CONTRACTOR IS TO REFER TO TDOT STANDARD DRAWING T-WZ-19 FOR CONSTRUCTION OF MEDIAN CROSSOVER. CONTRACTOR IS TO ADJUST ANY TRAFFIC CONTROL DEVICES IN ORDER TO MEET MUTCD AND TDOT STANDARDS.

REPRESENTATIVE EDGE OF PAVEMENT FOR MEDIAN CROSSOVER NOT SHOWN.

LIMIT OF CONSTRUCTION IS OFF
THE PAGE AT STA. 200+00.00
(SR-111 SOUTHBOUND CROSSOVER)
SEE SHEET T3

LIMIT OF CONSTRUCTION IS OFF
THE PAGE AT STA. 222+31.15
(SR-111 SOUTHBOUND CROSSOVER)
SEE SHEET. T3



BEG. PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 11+06.46
N 620992.6663
E 2114010.4088

SEALED BY

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

PHASE IB

9/19/2025 10:15:29 AM
Y:\Projects\0015000\0016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T8.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T9

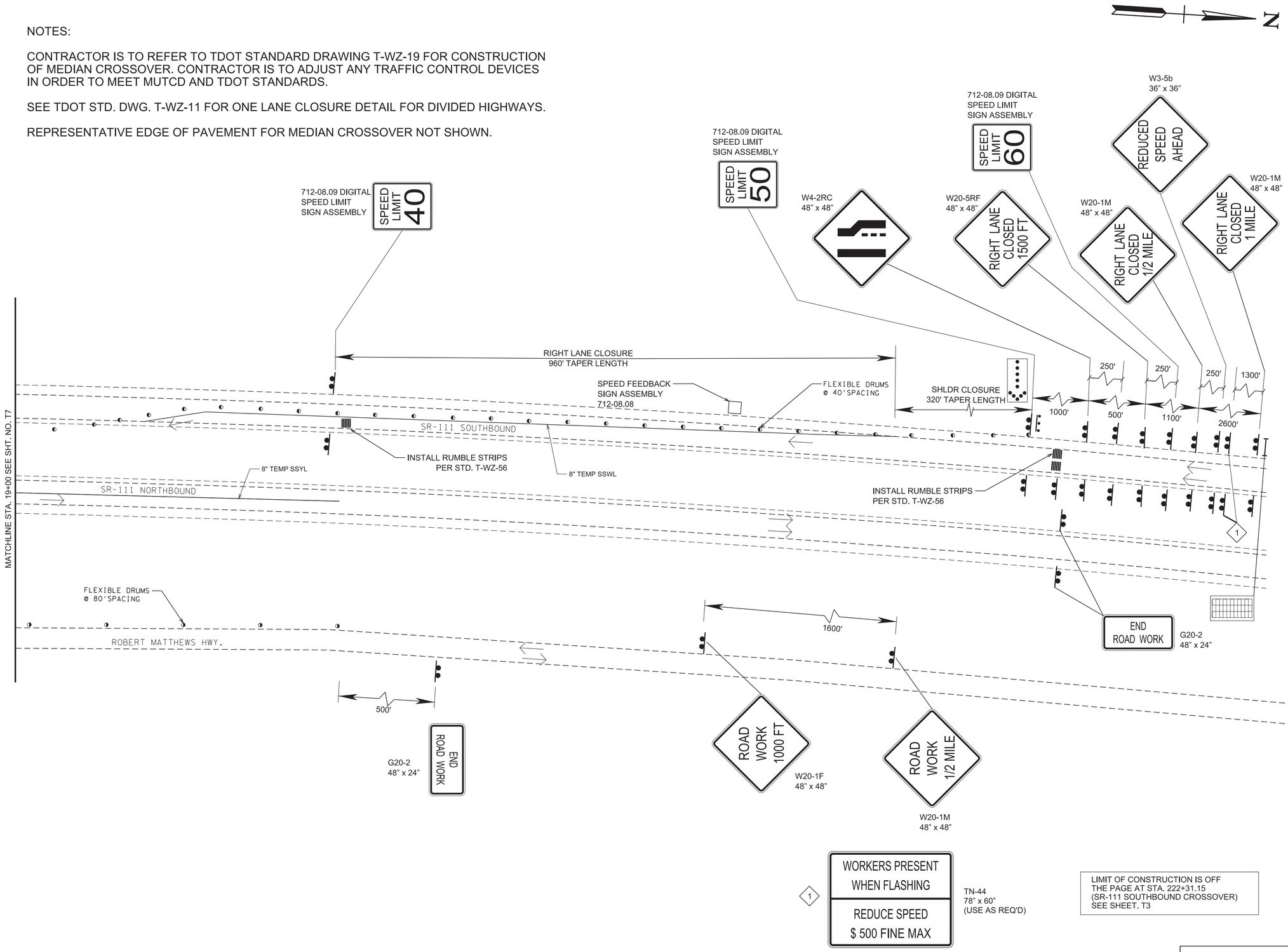
REV. 08-27-25: ADDED SHEET.

NOTES:

CONTRACTOR IS TO REFER TO TDOT STANDARD DRAWING T-WZ-19 FOR CONSTRUCTION OF MEDIAN CROSSOVER. CONTRACTOR IS TO ADJUST ANY TRAFFIC CONTROL DEVICES IN ORDER TO MEET MUTCD AND TDOT STANDARDS.

SEE TDOT STD. DWG. T-WZ-11 FOR ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS.

REPRESENTATIVE EDGE OF PAVEMENT FOR MEDIAN CROSSOVER NOT SHOWN.



LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

SEALED BY

MICHAEL A BIGGS REGISTERED ENGINEER XVI AGRICULTURE COMMERCE NO. 108970 STATE OF TENNESSEE

9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 19+00 TO END

SCALE: 1"= 50'

PHASE IB

9/19/2025 10:15:30 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONSTR.	2025	93S111-M3-002	T10

REV. 08-27-25: ADDED SHEET.

SEE SHEETS T11-T16 FOR
PHASE II SIGNING AND MARKING

100 105 110 115 120 125 130 135 140 145

POT 100+00.00

PC 103+42.17

CURVE DC200
PI 110+16.67
N 619,392.3347
E 2,114,139.1032
~ 20^ 01' 42" (LT)
D 1^ 30' 00"
R 3,819.72
L 1,335.23
T 674.50
SE 0.030 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 150

PT 116+77.40

CURVE DC201
PI 121+69.10
N 620,543.3458
E 2,113,951.5121
~ 5^ 16' 57" (RT)
D 1^ 00' 00"
R 5,729.58
L 528.24
T 264.31
SE 0.021 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 150

STRUCTURE #93SR111100102
3 SPAN BRIDGE

N 10^ 46' 18" E

STRUCTURE #93SR111100101
3 SPAN BRIDGE

LIMIT OF CONSTRUCTION
STA. 100+00.00
N 618393.5825
E 2113949.0906

SR-111 SOUTHBOUND (ASPH.)

SR-111 NORTHBOUND (ASPH.)

LIMIT OF COLD PLANE/OVERLAY
STA. 118+91.09
N 620264.3946
E 2113968.2244

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

WTL-1
EXTENDS OFF R.O.W

SWAMP

WWC-1/EPH-1

WWC-1/EPH-2

N 9^ 15' 24" W

LIMIT OF COLD PLANE/OVERLAY
STA. 112+58.47
N 619643.1869
E 2114103.6238

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

ROBERT MATTHEWS HWY.

PC 119+04.79

PT 124+33.03

MATCHLINE STA. 126+64.68 SEE BELOW

PI 128+05.04

CURVE DC202
PI 135+76.37
N 621,948.0824
E 2,113,861.3480
~ 8^ 07' 52" (RT)
D 1^ 00' 00"
R 5,729.58
L 813.12
T 407.25
SE 0.021 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 150

WTL-1
EXTENDS OFF R.O.W

THIS SECTION OF
WETLAND-1 WAS
DRAWN FROM EBR.

WWC-1/EPH-1

WWC-1/EPH-2

WWC-1/EPH-1

MATCHLINE STA. 126+64.68 SEE ABOVE

N 130^ 05' 04" W

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

ROBERT MATTHEWS HWY.

STANDING WATER

WTL-1
EXTENDS OFF R.O.W

WTL-1
EXTENDS OFF R.O.W

SWAMP

SWAMP

PC 131+69.12

CURVE DC203
PI 145+22.60
N 622,892.4838
E 2,113,939.1178
~ 2^ 40' 50" (LT)
D 1^ 00' 00"
R 5,729.58
L 268.06
T 134.06
SE 0.021 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 150

PC 143+88.54

PT 146+56.61

POT 149+20.90

APPROXIMATE LIMITS
FOR COLD PLANING
AND OVERLAY

LIMIT OF COLD PLANE/OVERLAY
STA. 143+19.53
N 622695.5081
E 2113856.7300

N 4^ 42' 27" E

N 2^ 01' 37" E

SR-111 SOUTHBOUND (ASPH.)

SR-111 NORTHBOUND (ASPH.)

