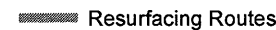
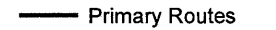
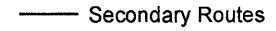


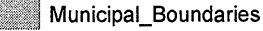
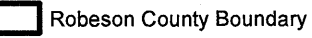
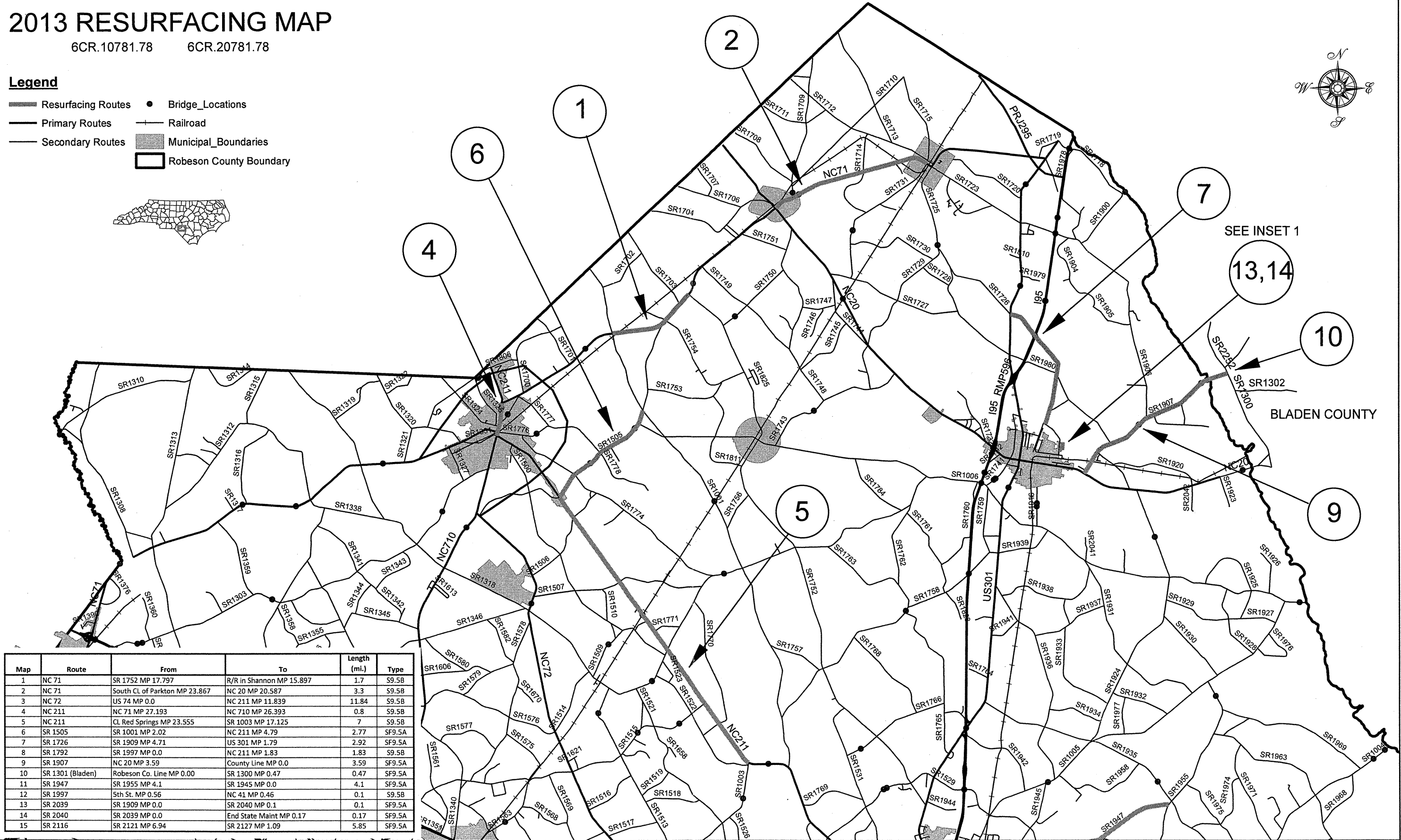
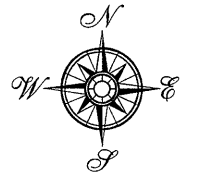


