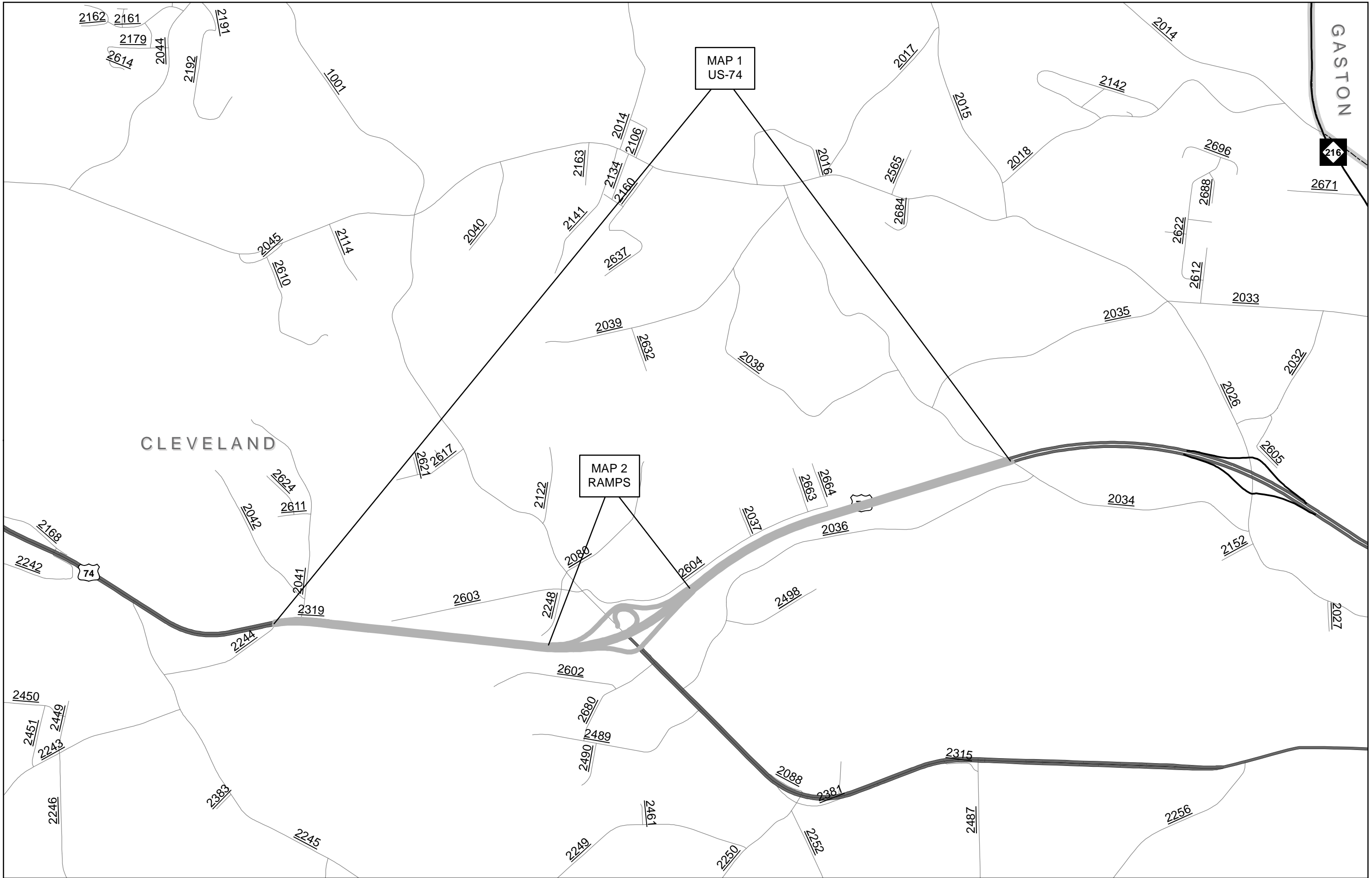


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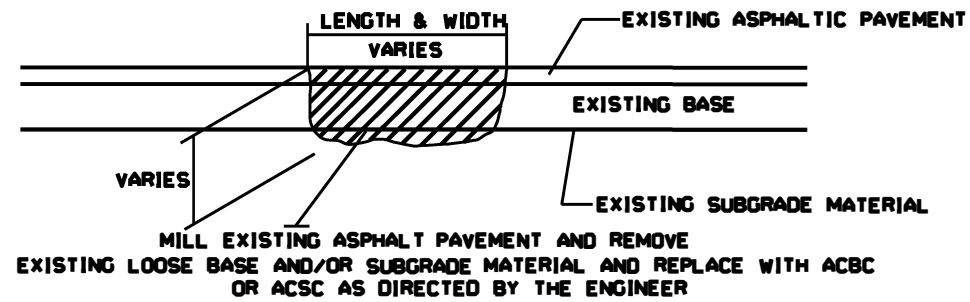
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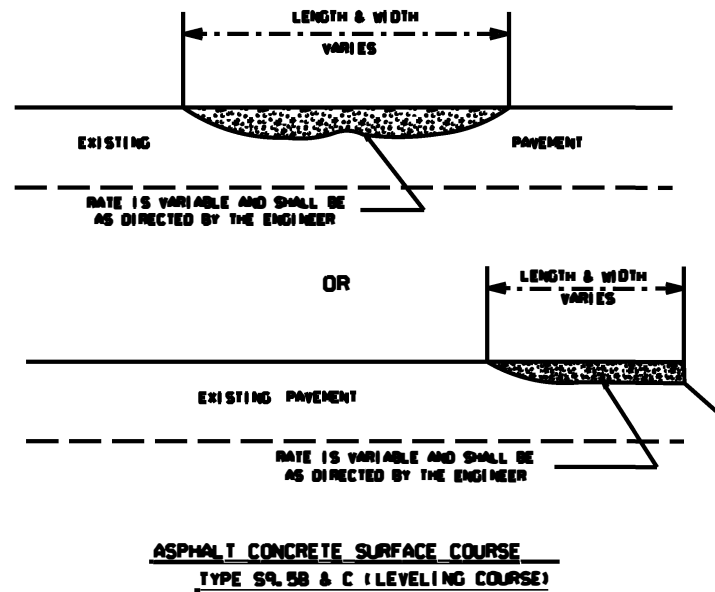


PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILL ASPHALT PAVEMENT APPROX. 1-1/2" AS DIRECTED BY ENGINEER
V2	MILLED RUMBLE STRIP EDGELINE AS DIRECTED BY ENGINEER