LIMIT OF COLD PLANE/OVERLAY
STA. 138+74.26
N 622242.1293
E 2113952.0128

PT 139+82.25

LIMIT OF CONSTRUCTION
STA. 121+71.76
N 620665.4711
E 2114984.2971

PHASE II

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
AGRICULTURE
NO. 108170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NORTHBOUND CROSSOVER

STA.100+00 TO STA.121+71.76

SCALE: 1"= 50'

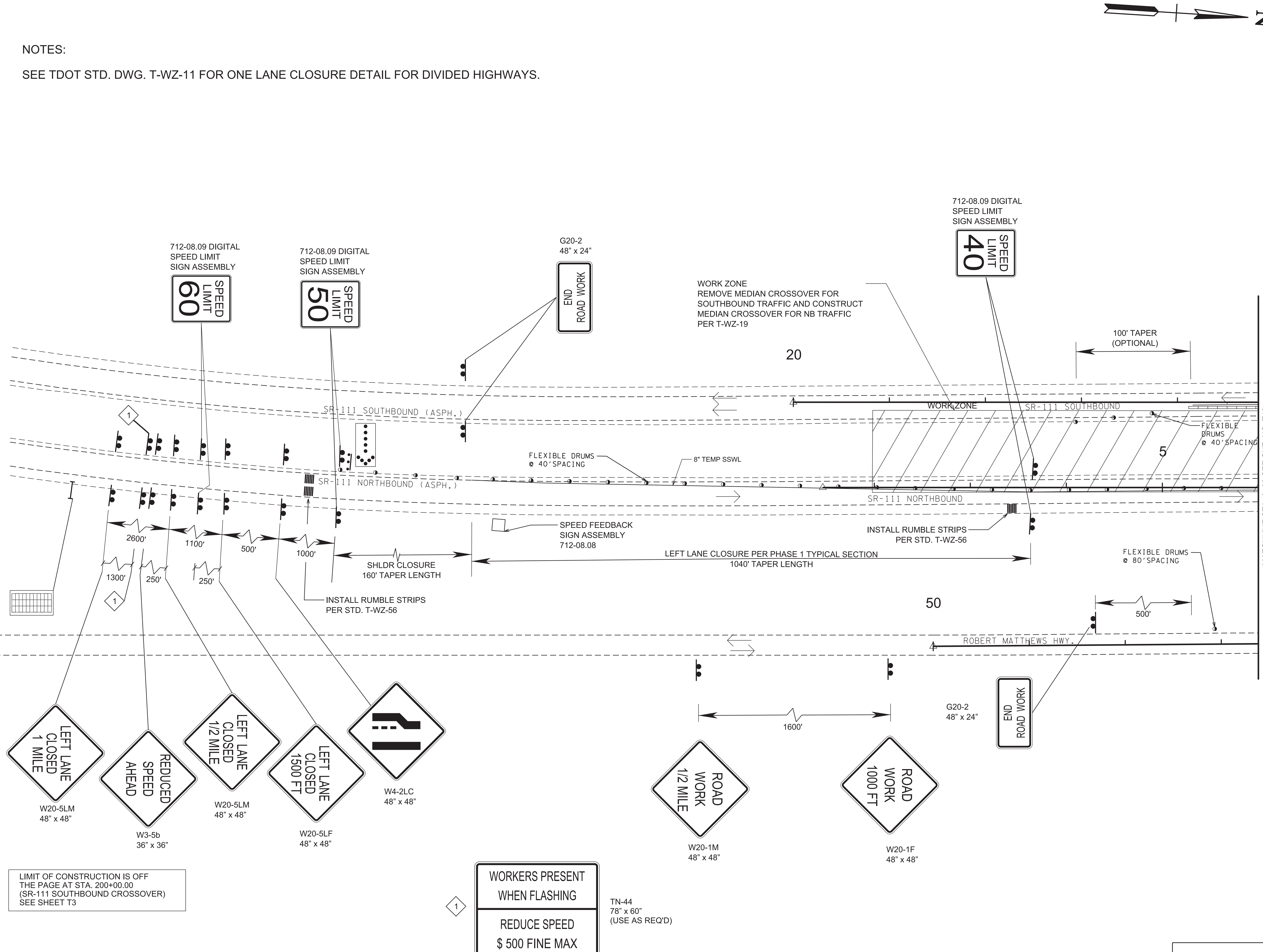
9/19/2025 10:15:32 AM
Y:\Projects\001500010016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T10.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T11

REV. 08-27-25: ADDED SHEET.

NOTES:

SEE TDOT STD. DWG. T-WZ-11 FOR ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS.



LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

SEALED BY

MICHAEL A. BIGGS, REGISTERED ENGINEER, NO. 100970, STATE OF TENNESSEE 9/19/25

COORDINATES ARE NAD 83(CONUS), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASE IIA

TRAFFIC CONTROL PLANS
BEGIN TO STA. 6+00
SCALE: 1"= 50'

9/19/2025 10:15:34 AM
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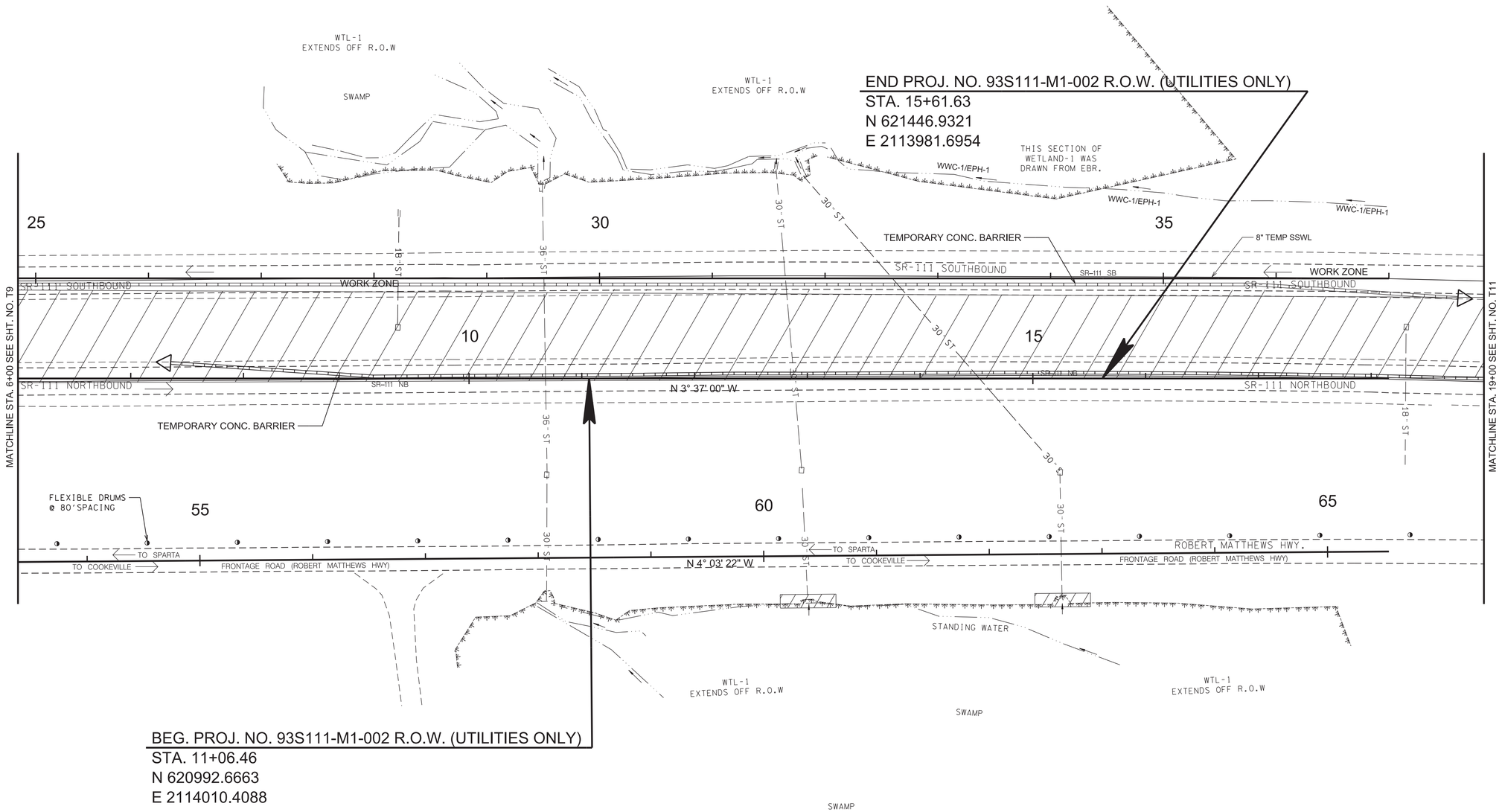
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T12

REV. 08-27-25: ADDED SHEET.