2013 RESURFACING MAP

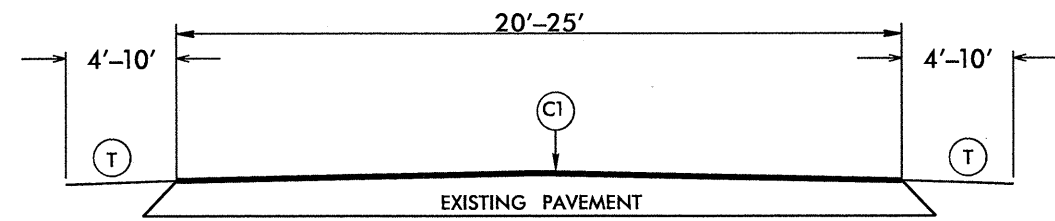
6CR.10781.78 6CR.20781.78

Legend

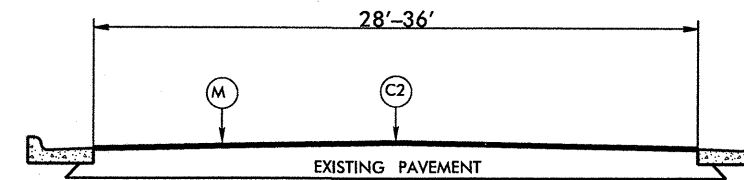
-  Resurfacing Routes
-  Primary Routes
-  Secondary Routes
-  Bridge Locations
-  Railroad
-  Municipal Boundaries
-  Robeson County Boundary



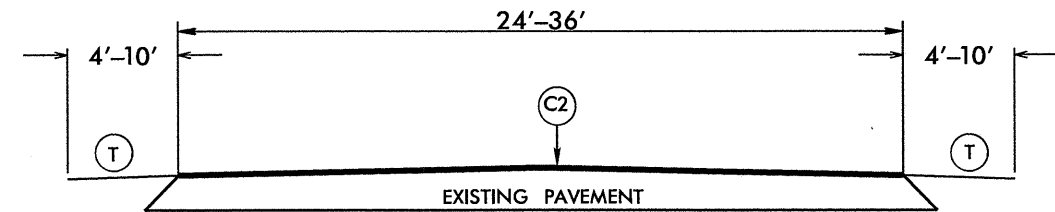
Map	Route	From	To	Length (mi.)	Type
1	NC 71	SR 1752 MP 17.797	R/R in Shannon MP 15.897	1.7	S9.5B
2	NC 71	South CL of Parkton MP 23.867	NC 20 MP 20.587	3.3	S9.5B
3	NC 72	US 74 MP 0.0	NC 211 MP 11.839	11.84	S9.5B
4	NC 211	NC 71 MP 27.193	NC 710 MP 26.393	0.8	S9.5B
5	NC 211	CL Red Springs MP 23.555	SR 1003 MP 17.125	7	S9.5B
6	SR 1505	SR 1001 MP 2.02	NC 211 MP 4.79	2.77	SF9.5A
7	SR 1726	SR 1909 MP 4.71	US 301 MP 1.79	2.92	SF9.5A
8	SR 1792	SR 1997 MP 0.0	NC 211 MP 1.83	1.83	S9.5B
9	SR 1907	NC 20 MP 3.59	County Line MP 0.0	3.59	SF9.5A
10	SR 1301 (Bladen)	Robeson Co. Line MP 0.00	SR 1300 MP 0.47	0.47	SF9.5A
11	SR 1947	SR 1955 MP 4.1	SR 1945 MP 0.0	4.1	SF9.5A
12	SR 1997	5th St. MP 0.56	NC 41 MP 0.46	0.1	S9.5B
13	SR 2039	SR 1909 MP 0.0	SR 2040 MP 0.1	0.1	SF9.5A
14	SR 2040	SR 2039 MP 0.0	End State Maint MP 0.17	0.17	SF9.5A
15	SR 2116	SR 2121 MP 6.94	SR 2127 MP 1.09	5.85	SF9.5A



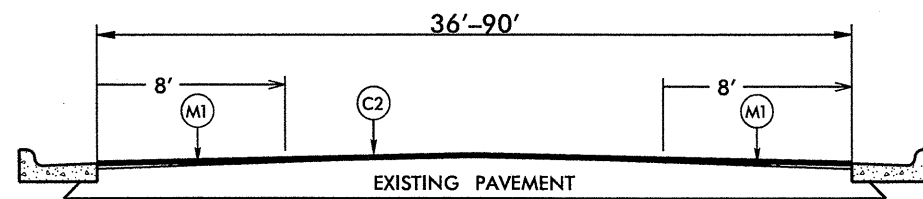
TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 4

