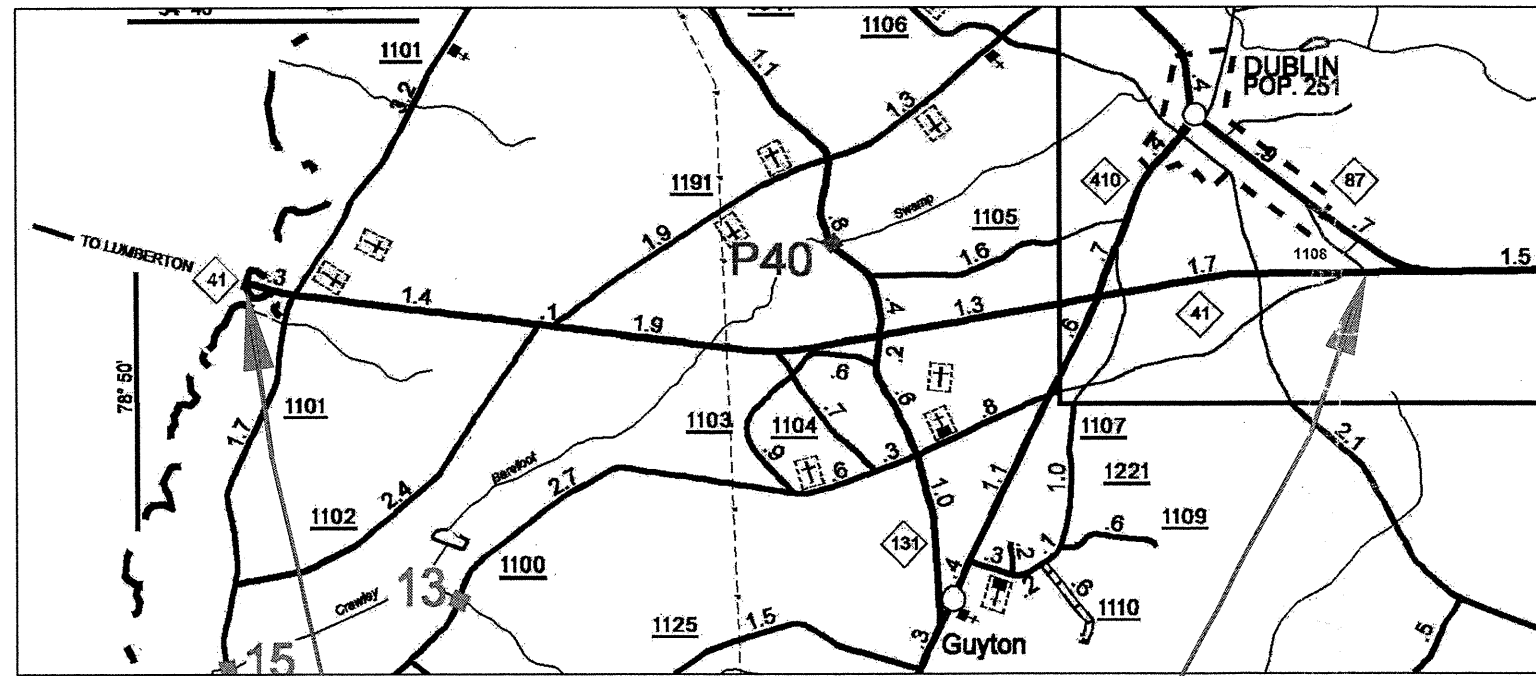
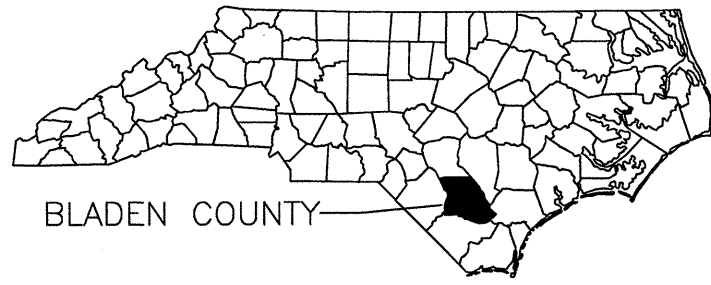
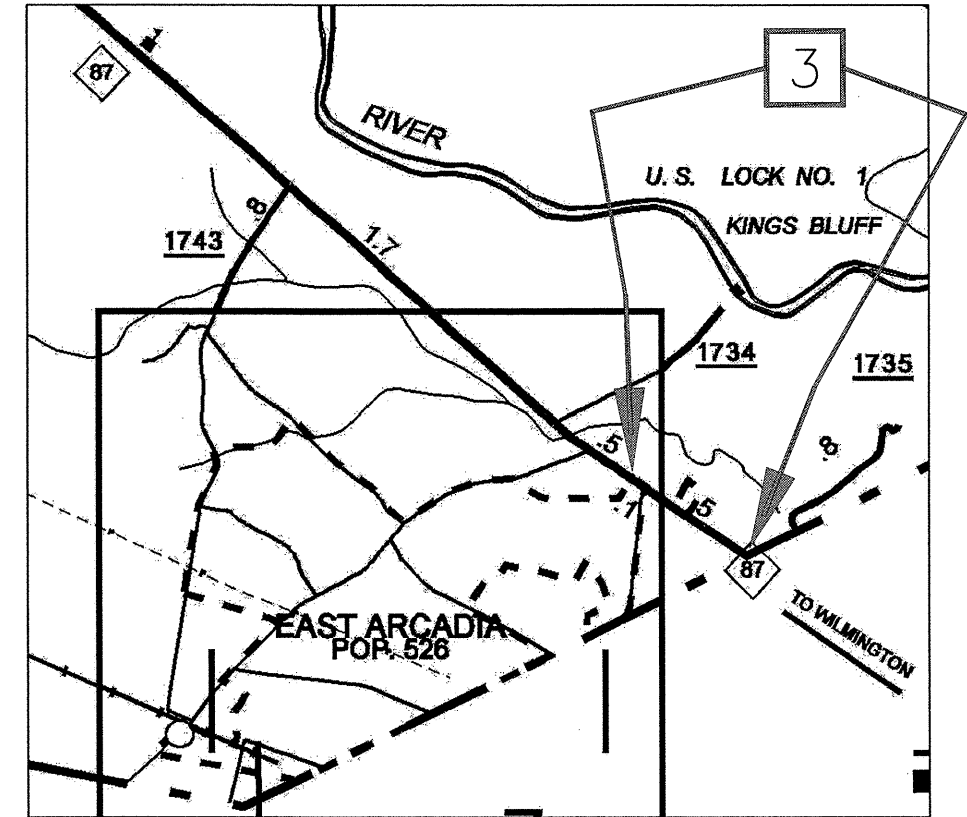