LIMIT OF CONSTRUCTION IS OFF
THE PAGE AT STA. 200+00.00
(SR-111 SOUTHBOUND CROSSOVER)
SEE SHEET T3

LIMIT OF CONSTRUCTION IS OFF
THE PAGE AT STA. 222+31.15
(SR-111 SOUTHBOUND CROSSOVER)
SEE SHEET. T3



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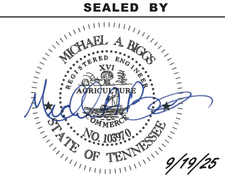

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OF 1.000000 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

PHASE IIA

9/19/2025 10:15:35 AM
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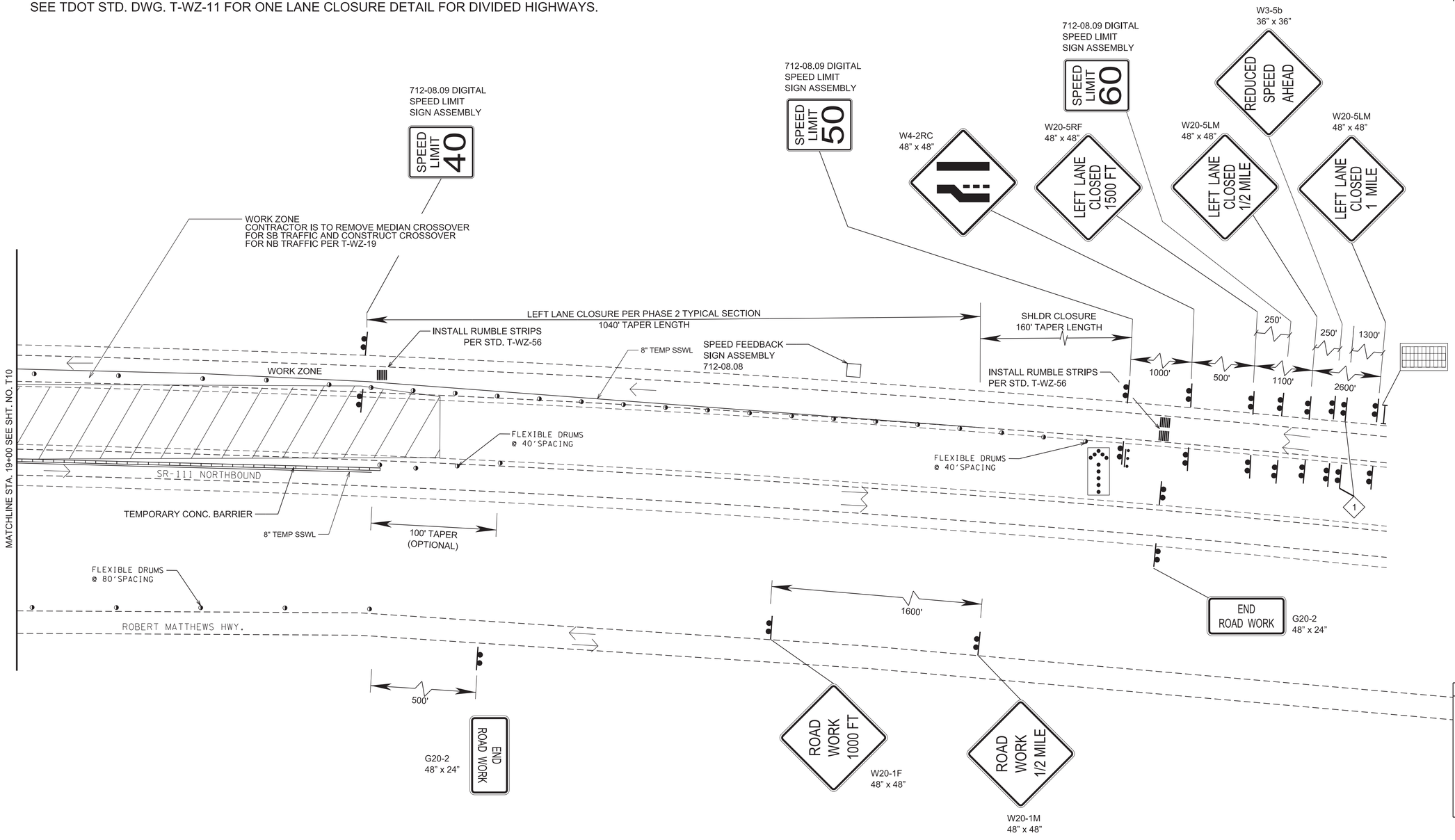
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T13

REV. 08-27-25: ADDED SHEET.

NOTES:

SEE TDOT STD. DWG. T-WZ-11 FOR ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS.



1 — WORKERS PRESENT WHEN FLASHING / REDUCE SPEED $ 500 FINE MAX — TN-44 78" x 60" (USE AS REQ'D)

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

SEALED BY

MICHAEL A BIGGS — REGISTERED ENGINEER — AGRICULTURE COMMERCE — NO. 109711 — STATE OF TENNESSEE

9/19/25

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 19+00 TO END

SCALE: 1"= 50'

PHASE IIA

9/19/2025 10:15:36 AM
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PHASE NOTES:

WORKZONE LOCATION AND DESIGN OF MEDIAN CROSSOVER TO BE DETERMINED BY CONTRACTOR PER STD T-WZ-19. TRAFFIC CONTROL MAY BE ADJUSTED IN ACCORDANCE TO THE LOCATION OF THE MEDIAN CROSSOVER. ADDITIONAL TRAFFIC CONTROL DEVICES MAY REQUIRE IMPLEMENTATION PER THE MOST CURRENT VERSION OF THE MUTCD AND/OR PROJECT ENGINEER.

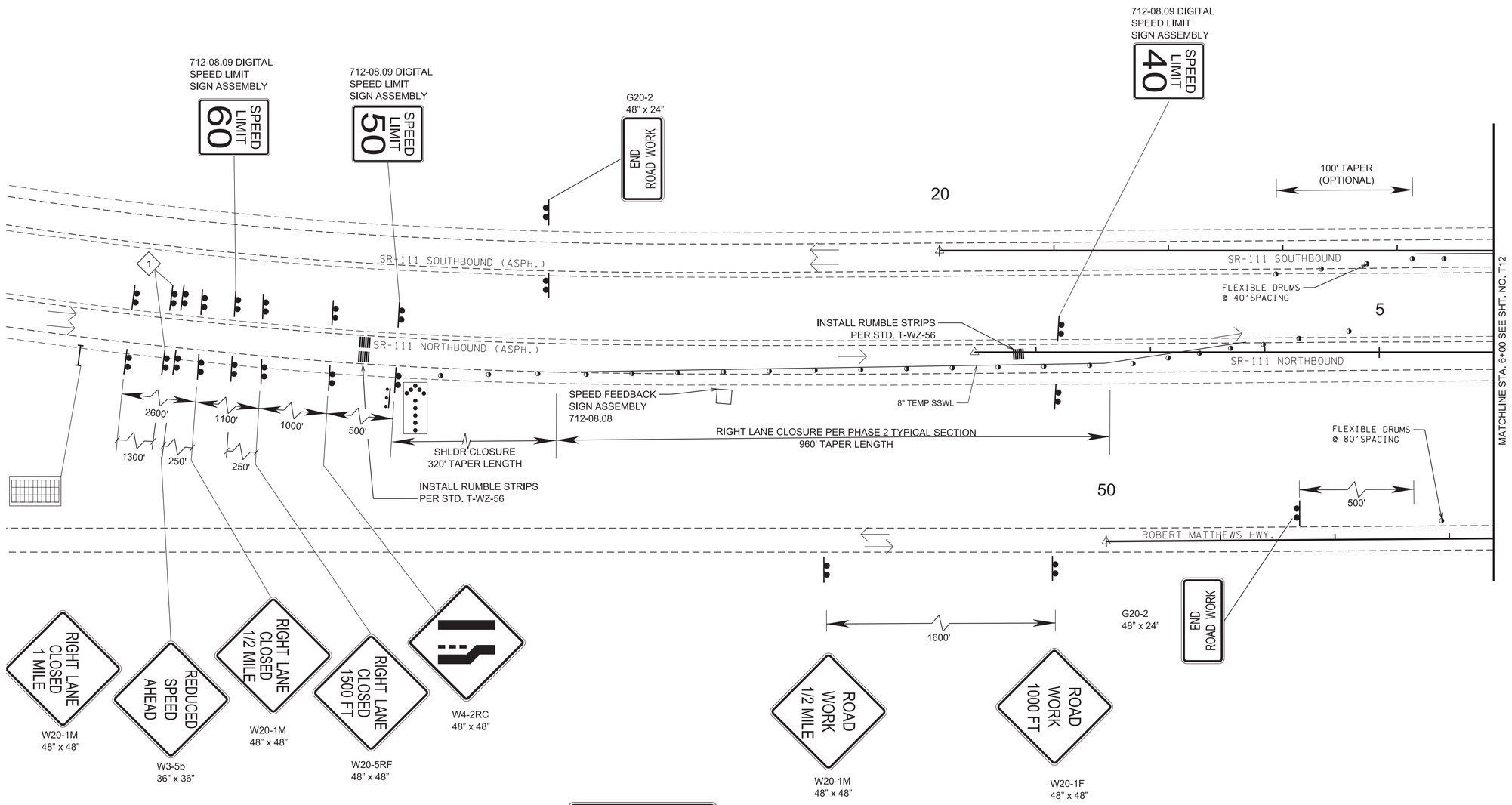
SEE TDOT STD. DWG. T-WZ-11 FOR ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS.

REPRESENTATIVE EDGE OF PAVEMENT FOR MEDIAN CROSSOVER NOT SHOWN.

N

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T14

REV. 08-11-25: ADDED SHEET.

