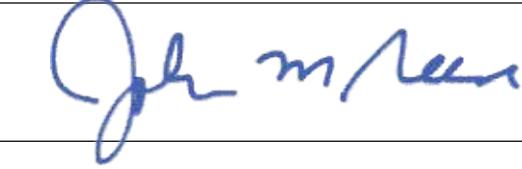


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 John M. Reese
jreese@fisherarnold.com
2025.12.01 08:31:39-06'00'

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FISHER ARNOLD, INC.
9180 CRESTWYN HILLS DRIVE
MEMPHIS, TN 38125
JOHN M. REESE, P.E. 118371

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
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B

YEAR	PROJECT NO.	SHEET NO.
2025	NH/HSIP-15(237)	ROADWAY-SIGN2

REV. 12/1/25: ADDED SHEET.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**SIGNATURE
SHEET**

ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
SIGNATURE SHEET	ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND STANDARD TRAFFIC DESIGN DRAWINGS	1A
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E, 2E1
TABULATED QUANTITIES	2F
UTILITY NOTES AND UTILITY OWNERS	3
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	T1
BRIDGE REPAIR PLANS	B-1
NO UTILITY SHEETS ARE INCLUDED IN THIS SET OF PLANS	

STANDARD ROADWAY DRAWINGS

SHEET NAME	SHEET NO.	DWG.	REV.	DESCRIPTION
SIGNATURE SHEET	ROADWAY-SIGN1			
SIGNATURE SHEET	ROADWAY-SIGN2			
TITLE SHEET	1			
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND STANDARD TRAFFIC DESIGN DRAWINGS	1A			
PROJECT COMMITMENTS	1B			
ESTIMATED ROADWAY QUANTITIES	2			
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B			
GENERAL NOTES	2C			
SPECIAL NOTES	2D			
ENVIRONMENTAL NOTES	2E, 2E1			
TABULATED QUANTITIES	2F			
UTILITY NOTES AND UTILITY OWNERS	3			
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	T1			
BRIDGE REPAIR PLANS	B-1			
NO UTILITY SHEETS ARE INCLUDED IN THIS SET OF PLANS				

SAFETY DESIGN AND GUARDRAILS

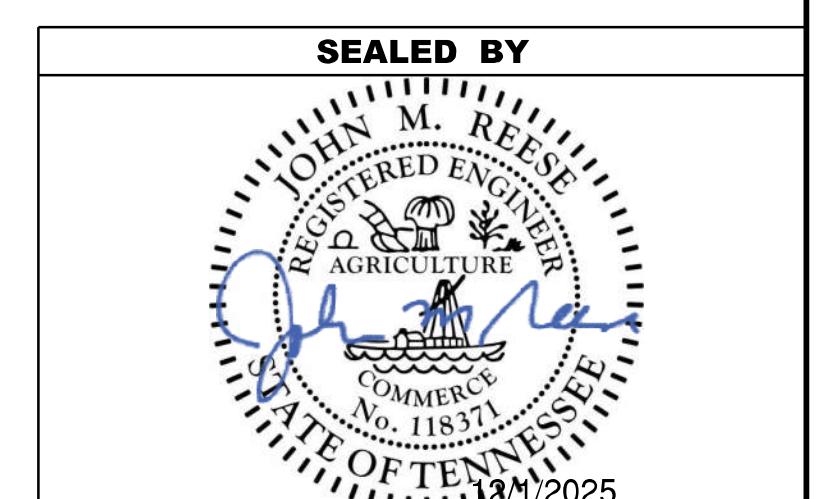
S-GRS-4	05-04-22	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
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-15	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATES AND ACCESS CONTROLLED ROUTES
T-M-15A	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED RURAL 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-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-12	03-26-25	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
T-WZ-18	03-26-25	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-21	03-26-25	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
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-60	03-26-25	FREEWAY RESURFACING SIGNING LAYOUT
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD

TYPE	YEAR	PROJECT NO.	sheet no.
RESURF	2025	NH/HSIP-15(237)	1A

REV. 12/1/25: ADDED ROADWAY-SIGN2 TO INDEX.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX,
STANDARD ROADWAY
DRAWINGS AND
STANDARD TRAFFIC
DESIGN DRAWINGS

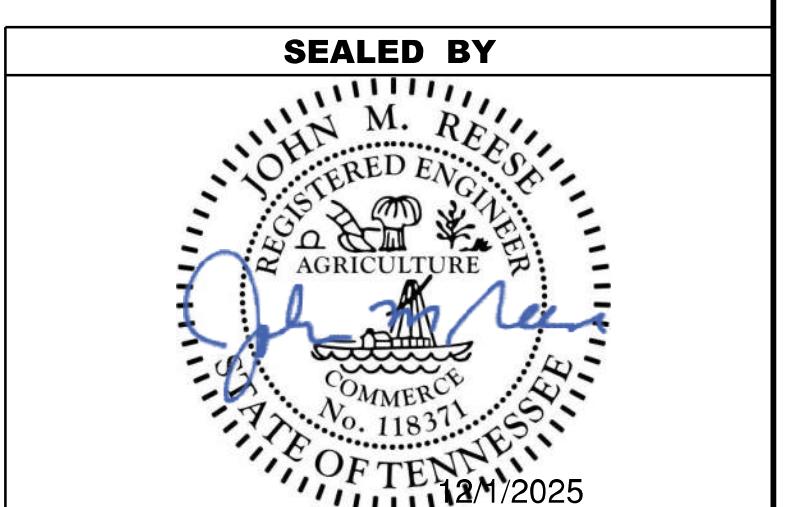
ESTIMATED ROADWAY QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 24S015-F8-005	QUANTITY 24S015-F3-005	TOTAL QUANTITY
(1) 202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	733		733
203-06	WATER	M.G.	24		24
(2) 208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M.	25.16		25.16
303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (C OR D)	TON	3158		3158
(3) 307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	166		166
(4) 311-03.04	HOT IN PLACE RECYCLING OF ASPHALT PAVEMENT (2.00IN)	S.Y.	191430		191430
311-03.10	ASPHALT REJUVENATING AGENT	GAL.	95715		95715
(5) 403-02.01	TRACKLESS TACK COAT	TON	104		104
411-01.21	LONGITUDINAL JOINT SEALANT	L.M.	28.52		28.52
(6) 411-03.12	ACS MIX(PG64-22) THIN LIFT D ASPHALT	TON	9862		9862
411-03.34	ACS MIX(PG64-22) THIN LIFT E SHOULDER	TON	3496		3496
(7) 411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	10.23		10.23
(7) 411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	11.88		11.88
(8) 415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	145		145
(9) 705-02.10	GUARDRAIL TRANSITION 27IN TO 31IN	EACH		13	13
(9) 705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH		13	13
(9) 706-01	GUARDRAIL REMOVED	L.F.		650	650
(10) 712-01	TRAFFIC CONTROL	LS	1		1
(11) 712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	94		94
712-06	SIGNS (CONSTRUCTION)	S.F.	2270		2270
712-08.03	ARROW BOARD (TYPE C)	EACH	2		2
716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	200		200
716-01.22	SNOWPLOWABLE RAISED PAVEMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	100		100
716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	775		775
716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	1052		1052
716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	20		20
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	720		720
(12)(13) 716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	23		23
(12)(13) 716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	350		350
(12)(13) 716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	0.17		0.17
(12)(13) 716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	3		3
(12)(13) 716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	60		60
(16) 716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	58.25		58.25
(12)(17)(18) 716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	30.33		30.33
717-01	MOBILIZATION	LS	1		1

NOTE: THERE ARE NO UTILITY ADJUSTMENTS ON THIS PROJECT.

