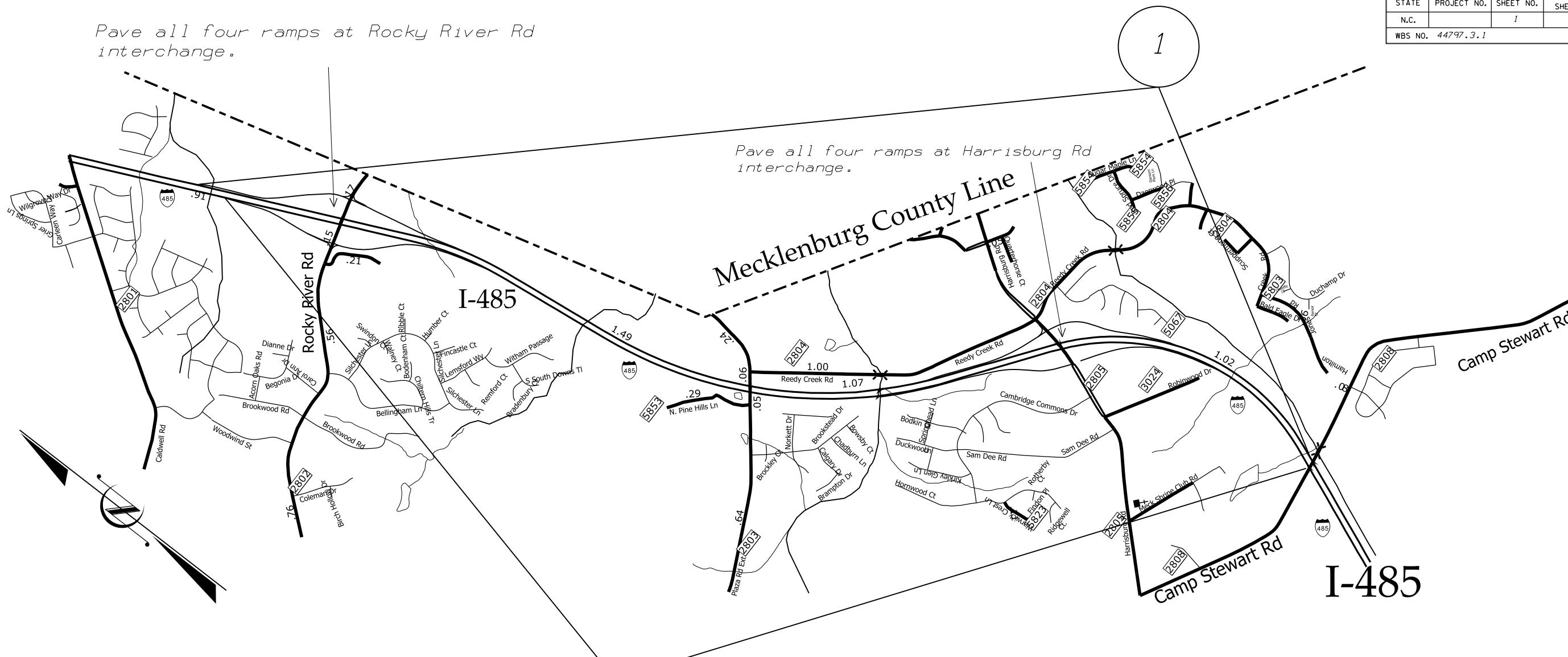


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	
WBS NO. 44797.3.1			

Pave all four ramps at Rocky River Rd interchange.

Pave all four ramps at Harrisburg Rd interchange.



2

Notes:

1. Pave all ramps within project limits up to Y line EOT.
2. The contractor shall not disturb the existing milled rumble strips on the shoulders.
3. Incidental milling shall be used at tie-ins for final wearing course.
4. Use a combination of milling and paving techniques within 75' of bridges to mitigate settlement dips in pavement.