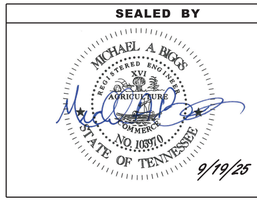


LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

1 WORKERS PRESENT WHEN FLASHING / REDUCE SPEED $ 500 FINE MAX

TN-44
78" x 60"
(USE AS REQ'D)

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

BEGIN TO STA. 6+00
SCALE: 1"= 50'

PHASE IIB

9/19/2025 10:15:38 AM
Y:\Projects\0015000\001650\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T14.sht

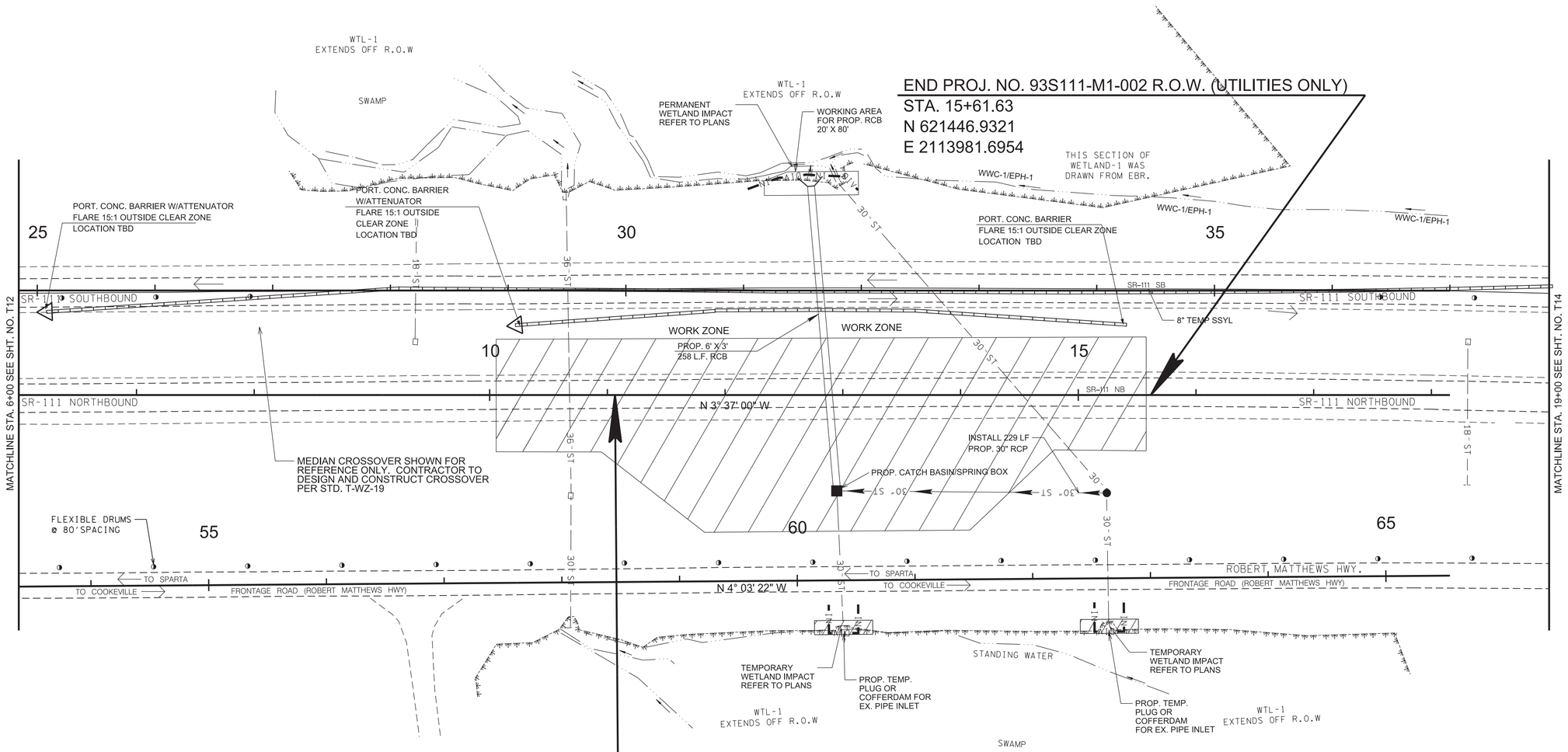
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T15

REV. 08-27-25: ADDED SHEET.

REPRESENTATIVE EDGE OF PAVEMENT FOR MEDIAN CROSSOVER NOT SHOWN.

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 200+00.00 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET T3

LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3



BEG. PROJ. NO. 93S111-M1-002 R.O.W. (UTILITIES ONLY)
STA. 11+06.46
N 620992.6663
E 2114010.4088

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
STATE OF TENNESSEE
NO. 108170
9/19/25

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 6+00 TO STA. 19+00
SCALE: 1"= 50'

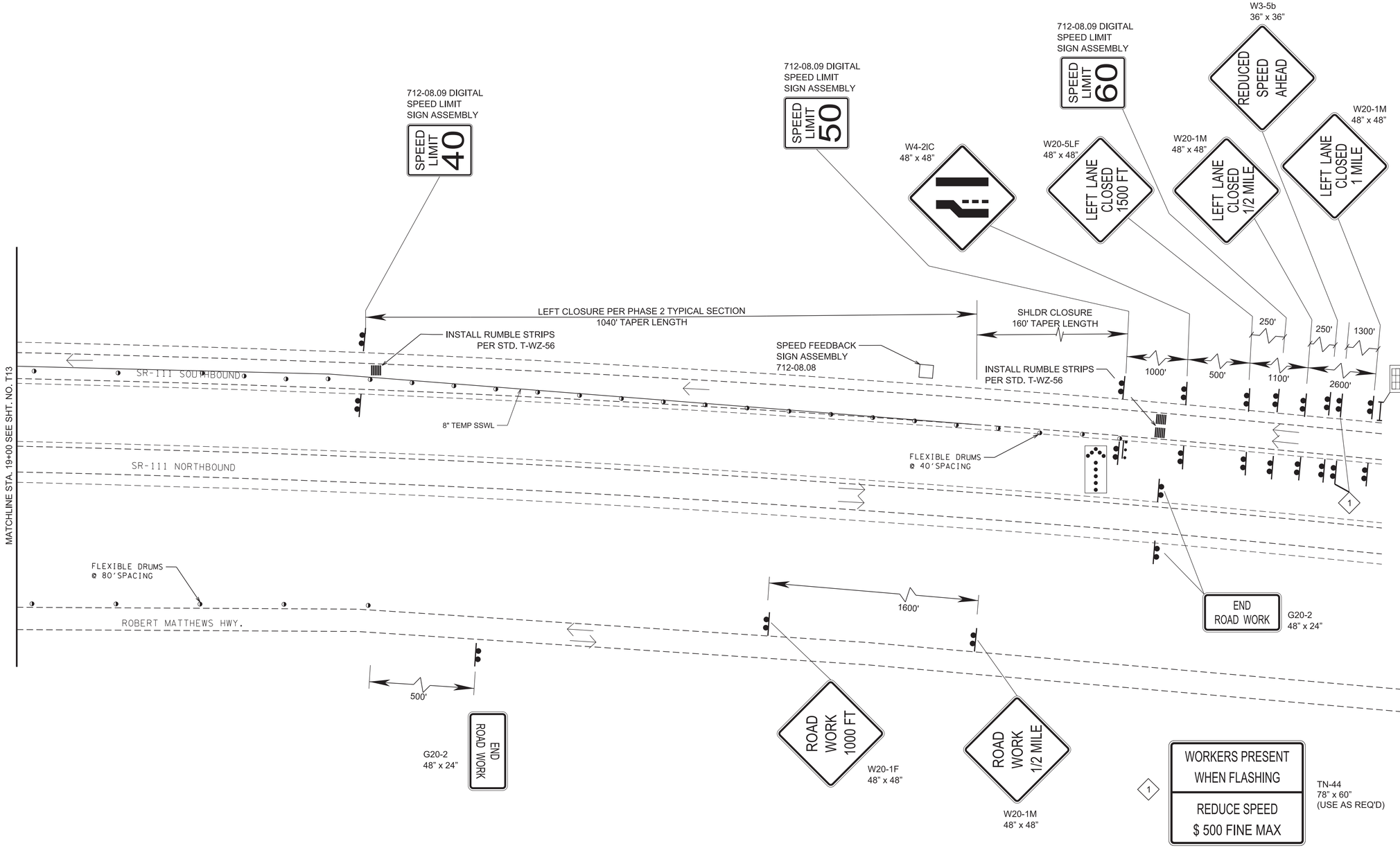
PHASE IIB

9/19/2025 10:15:39 AM
Y:\Projects\001500010016500\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T15.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	93S111-M3-002	T16

REV. 08-26-25: ADDED SHEET.

REPRESENTATIVE EDGE OF PAVEMENT FOR MEDIAN CROSSOVER NOT SHOWN.



LIMIT OF CONSTRUCTION IS OFF THE PAGE AT STA. 222+31.15 (SR-111 SOUTHBOUND CROSSOVER) SEE SHEET. T3

PHASE IIB

SEALED BY

MICHAEL A. BIGGS
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 108170
STATE OF TENNESSEE
9/19/25

COORDINATES ARE NAD 83(CONUS). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 19+00 TO END

SCALE: 1"= 50'

9/19/2025 10:15:40 AM
Y:\Projects\001500\001650\16756 TDOT Reg 2 On-Call Design Contract 21-24\Work Order #4-SR 111 Small Structures-White Co\DGN\1000-T16.sht

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Besmir Zenelaku

Digitally signed by Besmir Zenelaku
Date: 2025.07.10 15:37:14 -05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

TENNESSEE DEPARTMENT OF TRANSPORTATION
MATERIALS & TESTS DIVISION- GEOTECHNICAL ENGINEERING SECTION
6601 CENTENNIAL BLVD.
NASHVILLE, TN 37243
BESMIR ZENELAKU, P.E. NO. 124664

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN1
GEOTECHNICAL PLANS	G-2 - G-6

YEAR	PROJECT NO.	SHEET NO.
2025	93S111-M3-002	GEOTECH-SIGN1

REV. 07/03/2025: UPDATED NUMBER OF GEOTECHNICAL PLANS SHEETS.
UPDATED SEAL AND SIGNER NAME.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	93S111-M3-002	G-1

REV. 07/03/2025: UPDATED SHEET NAME OF SHEET NO. G-3 TO GEOTECHNICAL BORING LAYOUT. UPDATED SHEET NO. OF GEOTECHNICAL TYPICAL SECTIONS TO G-4 AND GEOTECHNICAL BORING PROFILES TO G-5, G-6.