FOOTNOTES	
(1)	TO BE USED FOR REMOVAL FOR PARTIAL DEPTH ASPHALT REPAIR.
(2)	INCLUDES THE COST OF REMOVING DEBRIS AND SWEEPING PRIOR TO WORK. SEE SHEET NO. 2C, NOTE (6) UNDER FINAL PAVEMENT MARKING FOR MORE INFORMATION.
(3)	ITEM TO BE USED FOR PARTIAL DEPTH ASPHALT REPAIR ONLY.
(4)	TO BE USED ON TRAVEL LANES AND EXTENDED 6 INCHES INTO OUTSIDE SHOULDERS ONLY.
(5)	INCLUDES 7 TONS FOR DRIVEWAYS, COUNTY ROADS, BUSINESS ENTRANCES, LEFT TURN LANES, AND CROSSOVERS.
(6)	INCLUDES 635 TONS FOR DRIVEWAYS, COUNTRY ROADS, BUSINESS ENTRANCES, LEFT TURN LANES, AND CROSSOVERS.
(7)	GRIND AT A DEPTH OF 5/16" +/- 1/16". LONGITUDINAL SPACING MAY BE AFFECTED BY SHALLOWER GRINDS. RUMBLE GRINDING SHOULD NOT PENETRATE COMPLETELY THROUGH THE NEWLY PAVED LAYER OR CAUSE PREMATURE DAMAGE.
(8)	FOR TAPER MILLING AT PROJECT LIMITS AND BRIDGE ENDS.
(9)	SEE PROPOSED GUARDRAIL (RESURFACING) ON SHEET 2F.
(10)	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.
(11)	THE CONTRACTOR IS RESPONSIBLE FOR THE STAKING OF CONSTRUCTION SIGNS. 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).
(12)	ITEM TO BE USED FOR FINAL PAVEMENT MARKING ONLY.
(13)	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.
(14)	ALL STOP BARS ON SIDE STREETS WILL BE RETRACED AS DIRECTED BY THE ENGINEER.
(15)	INCLUDES 400 FT FOR MEDIAN OPENINGS WITH TURN LANES ACCORDING TO T-M-2.
(16)	ITEM TO BE USED FOR TEMPORARY PAVEMENT MARKING ONLY.
(17)	CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION.
(18)	INCLUDES 0.10 L.M. FOR MEDIAN OPENINGS WITH TURN LANES ACCORDING TO T-M-2.

TYPE	YEAR	PROJECT NO.	sheet no.
RESURF	2025	NH/HSIP-15(237)	2

REV. 12/1/25: REVISED QUANTITIES FOR ITEM NUMBERS 311-03.04 & 311-03.10.
REVISED FOOTNOTE 4.