Y	SHOULDER RECONSTRUCTION
Z	INCIDENTAL MILLING AS DIRECTED BY THE ENGINEER.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.  
MILL BRIDGE APPROACHES & RXR APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.  
MILL INTO GUTTER LINE WHERE SHOWN AND AS DIRECTED.  
MAINTAIN PROPER CROWN FOR DRAINAGE OF THE ROAD SURFACE.

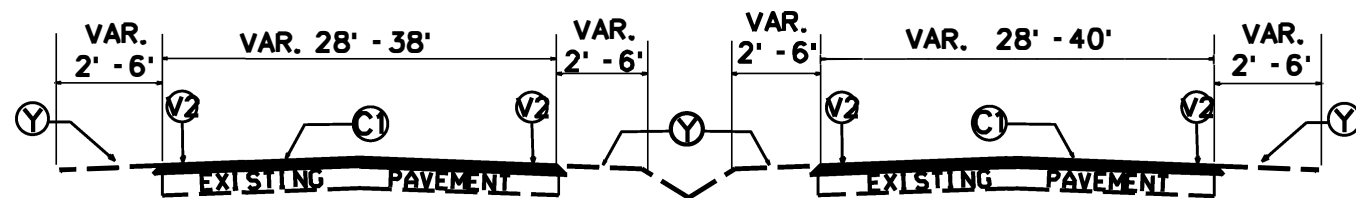
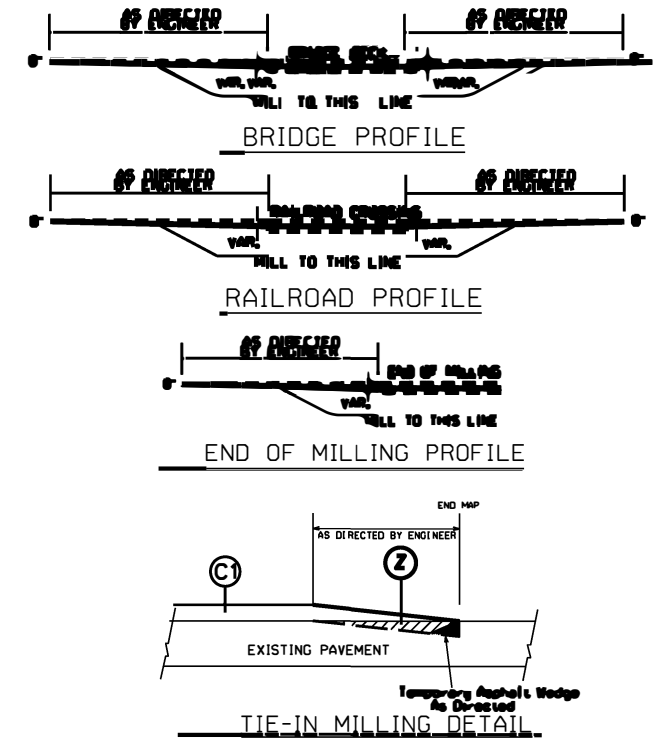