GEOTECHNICAL INDEX

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GEOTECHNICAL
INDEX

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	93S111-M3-002	G-2

REV. 07/03/2025: REMOVED ITEM NO, 204-08 FOUNDATION FILL MATERIAL TO TABULATED GEOTECH QUANTITES. ADDED ITEM NO. 303-10.07 MINERAL AGGREGATE (SIZE 4) TO TABULATED GEOTECH QUANTITES. UPDATED ALL QUANTITY AMOUNTS IN TABULATED GEOTECH QUANTITES. UPDATED SEAL.

DEFINITION OF EARTHWORK TERMS

THE TERMS AND DEFINITIONS BELOW SHALL CHARACTERIZE THE MATERIAL TYPE THAT WILL BE ENCOUNTERED DURING EXCAVATION AND GRADING. SEE TYPE MATERIAL REFERENCE IN TYPICAL SECTIONS LEGEND.

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, WATER OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT END EXCAVATORS/LOADERS.

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E. BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCK CUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTRUCTION PRODUCTS.

C. SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PURPOSES THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS.

D. TRANSITIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIALS A, B, AND C) OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E. SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH LATERALLY AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OR BOULDERS ALONG WITH A RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.

TABULATED GEOTECH QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	850
(1)	203-05	UNDERCUTTING	C.Y.	482
(1)	303-10.07	MINERAL AGGREGATE (SIZE 4)	TON	57
(1)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	579

FOOTNOTES:

(1) FOR BIDDING PURPOSES, THESE QUANTITES ARE INCLUDED IN SHEET 2 SERIES.

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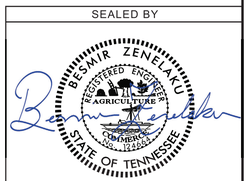
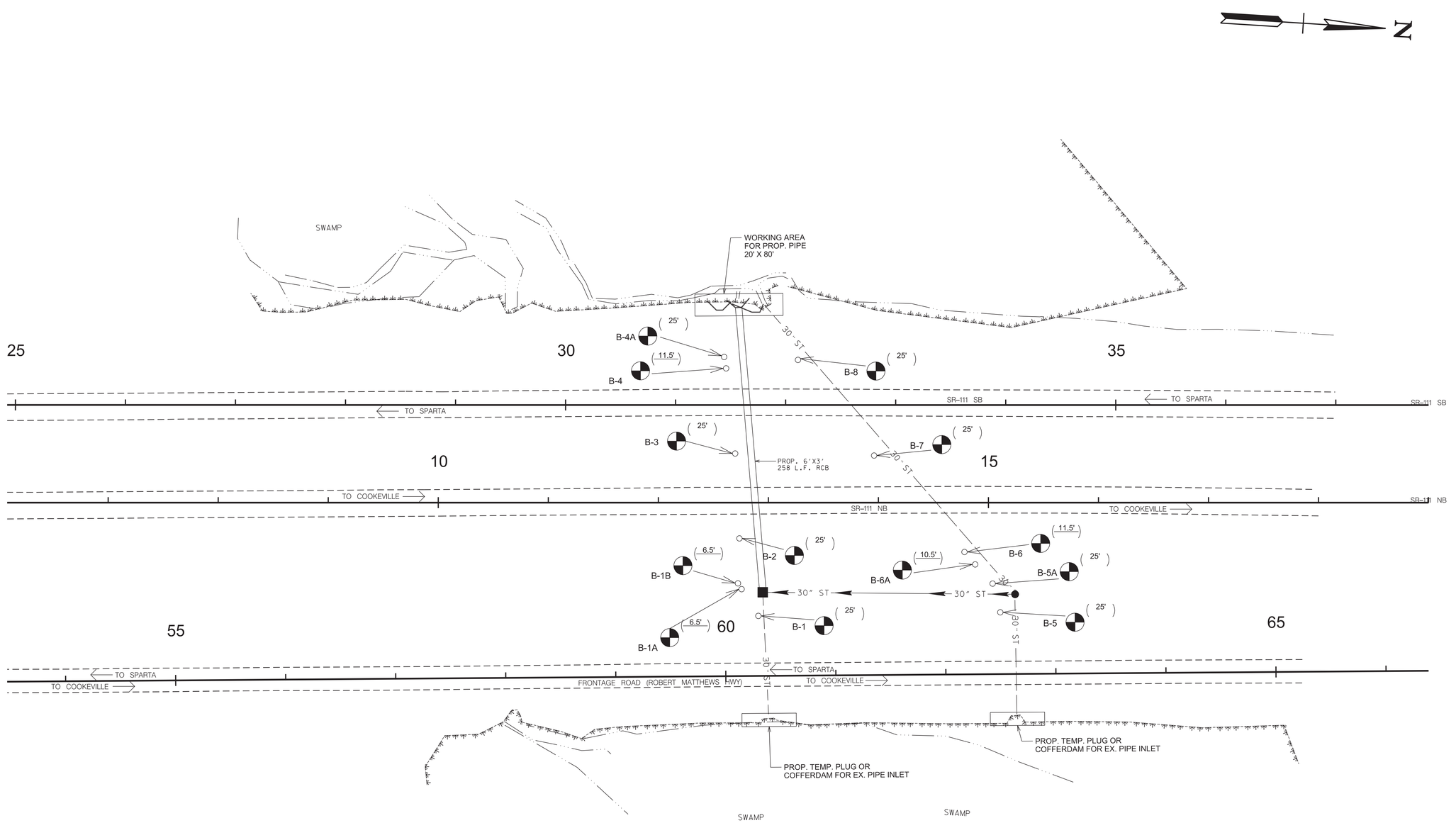


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL NOTES & EST. QTYS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	93S111-M3-002	G-3

REV. 07/03/2025: UPDATED TO INCLUDE NEW DESIGN. UPDATED SEAL.



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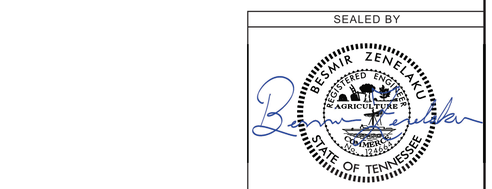

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERNCED TO THE NAVD 1988 WITH GEOLD 18.

LEGEND

B-1 (24.5') — BORING LOCATION WITH DEPTH TO REFUSAL

B-1 (24.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

CELL BDRSG
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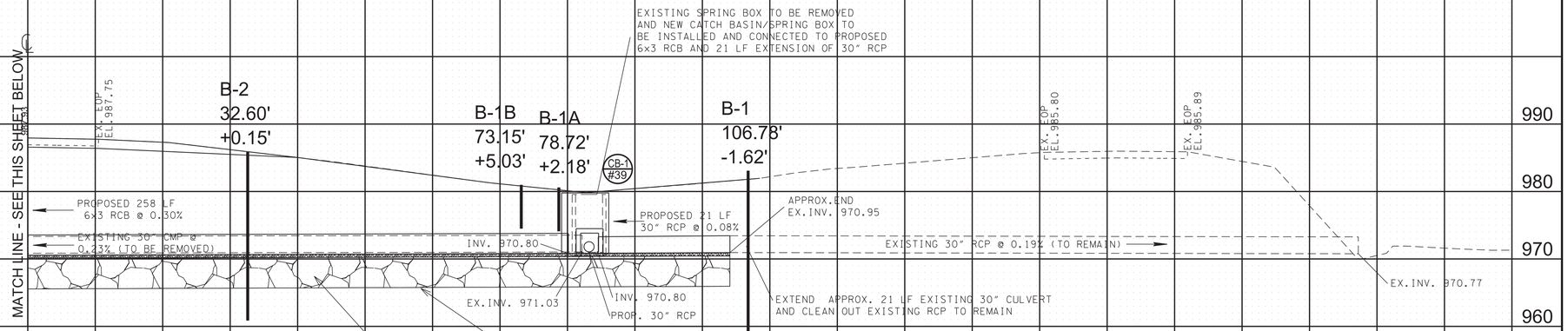
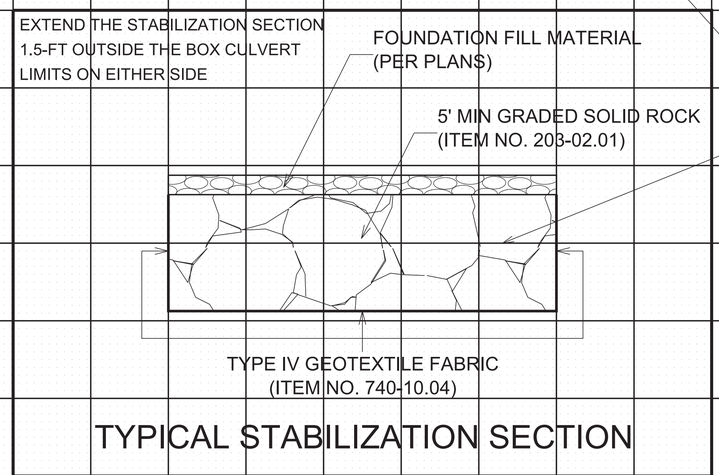
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	93S111-M3-002	G-4