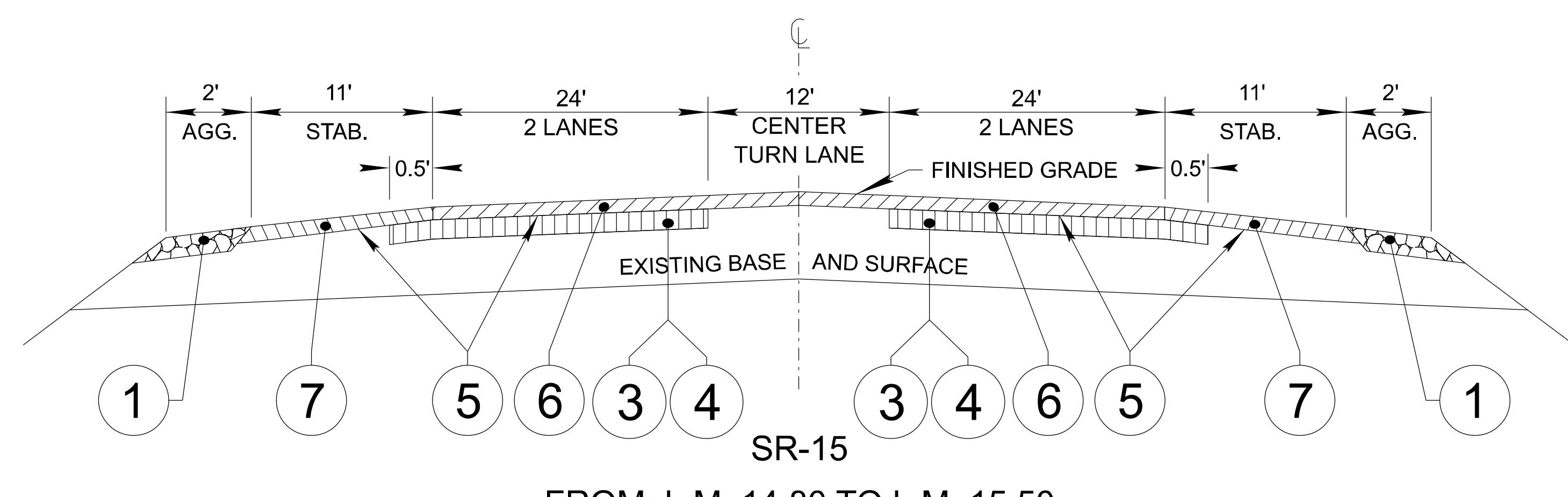
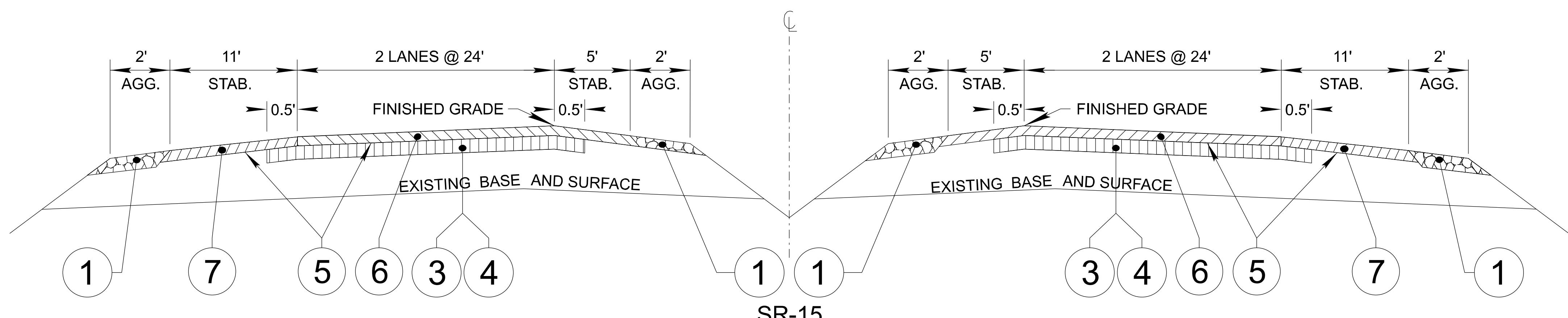


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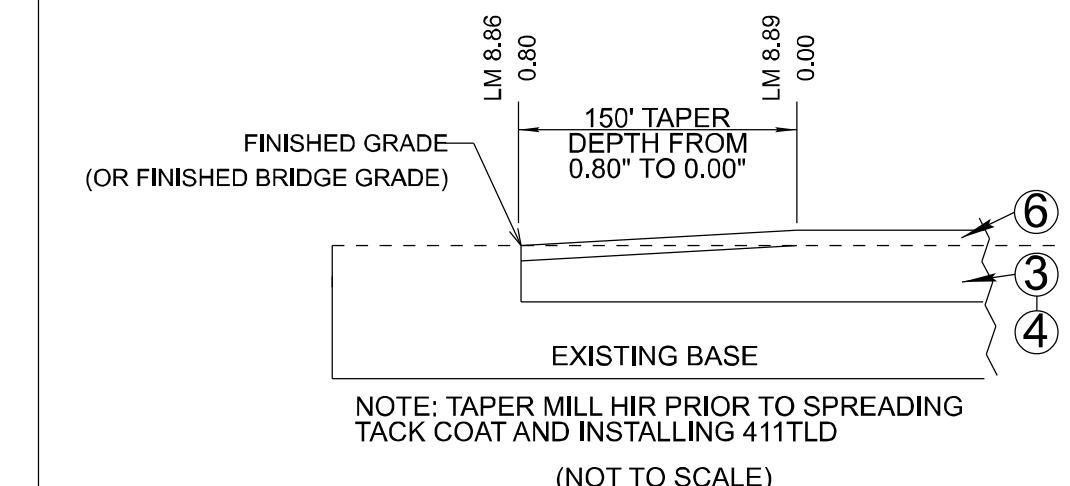
ESTIMATED
ROADWAY
QUANTITIES

