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TENNESSEE DEPARTMENT OF TRANSPORTATION
7512 VOLKSWAGEN DRIVE

CHATTANOOGA, TN
JOSEPH H. BURCHFIELD, P.E. NO. 122745

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

YEAR	PROJECT NO.	SHEET NO.
2025	NH-I-24-2(185)	ROADWAY-SIGN4
	58I024-F8-002	

REV. 12-02-25
ADDED SHEET

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1-4
TITLE SHEET	1
ROADWAY INDEX, STANDARD ROADWAY, AND TRAFFIC DESIGN DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F
DETAIL SHEETS	2G
UTILITY NOTES AND UTILITY OWNERS	3
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	T1,T2

NOTES:

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

SHEET 2A SERIES NOT INCLUDED IN THIS PROJECT.

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

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-6	01-24-25	MARKING DETAIL FOR EXPRESSWAY AND FREEWAY INTERCHANGES
T-M-7	01-24-25	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-24-25	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
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-M-15	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
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-21	03-26-25	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-60	03-26-25	FREEWAY RESURFACING SIGNING PROCEDURES
T-WZ-63	03-26-25	WORK ZONE IN THE VICINITY OF AN ENTRANCE RAMP
T-WZ-64	03-26-25	WORK ZONE IN THE VICINITY OF AN EXIT
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-FAB1		FLASHING YELLOW ARROW BOARD

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2025	NH-I-24-2(185)	1A
		58I024-F8-002	

REV. 09-29-25
ADDED ROADWAY-SIGN2 TO INDEX

REV. 11-05-25
ADDED ROADWAY-SIGN3 TO INDEX,
REMOVED PROJECT NUMBER

REV. 12-02-25
ADDED ROADWAY-SIGN4 TO INDEX

SEALED BY

JOSEPH M. BURCHFIELD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
LAND SURVEYOR
STATE OF TENNESSEE
12/2/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
STANDARD ROADWAY
AND
TRAFFIC DESIGN
DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2025	NH-I-24-2(185)	2
		58I024-F8-002	

REV. 09-29-25
UPDATED 716-05.20 QUANTITY

REV. 11-05-25
REMOVED PROJECT NUMBER

REV. 12-02-25
UPDATED 403-01.10 QUANTITY

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 58I024-F8-002
(1)(2)	208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M.	18.6
(3)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	3697
(4)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	776
	307-01.18	ASPHALT CONCRETE MIX (PG64-22) GRADING CM	TON	3872
	307-03.12	ASPHALT CONCRETE MIX (PG76-22) GRADING CM	TON	10842
(5)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	18
(6)	403-01.10	HIGH PERFORMANCE FOG SEALS	S.Y.	19500
(7)	411-03.10	ACS MIX(PG76-22) GRADING D	TON	465
(8)(9)	411-03.23	ACS MIX (PG76-22) OGFC	TON	10627
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	16.6
(10)	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	14527.2
(11)	705-04.20	GUARDRAIL DELINEATION ENHANCEMENT	EACH	2860
(12)	712-01	TRAFFIC CONTROL	LS	1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	50
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	100
(13)	712-06	SIGNS (CONSTRUCTION)	S.F.	2235
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	712-08.08	SPEED FEEDBACK SIGN ASSEMBLY	EACH	6
(14)	712-08.09	DIGITAL SPEED LIMIT SIGN ASSEMBLY	EACH	6
(15)	712-08.12	QUEUE PROTECTION TRUCK	DAY	100
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	122
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	6
(16)(17)(18)	716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	748
(19)(20)	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	748
(19)(20)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	1000
(19)(20)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	122
(19)(20)	716-04.06	PLASTIC PAVEMENT MARKING (WRONG WAY ARROW)	EACH	6
(19)(20)	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	32
(19)(20)	716-04.17	PLASTIC PAVEMENT MARKING (YIELD SYMBOL)	EACH	1
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	2.1
	716-08.30	HYDROBLAST REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	2.1
	716-09.86	CONTRAST PAVEMENT MARKING 6"	L.M.	2.1
(21)(22)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	21
(21)(22)	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	3000
(21)(22)	716-12.06	ENHANCED FLAT LINE THERMO (8IN LINE)	L.F.	2100
	717-01	MOBILIZATION	LS	1
		ALTERNATE AA1		
(23)	403-02.01	TRACKLESS TACK COAT	TON	238
		ALTERNATE AA2		
(23)	403-02.01	TRACKLESS TACK COAT	TON	84
(24)	403-02.02	HOT APPLIED TACK COAT	TON	118

FOOTNOTES

(1) QUANTITY INCLUDES 2 L.M. FOR RAMP SHOULDERS.

(2) ITEM SHALL INCLUDE CLIPPING OF MATERIAL INTERFERING WITH PROPER DRAINAGE OF ROADWAY AND SHOULDERS AS DIRECTED BY THE TDOT PROJECT ENGINEER. ALL MATERIAL FROM CLIPPING, BROOMING, AND DE-GRASSING SHOULDERS SHALL BE PICKED UP, REMOVED, AND PROPERLY DISPOSED.

(3) INCLUDES 361 TONS FOR SPOT REPAIR AND 163 TONS FOR RAMP WIDENING

(4) INCLUDES 361 TONS FOR SPOT REPAIRS 0N I-24 AND 415 TONS FOR RAMP WIDENING.

