

BEAUFORT & CRAVEN COUNTY

PROJECT REFERENCE NO.	SHEET NO.
DB00494	1

DB00494

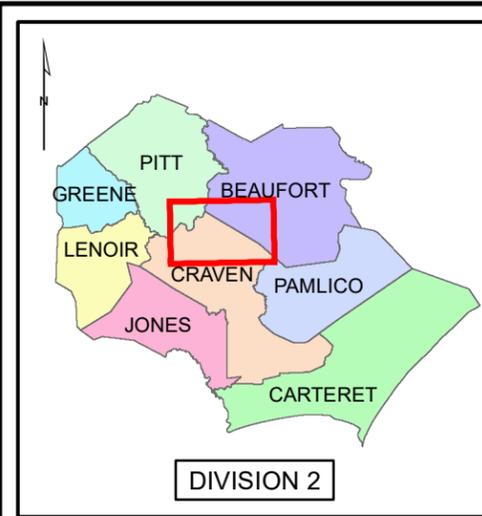
WBS# 2021CPT.02.11.10071

WBS# 2021CPT.02.12.10251

LOCATIONS:

- MAP 1: US-17 (MP 0.00 - 2.90)
- MAP 2: US-17 (MP 31.55 - 36.07)
- MAP 3: US-17 BUS SB (MP 4.07 - 4.44)
- MAP 4: US-17 BUS SB (MP 0.06 - 0.16)
- MAP 5: US-17 BUS (MP 29.91 - 30.01)
- MAP 6: RAMP 6458

- MAP 7: US-17 (MP 25.02 - 28.80)
- MAP 8: US-17 SB (MP 7.53 - 8.12)
- MAP 9: US-17 BUS (MP 25.82 - 26.13)
- MAP 10: US-17 BUS SB (MP 4.03 - 4.20)
- MAP 11: RAMP 6164
- MAP 12: RAMP 6165