TYPE	YEAR	PROJECT NO.	sheet no.
RESURF	2025	NH/HSIP-15(237)	2B

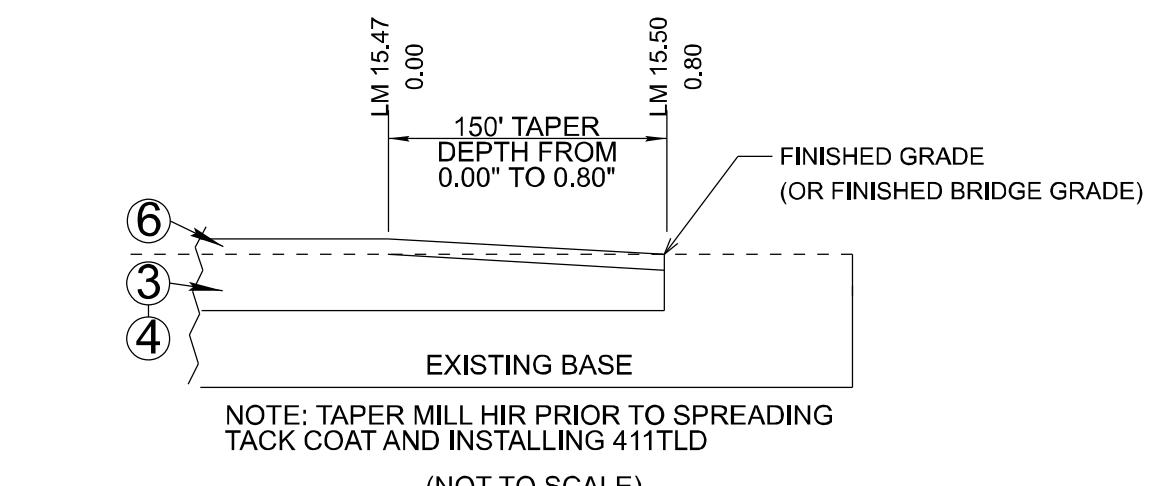
REV. 12/1/25: REVISED L.M. 14.80 TO L.M. 15.50
TYPICAL SECTION.