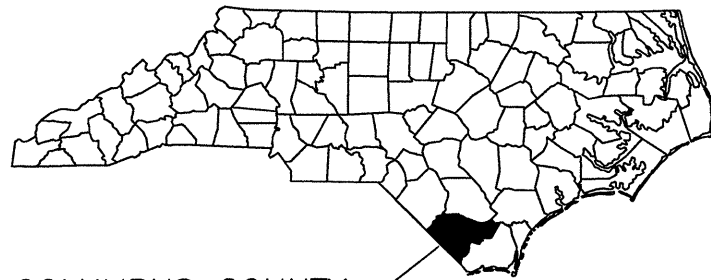
# RESURFACING MAPS – BLADEN COUNTY



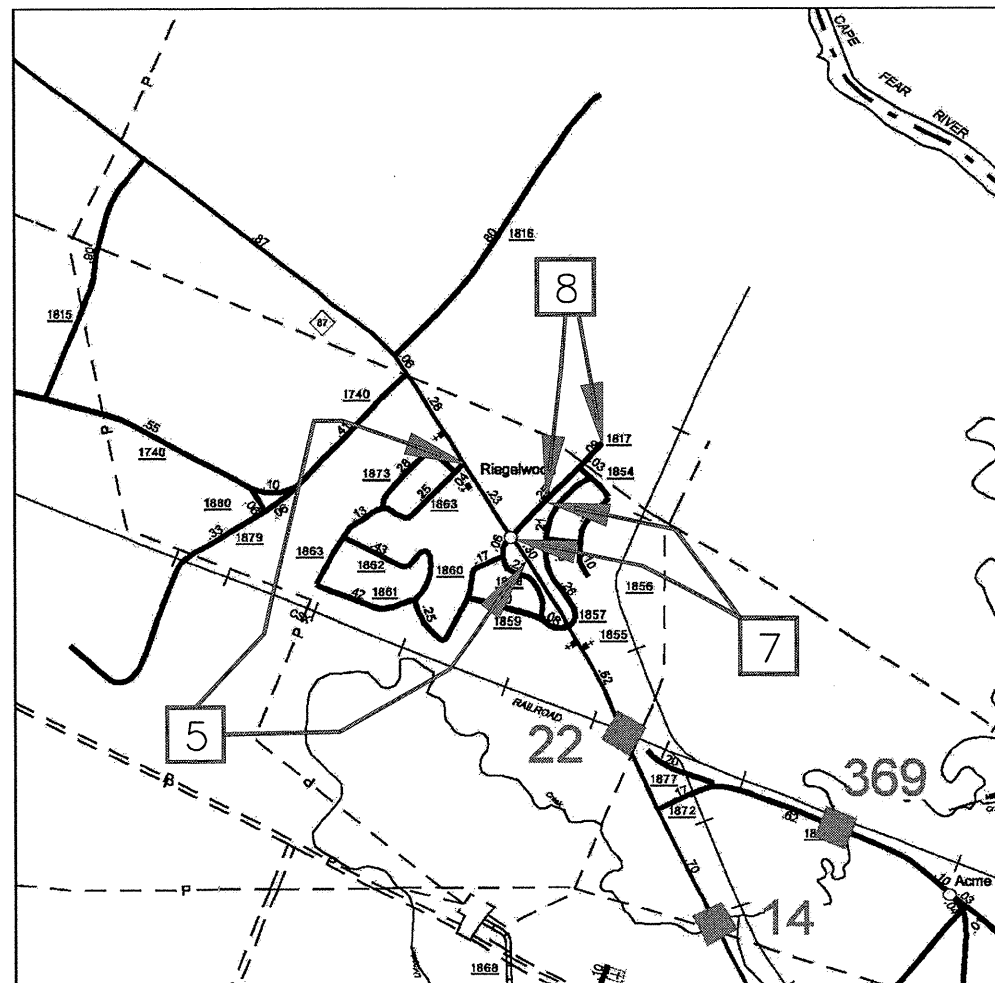
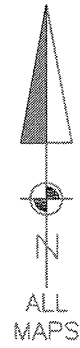
2



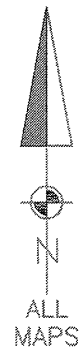
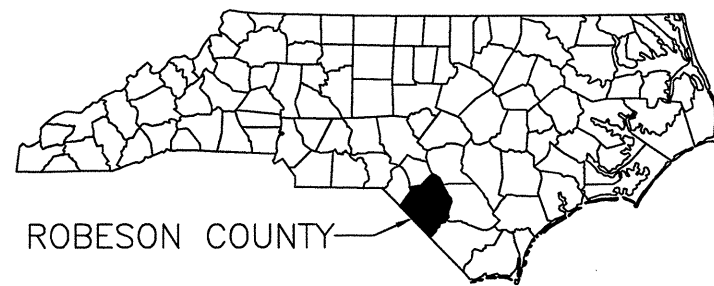
# RESURFACING MAPS – COLUMBUS COUNTY