MAP

DESCRIPTION

# 1 I-485 OUTER LOOP

FROM CAMP STEWART RD (SR 2808) TO END OF ROCKY RIVER RD (SR 2802) ENTRANCE RAMP ACCLERATION LANE

# 2 I-485 INNER LOOP

FROM BEGINNING OF ROCKY RIVER RD (SR 2802) EXIT RAMP DECELERATION LANE CAMP STEWART (SR 2808) BRIDGE

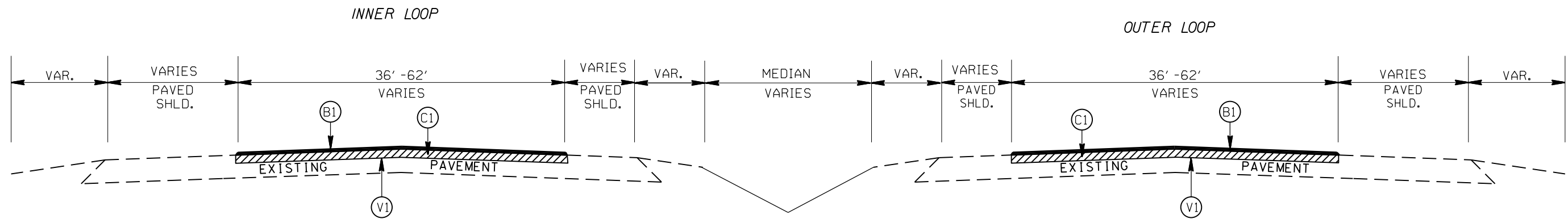
I-5960 Interstate 485 Pavement Rehabilitation  
Mecklenburg County

SCALE	-NA-
DATE	7/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

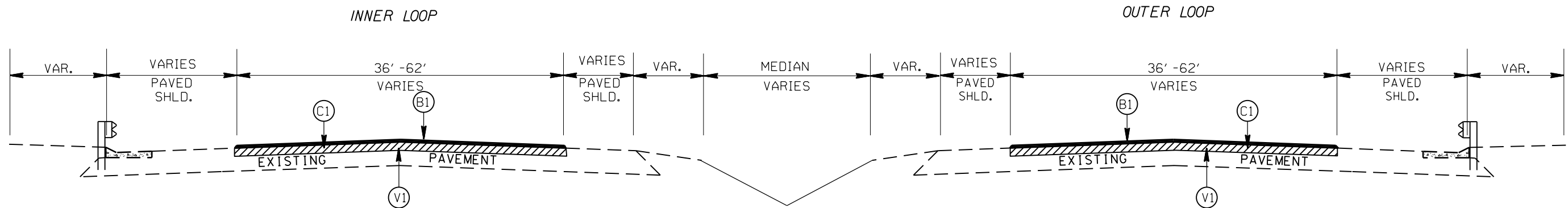


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		2	
WBS NO.	44797.3J		




TYPICAL SECTION NO.1



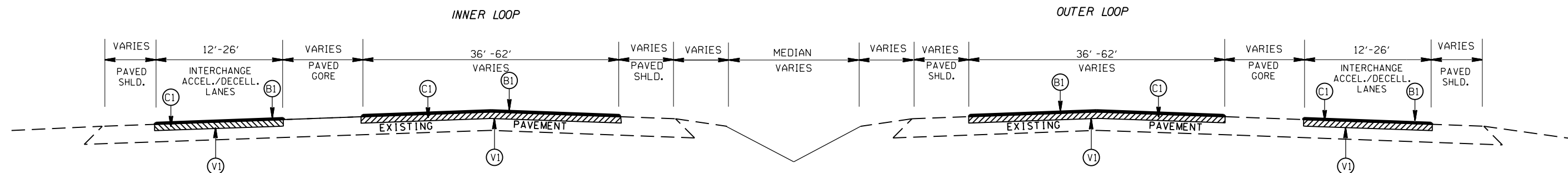
TYPICAL SECTION NO.2

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
V1	MILLING 3" DEPTH

I-5960 Interstate 485 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	6/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		3	
WBS NO.	44797.3.1		