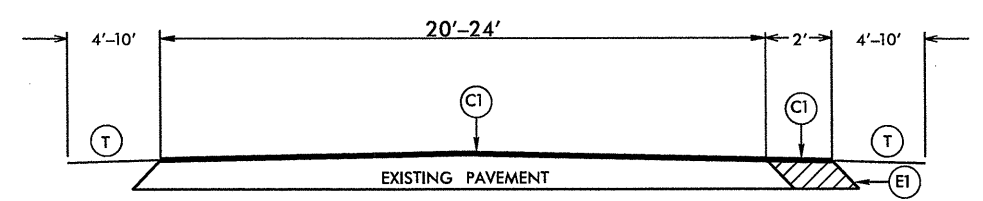


TYPICAL SECTION NO. 2



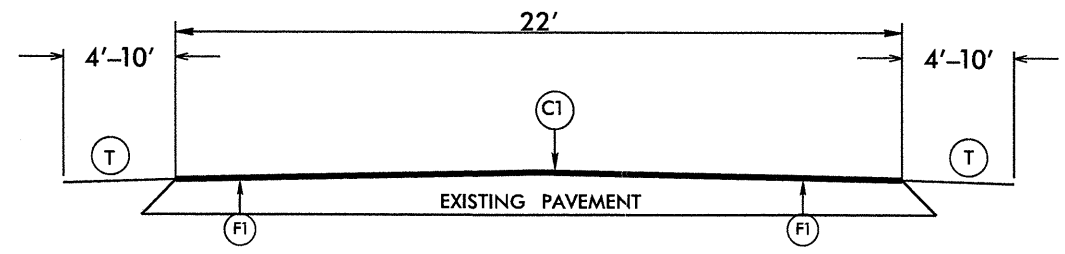
TYPICAL SECTION NO. 3

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
F1	MATCOAT, No 6M STONE , TO BE PLACED AHEAD OF THE HOT MIX ASPHALT IN ACCORDANCE WITH SECTION 660.
M	MILLING BITUMINOUS PAVEMENT. 1½" DEPTH. FULL WIDTH.
M1	MILLING BITUMINOUS PAVEMENT. 0-1½" DEPTH. 8' WIDTH.
T	SHOULDER RECONSTRUCTION.

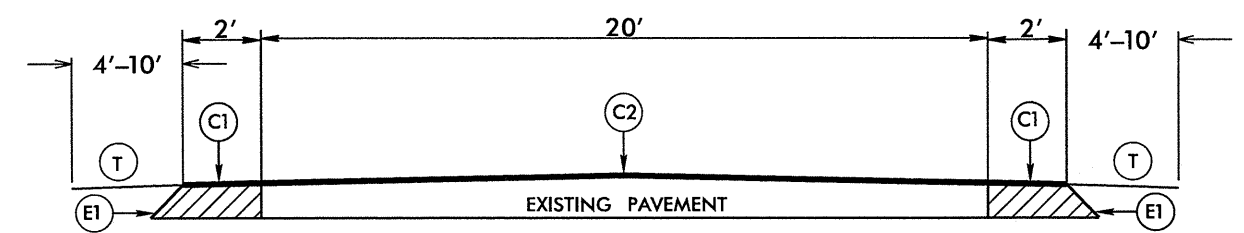


NOTE: INCLUDES 2 FT. WIDENING OF THE INSIDE RADIUS OF ALL CURVES, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 4.