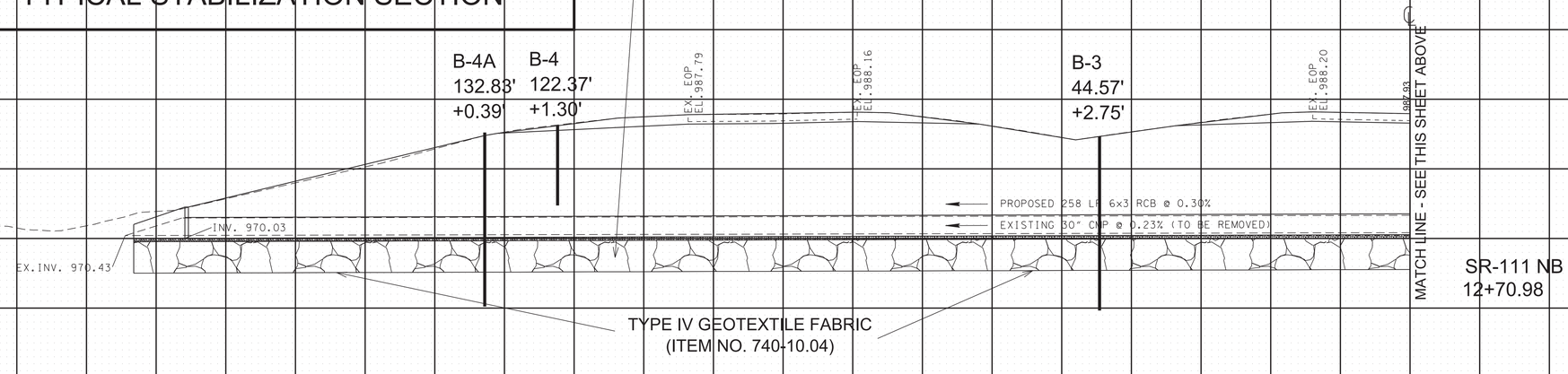
REV. 07/03/2025: UPDATED LENGTH AND DEPTH OF STABILIZATION SECTION. UPDATED SEAL.





TYPE IV GEOTEXTILE FABRIC
(ITEM NO. 740-10.04)

UNDERCUT A MINIMUM OF 5-FT AND REPLACE WITH GRADED SOLID ROCK (ITEM NO. 203-02.01). USE #4 STONE (ITEM NO. 303-10.07) TO CHOCK VOIDS WITHING THE GRADED SOLID ROCK.



TYPE IV GEOTEXTILE FABRIC
(ITEM NO. 740-10.04)

SEE SHEET G-5 FOR DETAILED BORING PROFILES

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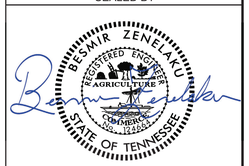

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOLD 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
TYPICAL SECTIONS

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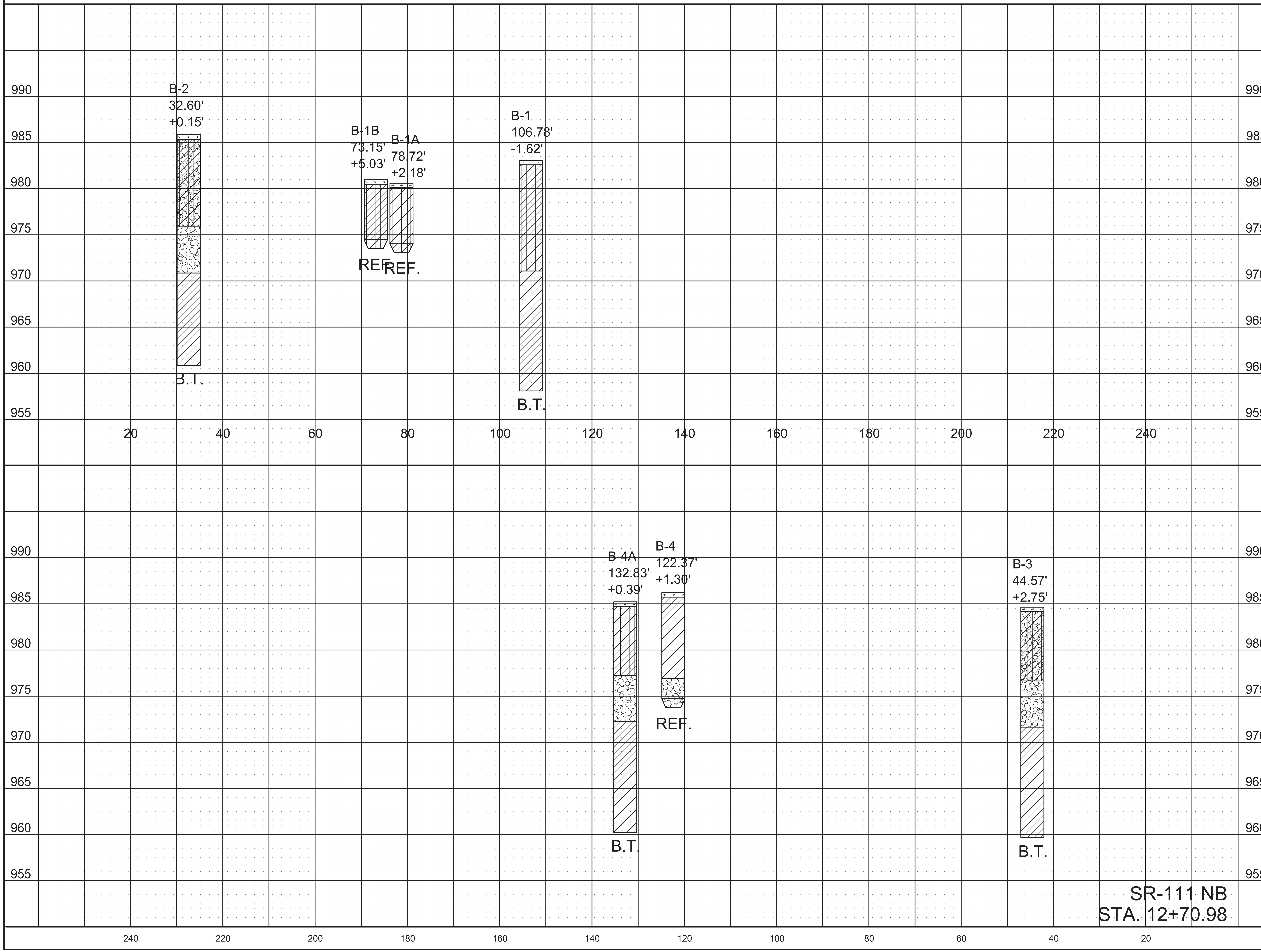
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	93S111-M3-002	G-5

REV. 07/03/2025: UPDATED SHEET NO. TO G-5. UPDATED SEAL.



LEGEND

- TOPSOIL
- SILTY CLAY (TYPE A MATERIAL)
- SANDY CLAY (TYPE A MATERIAL)
- SILTY CLAY WITH ROCKFILL FRAGMENTS
- ROCKFILL
- CLAY (TYPE A MATERIAL)

TYPE MATERIAL-SEE DEFINITION OF EARTHWORK TERMS ON NOTES AND GEOTECHNICAL EST. QTYS. SHEET.
B.T.= BORING TERMINATED
REF.= AUGER REFUSAL

SEALED BY

BESMIR ZENELAKU · REGISTERED ENGINEER · AGRICULTURE · COMMERCE · STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOLD 18.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING PROFILE

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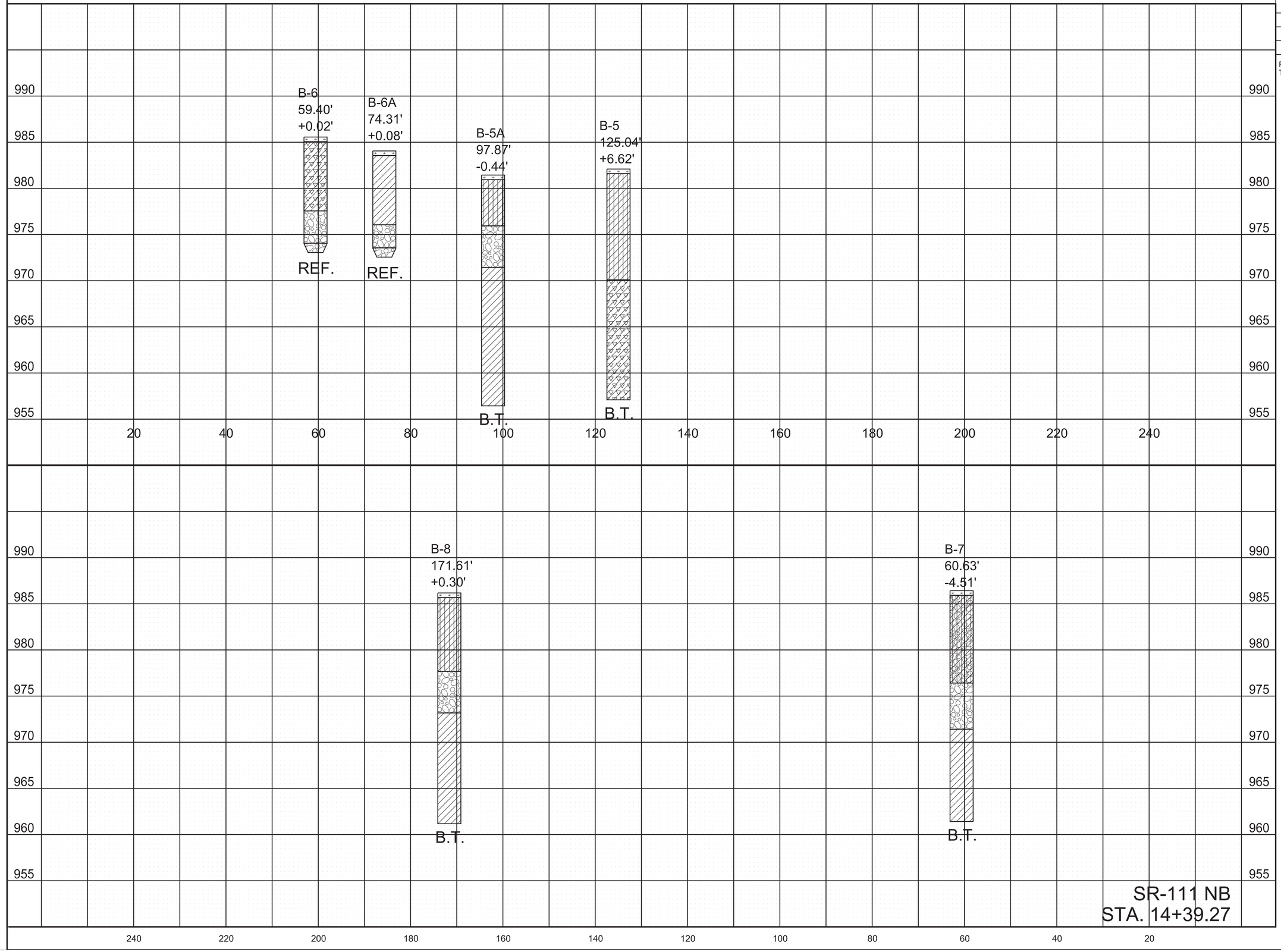