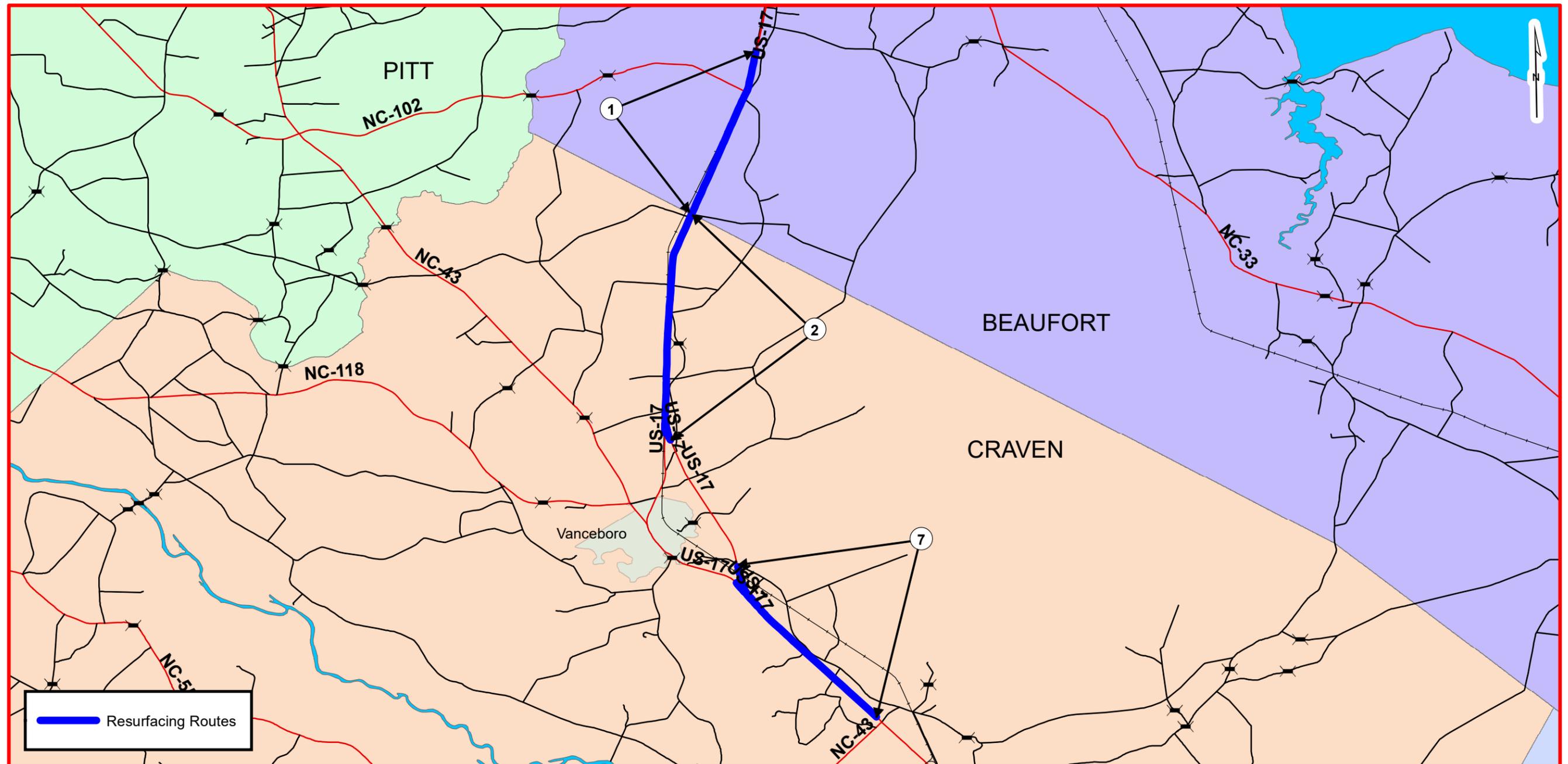


DIVISION 2



NCDOT
DIVISION 2

TYPE OF WORK: MILLING, RESURFACING



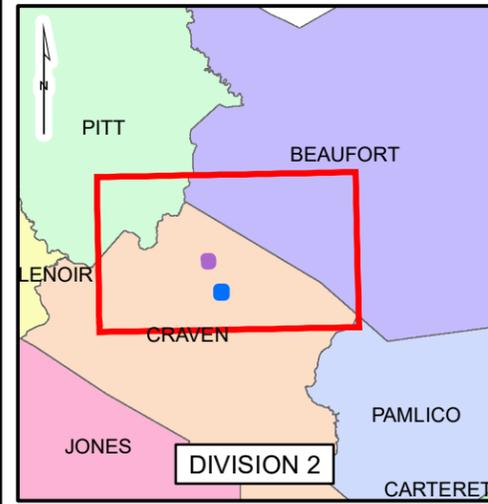
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WBS# 2021CPT.02.11.10071

WBS# 2021CPT.02.12.10251

PROJECT REFERENCE NO.	SHEET NO.
DB00494	2



LOCATIONS:

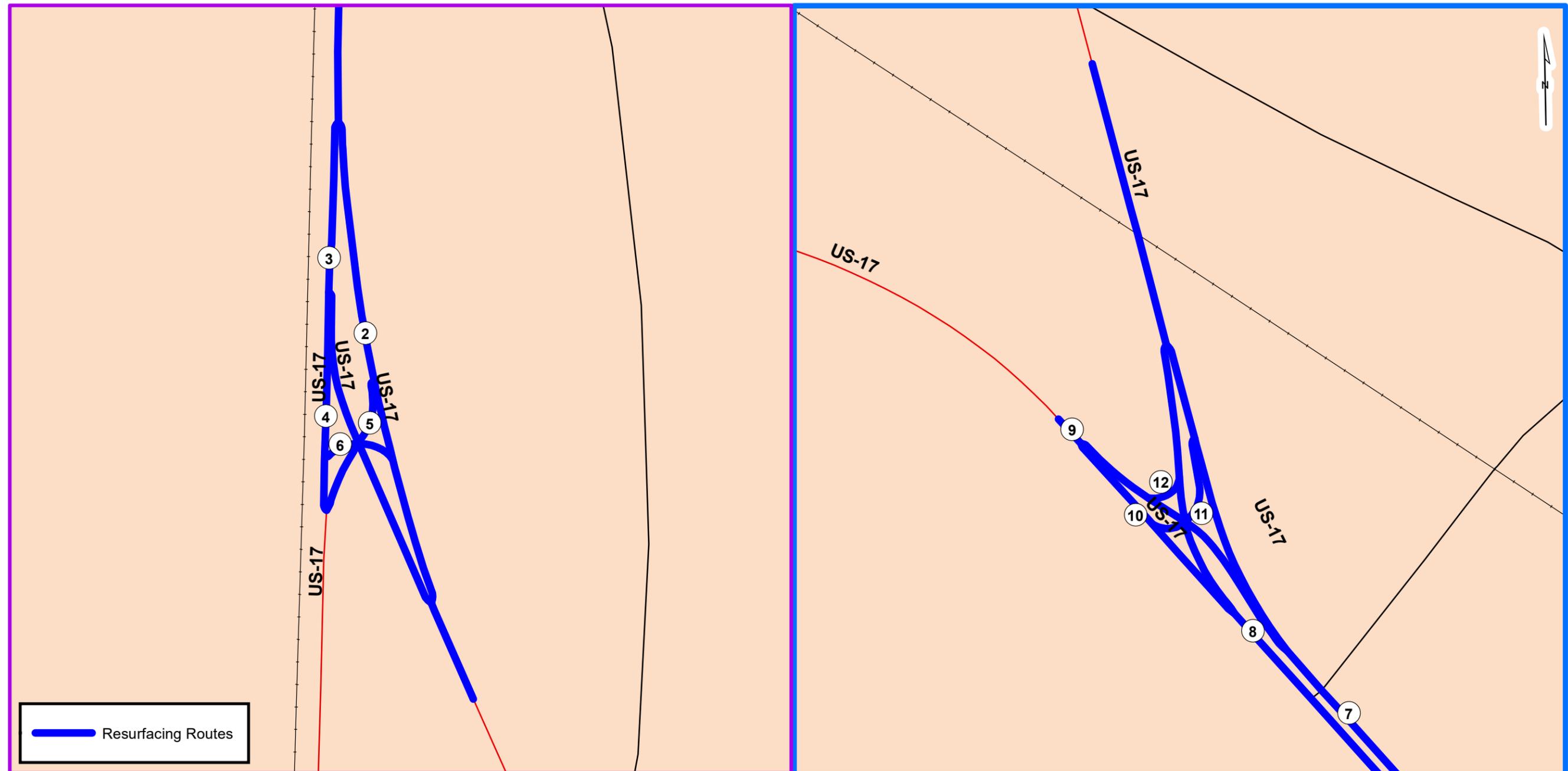
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NCDOT
DIVISION 2

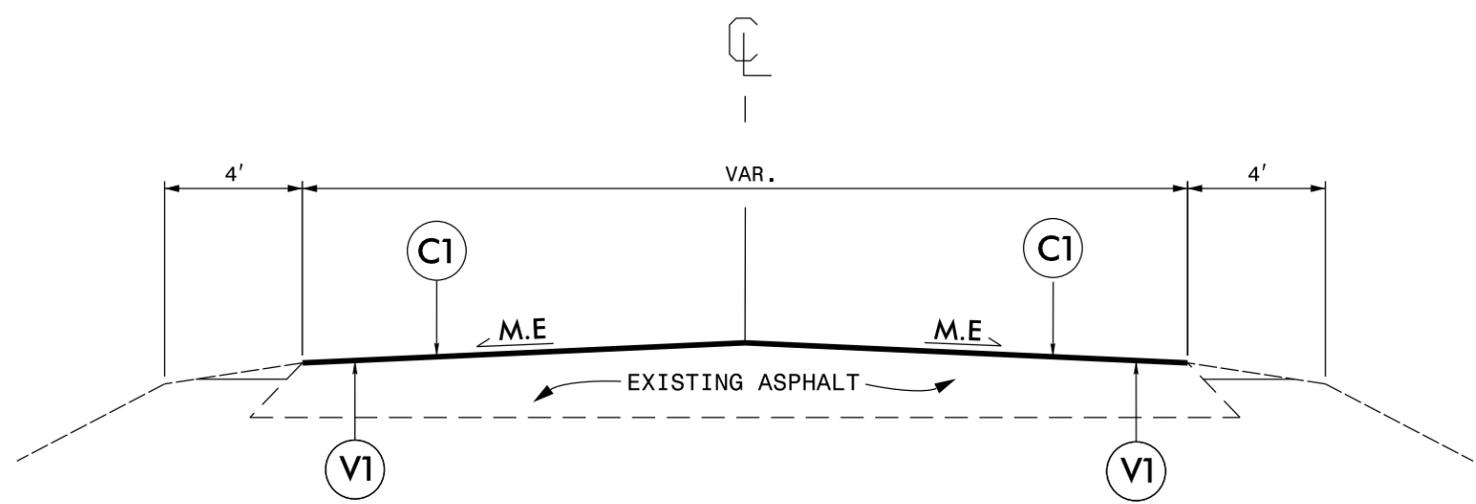
TYPE OF WORK: MILLING, RESURFACING



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING DEPTH 1 1/2" FOR THE ENTIRE WIDTH OF ROADWAY.
DRAWINGS NOT TO SCALE	