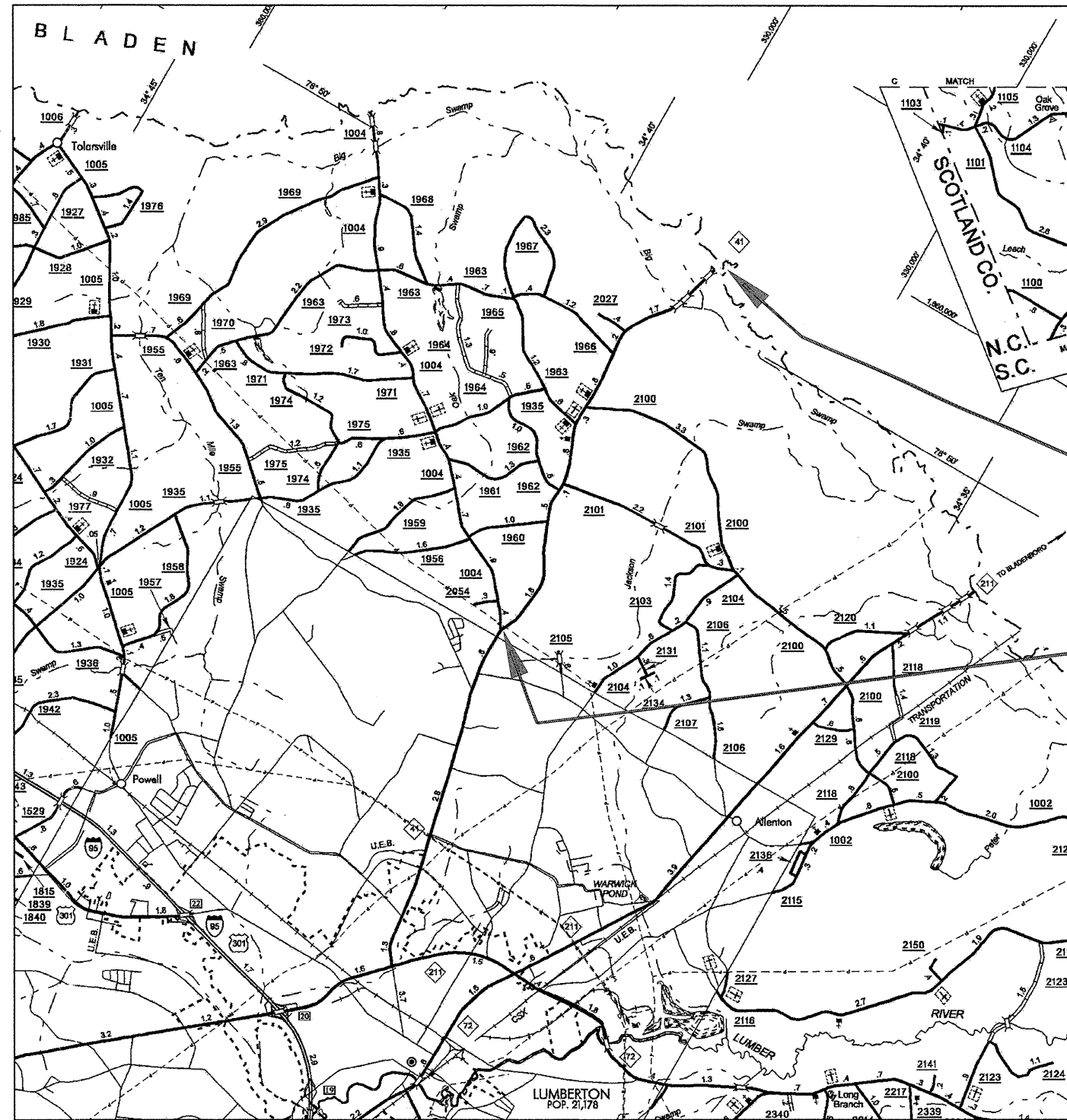
COLUMBUS COUNTY

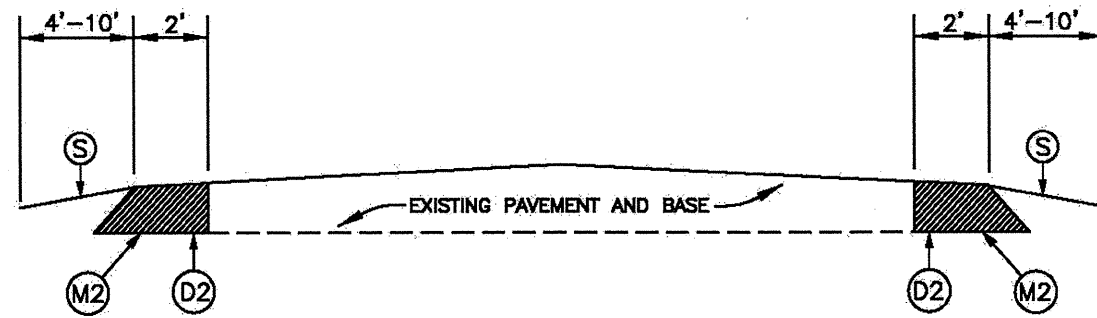


# RESURFACING MAPS — ROBESON COUNTY



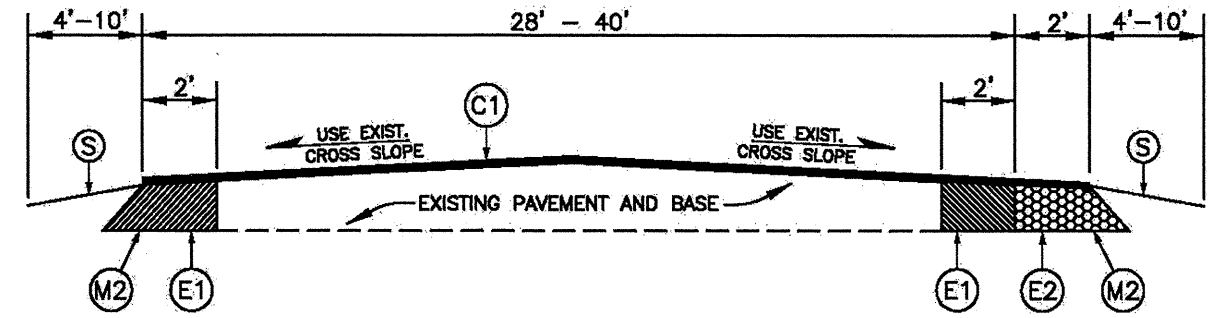
COLUMBUS		TYPICAL NO. 1	TYPICAL NO. 2	TYPICAL NO. 3	TYPICAL NO. 4	TYPICAL NO. 5	TYPICAL NO. 6
	PRIMARY			NC 87-A & C	NC 87-B		
	SECONDARY					SR 1817-A	SR 1817-B
-----							
BLADEN		TYPICAL NO. 1	TYPICAL NO. 2	TYPICAL NO. 3	TYPICAL NO. 4	TYPICAL NO. 5	TYPICAL NO. 6
	PRIMARY		NC 41	NC 87			
-----							
ROBESON		TYPICAL NO. 1	TYPICAL NO. 2	TYPICAL NO. 3	TYPICAL NO. 4	TYPICAL NO. 5	TYPICAL NO. 6
	PRIMARY	NC 41					





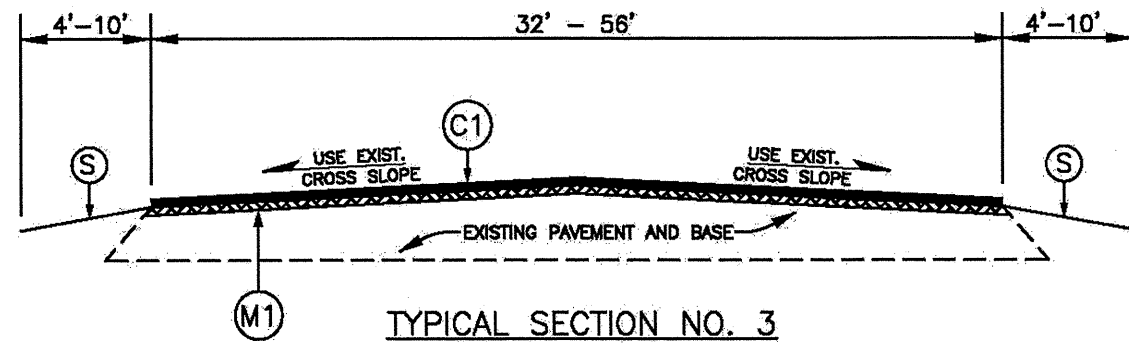
TYPICAL SECTION NO. 1

- NOTES:
- EXISTING DITCHES WILL NOT BE RELOCATED, UNLESS DIRECTED BY ENGINEER.
  - INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND ROAD INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.



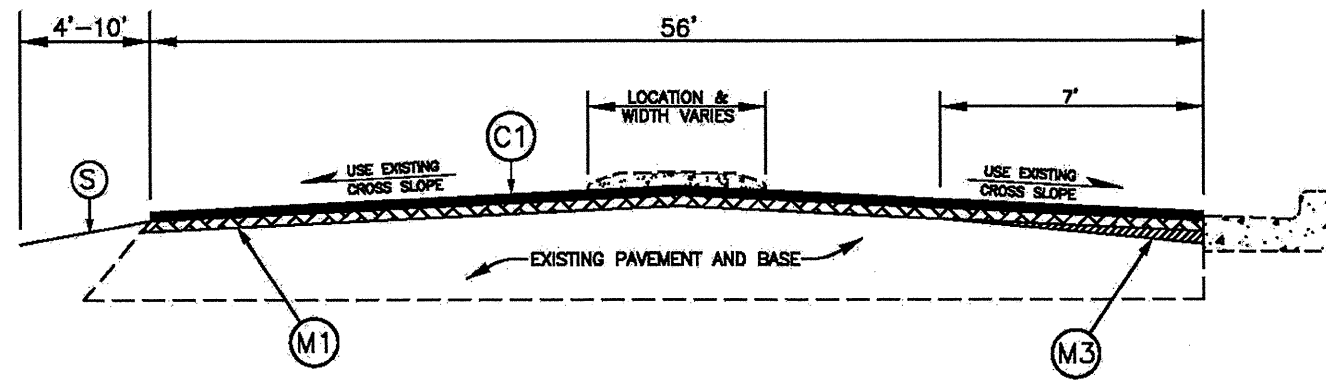
TYPICAL SECTION NO. 2

- NOTES:
- INCLUDES 2' WIDENING ON THE INSIDE RADIUS OF ALL CURVES, PROVIDED ADEQUATE SHOULDER WIDTH EXISTS. ENGINEER WILL IDENTIFY CURVES TO BE WIDENED IN THE FIELD. SEE DETAIL 1.
  - INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND ROAD INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.
  - INCLUDES MILL & FILL PAVEMENT REPAIR WHERE IDENTIFIED BY ENGINEER. SEE DETAIL 4.



TYPICAL SECTION NO. 3

- NOTES:
- INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND ROAD INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.
  - INCLUDES MILL & FILL PAVEMENT REPAIR WHERE IDENTIFIED BY ENGINEER. SEE DETAIL 4.
  - INCLUDES MILLING ON ASPHALT BRIDGE DECKS & BRIDGE APPROACHES, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.