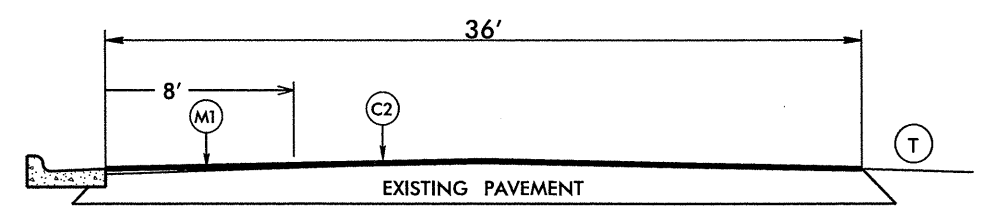
TYPICAL SECTION NO. 5



TYPICAL SECTION NO. 8

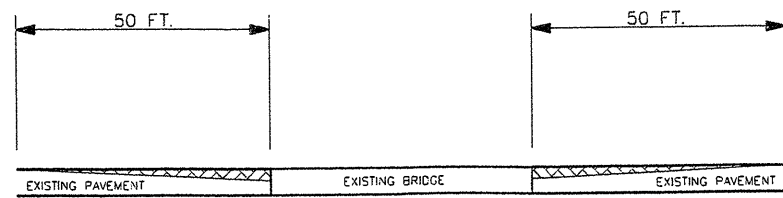


TYPICAL SECTION NO. 6



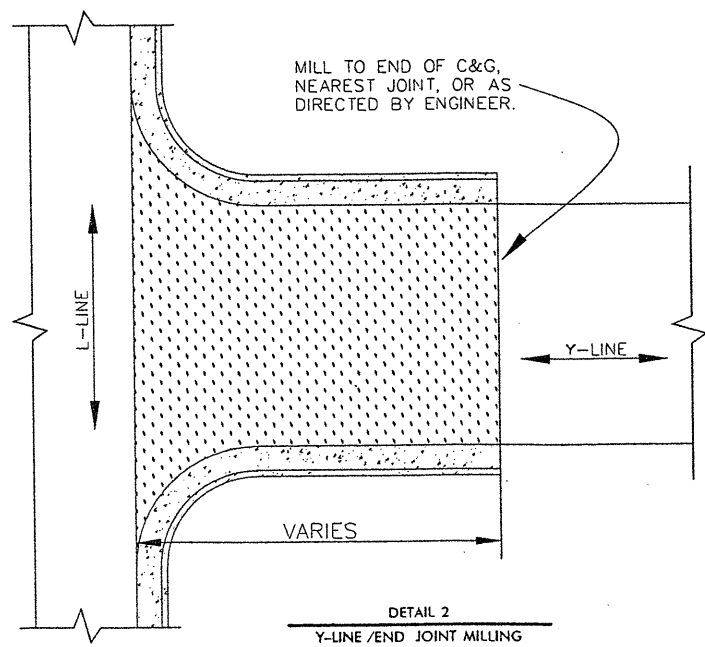
TYPICAL SECTION NO. 7

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
F1	MATCOAT, No. 6M STONE , TO BE PLACED AHEAD OF THE HOT MIX ASPHALT IN ACCORDANCE WITH SECTION 660.
M	MILLING BITUMINOUS PAVEMENT. 1½" DEPTH. FULL WIDTH.
M1	MILLING BITUMINOUS PAVEMENT. 0-1½" DEPTH. 8' WIDTH.
T	SHOULDER RECONSTRUCTION.



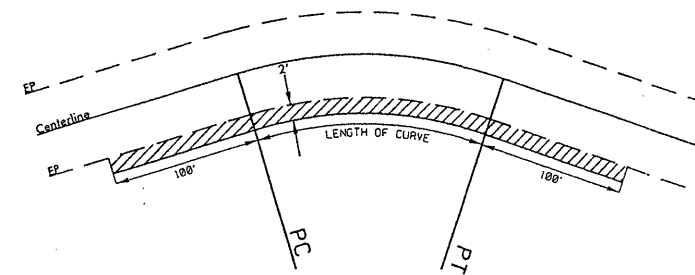
DETAIL 1
MILLING APPROACHES
AND CONSTRUCTION JOINTS

NOTE:
INCIDENTAL MILLING SHALL BE PERFORMED AT BRIDGES,
RAILROAD APPROACHES, AND CONSTRUCTION JOINTS AS
DIRECTED BY THE ENGINEER IN ACCORDANCE WITH DETAIL 1.



DETAIL 2
Y-LINE /END JOINT MILLING

NOTE: INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS
FOR SMOOTH TIE-INS, CURB RADII, AND STREET INTERSECTIONS, AS
NEEDED, OR AS DIRECTED BY THE ENGINEER.