TYPICAL SECTION NO. 1

MAPS 1 - 12



- NOTE:**
1. INCLUDED 1 1/2" MILLING FOR THE ENTIRE WIDTH OF THE ROADWAY, AS DIRECTED BY THE ENGINEER.
 2. MILLING TO INCLUDE Y-LINES TO BACK OF RADII.
 3. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00494	4	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1297000000-E	1330000000-E	1523000000-E	1575000000-E	1880000000-E
												1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	JOINT REPAIR
												SY	SY	TONS	TONS	TONS
2021CPT.02.11.10071	Beaufort	1	US-17 (MP 0.00 TO 2.90)	CRAVEN COUNTY LINE TO THE US-17 FOUR LANE SECTION	1	2	2WU	NO	NO	2.90	28	47,637	1,250	4,321	259	100
TOTAL FOR MAP NO. 1												2.90	1,250	4,321	259	100
TOTAL FOR PROJ NO. 2021CPT.02.11.10071												2.90	1,250	4,321	259	100
2021CPT.02.12.10251	Craven	2	US-17 (MP 31.55 TO 36.07)	VANCEBORO BYPASS TO BEAUFORT COUNTY LINE	1	2	2WU	NO	NO	4.52	28	74,249	2,000	6,735	404	100
TOTAL FOR MAP NO. 2												4.52	2,000	6,735	404	100
2021CPT.02.12.10251	Craven	3	US-17 BUS SOUTHBOUND (MP 4.07 TO 4.44)	US-17 NORTH TO US-17 NORTH	1	1	2WD	NO	NO	0.37	22	3,098		434	26	
TOTAL FOR MAP NO. 3												0.37		434	26	
2021CPT.02.12.10251	Craven	4	US-17 BUS SOUTHBOUND (MP 0.00 TO 0.16)	US-17 BYPASS SOUTHBOUND TO MAIN STREET (US-17 BUS)	1	1	2WD	NO	NO	0.16	11	1,033		94	6	
TOTAL FOR MAP NO. 4												0.16		94	6	
2021CPT.02.12.10251	Craven	5	US-17 BUS (MP 29.91 TO 30.01)	MAIN STREET (US-17 BUS) TO US-17 BYPASS NORTH	1	1	2WD	NO	NO	0.10	16	939		85	5	
TOTAL FOR MAP NO. 5												0.10		85	5	
2021CPT.02.12.10251	Craven	6	RAMP 6458	US-17 BUS SOUTHBOUND TO US-17 BYPASS NORTH	1	1	2WD	NO	NO	0.06	18	634		58	3	
TOTAL FOR MAP NO. 6												0.06		58	3	
2021CPT.02.12.10251	Craven	7	US-17 (MP 25.02 TO 28.80)	INTERSECTION WITH NC-43 TO THE VANCEBORO BYPASS	1	2	2WU	NO	NO	3.78	28	63,078	1,500	5,632	338	250
TOTAL FOR MAP NO. 7												3.78	1,500	5,632	338	250
2021CPT.02.12.10251	Craven	8	US-17 SOUTHBOUND (MP 7.53 TO 8.12)	US-17 BYPASS NORTHBOUND TO US-17/NC-43	1	1	2WD	NO	NO	0.59	24	8,307		754	45	
TOTAL FOR MAP NO. 8												0.59		754	45	
2021CPT.02.12.10251	Craven	9	US-17 BUS (MP 25.82 TO 26.13)	MAIN STREET (US-17/NC-43) TO US-17	1	1	2WD	NO	NO	0.31	23	4,183		380	23	
TOTAL FOR MAP NO. 9												0.31		380	23	
2021CPT.02.12.10251	Craven	10	US-17 BUS SOUTHBOUND (MP 4.03 TO 4.20)	MAIN STREET (US-17 BUS/NC-43) TO US-17 SOUTHBOUND	1	1	2WD	NO	NO	0.17	11	1,097		100	6	
TOTAL FOR MAP NO. 10												0.17		100	6	
2021CPT.02.12.10251	Craven	11	RAMP 6164	US-17 SOUTHBOUND TO US-17 NORTHBOUND	1	1	2WD	NO	NO	0.06	18	634		58	3	
TOTAL FOR MAP NO. 11												0.06		58	3	
2021CPT.02.12.10251	Craven	12	RAMP 6165	US-17 SOUTHBOUND TO US-17 NORTHBOUND	1	1	2WD	NO	NO	0.03	18	317		29	2	
TOTAL FOR MAP NO. 12												0.03		29	2	
TOTAL FOR PROJ NO. 2021CPT.02.12.10251												10.15	3,500	14,359	861	350
GRAND TOTAL												13.05	4,750	18,680	1,120	450