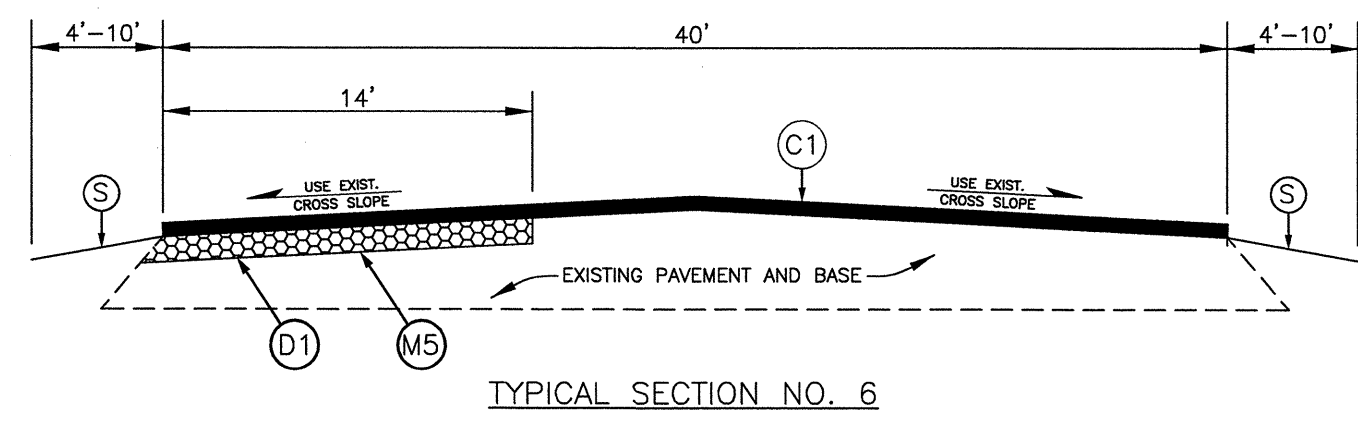
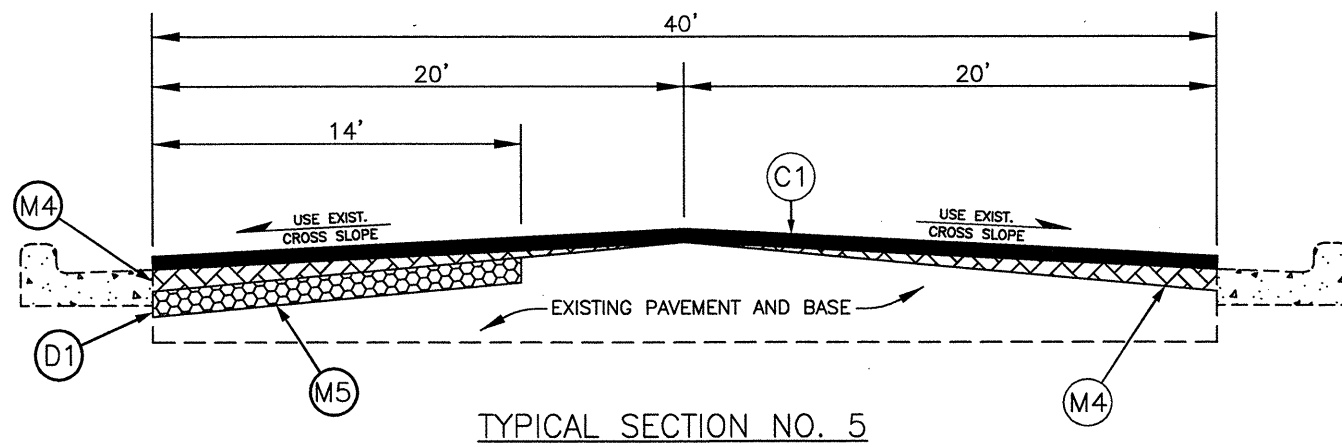


TYPICAL SECTION NO. 4

- NOTES:
- INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND ROAD INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.
  - INCLUDES MILL & FILL PATCHING WHERE IDENTIFIED BY ENGINEER. SEE DETAIL 4.
  - WHERE CONCRETE MONOLITHIC ISLANDS OCCUR, MILL FROM THE EDGE OF THE ISLAND TO THE OUTSIDE EDGE OF PAVEMENT. OTHERWISE MILL THE ENTIRE WIDTH OF PAVEMENT.

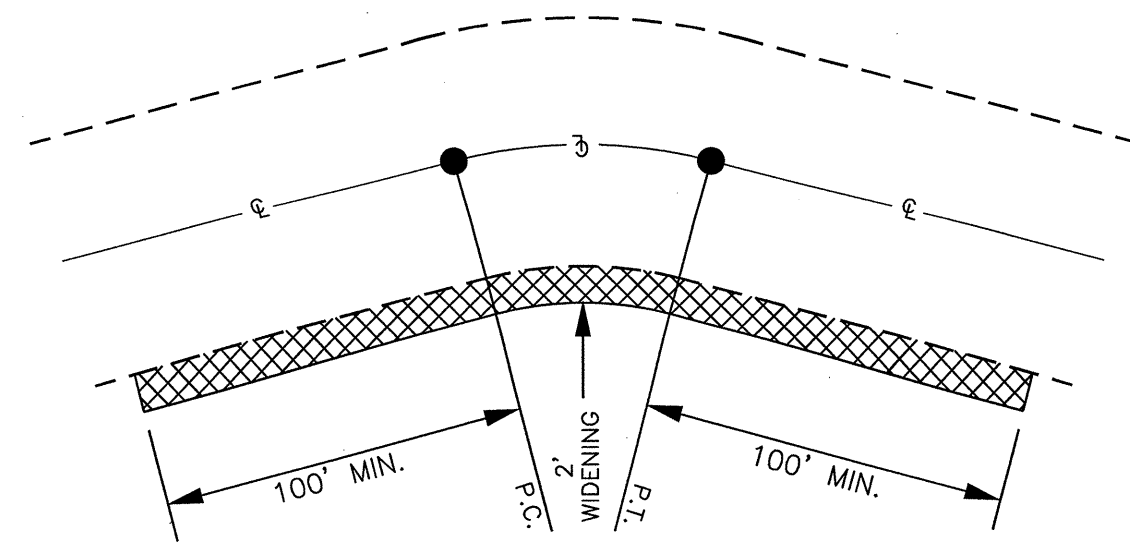
PAVEMENT SCHEDULE	
C1	Proposed approximately 1½" of Asphalt Concrete Surface Course, Type S-9.5-B, at an average rate of 168 pounds per square yard.
D1	Proposed approximately 2½" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 285 pounds per square yard.
D2	Proposed approximately 5" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 570 pounds per square yard for symmetrical 2' widening.
E1	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for symmetrical 2' widening.
E2	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for 2' widening at inside curve radii, as Directed by the Engineer.
M1	Milling existing asphalt to a depth of ½" for the entire width of the roadway, or as Directed by the Engineer, for roadway profile correction.
M2	Milling existing soil shoulder, to a depth of 5" to 5½" with a width of 2' or 4', where indicated by Typical, for symmetrical & inside curve widening.
M3	Milling Depth 0" - 1½" at the edge of Curb & Gutter. Milling shall extend below the lip of the Curb & Gutter by the thickness of the Proposed Overlay, or as Directed by the Engineer.
M4	Milling Depth 0" - 1½" from the centerline of roadway to the edge of Curb & Gutter. Milling shall extend below the lip of the Gutter Pan by the thickness of the Proposed Overlay, or as Directed by the Engineer.
M5	Milling Depth of an additional 2½" for a width of 14' from the edge of the Gutter Pan or Shoulder, or as Directed by the Engineer.
M6	Milling Depth 2½" at all designated distressed areas, with a variable width from 9' to 12', or as Directed by the Engineer.
M7	Incidental Milling 0" - 1½" at all Bridge Approaches and Railroad Track Approaches, for the entire width of the roadway, or as Directed by the Engineer.
S	Shoulder Reconstruction to be performed by State Forces. Contractor shall coordinate with NCDOT units as needed.

DRAWINGS NOT TO SCALE



- NOTES:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND ROAD INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.
  2. INCLUDES DISTRESSED AREAS REQUIRING MILL & FILL PAVEMENT REPAIR, AS SHOWN IN TYPICAL.
  3. FILL DEEP MILLED AREA WITH 2½" ASPHALT INTERMEDIATE COURSE, BACK FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE AFTER CURB MILLING, BUT PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.