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	93S111-M3-002	G-6

REV. 07/03/2025: UPDATED SHEET NO. TO G-6. UPDATED SEAL.

LEGEND

- TOPSOIL
- SILTY CLAY (TYPE A MATERIAL)
- CLAY WITH CHERT FRAGMENTS
- ROCKFILL
- CLAY (TYPE A MATERIAL)
- SILTY CLAY WITH ROCKFILL FRAGMENTS

TYPE MATERIAL-SEE DEFINITION OF EARTHWORK TERMS ON NOTES AND GEOTECHNICAL EST. QTYS. SHEET.
B.T.= BORING TERMINATED
REF.= AUGER REFUSAL

SEALED BY

BESMIR ZENELAKU
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOLD 18.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING PROFILE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2022	93S111-M1-002	
CONSTR	2025	93S111-M3-002	S-1

SWPPP INDEX OF SHEETS

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

1. SWPPP REQUIREMENTS (5.0.)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.2)?

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

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

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (5.2.)? YES ☐ NO ☒

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

1.3. DO THE PROJECT STORMWATER OUTFALLS DISCHARGE INTO THE FOLLOWING (6.4.1.)? ☐ YES (CHECK ALL THAT APPLY BELOW) ☒ NO

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

2. SITE DESCRIPTION (5.5.1.)

2.1. PROJECT LIMITS (5.5.1.f): REFER TO TITLE SHEET

2.2. TOTAL PROJECT AREA (5.5.1.b): 4.16 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 4.16 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: SR-111, CULVERT REPLACEMENT, LM 15.76
COUNTY: WHITE
PIN: 132458.00

2.5. SITE MAP(S) (3.2.2.): REFER TO TITLE SHEET

2.6. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (5.5.1.c): REFER TO EXISTING CONTOURS SHEET(S) 12, 13, 13A, 14,, DRAINAGE MAP SHEET(S) 7, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.

2.7. MAJOR SOIL DISTURBING ACTIVITIES (5.5.1.a) (CHECK ALL THAT APPLY):

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

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

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

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

☐ YES _____ (DATE) ☒ NO

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

2.11. SOIL PROPERTIES (5.5.1.d, 5.5.3.3.d, 5.5.3.6.b).

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

SOIL PROPERTIES

PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
CURTISTOWN SILT LOAM, 2 TO 5 PERCENT SLOPES	B	25	18.5
DECATUR SILT LOAM, 2 TO 5 PERCENT SLOPES	B	4.8	3.5
DECATUR SILT LOAM, 5 TO 12 PERCENT SLOPES	B	9.1	6.6
ETOWAH SILT LOAM, 5 TO 12 PERCENT SLOPES	B	5.3	7.4
GUTHRIE SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY PONDED	C/D	19.8	27.5
TAFT SILT LOAM, 0 TO 2 PERCENT SLOPES	C/D	12.3	17.1
WAYNESBORO LOAM, 2 TO 5 PERCENT SLOPES	B	2.9	2.8
WAYNESBORO LOAM, 5 TO 12 PERCENT SLOPES	B	4.1	5.7

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

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

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

2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (5.5.3.6.a).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS, EXIST PAVEMENT, DRIVEWAYS	0.004	0.1		0.8
PERVIOUS: GRASSY, EARTH, SHOULDER	4.156	99.9		0.2
WEIGHTED CURVE NUMBER OR C-FACTOR =				

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS: PAVEMENT, DRIVEWAYS	0.006	0.15		0.8
PERVIOUS: , EARTH,, SHOULDER	4.154	99.85		0.2
WEIGHTED CURVE NUMBER OR C-FACTOR =				

3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)

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

3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 12, 13, 13A, 14)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

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

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

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

3.6. REMOVE AND STORE TOPSOIL.

3.7. STABILIZE DISTURBED AREAS WITHIN 2 WEEKS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY (STEEP SLOPES SHALL BE STABILIZED WITHIN 1 WEEK AFTER CONSTRUCTION ACTIVITY HAS TEMPORARY OR PERMANENTLY CEASED).

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

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

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

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

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

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

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

4.1. STREAM INFORMATION (5.5.1.h, 5.5.1.i)

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

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

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

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

4.1.3. RECEIVING WATERS OF THE STATE (5.5.1.h, 5.5.1.j, 5.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION

TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	GLADE CREEK	-	-	NO	NO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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4.1.4. RECEIVING WATERS OF THE US (NON STATE WATERS) (4.1.2). LIST ANY FEATURE THAT IS IDENTIFIED AS A WET WEATHER CONVEYANCE (TDEC) AND IDENTIFIED AS WATERS OF THE US BY THE ARMY CORPS OF ENGINEERS.

WET WEATHER CONVEYANCES THAT ARE WATERS OF THE US		
TDOT STATE WATER LABEL FROM EBR	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
WWC-1/EPH-1	NO	YES

4.1.5. REQUIRED FOR WATERS OF THE STATE? (5.5.1.l, 6.4.2.)

☐ YES ☒ NO

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

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

IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

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

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

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

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

☐ 15-FEET FOR ANY WET WEATHER CONVEYANCES IDENTIFIED AS WATERS OF THE US BY THE US ARMY CORPS OF ENGINEERS.

4.1.6. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (1.5.2.)

☐ YES ☒ NO

4.1.7. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1.) ☐ YES ☒ NO

IF YES, EXISTING CONDITIONS DESCRIPTION:_____

4.1.8. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (4.1.2., 6.4.2.)

4.1.9. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

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

4.2. OUTFALL INFORMATION

4.2.1. OUTFALL TABLE (5.5.1.c). SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION.

4.2.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (5.5.1.f)? ☒ YES ☐ NO

4.2.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (3.2.2.)? ☒YES ☐ NO

4.2.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☒ YES ☐ NO ☐ N/A

4.2.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S) OR SEDIMENT TRAP(S)? (5.5.3.5.)

☒ YES ☐ NO ☐ N/A

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

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (5.5.3.5)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.e).

ALL CALCULATIONS RELATED TO DRAINAGE AREAS, RUNOFF COEFFICIENTS, BASIN VOLUMES AND EQUIVALENT CONTROL MEASURES MUST BE PROVIDED IN THE SWPPP (5.5.3.5.)

4.2.7. A SEDIMENT TRAP, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF 3.5 - 4.9 ACRES FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS (303d SILTATION) OR EXCEPTIONAL TENNESSEE WATERS (ETW). A SEDIMENT TRAP THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.f).

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

4.2.8. SEDIMENT STRUCTURES TREATING DRAINAGE AREAS IN EXCESS OF 25 ACRES REQUIRE A SITE-SPECIFIC DESIGN THAT ACCURATELY DEFINES THE SITE HYDROLOGY, SITE-SPECIFIC SEDIMENT LOADING, HYDRAULICS OF THE SITE, AND ADHERES TO ALL TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK DESIGN RECOMMENDATIONS FOR SEDIMENT BASINS. (5.5.3.5.)

4.3. WETLAND INFORMATION

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

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

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)
WTL-1	31+ 12.00 LT	31 + 92.00 LT	-	0.012
WTL-1	60 + 10.00 RT	60 + 94.00 RT	0.011-	-

4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (1.3.j)

4.4.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☐YES ☒ NO

4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☒ NO

4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION?

☐ YES ☐ NO

IF YES, SWPPP INCORPORATES MEASURES OR CONTROLS CONSISTENT WITH THE ASSUMPTIONS AND REQUIREMENTS OF THE TMDL.

4.5. ECOLOGY INFORMATION (3.5.5.e)

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

☐ YES ☒ NO

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

4.6. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☐ YES ☒ NO

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

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)

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

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

5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (5.5.3.5.)?

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 2-YEAR, 24 HOUR STORM EVENT (5.5.3.5., 6.4.1.b).