TYPICAL SECTION NO.3

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
V1	MILLING 3" DEPTH

1-5960 Interstate 485 Pavement Rehabilitation

SCALE	-NA-		REVISIONS	
DATE	7/16			
DWG. BY	TJP			
DESIGN BY	TJP			
APPROVED	WAT			

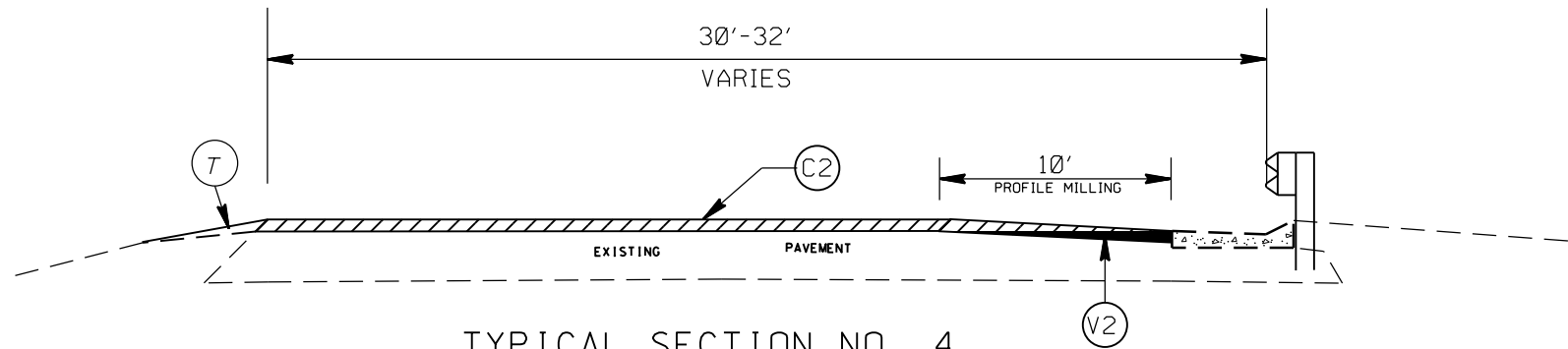
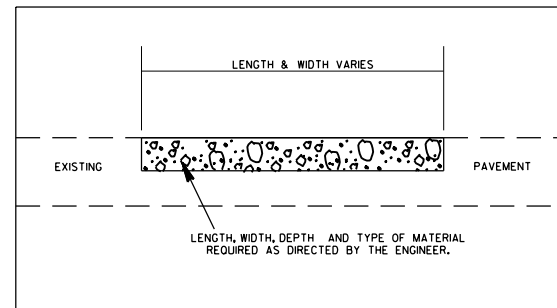
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		4	
WBS NO.	44797.3.I		

Notes:

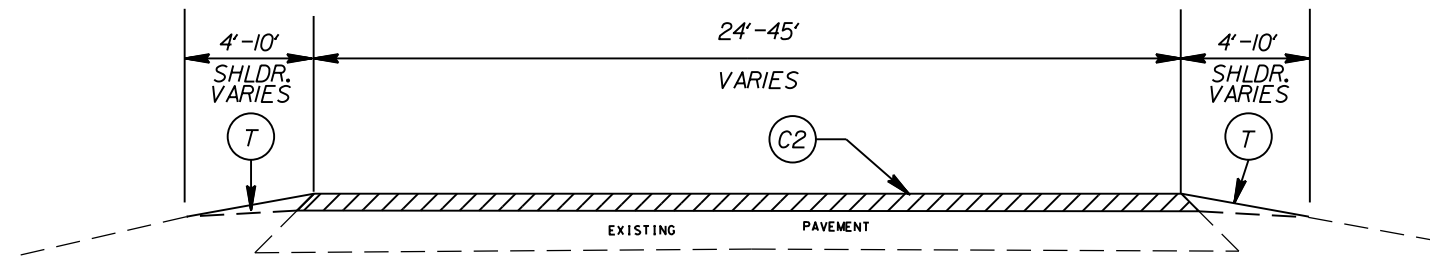
MAINLINE TYPICALS 1-3 INCLUDE ACCELERATION AND DECELERATION LANES FOR THE RAMPS UP TO THE PHYSICAL GORE.

RAMP TYPICALS 4-6 ARE APPLICABLE BETWEEN PHYSICAL GORE AND INTERSECTING Y-LINE EDGE OF TRAVEL.