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00494	5	

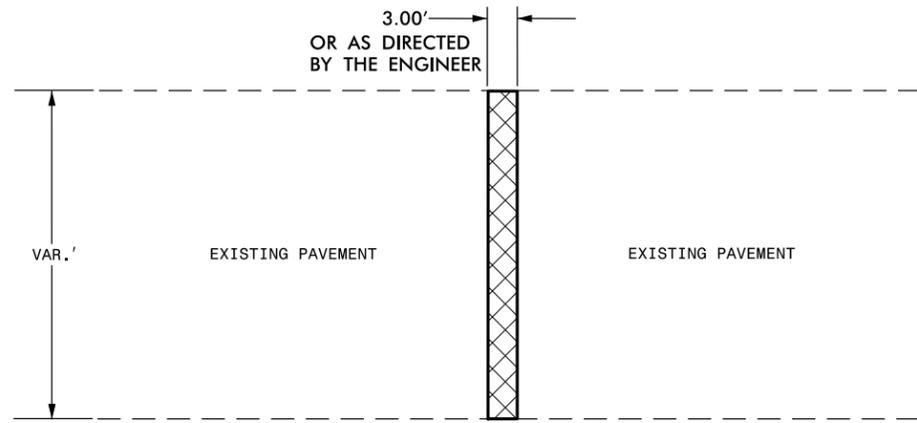
TRAFFIC CONTROL

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	441300000-E	445700000-N	
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	
									MI	FT	SF	LS
2021CPT.02.11.10071	Beaufort	1	US-17 (MP 0.00 TO 2.90)	CRAVEN COUNTY LINE TO THE US-17 FOUR LANE SECTION	1	2	2WU	2.90	28	330	0.23	
TOTAL FOR MAP NO. 1									2.90		330	0.23
TOTAL FOR PROJ NO. 2021CPT.02.11.10071									2.90		330	0.23
2021CPT.02.12.10251	Craven	2	US-17 (MP 31.55 TO 36.07)	VANCEBORO BYPASS TO BEAUFORT COUNTY LINE	1	2	2WU	4.52	28	510	0.34	
TOTAL FOR MAP NO. 2									4.52		510	0.34
2021CPT.02.12.10251	Craven	3	US-17 BUS SOUTHBOUND (MP 4.07 TO 4.44)	US-17 NORTH TO US-17 NORTH	1	1	2WD	0.37	22	50	0.03	
TOTAL FOR MAP NO. 3									0.37		50	0.03
2021CPT.02.12.10251	Craven	4	US-17 BUS SOUTHBOUND (MP 0.00 TO 0.16)	US-17 BYPASS SOUTHBOUND TO MAIN STREET (US-17 BUS)	1	1	2WD	0.16	11	20	0.01	
TOTAL FOR MAP NO. 4									0.16		20	0.01
2021CPT.02.12.10251	Craven	5	US-17 BUS (MP 29.91 TO 30.01)	MAIN STREET (US-17 BUS) TO US-17 BYPASS NORTH	1	1	2WD	0.10	16	20	0.01	
TOTAL FOR MAP NO. 5									0.10		20	0.01
2021CPT.02.12.10251	Craven	6	RAMP 6458	US-17 BUS SOUTHBOUND TO US-17 BYPASS NORTH	1	1	2WD	0.06	18	20	0.01	
TOTAL FOR MAP NO. 6									0.06		20	0.01
2021CPT.02.12.10251	Craven	7	US-17 (MP 25.02 TO 28.80)	INTERSECTION WITH NC-43 TO THE VANCEBORO BYPASS	1	2	2WU	3.78	28	430	0.28	
TOTAL FOR MAP NO. 7									3.78		430	0.28
2021CPT.02.12.10251	Craven	8	US-17 SOUTHBOUND (MP 7.53 TO 8.12)	US-17 BYPASS NORTHBOUND TO US- 17/NC-43	1	1	2WD	0.59	24	55	0.04	
TOTAL FOR MAP NO. 8									0.59		55	0.04
2021CPT.02.12.10251	Craven	9	US-17 BUS (MP 25.82 TO 26.13)	MAIN STREET (US-17/NC-43) TO US- 17	1	1	2WD	0.31	23	35	0.02	
TOTAL FOR MAP NO. 9									0.31		35	0.02
2021CPT.02.12.10251	Craven	10	US-17 BUS SOUTHBOUND (MP 4.03 TO 4.20)	MAIN STREET (US-17 BUS/NC-43) TO US-17 SOUTHBOUND	1	1	2WD	0.17	11	20	0.01	
TOTAL FOR MAP NO. 10									0.17		20	0.01
2021CPT.02.12.10251	Craven	11	RAMP 6164	US-17 SOUTHBOUND TO US-17 NORTHBOUND	1	1	2WD	0.06	18	20	0.01	
TOTAL FOR MAP NO. 11									0.06		20	0.01
2021CPT.02.12.10251	Craven	12	RAMP 6165	US-17 SOUTHBOUND TO US-17 NORTHBOUND	1	1	2WD	0.03	18	20	0.01	
TOTAL FOR MAP NO. 12									0.03		20	0.01
TOTAL FOR PROJ NO. 2021CPT.02.12.10251									10.15		1,200	1
GRAND TOTAL									13.05		1,530	1