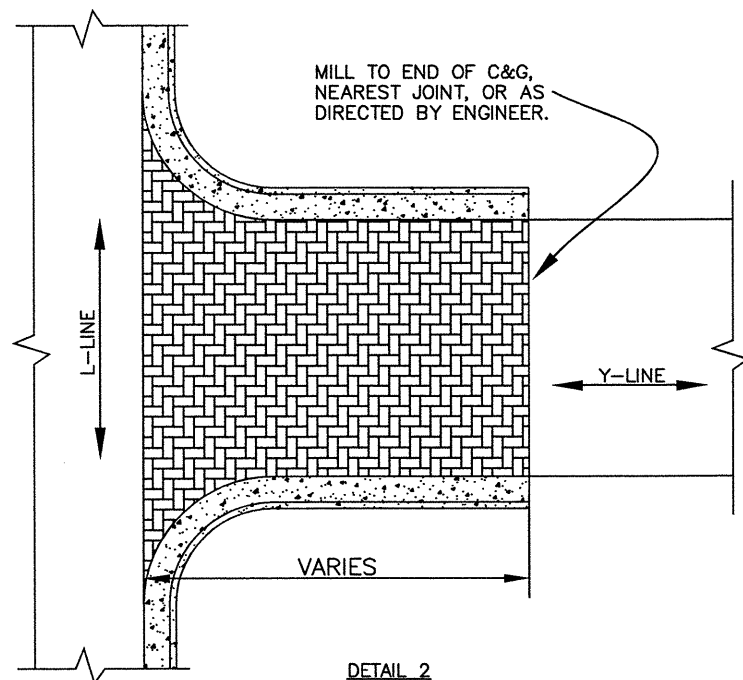
- NOTES:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND ROAD INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 2.
  2. INCLUDES DISTRESSED AREAS REQUIRING MILL & FILL PAVEMENT REPAIR, AS SHOWN IN TYPICAL.
  3. FILL DEEP MILLED AREA WITH 2½" ASPHALT INTERMEDIATE COURSE, BACK FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE AFTER CURB MILLING, BUT PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.



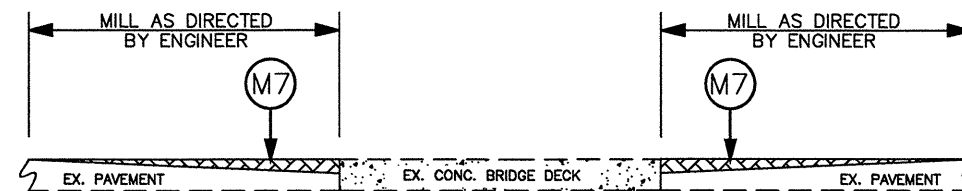
DETAIL 1  
2' INSIDE CURVE WIDENING

PAVEMENT SCHEDULE	
C1	Proposed approximately 1½" of Asphalt Concrete Surface Course, Type S-9.5-B, at an average rate of 168 pounds per square yard.
D1	Proposed approximately 2½" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 285 pounds per square yard.
D2	Proposed approximately 5" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 570 pounds per square yard for symmetrical 2' widening.
E1	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for symmetrical 2' widening.
E2	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for 2' widening at inside curve radii, as Directed by the Engineer.
M1	Milling existing asphalt to a depth of ½" for the entire width of the roadway, or as Directed by the Engineer, for roadway profile correction.
M2	Milling existing soil shoulder, to a depth of 5" to 5½" with a width of 2' or 4', where indicated by Typical, for symmetrical & inside curve widening.
M3	Milling Depth 0" - 1½" at the edge of Curb & Gutter. Milling shall extend below the lip of the Curb & Gutter by the thickness of the Proposed Overlay, or as Directed by the Engineer.
M4	Milling Depth 0" - 1½" from the centerline of roadway to the edge of Curb & Gutter. Milling shall extend below the lip of the Gutter Pan by the thickness of the Proposed Overlay, or as Directed by the Engineer.
M5	Milling Depth of an additional 2½" for a width of 14' from the edge of the Gutter Pan or Shoulder, or as Directed by the Engineer.
M6	Milling Depth 2½" at all designated distressed areas, with a variable width from 9' to 12', or as Directed by the Engineer.
M7	Incidental Milling 0" - 1½" at all Bridge Approaches and Railroad Track Approaches, for the entire width of the roadway, or as Directed by the Engineer.
S	Shoulder Reconstruction to be performed by State Forces. Contractor shall coordinate with NCDOT units as needed.

DRAWINGS NOT TO SCALE

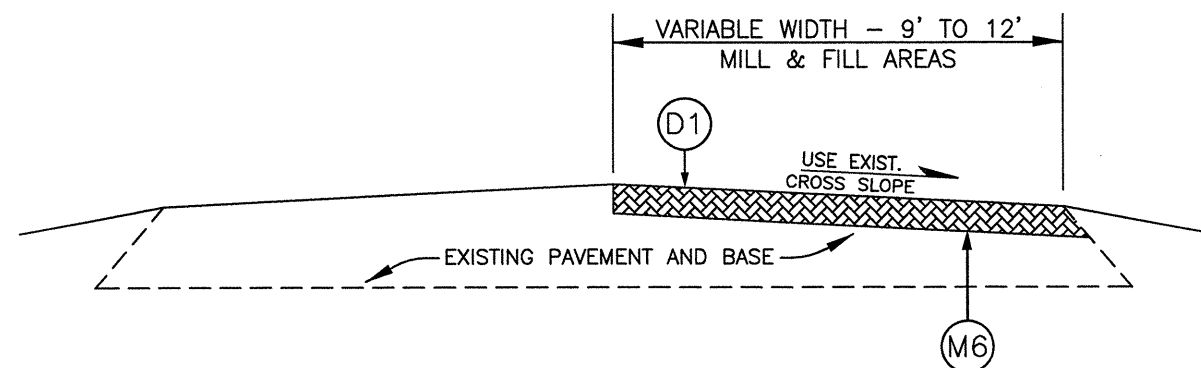


NOTE: INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII, AND STREET INTERSECTIONS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THIS DETAIL.



DETAIL 3  
MILLING APPROACHES

NOTE: MILLING SHALL BE PERFORMED AT BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



DETAIL 4  
MILL & FILL PAVEMENT REPAIR

NOTES:

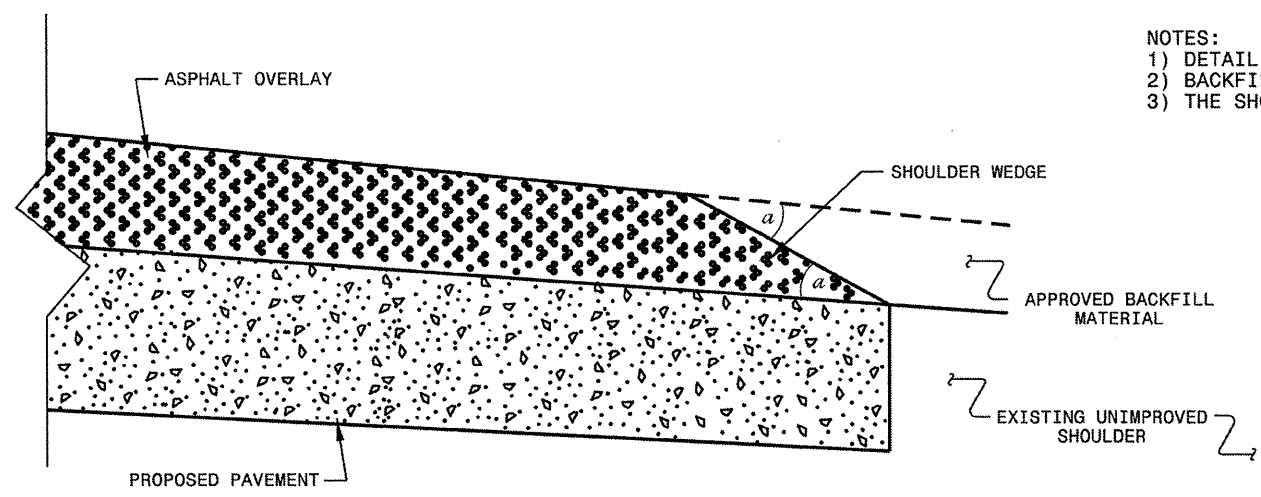
1. DISTRESSED AREAS TO BE REPAIRED BY MILL & FILL SHALL BE DESIGNATED BY THE ENGINEER.
2. FILL MILLED AREAS WITH ASPHALT INTERMEDIATE COURSE BACK FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE, PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.