**PATCHING EXISTING PAVEMENT**

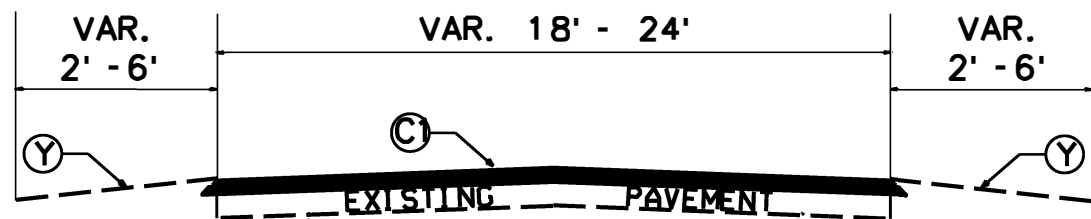


PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
CLEV COUNTY 2821 SPRING	3	7
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2022CPT.12.02.10231		

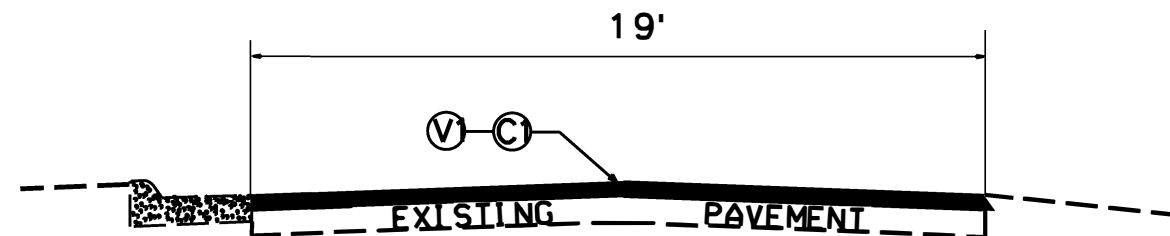
**INCIDENTAL MILLING DETAILS**



**TYPICAL SECTION NO. 1**  
(MAP 1)

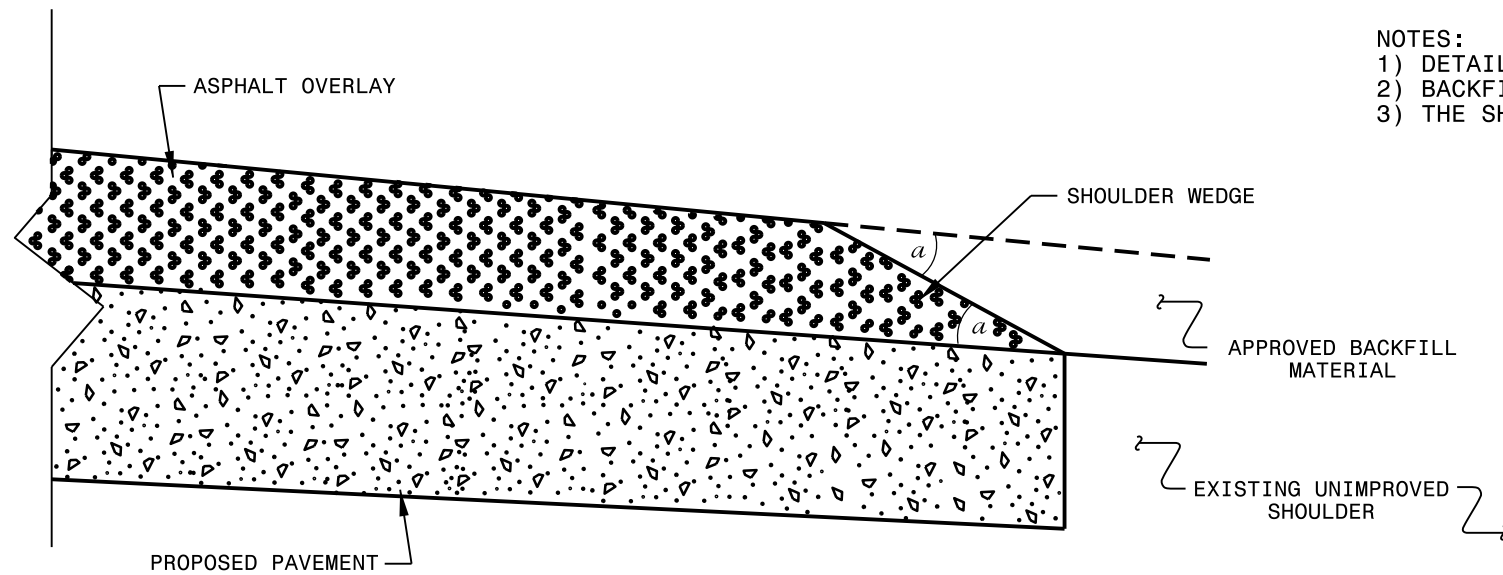


**TYPICAL SECTION NO. 2**  
(MAP 2)

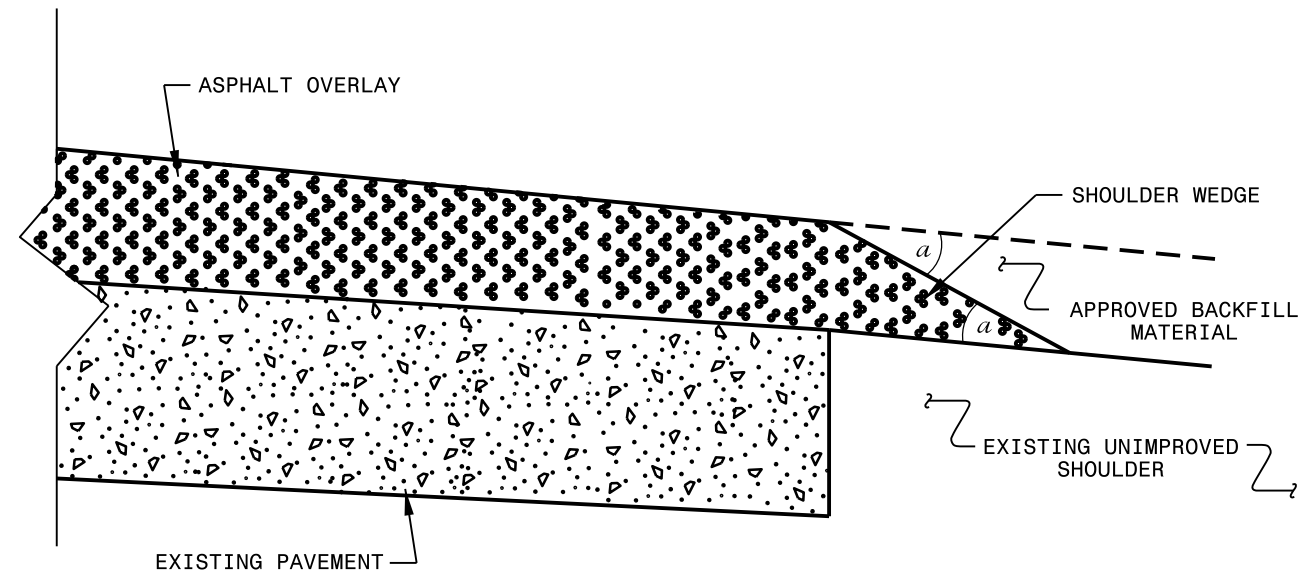