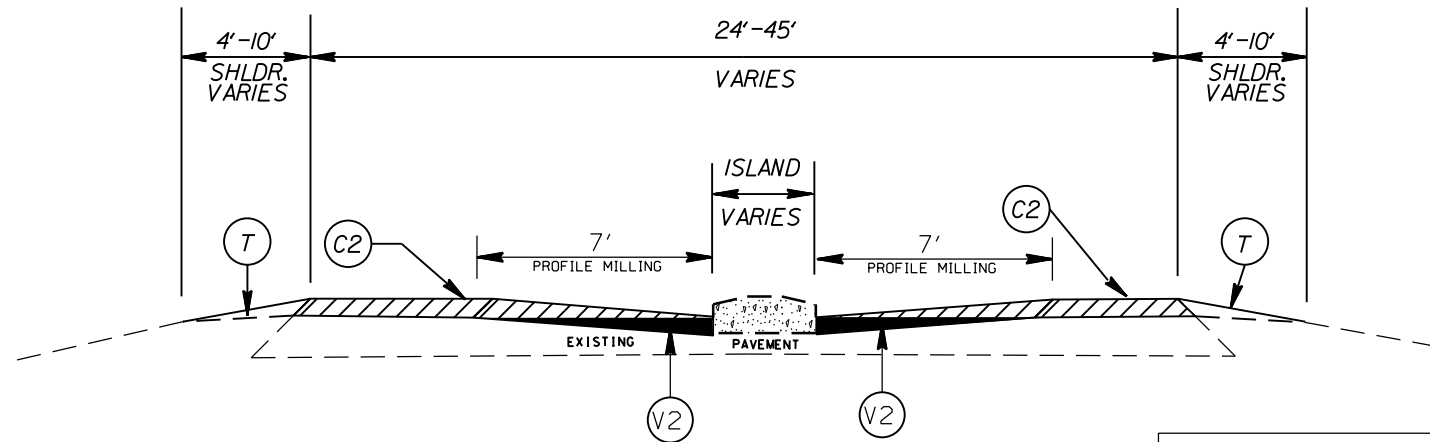
PATCHING DETAIL



TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 5



TYPICAL SECTION NO. 6

PAVEMENT SCHEDULE

B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 3" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
T	SHOULDER RECONSTRUCTION

I-5960 Interstate 485 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	7/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		5	
WBS NO. 44797.3.1			

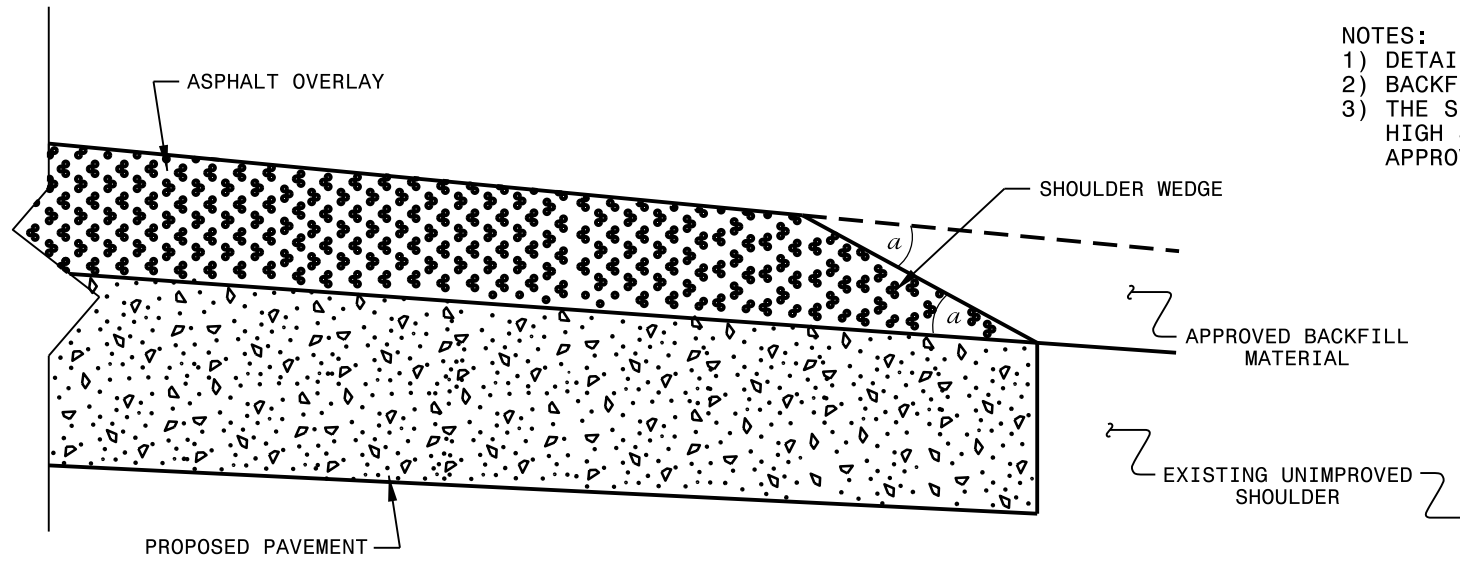
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intentionally  
left blank