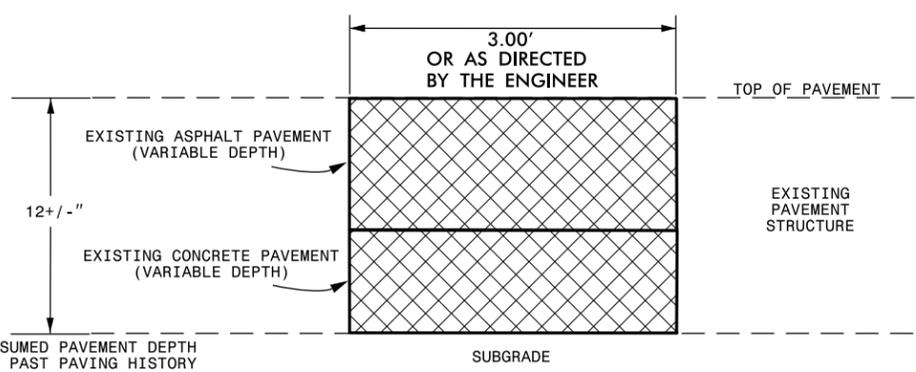
JOINT REPAIR DETAIL

JOINT SCHEDULE	
MAP	# JOINTS
1	15
2	15
7	35

CONTRACTOR SHALL COORDINATE WITH RESIDENT ENGINEER'S OFFICE FOR LOCATION OF JOINTS TO BE REPAIRED.



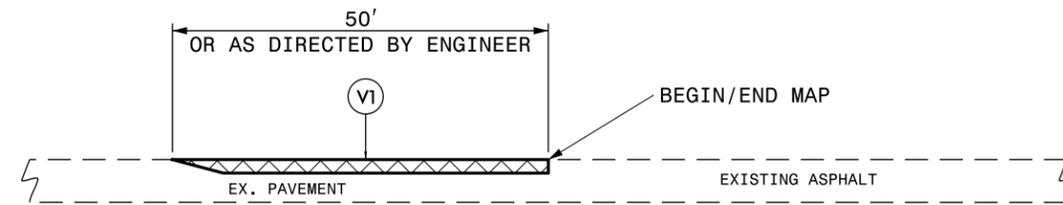
CROSS-SECTION



NOTE: ASSUMED PAVEMENT DEPTH BASED ON PAST PAVING HISTORY

NOTE:
 REMOVE ASPHALT AND CONCRETE AT JOINT LOCATIONS AS DIRECTED BY THE ENGINEER (BY SAWING CLEAN JOINTS).
 REMOVE A TOTAL WIDTH OF 3' (APPROX. 1.5' EACH SIDE OF JOINT).
 REMOVE AND REPLACE WITH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C.
 THERE WILL BE NO DIRECT PAY FOR THIS WORK AS IT WILL BE CONSIDERED INCIDENTAL TO THE LINE ITEM, JOINT REPAIR (TONS)