**TYPICAL SECTION NO. 3**  
(MAP 2)

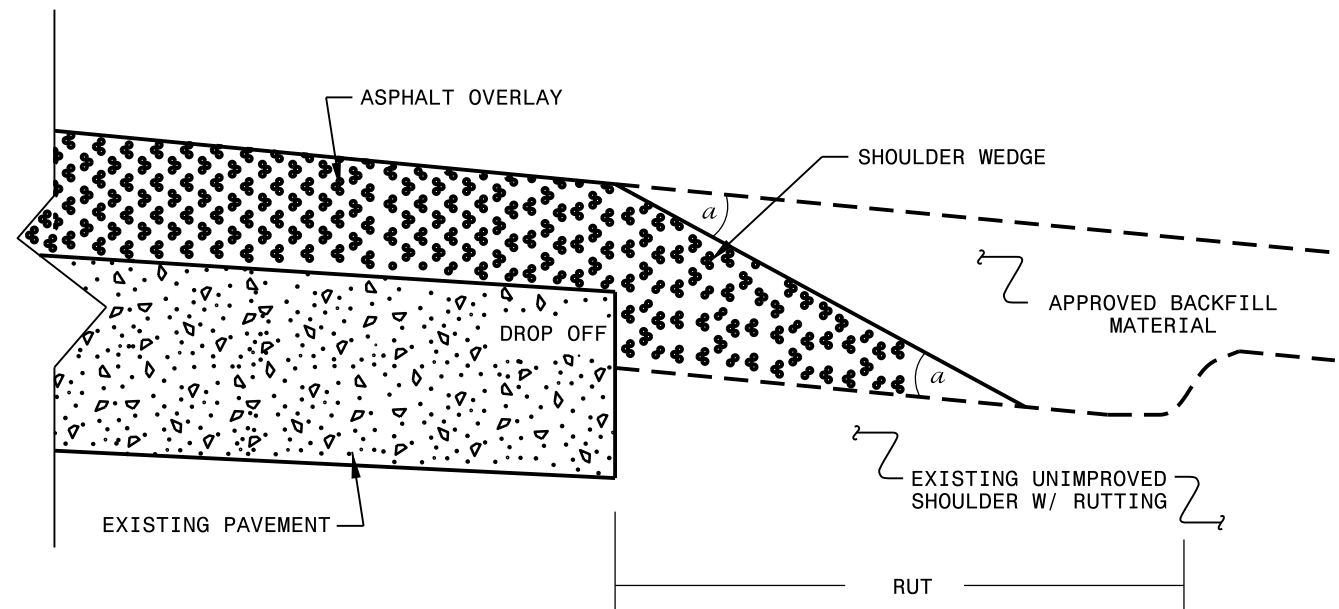
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
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.: susr/details/stand/shoulderwedgedetail.dgn	