DETAIL 4
INSIDE CURVE WIDENING

NOTE: 2 Ft. widening of inside radius of curves,
as directed by the Engineer

PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.10781.78, 6cr.20781.78	7	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	AGGREGATE SHOULDER BORROW TON	1 1/2" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A (LEVELING COURSE) TON	ASPHALT BINDER FOR PLANT MIX TONS	MAT COAT #6M STONE SY	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	PAVED TRENCHING (1 CONDUIT-2") LF	UNPAVED TRENCHING (1 CONDUIT-2") LF	JUNCTION BOX (STANDARD SIZE) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF			
6cr.10781.78	Robeson	1	NC 71-A	FROM SR 1752 (MP 17.797) TO RXR IN SHANNON (MP 15.897)	2	NO	NO	1.7	26	211					2,229			134													
TOTAL FOR MAP NO. 1								1.7		211					2,229			134													
6cr.10781.78	Robeson	2	NC 71-B	FROM SOUTH CL OF PARKTON (MP 23.867) TO NC 20 (MP 20.587)	2	NO	NO	3	25	372					3,734			224				10.00	100.00	1.00	1.00	1.00	360.00	100.00			
		"	"	FROM SOUTH CL OF PARKTON TO NC 20	3	NO	NO	0.3	40			2,159	300		591			35													
TOTAL FOR MAP NO. 2								3.3		372		2,159	300		4,325			259				10.00	100.00	1.00	1.00	1.00	360.00	100.00			
6cr.10781.78	Robeson	3	NC 72	FROM US 74 (MP 0.0) TO NC 211 (MP 11.839)	2	NO	NO	11	25	1,364					13,779			827		2	1	10.00	100.00	1.00	1.00	1.00	1,500.00	100.00			
		"	"	FROM US 74 TO NC 211	3	NO	NO	0.2	36			1,877	3,000		355			21													
		"	"	FROM US 74 TO NC 211	3	NO	NO	0.34	90			3,191			1,508			90													
		"	"	FROM US 74 TO NC 211	7	NO	NO	0.3	36			1,408			532			32													
TOTAL FOR MAP NO. 3								11.84		1,364		6,476	3,000		16,174			970			2	1	10.00	100.00	1.00	1.00	1.00	1,500.00	100.00		
6cr.10781.78	Robeson	4	NC 211-A	FROM NC 71 (MP 27.193) TO NC 710 (MP 26.393)	2	NO	NO	0.3	36	37					595			36				300.00	300.00	3.00	3.00	3.00	2,400.00	300.00			
		"	"	FROM NC 71 TO NC 710	4	NO	NO	0.5	36			10,560	300		887			58		8	2										
TOTAL FOR MAP NO. 4								0.8		37		10,560			1,482			94			8	2	300.00	300.00	3.00	3.00	3.00	2,400.00	300.00		
6cr.10781.78	Robeson	5	NC 211-B	FROM CL RED SPRINGS (MP 23.555) TO SR 1003 (MP 17.125)	2	NO	NO	7	26	868			300		9,108			546													
		"	"		7			7		868			300		9,108			546													
TOTAL FOR PROJ NO. 6cr.10781.78								24.64		2,852	10,560	8,635	3,900		33,318			2,003			10	3	320.00	500.00	5.00	5.00	5.00	4,260.00	500.00		
6cr.20781.78	Robeson	6	SR 1505	FROM SR 1001 (MP 2.02) TO NC 211 (MP 4.79)	5	NO	NO	2.77	22	343			300	334		3,011		196													
TOTAL FOR MAP NO. 6								2.77		343			300	334		3,011			196												
6cr.20781.78	Robeson	7	SR 1726	FROM SR 1909 (MP 4.71) TO US 301 (MP 1.79)	8	NO	NO	2.92	22	362			300			3,146		204	38,140												
TOTAL FOR MAP NO. 7								2.92		362			300			3,146			204	38,140											
6cr.20781.78	Robeson	8	SR 1792	FROM SR 1997 (MP 0.0) TO NC 211 (MP 1.83)	2	NO	NO	0.9	24	112					1,064			69				20.00	200.00	2.00	2.00	2.00	3,000.00	200.00			
		"	"	FROM 1197 TO NC 211	7	NO	NO	0.54	36			2,534			958			62													
		"	"	FROM SR 1997 TO NC 211	3	NO	NO	0.18	48			1,690			426			28													
		"	"	FROM SR 1997 TO NC 211	3	NO	NO	0.21	60			1,971			621			40													
TOTAL FOR MAP NO. 8								1.83		112		6,195			3,069			199			20.00	200.00	2.00	2.00	2.00	3,000.00	200.00				
6cr.20781.78	Robeson	9	SR 1907	FROM NC 20 (MP 3.59) TO COUNTY LINE (MP 0.00)	1	NO	NO	3.59	25	445			300			4,406		295													
TOTAL FOR MAP NO. 9								3.59		445			300			4,406			295												
6cr.20781.78	Robeson	10	SR 1301 (BLADEN CO.)	FROM ROBESON CO LINE (MP 0.00) TO SR 1300 (MP 0.47)	6	NO	NO	0.47	22	58				314		562	22	52													
TOTAL FOR MAP NO. 10								0.47		58			314			562	22	52													
6cr.20781.78	Robeson	11	SR 1947	FROM SR 1955 (MP 4.10) TO SR 1945 (MP 0.00)	1	NO	NO	4.1	24	508						4,800		322													
TOTAL FOR MAP NO. 11								4.1		508						4,800			322												
6cr.20781.78	Robeson	12	SR 1997	FROM 5TH ST. (MP 0.56) TO NC 41 (MP 0.46)	4	NO	NO	0.1	28			1,643			138			8				10.00	100.00	1.00	1.00	1.00	700.00	100.00			
TOTAL FOR MAP NO. 12								0.1				1,643				138			8			10.00	100.00	1.00	1.00	1.00	700.00	100.00			
6cr.20781.78	Robeson	13	SR 2039	FROM SR 1909 (MP 0.00) TO SR 2040 (MP 0.10)	1	NO	NO	0.1	20	12						97		6													
TOTAL FOR MAP NO. 13								0.1		12						97			6												
6cr.20781.78	Robeson	14	SR 2040	FROM SR 2039 (MP 0.00) TO END STATE MAINT. (MP 0.17)	1	NO	NO	0.17	20	21						165		11													
TOTAL FOR MAP NO. 14								0.17		21						165			11												
6cr.20781.78	Robeson	15	SR 2116	FROM SR 2121 (MP 6.94) TO SR 2127 (MP 1.09)	1	NO	NO	5.85	24	725						6,820		457													
TOTAL FOR MAP NO. 15								5.85		725						6,820			457												
TOTAL FOR PROJ NO. 6cr.20781.78								21.9		2,586	1,643	6,195	900	648	3,207	23,007	22	1,750	38,140			10	3	350.00	800.00	8.00	8.00	8.00	7,960.00	800.00	
GRAND TOTAL								46.54		5,438	12,203	14,830	4,800	648	36,525	23,007	22	3,753	38,140			10	3	350.00	800.00	8.00	8.00	8.00	7,960.00	800.00	