PAVEMENT SCHEDULE

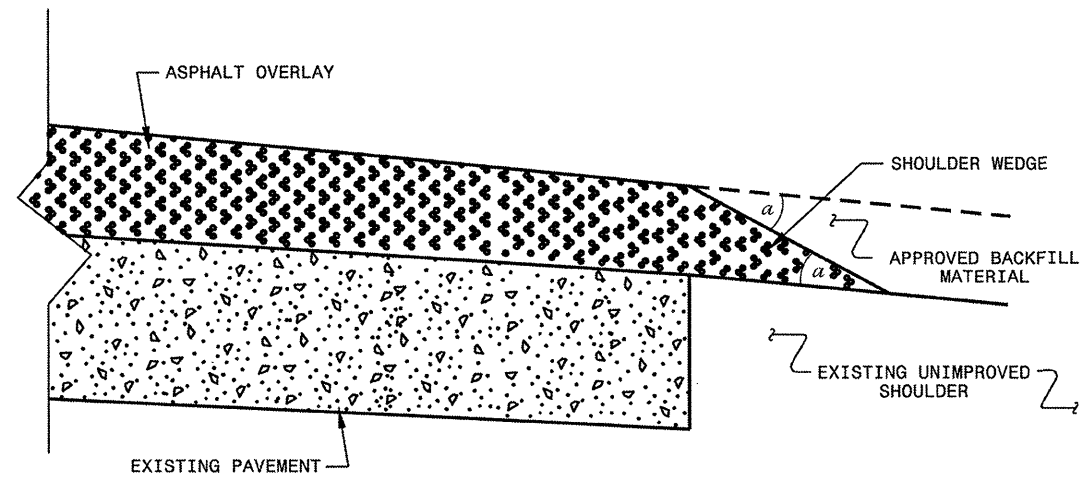
C1	Proposed approximately 1½" of Asphalt Concrete Surface Course, Type S-9.5-B, at an average rate of 168 pounds per square yard.
D1	Proposed approximately 2½" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 285 pounds per square yard.
D2	Proposed approximately 5" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 570 pounds per square yard for symmetrical 2' widening.
E1	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for symmetrical 2' widening.
E2	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for 2' widening at inside curve radii, as Directed by the Engineer.
M1	Milling existing asphalt to a depth of ½" for the entire width of the roadway, or as Directed by the Engineer, for roadway profile correction.
M2	Milling existing soil shoulder, to a depth of 5" to 5½" with a width of 2' or 4', where indicated by Typical, for symmetrical & inside curve widening.
M3	Milling Depth 0" - 1½" at the edge of Curb & Gutter. Milling shall extend below the lip of the Curb & Gutter by the thickness of the Proposed Overlay, or as Directed by the Engineer.
M4	Milling Depth 0" - 1½" from the centerline of roadway to the edge of Curb & Gutter. Milling shall extend below the lip of the Gutter Pan by the thickness of the Proposed Overlay, or as Directed by the Engineer.
M5	Milling Depth of an additional 2½" for a width of 14' from the edge of the Gutter Pan or Shoulder, or as Directed by the Engineer.
M6	Milling Depth 2½" at all designated distressed areas, with a variable width from 9' to 12', or as Directed by the Engineer.
M7	Incidental Milling 0" - 1½" at all Bridge Approaches and Railroad Track Approaches, for the entire width of the roadway, or as Directed by the Engineer.
S	Shoulder Reconstruction to be performed by State Forces. Contractor shall coordinate with NCDOT units as needed.

DRAWINGS NOT TO SCALE

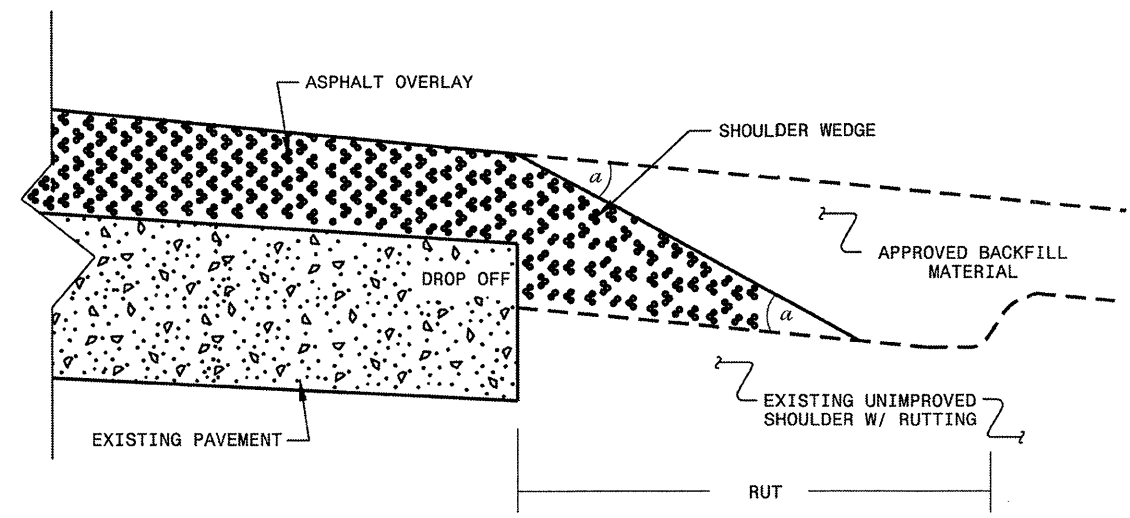
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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			
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T. SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC: s:\usr\detail\stand\shoulderwedgedetail.dgn			