SYSTEMS DESIGN  
USER NAME

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.12.02.10231	5	7

### SUMMARY OF QUANTITIES

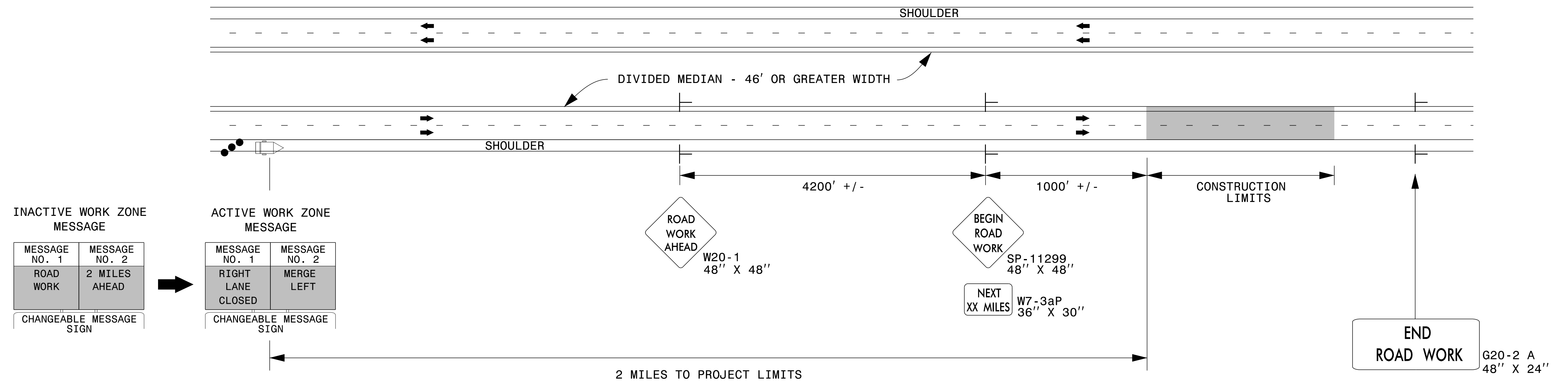
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH		WIDTH		0255000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1840000000-E	4600000000-N		5255000000-N	
										MI	FT	TON	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	EA	EA	LS		
										AGGREGATE SHOULDER BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.SC	LEVELING COURSE, S9.SC	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	MILLED RUMBLE STRIPS	SINGLE LANE CLOSURE	RAMP / LOOP CLOSURE	PORTABLE LIGHTING					
2022CPT.12.02.10231	Cleveland	1	US 74 (ANDREW JACKSON HWY.)	SR 2244 (HARMON RD.) TO SR 2034 (PATTERSON RD.)	1	4	MD	NO	NO	3.43	VAR. 56-78			2,401	340	13.72		650	10,977	550	694	3,890	72,442	10			*
2022CPT.12.02.10231	Cleveland	2	US 74 ASSOCIATED RAMPS	US 74 ASSOCIATED RAMPS	2 3	1 1		NO	NO	1.94 0.19	VAR. 18-24 19			650	405	3.88	2,336	2,000	2,208	150	142	620			5		*
<b>TOTAL FOR PROJ NO. 2022CPT.12.02.10231</b>										<b>3.43</b>		<b>3,051</b>	<b>745</b>	<b>17.60</b>	<b>2,336</b>	<b>2,650</b>	<b>13,185</b>	<b>700</b>	<b>836</b>	<b>4,510</b>	<b>72,442</b>	<b>10</b>	<b>5</b>	<b>*</b>			
<b>GRAND TOTAL</b>										<b>3.43</b>		<b>3,051</b>	<b>745</b>	<b>17.60</b>	<b>2,336</b>	<b>2,650</b>	<b>13,185</b>	<b>700</b>	<b>836</b>	<b>4,510</b>	<b>72,442</b>	<b>10</b>	<b>5</b>	<b>1</b>			