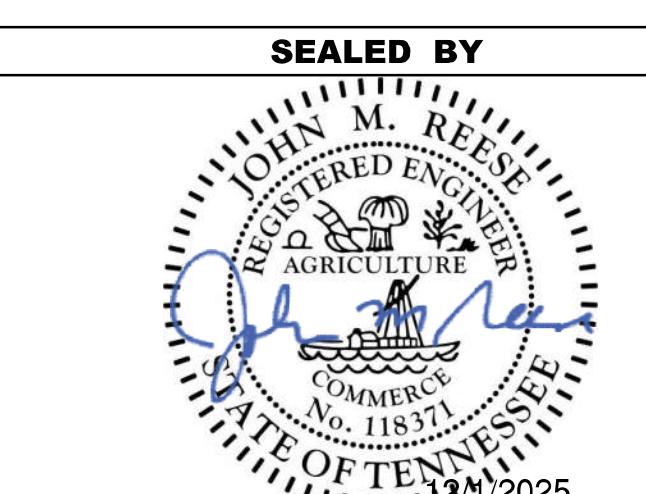
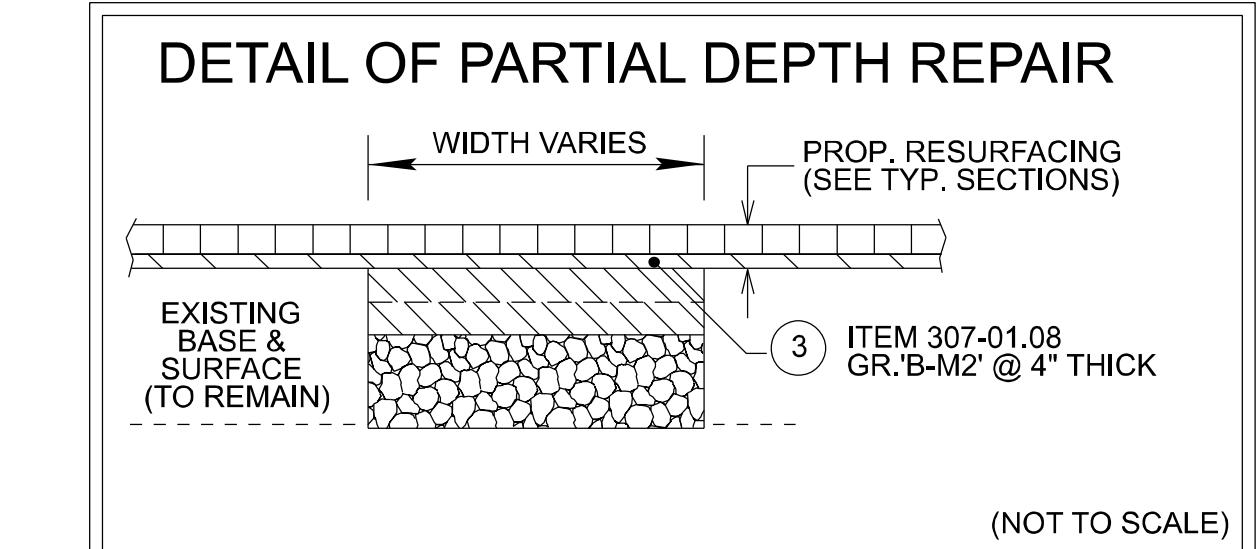
TAPER MILLING DETAIL FOR BRIDGE ENDS & L.M. 8.86 TO L.M. 8.89



TAPER MILLING DETAIL FOR BRIDGE ENDS & L.M. 15.47 TO L.M. 15.50



PROPOSED PAVEMENT SCHEDULE	
① MINERAL AGGREGATE BASE @ 2.00"± THICK FOR SHOULDERS ITEM 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D"	⑤ TRACKLESS TACK COAT ITEM 403-02.01 TRACKLESS TACK COAT SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD
② BITUMINOUS BASE COURSE (BINDER) @ 4.00"± THICK (APPROX. 452.0 LBS./S.Y.) ITEM 307-01.08 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING "B-M2" (TO BE USED FOR PARTIAL DEPTH ASPHALT REPAIR ONLY)	⑥ ASPHALTIC CONCRETE SURFACE (ACS) @ 0.80"± THICK (APPROX. 85.00 LBS./S.Y.) ITEM 411-03.12 ACS MIX (PG64-22) THIN LIFT D ASPHALT
③ RECYCLE IN PLACE @ 2.00" THICK ITEM 311-03.04 HOT IN PLACE RECYCLING OF ASPHALT PAVEMENT (EXTEND 0.50' INTO SHOULDERS)	⑦ ASPHALTIC CONCRETE SURFACE (ACS) @ 0.80"± THICK (APPROX. 85.00 LBS./S.Y.) ITEM 411-03.34 ACS MIX (PG64-22) THIN LIFT E SHOULDER
④ REJUVINATING AGENT FOR RECYCLE IN PLACE ITEM 311-03.10 ASPHALT REJUVINATING AGENT (AT 0.20-0.60 GAL./S.Y.) (EXTEND 0.50' INTO SHOULDERS)	COLD PLANING @ 0.80"± THICK (APPROX. 84.0 LBS./S.Y.) ITEM 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (FOR TAPER MILLING AT PROJECT LIMITS AND BRIDGE ENDS)



NOT TO SCALE

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TYPICAL
SECTIONS AND
PAVEMENT
SCHEDULE