

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Daniel McGaha Digitally signed by Daniel McGaha
Date: 2026.04.09 15:19:57-05'00'

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

HDR ENGINEERING, INC.
120 BRENTWOOD COMMONS WAY
SUITE 525
BRENTWOOD, TN 37027
DANIEL K. MCGAHA, P.E. NO. 108037

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
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS AND STANDARD TRAFFIC DESIGN DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2

YEAR	PROJECT NO.	SHEET NO.
2026	STP/HSIP-320(11)	ROADWAY-SIGN 2

REV. 04-08-26 : ADDED SHEET.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE
SHEET**

ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEETS.....	ROADWAY-SIGN1
SIGNATURE SHEETS.....	ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND STANDARD TRAFFIC DESIGN DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1, 2B2
GENERAL NOTES.....	2C
SPECIAL NOTES.....	2D, 2D1
ENVIRONMENTAL NOTES.....	2E
TABULATED QUANTITIES	2F, 2F1
DETAIL SHEET.....	2G, 2G1 – 2G15
UTILITY NOTES, AND UTILITY OWNERS.....	3
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	T1
NO UTILITY SHEETS ARE INCLUDED IN THIS SET OF PLANS.	
NO PROJECT COMMITMENT SHEETS ARE INCLUDED IN THIS SET OF PLANS.	

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
RD-TP-1	10-01-24	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
10-106.00 MULTIMODAL		
CR-GN-1		GENERAL NOTES CURB RAMPS
CR-GN-2		CURB RAMP NUMBERING
CR-DWS-1		DETECTABLE WARNING SURFACE DETAIL
CR-CRT-1		CURB RAMP TYPES
CR-PL-1		PERPENDICULAR CURB RAMP PLACEMENT LAYOUT
CR-10		PERPENDICULAR CURB RAMP
CR-20	07-01-25	PARALLEL CURB RAMP 5 – FT SIDEWALK
CR-31		BLENDED TRANSITION BI-DIRECTIONAL
CR-40		MONO-DIRECTIONAL SINGLE CROSSWALK CURB RAMP DETAILS
CR-50		PEDESTRIAN REFUGE
CR-51		PEDESTRIAN REFUGE

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-200.00 SIGN		
T-S-16	07-30-25	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-19	07-30-25	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-30-25	SIGN DETAILS
10-204.00 DESIGN - TRAFFIC CONTROL		
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-9	01-24-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-9A	01-24-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-9B	07-22-25	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-40	03-26-25	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	03-26-25	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-320(11)	1A

REV. 04-08-26 : ADDED ROADWAY-SIGN2 TO INDEX.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX,
STANDARD ROADWAY
DRAWINGS AND
STANDARD TRAFFIC
DESIGN DRAWINGS

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	QUANTITY	TOTAL QUANTITY
			33S320-F8-002	33S320-F3-002	
(1)(2)	208-01.05 BROOMING & DEGRASSING SHOULDERS	L.M.	2.7		2.7
(3)	307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	287		287
(4)	403-02.01 TRACKLESS TACK COAT	TON	58		58
(5)	406-04.03 HIGH FRICTION SURFACE TREATMENT (SINGLE LIFT)	S.Y.	1408		1408
(6)(7)	411-01.21 LONGITUDINAL JOINT SEALANT	L.M.	16		16
(8)	411-02.10 ACS MIX(PG70-22) GRADING D	TON	8495		8495
(9)	415-01.01 COLD PLANING BITUMINOUS PAVEMENT	TON	8876		8876
	611-01.20 ADJUSTMENT OF EXISTING MANHOLE	EACH	26		26
(10)	701-02.01 CONCRETE CURB RAMP (RETROFIT)	S.F.	5425		5425
(10)	701-02.03 CONCRETE CURB RAMP	S.F.	1400		1400
(11)	712-01 TRAFFIC CONTROL	LS	1		1
	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	105		105
	712-05.01 WARNING LIGHTS (TYPE A)	EACH	26		26
(12)	712-06 SIGNS (CONSTRUCTION)	S.F.	2126		2126
	712-08.03 ARROW BOARD (TYPE C)	EACH	2		2
	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	7		7
(13)(14)	713-16.20 SIGNS (R1-2, YIELD, 36"X36"X36")	EACH		1	1
	716-01.21 SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	130	428	558
	716-01.22 SNOWPLOWABLE RAISED PAVEMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	195	547	742
(15)	716-01.30 REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	325		325
(16)(17)(18)	716-02.03 PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	240		240
(16)(17)	716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	449		449
(16)(17)(19)	716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	1715	35	1750
(16)(17)	716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	73	10	83
(16)(17)	716-02.07 PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	155		155
(16)(17)	716-02.08 PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	755	260	1015
(16)(17)(18)	716-02.09 PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	751	1585	2336
(16)(17)	716-02.12 PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	1.6	0.1	1.7
(20)	716-02.23 PLASTIC PAVEMENT MARKING (12IN BARRIER LINE)	L.F.		425	425
(16)(17)(21)	716-03.01 PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	7	4	11
(16)(17)	716-04.01 PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	14	1	15
(16)(17)	716-04.04 PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.		135	135
(16)(17)	716-04.05 PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	9		9
(14)(16)(17)	716-04.12 PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	111	12	123
(22)	716-05.01 PAINTED PAVEMENT MARKING (4" LINE)	L.M.	11.8		11.8
(23)	716-08.30 HYDROBLAST REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	0.1		0.1
(24)	716-09.03 WET REFLECTIVE PAVEMENT MARKING(6" LINE)	L.M.	0.1		0.1
(17)(20)(25)	716-12.02 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.		12	12
(17)(26)	716-12.05 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.		97	97
	717-01 MOBILIZATION	LS	1		1