(5) TO BE USED AS DIRECTED BY THE TDOT ENGINEER FOR STONE STABILIZATION.

(6) FOG SEAL TO BE APPLIED TO SCORED AREA OF SHOULDERS. PERMANENT EDGELINE MARKINGS SHALL NOT BE PLACED UNTIL FOG SEALING SHOULDERS IS COMPLETE. SEE DETAIL ON SHEET 2B FOR ADDITIONAL INFORMATION.

(7) INLCUDES 163 TONS FOR RAMP REPAIRS

(8) MODIFY AIR VOID CONTENT SPECIFIED IN TABLE 411.03-04 FROM MINIMUM 20% TO MINIMUM 17% AS DETERMINED BY THE "VOLUME METHOD" DESCRIBED IN SECTION 6.2.2 OF AASHTO T 269. AGE CANTABRO TEST SPECIMENS FOR 4 HOURS AT LAB COMPACTION TEMPERATURE. TSR TESTING SHALL BE PERFORMED ACCORDING TO THE METHOD DESCRIBED IN 407.03.E.1 FOR OGFC AND MEET A MINIMUM TENSILE STRENGTH OF 50 PSI AND A MINIMUM TSR OF 70%.

(9) INCLUDES 157 TONS TO BE USED FOR PLANT STARTUP AND HEATING UP EQUIPMENT AT BEGINNING OF EACH SHIFT AND 15 TONS WASTE MATERIAL PER DAY.

(10) INCLUDES 271 TONS FROM EXTRA DEPTH MILLING AT BRIDGE AND 222 FOR RAMPS.

(11) INCLUDES 2100 WHITE AND 760 YELLOW

(12) INCLUDES ALL COSTS ASSOCIATED WITH NIGHT-TIME WORK ZONE LIGHTING.

(13) SEE SHEET 2F FOR TABULATION. THE CONSTRUCTION SIGNING IS TO A MINIMUM OTHER SIGNS MAY BE REQUIRED AS DIRECTED BY THE TDOT ENGINEER.

(14) SEE SHEET T2 FOR SUGGESTED PLACEMENT DETAILS

(15) QUANTITIY WILL PROVIDE QUEUE PROTECTION FOR BOTH NIGHTLY PAVING OPERATIONS AND WEEKEND CLOSURES AS DIRECTED BY THE TDOT ENGINEER.

(16) ANY DAMAGE THAT OCCURS DURING REMOVAL SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE AND TO THE SATISFACTION OF THE TDOT ENGINEER.

(17) TO BECOME PROPERTY OF THE CONTRACTOR. INCLUDES ALL COST ASSOCIATED WITH REMOVAL AND PROPER DISPOSAL.

(18) REMOVAL OF EXISITNG SPM FROM EXISITNG CONCRETE SURFACE SHALL BE DONE IN SUCH A MANNER AS TO MINIMIZE DAMAGE TO THE ADJACENT CONCRETE. INCLUDES ALL COST ASSOCIATED WITH PATCHING VOID AREAS OR DIVOTS ON CONCRETE SURFACES CREATED DURING REMOVAL OF SPM'S WITH MATERIAL APPROVED BY THE TDOT ENGINEER.

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

(20) TO BE USED AT INTERCHANGES AS PER STD DWG NOS. T-M-6, T-M-7, T-M-8, T-M-9, T-M-9A AND T-M-9B.

(21) CONTRACTOR SHALL USE EXTRUDED OR RIBBON METHOD FOR APPLICATION.

(22) RAMPS SHALL BE MARKED UP TO WHERE THEY CONNECT TO THE INTERSECTING ROADWAY.

(23) USE AN APPROVED TRACKLESS TACK FROM QPL 40-F APPLIED WITH A DISTRIBUTOR AT A MINIMUM RATE OF 0.20 GAL/SY (APPROXIMATE RESIDUAL RATE 0.10 GAL/SY). PAVING OF THE OGFC SHALL NOT BEGIN UNTIL THE DEPARTMENT IS SATISFIED WITH THE APPLICATION RATE ACHIEVED AND THE EMULSION HAS FULLY BROKEN. MULTIPLE PASSES MAY BE REQUIRED. OR, EMULSION TYPE CQS-1HP MAY BE APPLIED WITH A SPRAY PAVER AT AN APPLICATION RATE BETWEEN 0.18 TO 0.23 GAL/SY. THE SPRAY PAVER SHALL BE A SINGLE PIECE OF EQUIPMENT THAT APPLIES THE TACK COAT AND SPREADS THE BITUMINOUS PAVEMENT. AT A MINIMUM THE SPRAY PAVER SHALL MEET THE PAVER REQUIREMENTS OF 407.06 AND THE DISTRIBUTOR REQUIREMENTS IN 402.03.

(24) TO BE USED FOR TACK COAT UNDERNEATH OGFC. HOT APPLIED TRACKLESS TACK MAY BE EITHER HOT APPLIED TRACKLESS TACK COAT FROM QPL 40, SECTION F. IF USING ASPHALT BINDERS, THE MINIMUM GRADE SHALL BE PG64-22 BUT A HIGHER GRADE MAY BE USED AT THE CONTRACTOR'S DISCRETION.

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DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES