

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	1	
F.A. PRO	JECT NO.		



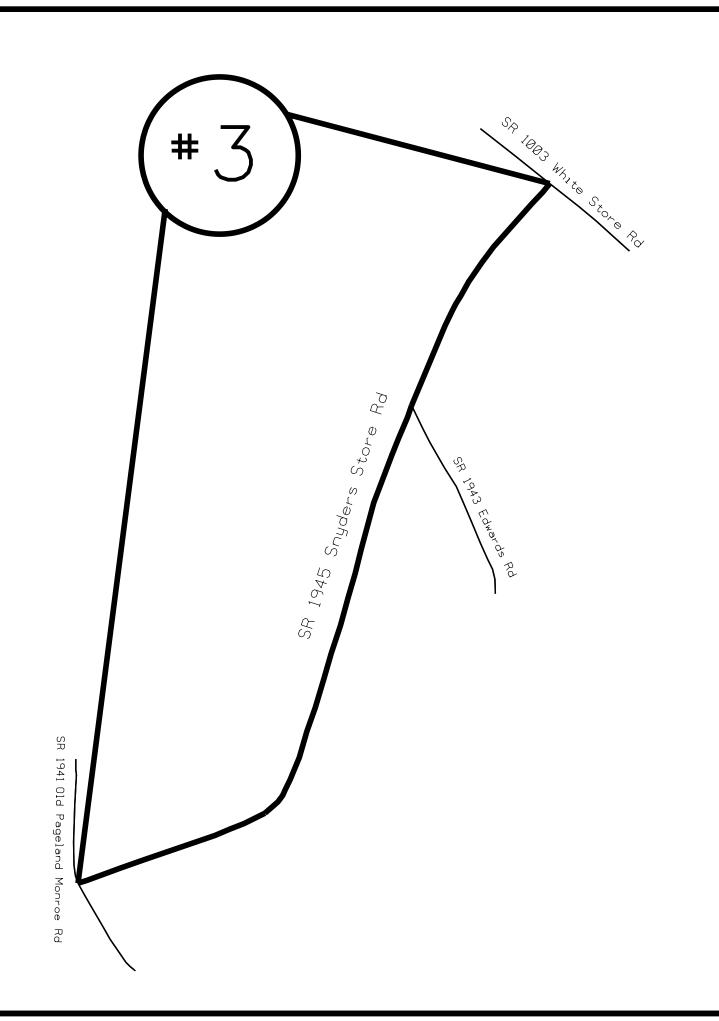
# UNION COUNTY

NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP \*1 SR 2180 W SUNSET DR 0.37 MILES FROM SR 2139 GRIFFITH RD TO NC 207

MAP \*2 SR 2181 E SUNSET DR
1.65 MILES
FROM NC 207 TO
SR 2100 E FRANKLIN ST



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	2	
F.A. PRO	JECT NO.		

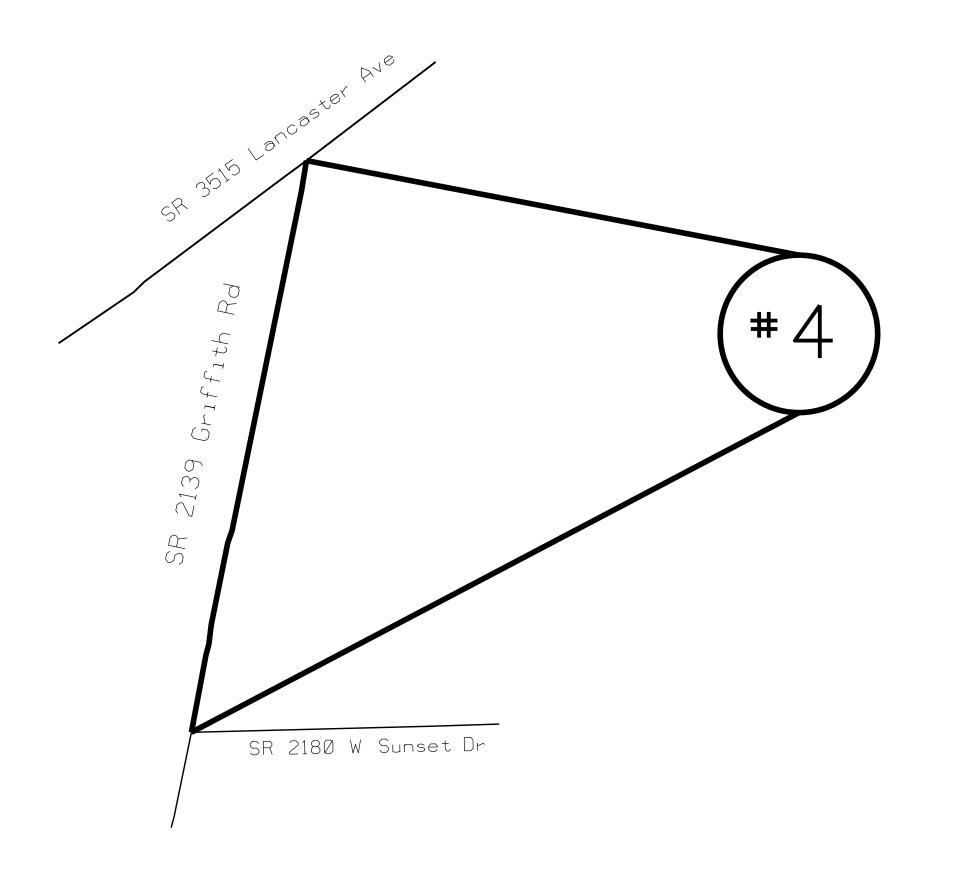


# UNION COUNTY

NORTH CAROLINA
PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP \*3 SR 1945 SNYDERS STORE RD 2.01 MILES FROM SR 1003 WHITE STORE RD TO SR 1941 OLD PAGELAND MONROE RD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	3	
F.A. PRO	JECT NO.		



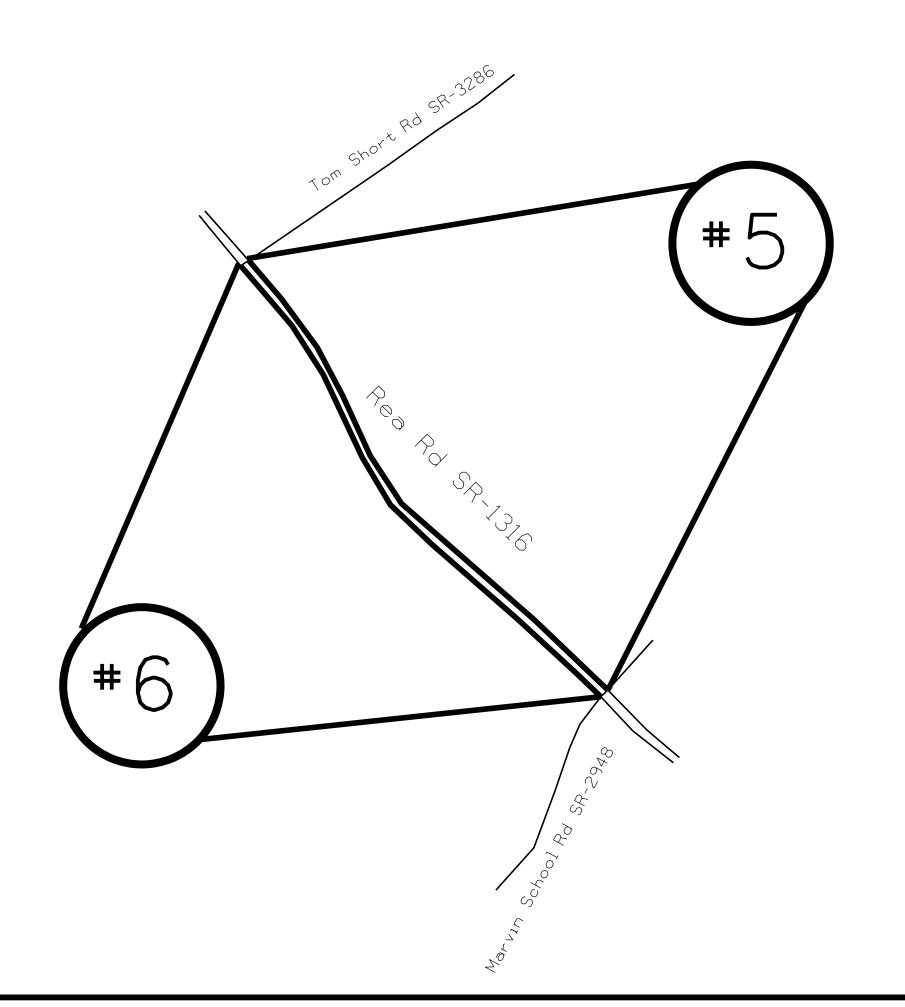
# UNION COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP \*4 SR 2139 GRIFFITH RD
0.33 MILES
FROM SR 2180 WEST SUNSET DRIVE
TO SR 3515 LANCASTER AVE



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	4	
F.A. PRO	JECT NO.		



# UNION COUNTY

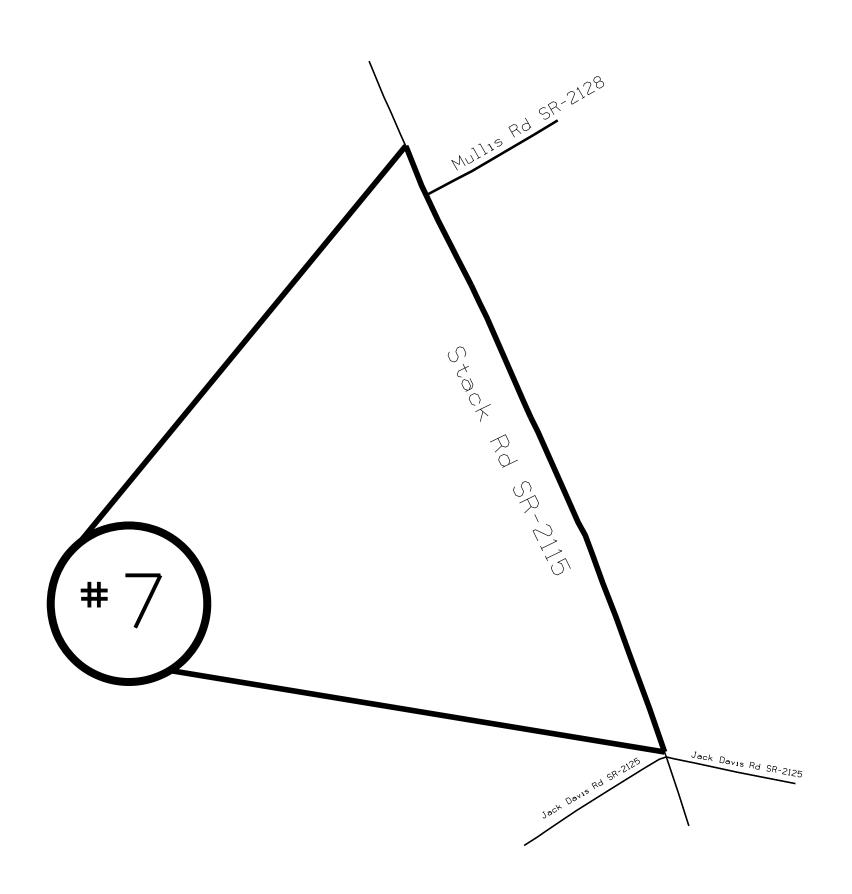
NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP \*5 SR 1316 REA RD 0.62 MILES FROM SR 2948 MARVIN SCHOOL RD TO SR 3286 TOM SHORT RD

MAP #6 SR 1316 REA RD
(SOUTHBOUND)
0.62 MILES
FROM SR 3286 TOM SHORT RD
TO SR 2948 MARVIN SCHOOL RD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	5	
F.A. PRO	JECT NO.		



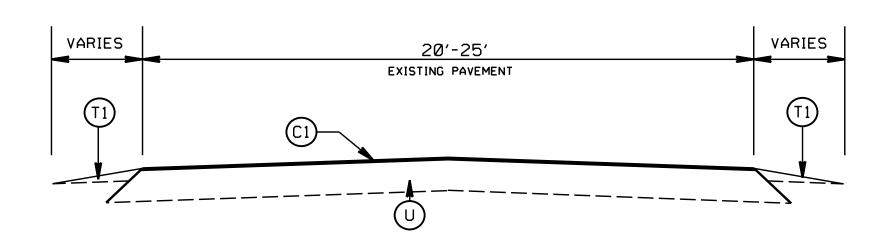
# UNION COUNTY

NORTH CAROLINA

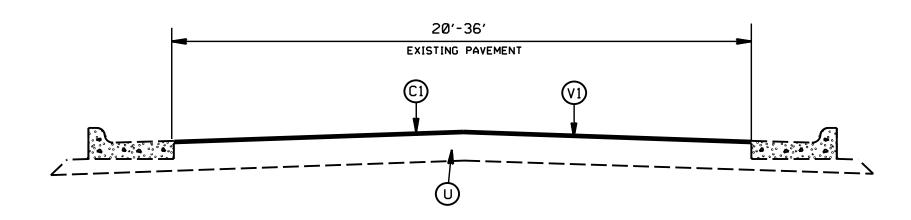
PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP \*7 SR 2115 STACK RD 1.50 MILES FROM SR 2125 JACK DAVIS RD TO SR 2128 MULLIS RD



TYPICAL SECTION NO.1 SR 2180 W. SUNSET DR. (MAP 1) SR 2181 E. SUNSET DR (MAP 2) SR 1945 SNYDER STORE RD (MAP 3)



TYPICAL SECTION NO. 2 SR 2139 GRIFFITH RD (MAP 4)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	6	
F.A. PROJECT	NO.		

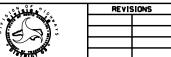
### PAVEMENT SCHEDULE

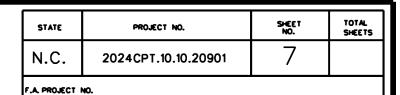
( <u>c</u> )	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SO. YD.
(2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SO. YD.
( <u>±</u> )	SHOULDER RECONSTRUCTION
(e)	EXISTING PAVEMENT
( <u>s</u> )	MILLING OF EXISTING PAVEMENT, 1.5° DEPTH.

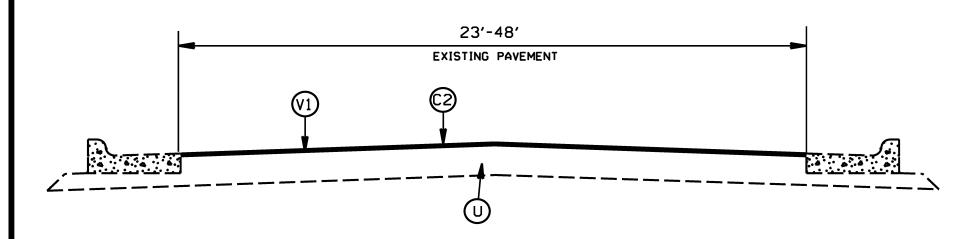
2024-2025 UNION COUNTY RESURFACING

DWG. BY AIB
DESIGN BY AIB
APPROVED CLA





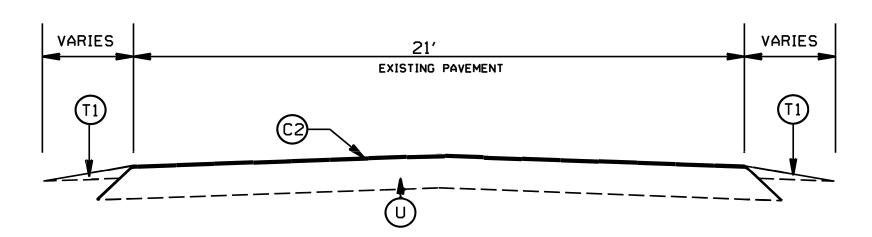




TYPICAL SECTION NO.3

SR 1316 REA RD (NORTHBOUND) (MAP 5)

SR 1316 REA RD (SOUTHBOUND) (MAP 6)



TYPICAL SECTION NO. 4 SR 2115 STACK RD (MAP 7)

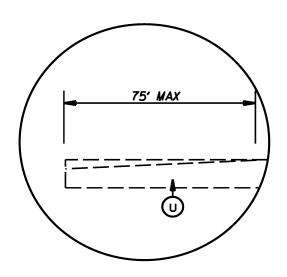
### PAVEMENT SCHEDULE

(I)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SO. YD.
(5)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SO. YD.
(1)	SHOULDER RECONSTRUCTION
(E)	EXISTING PAVEMENT
(\$)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.

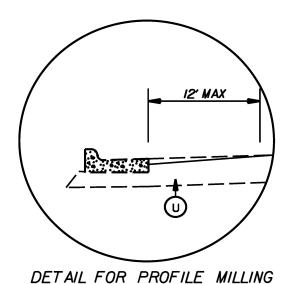
2024-2025 UNION COUNTY RESURFACING

SCALE WA
DATE 1/2
DWG. BY A/I
DESIGN BY A/E

REVISIONS



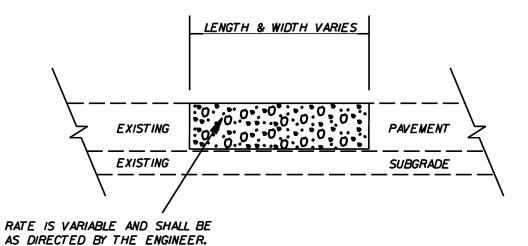
DETAIL FOR INCIDENTAL MILLING (O' TO 1.5")



THE PORT PROPERTY

ASPHALT TYPE II9.0C SHALL BE PLACED.

### PATCHING DETAIL



STATE	PROJECT NO.	SH€ET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	8	

F.A. PROJECT NO.

### PAVEMENT SCHEDULE

(1)	PROP. APPROX. 1.5° ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
(22)	PROP. APPROX. 1.5° ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SO. YD.
( <u>1</u>	SHOULDER RECONSTRUCTION
(E)	EXISTING PAVEMENT
(IA)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.

2024-2025 UNION COUNTY RESURFACING



REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2024CPT.10.10.20901	9	
F.A. PROJECT	NO.		

# NOTES:

I.DEPTH OF PATCHING WILL BE AS DIRECTED BY THE ENGINEER.

2. SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER.

5.PROFILE MILLING WILL BE AS DIRECTED BY THE ENGINEER

2024-2025 UNION COUNTY RESURFACING



REVISIONS	

### 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.

ASPHALT OVERLAY—	SHOULDER WEDGE	ASPHALT OVERLAY—	SHOULDER WEDGE
	ZAPPROVED BACKFILL MATERIAL ZEXISTING UNIMPROVED SHOULDER		ZAPPROVED BACKFILL MATERIAL ZEXISTING UNIMPROVED
PROPOSED PAVEMENT —	SHOOLDEN	EXISTING PAVEMENT	SHOULDER

### SHOULDER WEDGE DETAIL

(RESURFACING PROJECTS W/ WIDENING OR WITH EXISTING PAVED SHOILDER HAVING NO DROPOFFS)

SHOULDER WEDGE DETAIL

(RESURFACING PROJECTS W/ NO WIDENING)

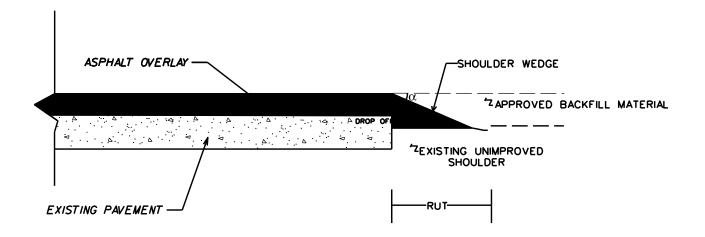
STATE

N.C.

.A. PROJECT NO.

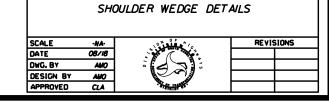
PROJECT NO.

2024CPT.10.10.20901

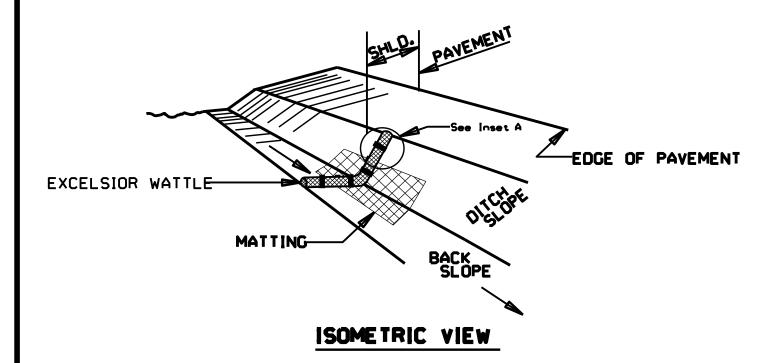


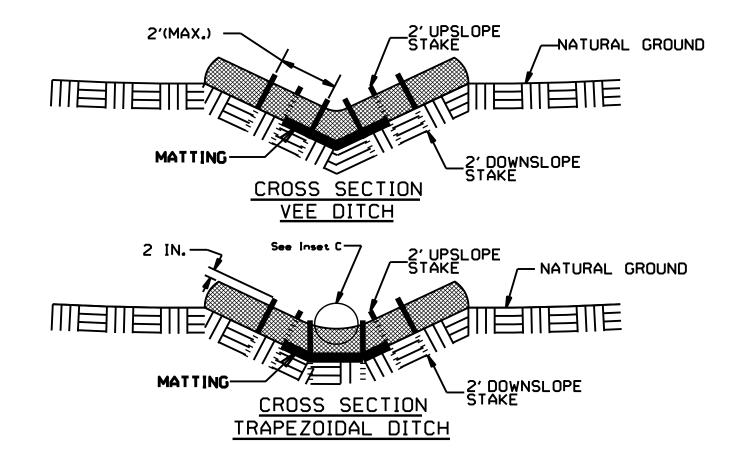
SHOULDER WEDGE DETAIL (RESURFACING ADJACENT TO RUTTED SHOULDER)





# WATTLE WITH POLYACRYLAMIDE DETAIL





NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

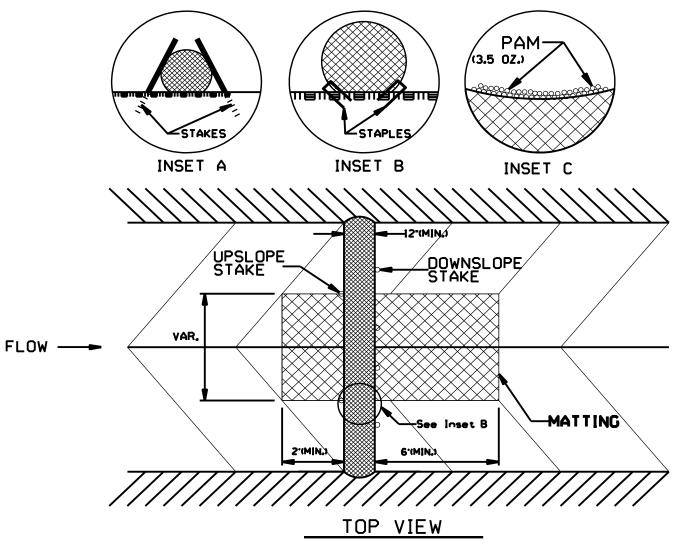
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

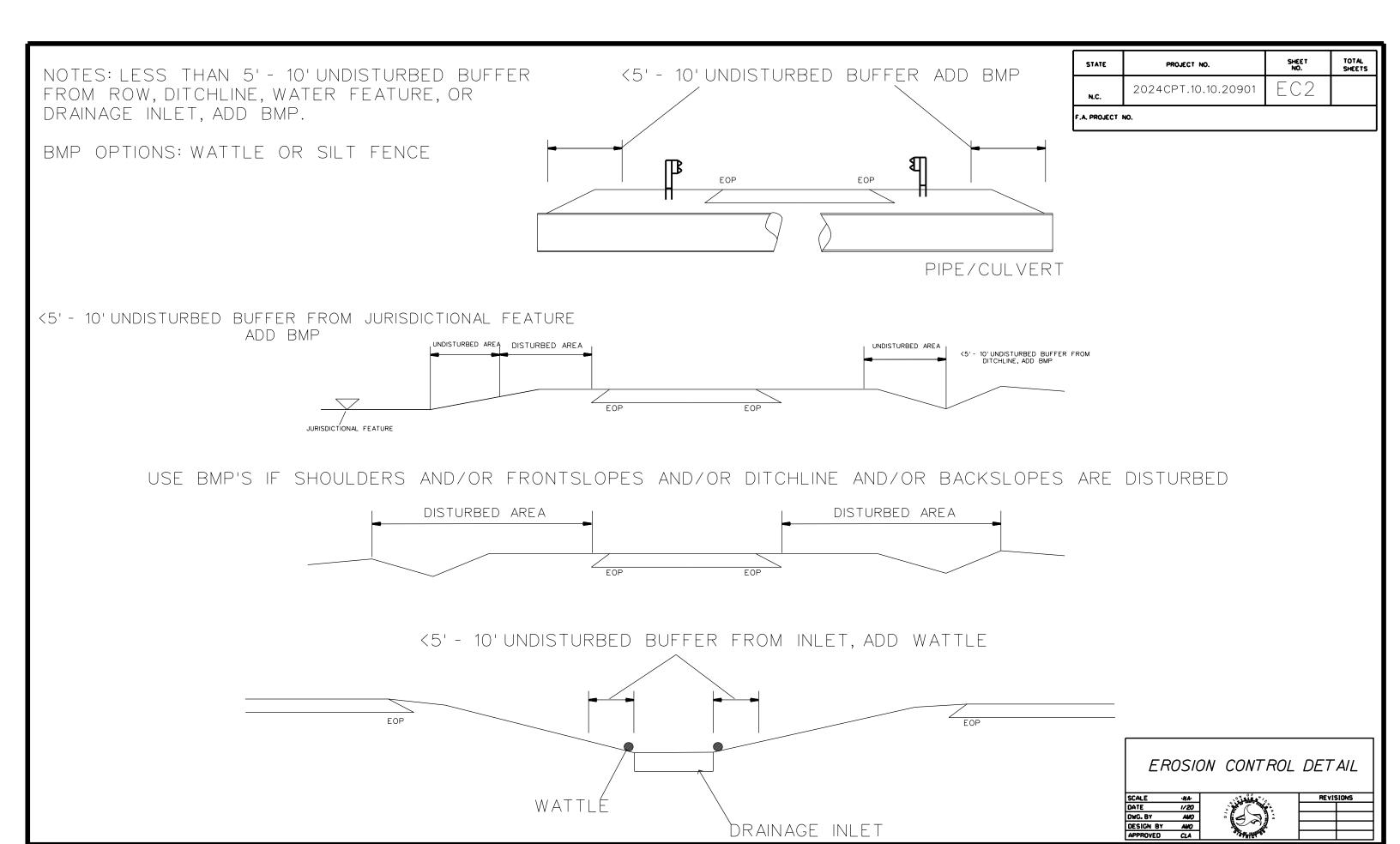
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



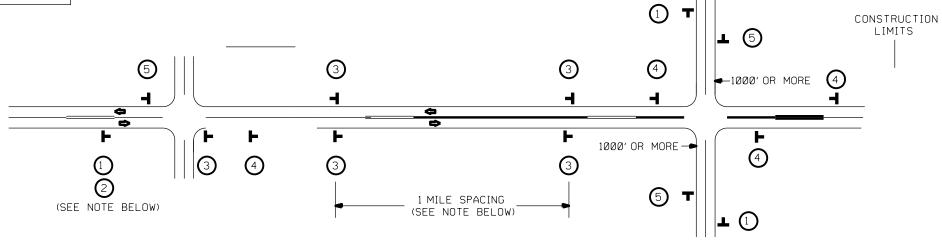


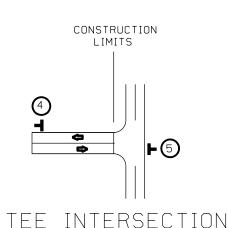
PROJ. REFERENCE NO. SHEET NO. 2024CPT.10.10.20901 TC1

### SIGNING FOR RESURFACING PROJECTS

LEGENU STATIONARY SIGN

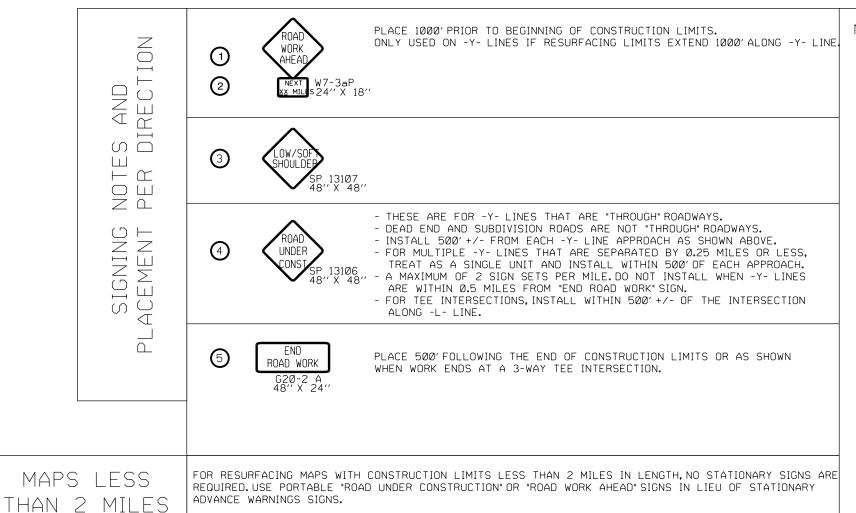
DIRECTION OF TRAFFIC FLOW





### MAINLINE (-L-) SIGNING

-Y- LINE SIGNING



NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

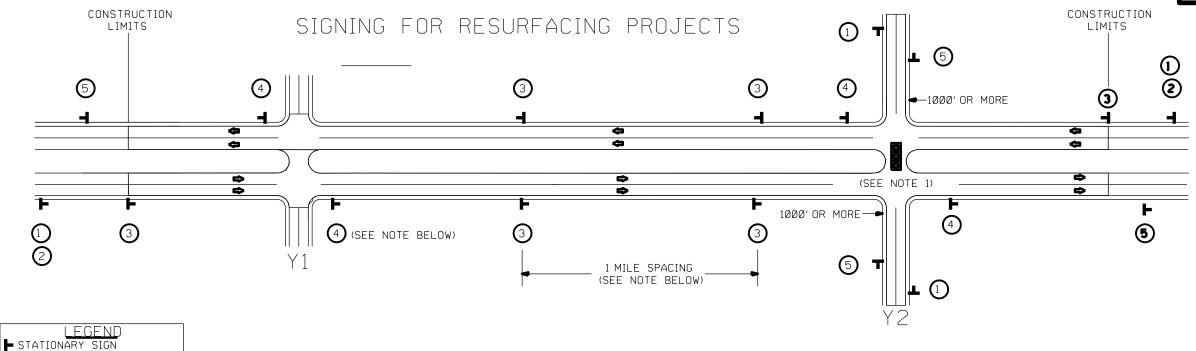
1) LESS THAN 1000'OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS





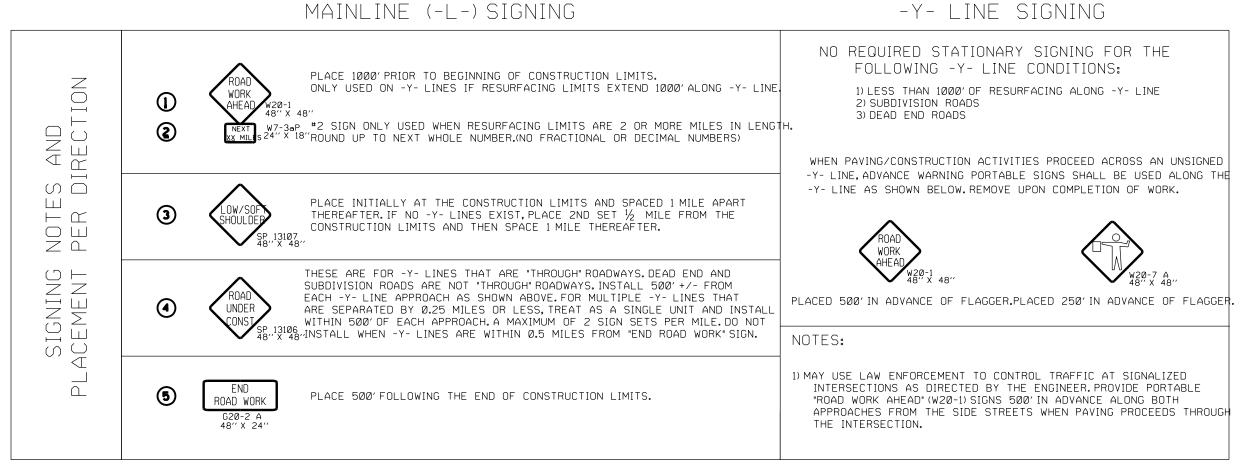


ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING



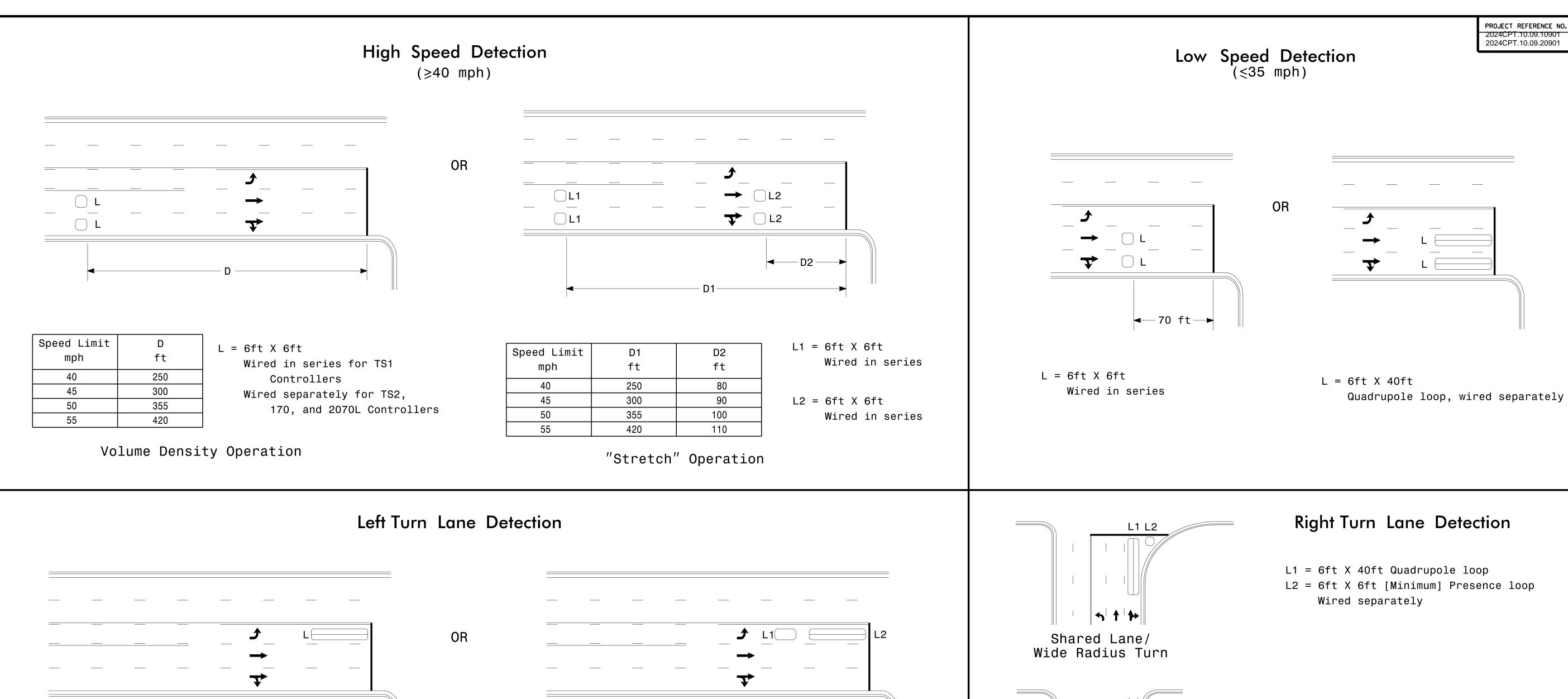
### MAINLINE (-1 -) SIGNING

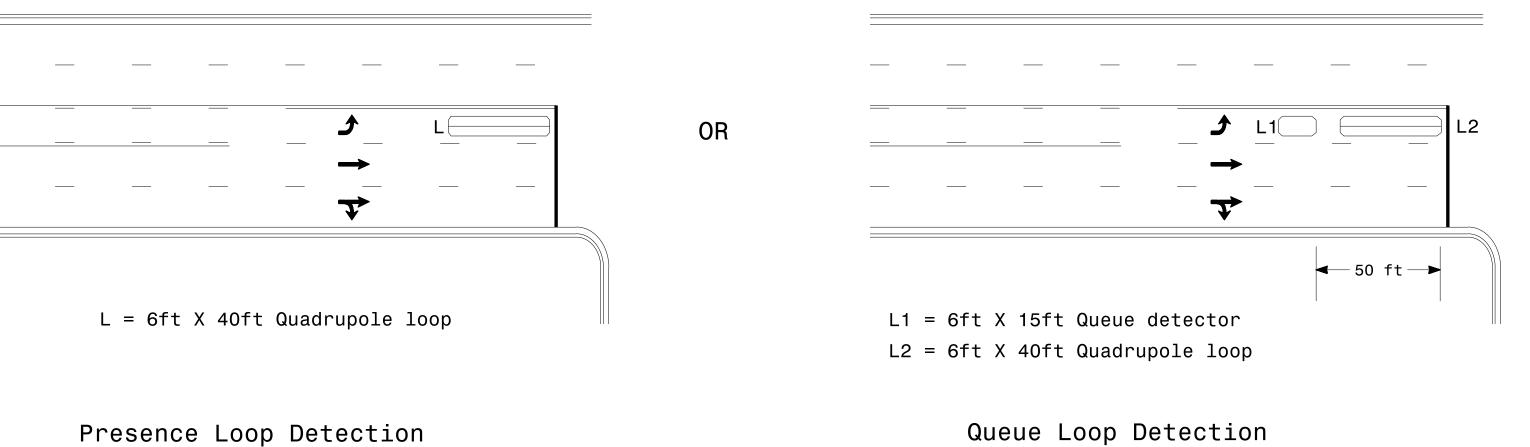
DIRECTION OF TRAFFIC FLOW

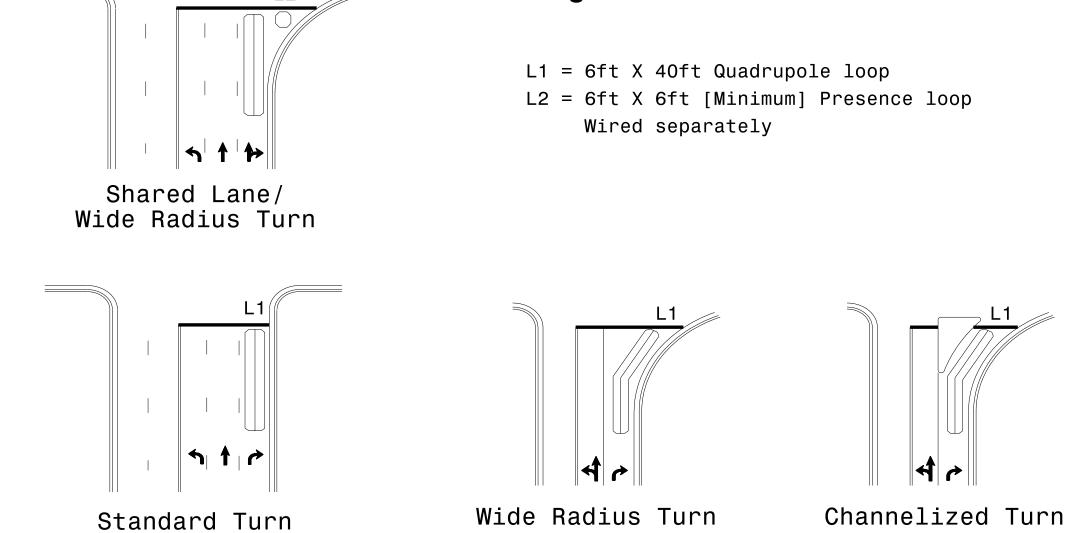


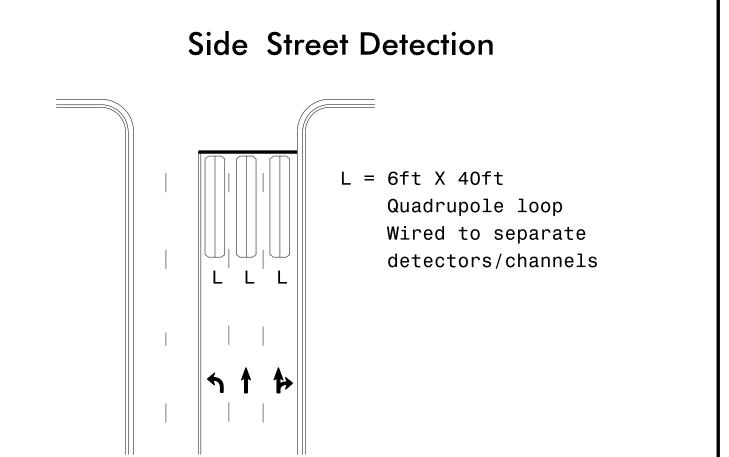


RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS

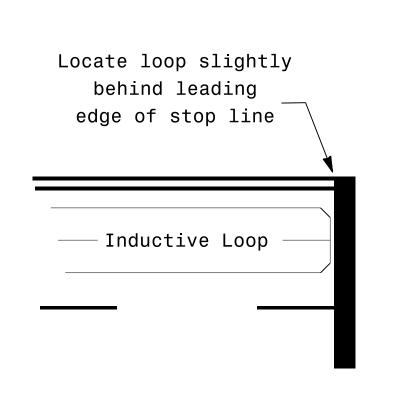












Note: Loop may be located in advance of stop line under any of the following conditions:

- 1) stop line is greater than 15' from edge of intersecting roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

# Recommended Number of Turns

SCALE

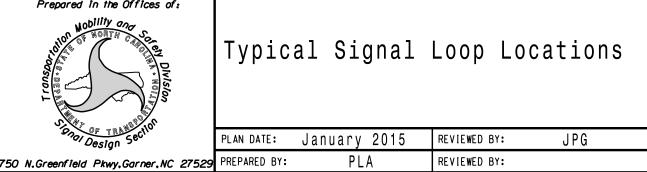
N/A

Single 6' X 6' loop (when wired separately):

ich wirca sc	paracery):
Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops: Lead-in < 150', use 2 turns Lead-in > 150', use 3 turns



REVISIONS

INIT. DATE PL Alexander

PROJECT REFERENCE NO.

2024CPT.10.09.10901 2024CPT.10.09.20901 15

PROJECT NO.		TOTAL NO.
2024CPT.10.10.20901	16	

#### SUMMARY OF QUANTITIES

									010600000		D-E 1245000000-8	1260000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1520000000-E	1523000000-E	1575000000-E	1704000000-E	2800000000-N	2830000000-N	2845000000-N	5255000000-N	6000000000-E	6009000000-E	6012000000-E	6071002000-E	6071010000-E	6084000000-E	7444000000-E
PROJECT NO	COUNTY	MAP NO ROUTE	DESCRIPTION	TYP NO	LANES LAN			LENGTH V	VIDTH BORRO			AGGREGATE	1%" MILLING	0" TO 1.5"	INCIDENTAL		LEVELING	SURFACE	ASPHALT	PATCHING	ADJ. OF CATCH		ADJ. OF METER		TEMPORARY	STONE FOR	SEDIMENT	FLOCCULANT	WATTLE	SEED &	INDUCTIVE
					TYP					STONE BA				MILLING	MILLING	COURSE, S9.5B	COURSE, S9.58	COURSE, S9.50		EXISTING	BASIN	MANHOLES	OR VALVE BOX	LIGHTING	SILT FENCE	EROSION	CONTROL	(PAM)		MULCHING	LOOP
						REQUIRED	REQUIRED	1 1			ON	BORROW							PLANT MIX	PAVEMENT						CONTROL, CLASS B	STONE			, '	
						KEQUIKEL	b	MI	FT CY	TONS	SMI	TON	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	EA	EA	EA	LS	I.E	TON	TON	LB	LF	AC	1E
		SR-2180 / W SUNSET DR	FROM SR-2139 GRIFFITH RD TO NO	+		+	-							-	-																
2024CPT.10.10.20901	Union	1 ROUTE ID 40002180090	207 MILEPOST 0.00 TO 0.37	1	2 2WU	NO NO	NO	0.37	20 54	35	0.74			575	1,024	416			37	200		3	2		56				56	0.27	10
	TOTAL FO	OR MAP NO. 1						0.37	54	35	0.74			575	1,024	416			37	200		3	2		56				56	0.27	10
																														'	
		SR-2181 / E SUNSET DR	FROM NC 207 TO SR-2100 E.				NO.																				17			, '	
2024CPT.10.10.20901	Union	2 ROUTE ID 40002181090 DR MAP NO. 2	FRANKLIN ST MILEPOST 0.00 TO 1.65	5 1	2 2WI	I NO	NO	1.65	25 242 242		3.30 3.30			916 916	1,933	2,704 2,704			224 224	1,000					248 248	33	17	1	248 248	1.20	300 300
	TOTAL FO	DK MAP NO. 2		_		+	+	1.65	242		3.50			916	1,933	2,704			224	1,000					248	33	17	1	248	1.20	300
		SR.1945 / SNYDERS STORE RD	FROM SR-1003 WHITE STORE RD TO																											'	
		ROUTE ID 40001945090	SR-1941 OLD PAGELAND MONROE RO	D																										, '	
2024CPT.10.10.20901	Union	3	MILEPOST 1.84 TO 3.85	1	2 2WI	NO.	NO	2.01	20	90	4.02	557			467	1,850	1,000		234	1,000					302	40	20	1	302	'	
	TOTAL FO	OR MAP NO. 3						2.01		90	4.02	557			467	1,850	1,000		234	1,000					302	40	20	1	302		
		SR-2139 / GRIFFITH RD ROUTE	FROM SR 2180 WEST SUNSET DRIVE																											,	
		. ID 40002139090																												'	
2024CPT.10.10.20901		OR MAP NO. 4	MILEPOST 7.34 TO 7.67	2	2 2WI	I NO	NO	0.33	36	10	0.04	2	6,970 6,970			744 744			58 58	185 185	1	3	3								
	TOTALFO		FROM SR 2948 MARVIN SCHOOL RD			_	_	0.33	_	10	0.04	- 4	6,970	_		/44	-		38	185		,	,		-	_					
		SR-1316 / REA RD	TO SR 3286 TOM SHORT RD MILEPOS																											'	
2024CPT.10.10.20901	Union	S ROUTE ID 40001316090	1.85 TO 2.47	3	2 MD	NO	NO	0.62	24				10.349					1.037	83	450				0.50						'	250
	TOTAL FO	OR MAP NO. 5						0.62					10,349					1,037	83	450				0.50							250
			FROM SR 3286 TOM SHORT RD TO SE	R																											
		SR-1316 / REA RD	2948 MARVIN SCHOOL RD																											, '	
		ROUTE ID 40401316090	(SOUTHBOUND)																											'	
2024CPT.10.10.20901		6	MILEPOST .535 TO 1.155	3	2 MD	NO	NO	0.62	24				10,123					1,016	82	450				0.50							300
	TOTALFO	OR MAP NO. 6	FROM SR- 2125 JACK DAVIS TO SR-	+		-		0.62	_	_		-	10,123	-	-	1	1	1,016	82	450	l	-	1	0.50		-			<b></b> '		300
		SR-2115 / STACK RD	2128 MULLIS RD MILEPOS	ar.																										'	
2024CPT.10.10.20901	Union	7 ROUTE ID 40002115090	5.27 TO 6.77	4	2 2WI	NO.	NO	1.5	21	65	3.00	416			400			1,788	154	1,000					225	30	15	1	225	. '	
	TOTAL FO	OR MAP NO. 7						1.5		65	3.00	416			400			1,788	154	1,000					225	30	15	1	225		
	GRA	ND TOTAL						7.1	296	200	11.10	975	27,442	1,491	3,824	5,714	1,000	3,841	872	4,285	1	6	5	1	831	103	52	3	831	1.47	860

PROJECT NO.	SHEET NO.	TOTAL NO.	
2024CPT.10.10.20901	17		

	4810000000-E ELLOW 4" WHIT AINT PAINT	4835000000-E 24" WHITE PAINT	484500 PAINT RT ARROW	00000-N PAINT LT
PROJECT NO COUNTY   MAP   ROUTE   DESCRIPTION   TYP   LANE   LENGTH   WIDTH   WORK ZONE   TRAFFIC   ENFORCEMENT   THERMO   THERMO	ELLOW 4" WHIT	24" WHITE	PAINT RT	
NO TYPE ADVANCE/GE TRAFFIC CONTROL WARRING THERMO T				PAINT LT
NERAL CONTROL THERMO THERMO THERMO THERMO PAVEMENT 90 M 90 M M M M M MARKING	AINT PAINT	PAINT	ARROW	
				ARROW
	LF LF	LF	EA	EA
SR-2180 / W SUNSET DR FROM SR-2139 GRIFFITH RD TO NC				
2024CPT.10.10.20901 Union 1 ROUTE ID 40002180090 207 MILEPOST 0.00 TO 0.37 1 2 2WU 0.37 20 42 0.10 3,907 3,532 40 2				
TOTAL FOR MAP NO. 1 0.37 42 0.10 3,907 3,532 40 2				
FROM NC 207 TO SR-2100 E  SR-2181 / E SUNSET DR  FRANKLIN ST MILEPOST 0.00 TO  1.65  1 2 2WU 1.65 25 184 0.20 17,424 18,709 150 300 24 19				
TOTAL FOR MAP NO. 2 1.65 184 0.20 17.424 18.709 150 300 24 19				
SR-1945 / SNYDERS STORE   FROM SR-1003 WHITE STORE RD TO   RD ROUTE ID-40001345090   SR-1941 OLD PAGELAND MONROE   RD ROUTE ID-40001345090   S	2.452 42.452			
				<b></b>
TOTAL FOR MAP NO. 3	2,452 42,452			<b>├</b>
SR-2139 / GRIFFITH RD TO SR 3515 LANCASTER AVE 2024CPT.10.10.20901 Union 4 ROUTE ID 40002139990 MILEPOST 7.34 TO 7.67 2 2 2 WU 0.33 36 37 0.10 3,484 86 6 5 12 3,444	,484			
TOTAL FOR MAP NO. 4 0.33 37 0.10 3,484 86 6 5 12 3,48	,484			
SR-1316 / REA RD   ROUTE ID 40001316990   FROM SR 2946 MARVINI SCHOOL RD   TO SR 3286 TOM SHORT RD   MILEPOST 1.85 TO 2.47   3 2 MD 0.62 24 126 0.10 40 1,422 250 50 4 3	1,920	100	1	1
TOTAL FOR MAP NO. 5 0.62 126 0.10 40 1,422 250 50 4 3	1,920	100	1	1
FROM SR 328 FOM SHORT RD TO SR-1316 / REA RD ROUTE ID 40401316990 (SUITHEOUND) (SUITHEOUND) ROUTE ID 40401316990 (SUITHEOUND) ROUTE ID 4040131	4.000	100		
202-01 (120-20-20-01 0 ) milet 051-355 10 1235	1,920	100	1	1
SR-2115 / STACK RD ROUTE ID 40002115090 Union 7 ROUTE ID 40002115090 Page 2270 6.77 4 2 2 WU 1.5 21 168 0.20 S16.60 S16.6	1,680 31,680	100	1	1
TOTAL FOR MAP NO. 7 1.5 168 0.200 31,6				
GRAND TOTAL 7.1 908 1.000 80 24,815 25,179 150 470 526 30 10 16 30 4 77,6		200	2	2
49,994 620 56 34	155,588			4