THERE ARE NO GUARDRAIL ADJUSTMENTS WITHIN THE PROJECT LIMITS.

FOOTNOTES

- (1) TO BE USED AS DIRECTED BY THE ENGINEER.
- (2) INCLUDES THE COST OF REMOVING DEBRIS AND SWEEPING SHOULDERS PRIOR TO WORK. SEE SHEET 2C, PAVEMENT MARKINGS, FINAL PAVEMENT MARKING NOTE 6.
- (3) TO BE USED FOR SPOT REPAIR ONLY.
- (4) INCLUDES 4 TONS FOR DRIVEWAYS, CITY STREETS, COUNTY ROADS, FIELD ENTRANCES AND BUSINESS ENTRANCES.
- (5) TO BE INSTALLED ON SR 320 FROM L.M. 0.20 TO L.M. 0.30 EASTBOUND AND WESTBOUND.
- (6) USE CRAFCO PAVEMENT JOINT ADHESIVE #34524 OR PAVON JOINT ADHESIVE BY PAVON CORPORATION.
- (7) THE CONTACT SURFACE OF TRANSVERSE JOINTS AND LONGITUDINAL JOINTS IN THE SURFACE LIFT SHALL BE SEALED BY APPLYING JOINT SEALANT PRIOR TO PLACEMENT OF ADDITIONAL ASPHALT AGAINST THE PREVIOUSLY PLACED MATERIAL. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED IF THE MATERIAL NEEDS TO BE RE-HEATED, AND WHEN PLACING THE THIN UNIFORM COAT. PRIOR TO APPLICATION OF THE SEALANT, THE FACE OF THE JOINT SHALL BE THOROUGHLY DRY AND FREE FROM DUST OR OTHER MATERIAL. TRUCK AND VEHICLE TRAFFIC SHALL NOT DRIVE ACROSS THE SEALANT JOINT UNTIL IT HAS DRIED SUFFICIENT TO PREVENT DAMAGE.
- (8) INCLUDES 592 TONS FOR DRIVEWAYS, CITY STREETS, COUNTY ROADS, FIELD ENTRANCES AND BUSINESS ENTRANCES.
- (9) INCLUDES 587 TONS FOR DRIVEWAYS, CITY STREETS, COUNTY ROADS, FIELD ENTRANCES AND BUSINESS ENTRANCES. INCLUDES 266 TONS FOR SPOT REPAIR, SEE SHEET 2F FOR TABULATION.
- (10) SEE SHEET 2F1 FOR CURB RAMP TABULATION.
- (11) THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REGARDING TEMPORARY TRAFFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (12) IN THE EVENT THAT A CONSTRUCTION AND/OR REGULATORY SIGN IS TEMPORARILY DESIGNATED NOT IN USE DURING THE CONSTRUCTION PHASE OF A PROJECT, THE CONTRACTOR SHALL CHOOSE A SIGN COVERING APPROVED BY THE ENGINEER. TEMPORARY SIGN COVERINGS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 712-06 SIGNS (CONSTRUCTION).
- (13) INCLUDES ALL COSTS FOR INSTALLATION OF NEW SIGN, POST, AND FOOTING COMPLETE IN PLACE.
- (14) SEE SHEET 2G15 FOR LOCATION.
- (15) CONTRACTOR SHALL REMOVE EXISTING SPM BY A METHOD THAT DOES NOT DAMAGE THE EXISTING ASPHALT. IF DAMAGE OCCURS DURING REMOVAL, THE CONTRACTOR SHALL MAKE REPAIRS AT THEIR OWN EXPENSE BEFORE PAVING.
- (16) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- (17) ITEM TO BE USED AS PERMANENT MARKING ONLY.
- (18) SEE SHEETS 2G1-2G11 FOR TYPE AND LOCATION OF CROSSWALK MARKINGS.
- (19) ALL STOP BARS ON SIDE STREETS WILL BE RETRACED AS DIRECTED BY THE ENGINEER.
- (20) SEE SHEET 2G6 FOR DETAILS.
- (21) PROPOSED PAVEMENT MARKINGS TO BE INSTALLED ON TURN LANES ON SR-320 AT THE INTERSECTION OF HICKORY VALLEY RD.
- (22) ITEM TO BE USED AS TEMPORARY PAVEMENT MARKING ONLY.
- (23) TO BE USED IN LOCATIONS TO BE STRIPE WITH WET REFLECTIVE MARKING.
- (24) FOR PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES.
- (25) INCLUDES 0.1 LM FOR UPGRADED DO NOT BLOCK INTERSECTION MARKING AT L.M. 2.789.
- (26) INCLUDES 39 L.F. FOR DOUBLE YELLOW CENTER LINE, AND 58 L.F. FOR WHITE EDGE LINES AT THE INTERSECTION OF SR 320 AND CHICKAMUNGA/BASS RD.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-320(11)	2

REV. 04-08-26 : REMOVED ITEM 716-03.09, REVISED QUANTITY FOR ITEM 716-12.02, AND ADDED ITEM 716-02.23 AND REVISED FOOTNOTES.