*I-5960 Interstate 485 Pavement Rehabilitation  
Mecklenburg County*

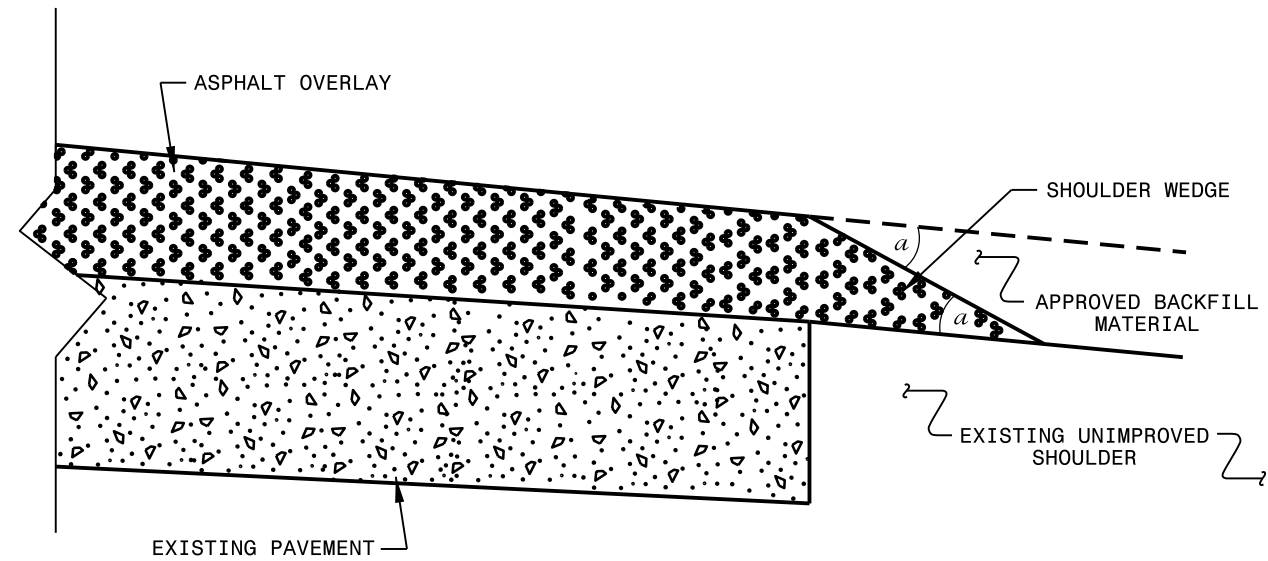
SCALE	-NA-		REVISIONS	
DATE	8/16			
DWG. BY	TJP			
DESIGN BY	TJP			
APPROVED	WAT			

**NOTES:**

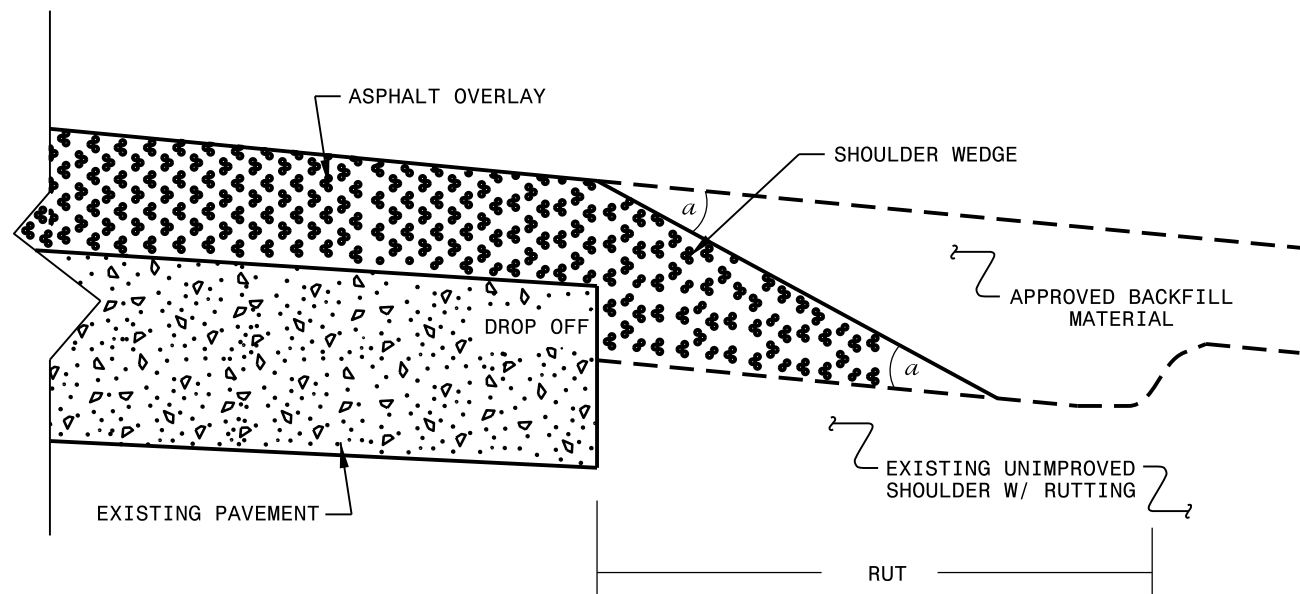
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ Widening or  
 with Existing Paved Shoulder having no dropoffs)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