\*\*\*\*\*  
 SYSTEMS  
 \*\*\*\*\*

PROJECT NO.	SHEET NO.	TOTAL NO.
6CR.10091.79, 6CR.10241.79 6CR.10781.79, ETC.	8	

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	2.5" MILLING SY	0.5" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADI. OF MANHOLES EA	ADI. 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.10091.79	Bladen	2	NC 41	FROM ROBESON CO LINE (MP 0.00) TO SR 1108 (MP 6.73)	2	NO	NO	6.73	24	1,056			2,267	5,817	150	10,157	118	880	202			10	100	1	1	1	1,000	100	
TOTAL FOR MAP NO. 2								6.73		1,056			2,267	5,817	150	10,157	118	880	202			10	100	1	1	1	1,000	100	
6CR.10091.79	Bladen	3	NC 87	FROM WCL OF EAST ARCADIA (MP 0.00) TO COLUMBUS CO LINE (MP 0.72)	3	NO	NO	0.72	32	704	13,517		400		100	1,185	47	79	29										
TOTAL FOR MAP NO. 3								0.72		704	13,517		400		100	1,185	47	79	29										
TOTAL FOR PROJ NO. 6CR.10091.79								7.45		1,760	13,517		2,667	5,817	250	11,342	165	959	231			10	100	1	1	1	1,000	100	
6CR.10241.79	Columbus	4	NC87-A	FROM BLADEN CO LINE (MP 0.00) TO CHURCH RD (MP 4.75)	3	NO	NO	4.75	32	1,408	89,173		1,200		201	7,679	89	476	190										
TOTAL FOR MAP NO. 4								4.75		1,408	89,173		1,200		201	7,679	89	476	190										
6CR.10241.79	Columbus	5	NC 87-B	FROM CHURCH RD (MP 4.75) TO END 4 LANE SECT (MP5.07)	4	NO	NO	0.32	56	211	12,484	821	667		30	1,049	18	60	13	2	1								
TOTAL FOR MAP NO. 5								0.32		211	12,484	821	667		30	1,049	18	60	13	2	1								
6CR.10241.79	Columbus	6	NC 87-C	FROM END 4 LANE SECT (MP 5.07) TO US 74 (MP 7.00)	3	NO	NO	1.71	32	352	32,102	1,502	800		50	2,911	59	181	68										
		"	"	FROM END 4 LANE SECT (MP 5.07) TO US 74 (MP 7.00)	3	NO	NO	0.22	44		5,679					482		29	9										
TOTAL FOR MAP NO. 6								1.93		352	37,781	1,502	800		50	3,393	59	210	77										
TOTAL FOR PROJ NO. 6CR.10241.79								7		1,971	139,438	2,323	2,667		281	12,121	166	746	280	2	1								
6CR.10781.79	Robeson	1	NC 41	FROM SR 1004 (MP 26.67) TO BLADEN CO LINE (MP 32.41)	1	NO	NO	5.74	4						3,839			184				10	100	1	1	1	350	100	
TOTAL FOR MAP NO. 1								5.74							3,839			184				10	100	1	1	1	350	100	
TOTAL FOR PROJ NO. 6CR.10781.79								5.74							3,839			184				10	100	1	1	1	350	100	
6CR.20241.79	Columbus	7	SR 1817 A	FROM NC 87 (MP 0.00) TO END C&G (MP 0.10)	5	NO	NO	0.1	40	704		2,347	44		100	212	12	18	5										
TOTAL FOR MAP NO. 7								0.1		704		2,347	44		100	212	12	18	5										
6CR.20241.79	Columbus	8	SR 1817 B	FROM END C&G (MP 0.10) TO END MAINT (MP 0.28)	6	NO	NO	0.18	40	1,267			44		181	371	18	32	9										
TOTAL FOR MAP NO. 8								0.18		1,267			44		181	371	18	32	9										
TOTAL FOR PROJ NO. 6CR.20241.79								0.28		1,971		2,347	88		281	583	30	50	14										
GRAND TOTAL								20.47		5,702	152,955	4,670	5,422	5,817	4,651	24,046	361	1,939	525	2	1	20	200	2	2	2	1,350	200	



PROJECT NO.	SHEET NO.	TOTAL NO.
6CR.10091.79, 6CR.10241.79 6CR.10781.79, ETC.	9	

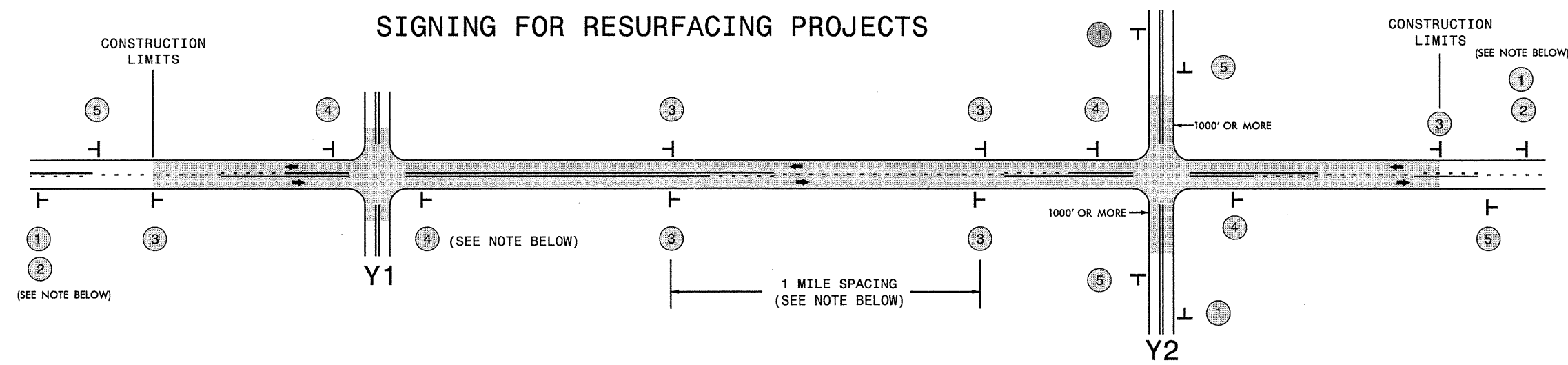
### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4685000000-E	4686000000-E			4695000000-E			4710000000-E			4725000000-E					4810000000-E		4900000000-N	
								WORK ZONE ADV./GEN. WARNING SIGNING SF	TEMP. TRAFFIC CONTROL LS	LAW ENFORCEMENT HR	4" X 90 M WHITE THERMO LF	4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	24" X 120 M WHITE THERMO LF	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	4" YELLOW PAINT LF	4" WHITE PAINT LF	CRYSTAL & RED MARKERS EA	YELLOW & YELLOW MARKERS EA				
6CR.10091.79	Bladen	2	NC 41	FROM ROBESON CO LINE (MP 0.00) TO SR 1108 (MP 6.73)	2	6.73	24	311.4	1	40	68,000	1,250	63,800	630	1,610		15	7									70	470	
<b>TOTAL FOR MAP NO. 2</b>						<b>6.73</b>		<b>311.4</b>	<b>1</b>	<b>40</b>	<b>68,000</b>	<b>1,250</b>	<b>63,800</b>	<b>630</b>	<b>1,610</b>		<b>15</b>	<b>7</b>								<b>70</b>	<b>470</b>		
6CR.10091.79	Bladen	3	NC 87	FROM WCL OF EAST ARCADIA (MP 0.00) TO COLUMBUS CO LINE (MP 0.72)	3	0.72	32	311.4	*		8,000		6,400															50	
<b>TOTAL FOR MAP NO. 3</b>						<b>0.72</b>		<b>311.4</b>	<b>*</b>		<b>8,000</b>		<b>6,400</b>															<b>50</b>	
<b>TOTAL FOR PROJ NO. 6CR.10091.79</b>						<b>7.45</b>		<b>622.8</b>	<b>*</b>	<b>40</b>	<b>76,000</b>	<b>1,250</b>	<b>70,200</b>	<b>630</b>	<b>1,610</b>		<b>15</b>	<b>7</b>								<b>6,400</b>	<b>70</b>	<b>520</b>	
											<b>71,450</b>		<b>2,240</b>					<b>22</b>							<b>6,400</b>	<b>590</b>			
6CR.10241.79	Columbus	4	NC87-A	FROM BLADEN CO LINE (MP 0.00) TO CHURCH RD (MP 4.75)	3	4.75	32	311.4	*		50,000		43,100		210												43,100	335	
<b>TOTAL FOR MAP NO. 4</b>						<b>4.75</b>		<b>311.4</b>	<b>*</b>		<b>50,000</b>		<b>43,100</b>		<b>210</b>												<b>43,100</b>	<b>335</b>	
6CR.10241.79	Columbus	5	NC 87-B	FROM CHURCH RD (MP 4.75) TO END 4 LANE SECT (MP5.07)	4	0.32	56	31.5	*		4,000	1,080	5,300		70	11	4	2	2							5,300	1,080	50	45
<b>TOTAL FOR MAP NO. 5</b>						<b>0.32</b>		<b>31.5</b>	<b>*</b>		<b>4,000</b>	<b>1,080</b>	<b>5,300</b>		<b>70</b>	<b>11</b>	<b>4</b>	<b>2</b>	<b>2</b>							<b>5,300</b>	<b>1,080</b>	<b>50</b>	<b>45</b>
6CR.10241.79	Columbus	6	NC 87-C	FROM END 4 LANE SECT (MP 5.07) TO US 74 (MP 7.00)	3	1.71	32	311.4	*		22,000	325	18,700	70		30	2									18,700	325	15	140
<b>TOTAL FOR MAP NO. 6</b>						<b>1.93</b>		<b>342.9</b>	<b>*</b>		<b>22,000</b>	<b>325</b>	<b>18,700</b>	<b>70</b>		<b>30</b>	<b>2</b>									<b>18,700</b>	<b>325</b>	<b>15</b>	<b>140</b>
<b>TOTAL FOR PROJ NO. 6CR.10241.79</b>						<b>7</b>		<b>685.8</b>	<b>*</b>		<b>76,000</b>	<b>1,405</b>	<b>67,100</b>	<b>70</b>	<b>210</b>	<b>100</b>	<b>13</b>	<b>4</b>	<b>2</b>	<b>2</b>						<b>67,100</b>	<b>1,405</b>	<b>65</b>	<b>520</b>
											<b>68,505</b>		<b>280</b>					<b>21</b>							<b>68,505</b>	<b>585</b>			
6CR.10781.79	Robeson	1	NC 41	FROM SR 1004 (MP 26.67) TO BLADEN CO LINE (MP 32.41)	1	5.74	4	312.32	*	40	62,000				150														
<b>TOTAL FOR MAP NO. 1</b>						<b>5.74</b>		<b>312.32</b>	<b>*</b>	<b>40</b>	<b>62,000</b>				<b>150</b>														
<b>TOTAL FOR PROJ NO. 6CR.10781.79</b>						<b>5.74</b>		<b>312.32</b>	<b>*</b>	<b>40</b>	<b>62,000</b>				<b>150</b>														
6CR.20241.79	Columbus	7	SR 1817 A	FROM NC 87 (MP 0.00) TO END C&G (MP 0.10)	5	0.1	40	31.5	*			125	1,250	100		75	4	3	2								25	15	
<b>TOTAL FOR MAP NO. 7</b>						<b>0.1</b>		<b>31.5</b>	<b>*</b>			<b>125</b>	<b>1,250</b>	<b>100</b>		<b>75</b>	<b>4</b>	<b>3</b>	<b>2</b>								<b>25</b>	<b>15</b>	
6CR.20241.79	Columbus	8	SR 1817 B	FROM END C&G (MP 0.10) TO END MAINT (MP 0.28)	6	0.18	40	31.5	*		2,000	145	2,300		60		5										15	18	
<b>TOTAL FOR MAP NO. 8</b>						<b>0.18</b>		<b>31.5</b>	<b>*</b>		<b>2,000</b>	<b>145</b>	<b>2,300</b>		<b>60</b>		<b>5</b>										<b>15</b>	<b>18</b>	
<b>TOTAL FOR PROJ NO. 6CR.20241.79</b>						<b>0.28</b>		<b>63</b>	<b>*</b>		<b>2,000</b>	<b>270</b>	<b>3,550</b>	<b>100</b>	<b>60</b>	<b>75</b>	<b>9</b>	<b>3</b>	<b>2</b>		<b>1</b>					<b>40</b>	<b>33</b>		
											<b>3,820</b>		<b>160</b>					<b>15</b>								<b>73</b>			
<b>GRAND TOTAL</b>							<b>20.47</b>		<b>1683.92</b>	<b>1</b>	<b>80</b>	<b>216,000</b>	<b>2,925</b>	<b>140,850</b>	<b>800</b>	<b>1,880</b>	<b>325</b>	<b>37</b>	<b>14</b>	<b>4</b>	<b>2</b>	<b>1</b>			<b>73,500</b>	<b>1,405</b>	<b>175</b>	<b>1,073</b>	
												<b>143,775</b>		<b>2,680</b>				<b>58</b>						<b>74,905</b>		<b>1,248</b>			