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (5.5.1.f)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED),

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SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

5.9. HAS A THREE STAGED EPSC PLAN BEEN PREPARED FOR THE PROJECT (5.5.2.)?

YES ☒ NO ☐

PLEASE NOTE THAT A THREE STAGED EPSC PLAN IS REQUIRED FOR ALL TDOT PROJECTS FOR WHICH AN NPDES PERMIT IS REQUIRED.

5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (5.5.3.4.) (10. "STEEP SLOPE")? ☐ YES ☒ NO ☐ N/A

5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (5.5.1.h). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET 7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.

5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 2,11 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (5.1., 5.5.3.1.b, 5.5.3.5.).

5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.

5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.

5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.

5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.

5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.

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

5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 2 & 11 (5.5.3.1.j).

5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.3.).

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

5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (5.5.3.5.).

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

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

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

5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 2 WEEKS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (5.5.3.5.f).

5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 2 WEEKS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (5.5.3.4.).

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

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

5.30. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 1 WEEK AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (5.5.3.4.).

6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.5.3.5.)? ☐ YES ☒ NO

IF YES, THE FOLLOWING NOTES APPLY:

6.1. ENSURE THE FLOCCULANT EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE (5.5.3.5.). AND MEET THE FOLLOWING REQUIREMENTS:

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

6.1.2. HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE (MILLIGRAM PER MOLE).

6.1.3. MIXTURE IS NON-COMBUSTIBLE.

6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

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

6.3. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPS REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF FLOCCULANTS ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. FLOCCULANT EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY. THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR THIS PROJECT.

6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

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

6.6. FLOCCULANT POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER. MIXING OF THE FLOCCULANT POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

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

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

6.9. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☐ YES ☒ NO

IF YES, THE FOLLOWING APPLY:

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

7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORKDAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.

7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.

7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE.

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ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH PERMANENT VEGETATIVE COVER.

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

7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.

7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:

7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.

7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.

7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (5.5.3.9.)

8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (5.5.3.10.):

8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC “LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL” COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.

8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.

8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).

8.1.1.5. SUCCESSFULLY COMPLETED TDEC “LEVEL II – DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES” COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR’S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 “INSPECTOR”) (5.5.1.f).

8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.

8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (5.5.3.11.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.

8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (5.5.3.11.a).

8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN PERMANENTLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (5.5.3.11.b).

8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 “INSPECTOR”).

8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 1 WEEK OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 2 WEEKS OF THE INSPECTION (5.5.3.11.e AND 5.5.3.11.f).

8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE “DOCUMENTATION AND PERMITS” BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET PERMANENT STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.

8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (5.5.3.11.h).

8.2. DULY AUTHORIZED REPRESENTATIVE (8.7.3.)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

8.3. MAINTENANCE PRACTICES (5.1 AND 8.13.)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (5.1. AND 5.5.3.1.b)

8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (5.5.3.11.e).

8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (5.5.3.1.d).

8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.

8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.

8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (5.5.3.7.a).

8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (5.5.3.8.)

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

10. STORMWATER MANAGEMENT (5.5.3.11.h)

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

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (5.5.3.6.c): CLEARING & GRUBBING, SODS SLOPES, SILT FENCE, SEDIMENT TUBES, ROCK CHECK DAM.

10.3. OTHER ITEMS NEEDING CONTROL (5.5.3.7.)

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED

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

10.5. HAZARDOUS WASTE (5.5.3.7.c) (8.8)

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

10.6. SANITARY WASTE (5.5.3.7.b)

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

10.7. OTHER MATERIALS

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

☒ FERTILIZERS AND LIME

☐ PESTICIDES AND/OR HERBICIDES

☒ DIESEL AND GASOLINE

☒ MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (5.5.3.12.)

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

☐ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.

☐ WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.

☒ WATER USED TO CONTROL DUST. (3.5.3.1.n)

☐ POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.

☐ UNCONTAMINATED GROUNDWATER OR SPRING WATER.

☐ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.

☐ OTHER: _____

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

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

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

11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (5.5.1.g)?

☐ YES ☒ NO

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

12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (5.5.3.7.c, 6.1)

12.1. SPILL PREVENTION (5.5.3.7.c)

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

12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW PRIOR TO STORING 1320 GALLONS ON SITE.

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

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

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

12.2.2. HAZARDOUS MATERIALS

PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3. PRODUCT SPECIFIC PRACTICES

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

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

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

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

12.4. SPILL MANAGEMENT

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

12.4.1. ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANGE OF LEAKAGE AND SPILLS.

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

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

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

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

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

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

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

12.5. SPILL NOTIFICATION (6.1)

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

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

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

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

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APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE.

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (7.2.1.) (7.2.1.):

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

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

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

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

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

13.2. RAINFALL MONITORING PLAN (7.2.1.):

13.2.1. EQUIPMENT

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

13.2.2. LOCATION

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

13.2.3. METHODS

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

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

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

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

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

13.3. KEEPING PLANS CURRENT (5.4.)

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

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

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

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

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

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

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

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

13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 1 WEEK BY THE PROJECT EPSC INSPECTOR.

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

13.4. MAKING PLANS ACCESSIBLE

13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF PERMANENT STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (7.2.).

13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE PERMANENT STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (5.3.4.) (7.2.1.):

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

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

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

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

13.5. NOTICE OF TERMINATION (9.0.)

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

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

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

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

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

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

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

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

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

STATE OF TENNESSEE
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P.E.	2022	93S111-M1-002	
CONSTR	2025	93S111-M3-002	S-7

OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (7.1.)

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

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (8.7.5.)

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

Digitally signed by Scott Medlin
Date: 2025.06.16 17:38:06 -04'00'

AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

SCOTT MEDLIN

PRINTED NAME

TDOT MANAGER

TITLE

16 JUN 2025

DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (8.7.6.)

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

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (5.3.3.)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (1.5.2.)

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

ENVIRONMENTAL PERMITS			
PERMIT	**YES OR NO**	**PERMIT OR TRACKING NO.**	**EXPIRATION DATE***
TDEC ARAP			
CORPS OF ENGINEERS (USACE)			
TVA 26A			
TDEC CGP			
OTHER:			

*THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

STATE OF TENNESSEE
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STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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P.E.	2022	93S111-M1-002	
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17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)		STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
					IIA	IIB					
OUT-1	-	STA 13+00.00 RT	2.58	1.88	1.88	1.88	1.88	NO	NO	GLADE CREEK TO FALLING WATER RIVER AND DISCHARGED TO CANEY FORK (CENTER HILL LAKE)	CANEY FORK RIVER IS MORE THAN 4 MILES RADIUS AWAY FROM THE PROJECT
OUT-2	-	STA 15+10.00 RT	2.69	2.65	2.65	2.65	2.65	NO	NO	GLADE CREEK TO FALLING WATER RIVER AND DISCHARGED TO CANEY FORK (CENTER HILL LAKE)	CANEY FORK RIVER IS MORE THAN 4 MILES RADIUS AWAY FROM THE PROJECT
OUT-3	-	STA 9+40.00 LT	1.18	2.25	2.25	2.25	2.25	NO	NO	GLADE CREEK TO FALLING WATER RIVER AND DISCHARGED TO CANEY FORK (CENTER HILL LAKE)	CANEY FORK RIVER IS MORE THAN 4 MILES RADIUS AWAY FROM THE PROJECT
OUT-4	-	STA 18+40.00 LT	0.58	2.15	2.15	2.15	2.15	NO	NO	GLADE CREEK TO FALLING WATER RIVER AND DISCHARGED TO CANEY FORK (CENTER HILL LAKE)	CANEY FORK RIVER IS MORE THAN 4 MILES RADIUS AWAY FROM THE PROJECT
	-										
	-										

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

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UTILITY	2025	93S111-M2-002	U1-1
		132458.00	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

WHITE COUNTY

STATE ROUTE 111 SMALL STRUCTURE

SPECIAL NOTES

UTILITIES ARE MOVING AT NO COST TO THE STATE.

LOCATIONS ARE APPROXIMATE AND FOR REFERENCE ONLY

UTILITY OWNERS AND CONTACTS:

(NO RESPONSE - MOVE PRIOR, NO COST)
COMMS
FIBER:
BEN LOMAND CONNECT
PO BOX 670
MCMINNVILLE, TN 37111

MR. RICHARD BOYD
RICHARDBOYD@BENLOMAND.NET
(931) 668-6692

(NO KNOWN CONFLICTS)
ELECTRIC:
CANEY FORK ELECTRIC COOPERATIVE
PO BOX 272
MCMINNVILLE, TN 37111

MR. MICHAEL MILLRANEY
MMILLRANEY@CANEYFORKEC.COM
(931) 414-6730

(NO KNOWN CONFLICTS)
GAS:
MIDDLE TENNESSEE NATURAL GAS
1103 S. HAMILTON ST
PO BOX 670

MR. MATT STENNETT
MSTENNETT@MTNG.COM
(931) 754-3515

(NOT ON PROJECT)
WATER:
O'CONNOR UTILITY DISTRICT
250 SUMMITT DRIVE
SPARTA, TN 38583

MR. TONY MAGGART, II
OUD@BENLOMAND.NET
(931) 338-5610

(NO KNOWN CONFLICTS)
SEWER:
SPARTA PUBLIC WORKS
PO BOX 30
SPARTA, TN 38583

MR. DILLARD QUICK
D.QUICK@SPARTATN.GOV
(931) 738-2281

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE

1/21/2025 8:57:48 AM
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