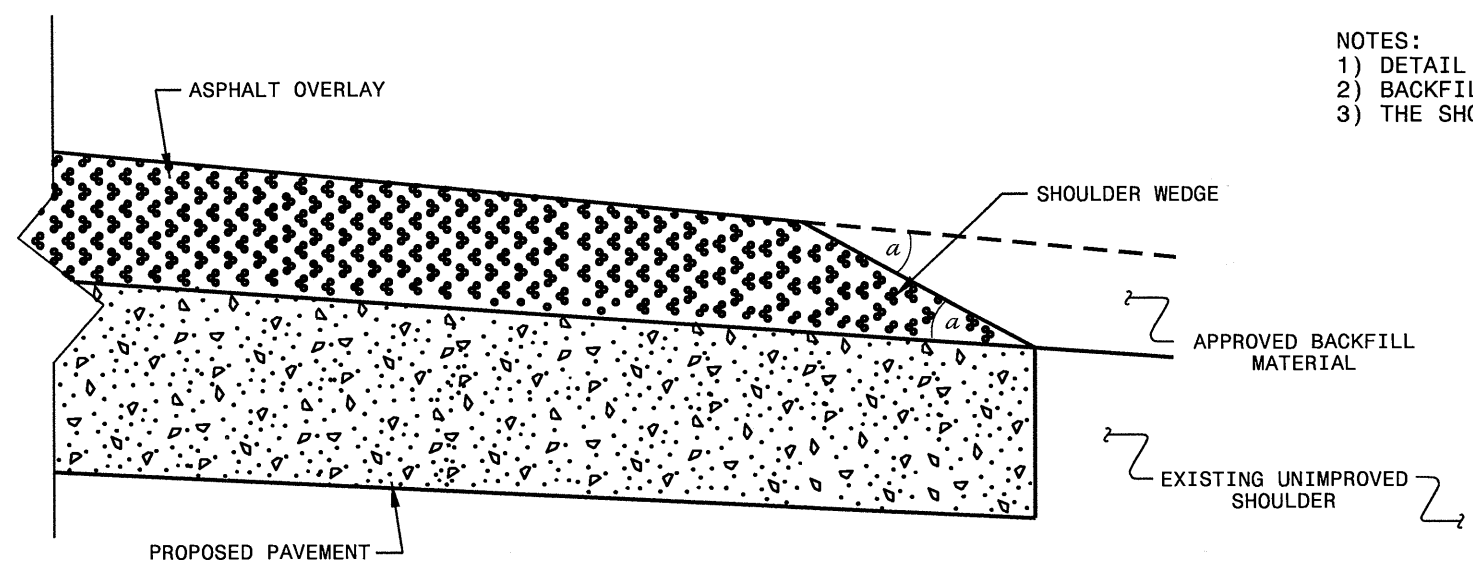
PROJECT NO.	SHEET NO.	TOTAL NO.
6cr.10781.78, 6cr.20781.78	8	