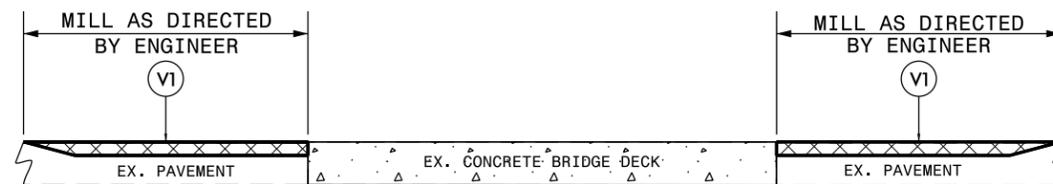
MILLING TYPICALS



DETAIL 1
BEGIN/END MAP TIE-IN

NOTE:

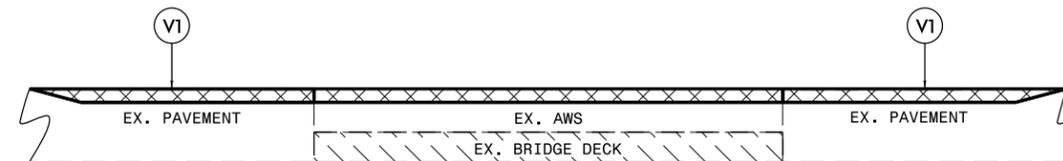
- MILLING SHALL BE PERFORMED AT MAIN LINE TIE-INS AND Y-LINE TIE-INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



DETAIL 2
BRIDGE MILLING

NOTE:

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

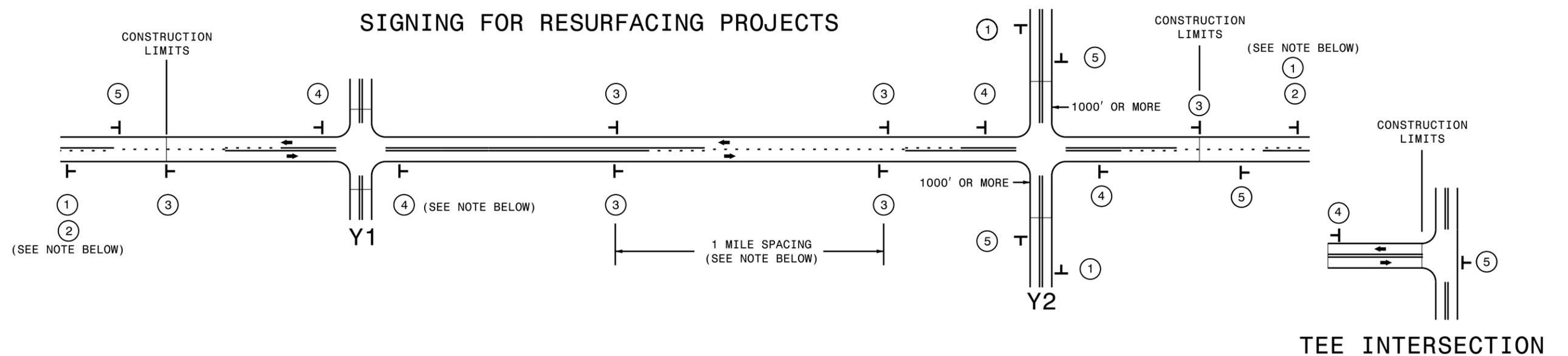


DETAIL 3
BRIDGE MILLING

NOTE:

- INCLUDES MILLING FOR THE ENTIRE WIDTH OF THE BRIDGE WEARING SURFACE, AS DIRECTED BY THE ENGINEER.

SIGNING FOR RESURFACING PROJECTS



LEGEND	
T	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	<p>W20-1 48" X 48"</p>	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <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>W20-1 48" X 48"</p> </div> <div> <p>W20-7 A 48" X 48"</p> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	<p>W7-3aP 24" X 18"</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>	
	3	<p>SP 13107 48" X 48"</p>	<ul style="list-style-type: none"> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	4	<p>SP 13106 48" X 48"</p>	<ul style="list-style-type: none"> - 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE. 	
5	<p>G20-2 A 48" X 24"</p>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>		