**CONTRACT STANDARDS  
 AND DEVELOPMENT UNIT**  
 Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE  
 DETAILS**

ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 2/2/16
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	

I:\AUG-2016\6649  
 Reporter  
 11-050-25342  
 Resurfacing Projects\Division 10\I-5960 Mecklenburg (November 2016 Letting)\Revised Shoulder Wedge Detail.dgn

PROJECT NO.		SHEET NO.	TOTAL NO.
I-5960	44797.3.1	7	

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	3" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5C TONS	SURFACE COURSE, S9.5D TONS	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ULTRA-THIN BONDED WEARING COURSE TON	PORTABLE LIGHTING EA	TEMP. SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLY-ACRYLAMIDE (PAM) LB
I-5960 44797.3.1	Mecklenburg	1	I-485 OUTER LOOP	FROM CAMP STEWART RD TO END ENTRANCE RAMP FOR ROCKY RIVER RD	1,2,3,4,5,6	3	MD	NO	NO	4.02	42	245	60	1.00	98,344	430	2,332	1,940	17,488	114	1,186	1,100	3,643	*	752	100	50	150	9
		2	I-485 INNER LOOP	FROM BEGIN OF EXIT RAMP FOR ROCKY RIVER RD TO CAMP STEWART RD BRIDGE	1,2,3,5,6	3	MD	NO	NO	3.91	40	245	60	1.00	95,668	50	1,949	1,793	16,987	106	1,152	1,540	3,533		738	98	50	147	9
<b>GRAND TOTAL</b>										<b>7.93</b>		<b>490</b>	<b>120</b>	<b>2</b>	<b>194,012</b>	<b>480</b>	<b>4,281</b>	<b>3,733</b>	<b>34,475</b>	<b>220</b>	<b>2,338</b>	<b>2,640</b>	<b>7,176</b>	<b>1</b>	<b>1,490</b>	<b>198</b>	<b>100</b>	<b>297</b>	<b>18</b>

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4688000000-E		469000000	4695000000-E	4700000000	470200000	471000000	4721000000-E	4725000000-E					4775000000-E		4905000000-N		
										6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	6" X 120 M WHITE THERMO	8" X 90 M WHITE THERMO	12" X 90 M WHITE THERMO	12" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO MSG ONLY 120 M	THERMO MERGE LT ARROW 90 M	THERMO STR & LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	6" COLD APPLIED PLASTIC LINE WHITE TYPE II	6" COLD APPLIED PLASTIC LINE YELLOW TYPE II	SNOW PLOWABLE MARKERS		
I-5960 44797.3.1	Mecklenburg	1	I-485 OUTER LOOP	FROM CAMP STEWART RD TO END ENTRANCE RAMP FOR ROCKY RIVER RD	1,2,3,4,5,6	3	MD	4.02	42	26,746	26,707	13,979	591	2,804		68		16	3	5	2			611	376	1,090	
		2	I-485 INNER LOOP	FROM BEGIN OF EXIT RAMP FOR ROCKY RIVER RD TO CAMP STEWART RD BRIDGE	1,2,3,5,6	3	MD	3.91	40	26,240	26,240	12,600	334	3,324	1,100	61		8	9	3	13	3	4	611	376	1,111	
<b>GRAND TOTAL</b>										<b>7.93</b>		<b>52,986</b>	<b>52,947</b>	<b>26,579</b>	<b>925</b>	<b>6,128</b>	<b>1,100</b>	<b>129</b>	<b>8</b>	<b>25</b>	<b>6</b>	<b>18</b>	<b>5</b>	<b>4</b>	<b>1,222</b>	<b>752</b>	<b>2,201</b>
												<b>105,933</b>												<b>58</b>		<b>1,974</b>	