THERMOPLASTIC AND PAINT QUANTITIES

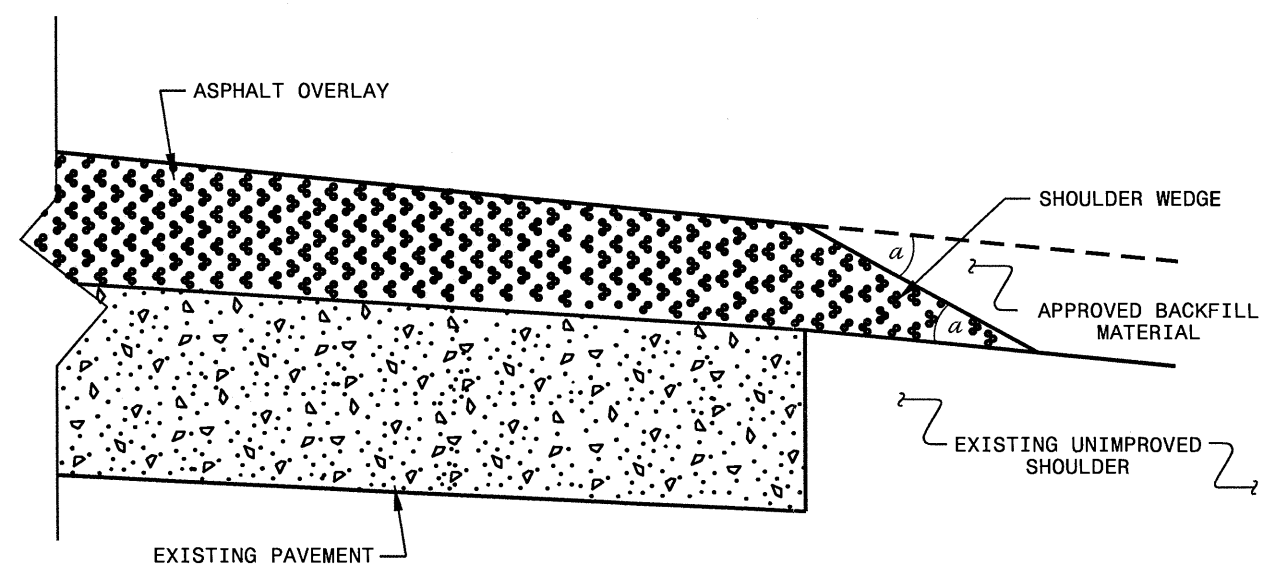
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LENGTH	WIDTH	4399000000-N	4685000000-E	4686000000-E		4695000000-E		4697000000-E	4705000000-E	4710000000-E	4721000000-E			4725000000-E			4810000000-E		4830000000-E	4835000000-E	4840000000-N	4900000000-N			
								TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M YELLOW THERMO	4" X 120 M WHITE THERMO	8" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	8" X 120 M WHITE THERMO	16" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO RXR 120 M	THERMO MSG SCHOOL 120 M	THERMO MSG ONLY 120 M	THERMO LT ARROW 90 M	THERMO STR ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & RT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG RXR	YELLOW & YELLOW MARKERS	CRYSTAL & RED MARKERS	
NO		NO			NO			LS	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		
6cr.10781.78	Robeson	1	NC 71-A	FROM SR 1752 (MP 17.797) TO RXR IN SHANNON (MP 15.897)	2	1.7	26	1	19,000	17,150		350																140			
TOTAL FOR MAP NO. 1								1	19,000	17,150		350																	140		
6cr.10781.78	Robeson	2	NC 71-B	FROM SOUTH CL OF PARKTON (MP 23.867) TO NC 20 (MP 20.587)	2	3	25	*	32,000	29,920					100	160	4											225			
TOTAL FOR MAP NO. 2									32,000	29,920			100	160	4														225		
6cr.10781.78	Robeson	3	NC 72	FROM US 74 (MP 0.0) TO NC 211 (MP 11.839)	2	11	25	*	113,550	113,550	1,530	2,120	300		150	175	6	12	8	2	2	24						895	82		
TOTAL FOR MAP NO. 3									113,550	113,550	1,530	2,120	300	150	175	6	12	8	2	2	24									895	82
6cr.10781.78	Robeson	4	NC 211-A	FROM NC 71 (MP 27.193) TO NC 710 (MP 26.393)	2	0.3	36	*	2,500	8,750	300		250	310	100	415	4			3	1	2	4				71	294			
TOTAL FOR MAP NO. 4									2,500	8,750	300		250	310	100	415	4			3	1	2	4						71	294	
6cr.10781.78	Robeson	5	NC 211-B	FROM CL RED SPRINGS (MP 23.555) TO SR 1003 (MP 17.125)	2	7	26	*	78,000	67,300		350															508				
TOTAL FOR MAP NO. 5									78,000	67,300		350																	508		
TOTAL FOR PROJ NO. 6cr.10781.78								1	245,050	236,670	1,830	2,820	550	310	350	750	14	12	8	5	3	26	4							1,839	376
										238,500		3,370					34			38									2,215		
6cr.20781.78	Robeson	6	SR 1505	FROM SR 1001 (MP 2.02) TO NC 211 (MP 4.79)	5	2.77	22	*							20													60,000	51,000		
TOTAL FOR MAP NO. 6																20													60,000	51,000	
6cr.20781.78	Robeson	7	SR 1726	FROM SR 1909 (MP 4.71) TO US 301 (MP 1.79)	8	2.92	22	*																			64,000	54,400			
TOTAL FOR MAP NO. 7																													64,000	54,400	
6cr.20781.78	Robeson	8	SR 1792	FROM SR 1997 (MP 0.0) TO NC 211 (MP 1.83)	2	0.9	24	*	16,000	18,800	2,595	810			320		12	8	31	8	9	1					161	105			
TOTAL FOR MAP NO. 8									16,000	18,800	2,595	810		320		12	8	31	8	9	1								161	105	
6cr.20781.78	Robeson	9	SR 1907	FROM NC 20 (MP 3.59) TO COUNTY LINE (MP 0.00)	1	3.59	25	*																			78,000	66,300			
TOTAL FOR MAP NO. 9																													78,000	66,300	
6cr.20781.78	Robeson	10	SR 1301 (BLADEN CO.)	FROM ROBESON CO LINE (MP 0.00) TO SR 1300 (MP 0.47)	6	0.47	22	*																			10,600	10,600			
TOTAL FOR MAP NO. 10																													10,600	10,600	
6cr.20781.78	Robeson	11	SR 1947	FROM SR 1955 (MP 4.10) TO SR 1945 (MP 0.00)	1	4.1	24	*																			64,000	54,400			
TOTAL FOR MAP NO. 11																													64,000	54,400	
6cr.20781.78	Robeson	12	SR 1997	FROM 5TH ST. (MP 0.56) TO NC 41 (MP 0.46)	4	0.1	28	*		1,600					25													1,600			
TOTAL FOR MAP NO. 12										1,600			25																1,600		
6cr.20781.78	Robeson	13	SR 2039	FROM SR 1909 (MP 0.00) TO SR 2040 (MP 0.10)	1	0.1	20	*																							
TOTAL FOR MAP NO. 13																															
6cr.20781.78	Robeson	14	SR 2040	FROM SR 2039 (MP 0.00) TO END STATE MAINT. (MP 0.17)	1	0.17	20	*																							
TOTAL FOR MAP NO. 14																															
6cr.20781.78	Robeson	15	SR 2116	FROM SR 2121 (MP 6.94) TO SR 2127 (MP 1.09)	1	5.85	24	*																			124,000	105,400			
TOTAL FOR MAP NO. 15																													124,000	105,400	
TOTAL FOR PROJ NO. 6cr.20781.78									16,000	20,400	2,595	810		365		20	8	31	8	9	1	400,600	343,700	100	60	4				561	105
										22,995		810								49							744,300		666		
GRAND TOTAL								1	261,050	257,070	4,425	3,630	550	310	350	1,115	14	24	16	36	11	35	5	400,600	343,700	100	60	4	2,400	481	
										261,495		4,180																	2,881		