6CR.10091.79  
 6CR.10241.79  
 6CR.20241.79  
 6CR.10781.79

# SIGNING FOR RESURFACING PROJECTS



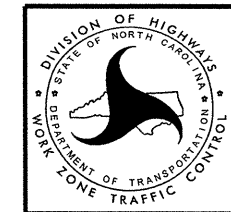
**LEGEND**  
 T STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

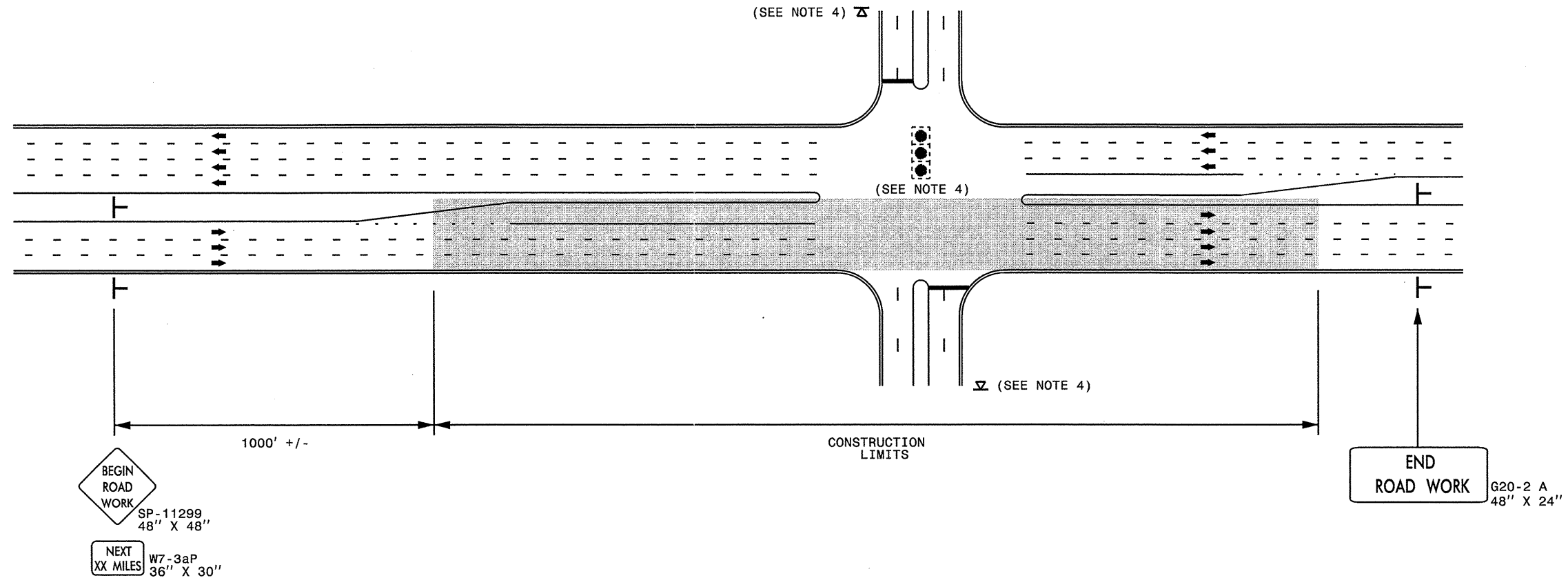
SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
		<p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>	
		<p>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

30-SEP-2013 15:32 \\DDOT\DFSROOT\TOI\GROUPS-WZTCCC\TMU\WZTC\Resurfacing\2013\Resurfacing\2013\Eastern\2013.DIV06\2013\461A-D\_6CR10091.79x4-Bladen-Columbus-Robeson\_NC-41.etc.m20.47.sg\Resurfacing\_AdvWarn\_2Ln.dgn snr:een AT TE26587



RESURFACING  
 ADVANCE WARNING SIGNS  
 FOR  
 RURAL AND SUBURBAN  
 2 LANE ROADWAYS

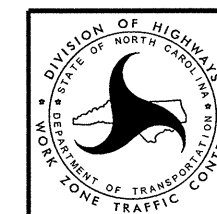
## URBAN / SUBURBAN WORKZONES



### NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AND PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND	
T	STATIONARY SIGN
➔	DIRECTION OF TRAFFIC FLOW



**RESURFACING ADVANCE  
WARNING SIGNS FOR  
URBAN / SUBURBAN  
FACILITIES**

30-SEP-2013 15:33 \\ADOT\DFS\DOT\TOI\GROUPS-WZTCCC\TMU\WZTC\Resurfacing\2013\Resurfacing\2013Eastern\2013Div06\203461A-D\_6CR.10091.79x4\_Bladen-Columbus-Robeson\_NC-41etc.m20.47.sg\Resurfacing\_AdvWarn\_Ur Sudgn snrgreen AT TE265817