SEALED BY



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

ESTIMATED
ROADWAY
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-320(11)	266

REV. 04-08-26 : ADDED INSET TO SHOW DO NOT BLOCK INTERSECTION MARKING.



JOINER RD.

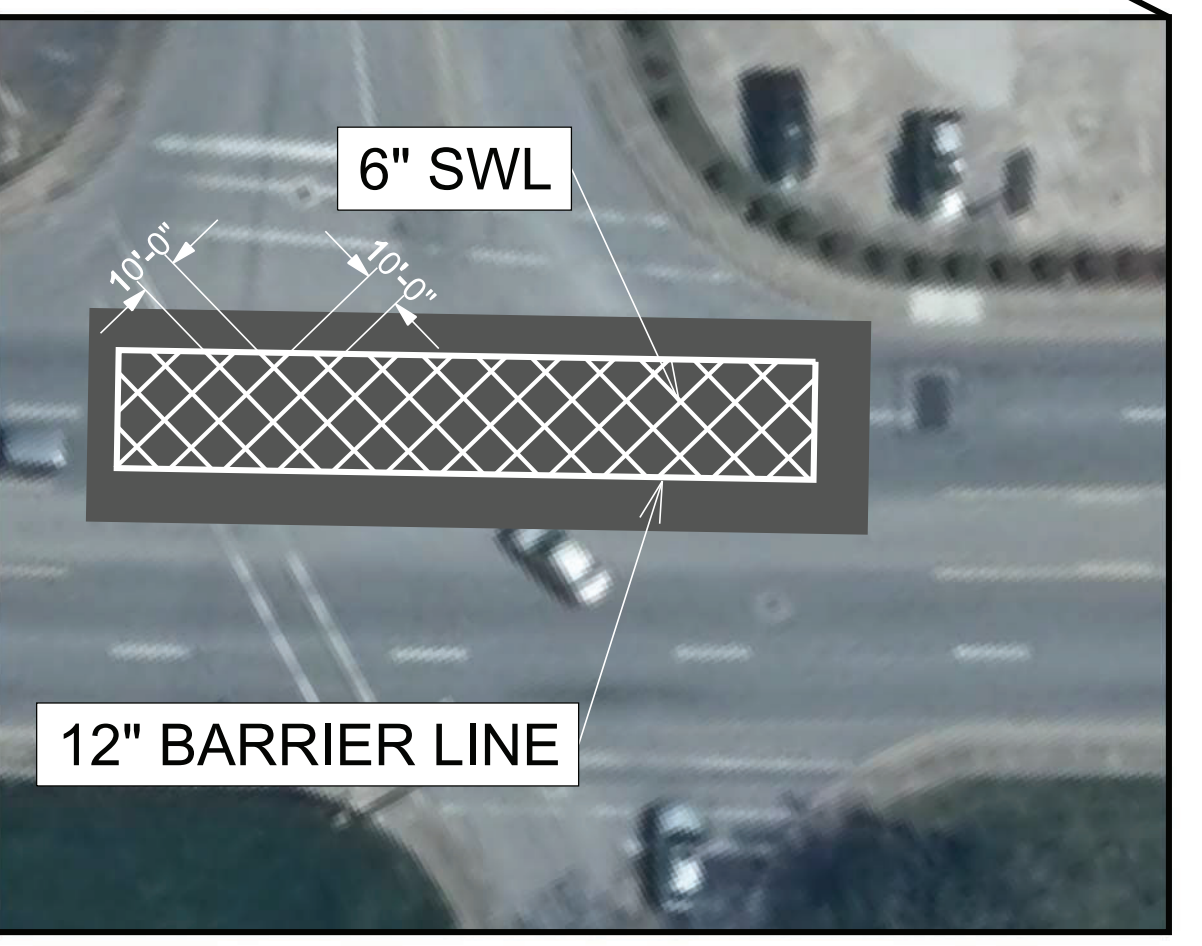
MEADOWLARKE LN.

SR-320

SR-320

JOINER RD.

STRATTON PL DR.



INSET 1 - DETAIL MUTCD SECTION 3B.26, FIGURE 3B-24 - DO NOT BLOCK INTERSECTION MARKINGS (OPTION C)

FOR INFORMATION ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET -
CURB RAMPS

NOT TO SCALE
SHEET 6 OF 11