6CR.20781.78

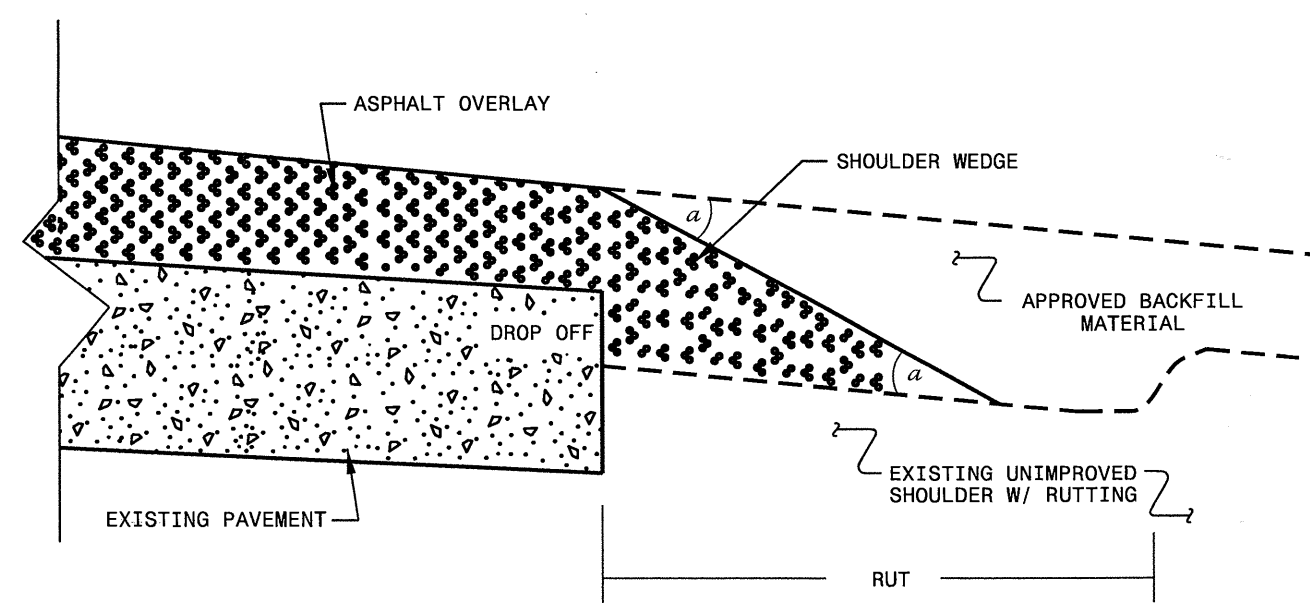
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn	

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 T.SPELL