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.12.02.10231	6	7

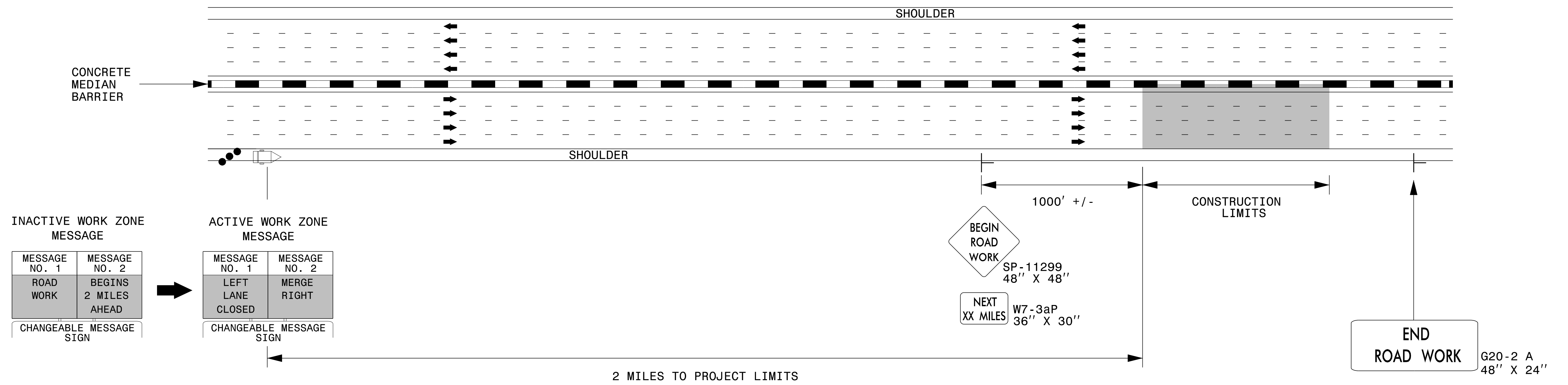
**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4400000000-E	4423000000-N	4424000000-N	4434000000-N	4510000000-N	4688000000-E	4700000000-E	4710000000-E	4725000000-E		487030000-E		481500000-E		4905000000-N	
										WORK ZONE SIGNING (STA)	WORK ZONE DIGITAL SPEED LIMIT SIGNS	WORK ZONE PRESENCE LIGHTING	SEQ. FLASHING WARING LIGHTS	LAW ENFORCEMENT	6" x 90 YELLOW THERMO	12" X 90 M WHITE THERMO	24" X 90M WHITE THERMO	THERMO RT ARROW 90 M	THERMO STRAIGHT ARROW 90 M	6" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	6" YELLOW POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	6" WHITE PAINT PAVEMENT MKGS.	6" YELLOW PAINT PAVEMENT MKGS.	SNOW PLOWABLE MARKERS	
									MI	FT	SF	EA	EA	EA	HR	LF	LF	LF	EA	EA	LF	LF	LF	EA	
2022CPT.12.02.10231	Cleveland	1	US 74 (ANDREW JACKSON HWY.)	SR 2244 (HARMON RD.) TO SR 2034 (PATTERSON RD.)	1	4	MD	3.43	VAR. 56-78	616	4	14	15	200					6	46,500	36,500	46,500	36,500	585	
2022CPT.12.02.10231	Cleveland	2	US 74 ASSOCIATED RAMPS	US 74 ASSOCIATED RAMPS	2 3	1 1		1.94 0.19	VAR. 18-24 19	148				50	200	2,340	100	2		11,250	6,500	11,250	6,500		
<b>TOTAL FOR PROJ NO. 2022CPT.12.02.10231</b>									<b>3.43</b>		<b>764</b>	<b>4</b>	<b>14</b>	<b>15</b>	<b>250</b>	<b>200</b>	<b>2,340</b>	<b>100</b>	<b>2</b>	<b>6</b>	<b>57,750</b>	<b>43,000</b>	<b>57,750</b>	<b>43,000</b>	<b>585</b>
																		<b>8</b>		<b>100,750</b>		<b>100,750</b>			

## DIVIDED MEDIANS WITH WIDTHS 46' OR GREATER



## DIVIDED MEDIANS WITH WIDTHS LESS THAN 46' OR WITH PERMANENT MEDIAN BARRIER

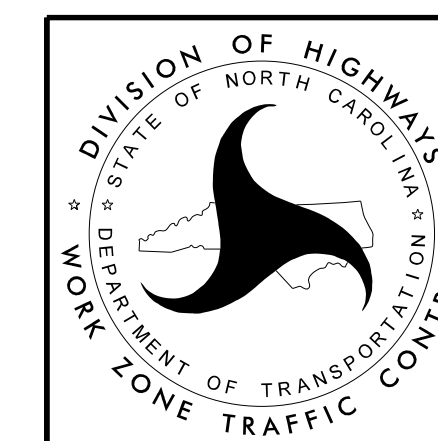


### NOTES:

- 1) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 6' AS MEASURED FROM THE EDGE OF PAVEMENT.
- 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) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMP 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMP WITHIN THE WORK ZONE.
- 6) 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 AND WITH DIVIDED MEDIANS OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

### LEGEND

- CHANGEABLE MESSAGE SIGN (CMS)
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW
- TRAFFIC DRUM



**RESURFACING ADVANCE  
WARNING SIGNS FOR  
HIGH SPEED FACILITIES  
≥ 60 MPH**