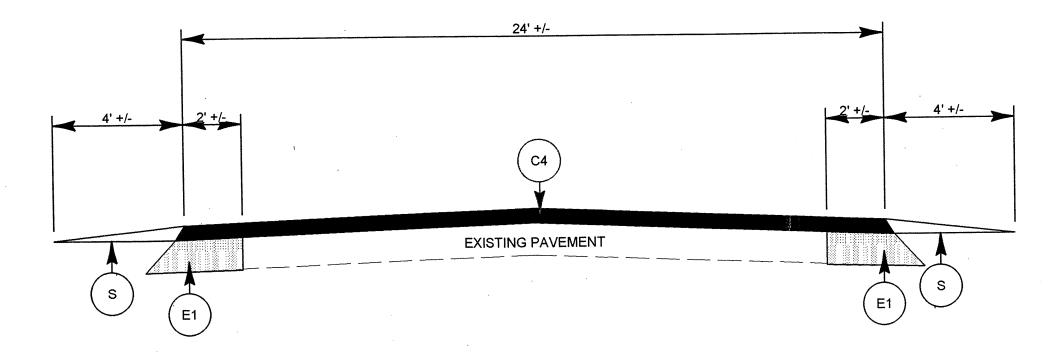
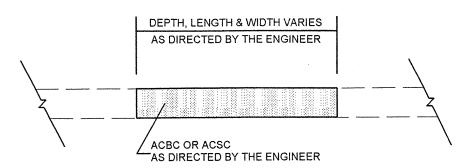


## TYPICAL SECTION NO. 1

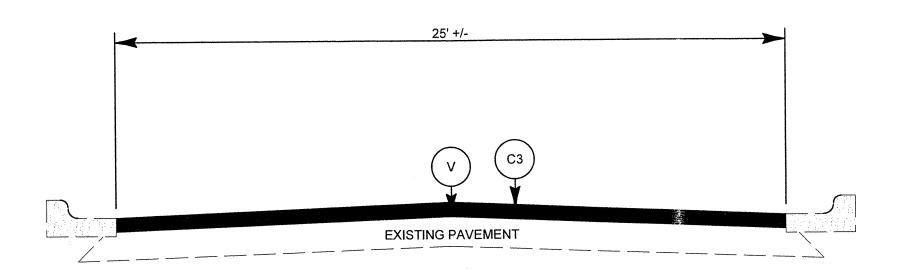


PROJECT NO.	SHEET NO.	TOTAL SHEETS
43082, 5C.093054, 5C.093055,	2	
ETO.	4	

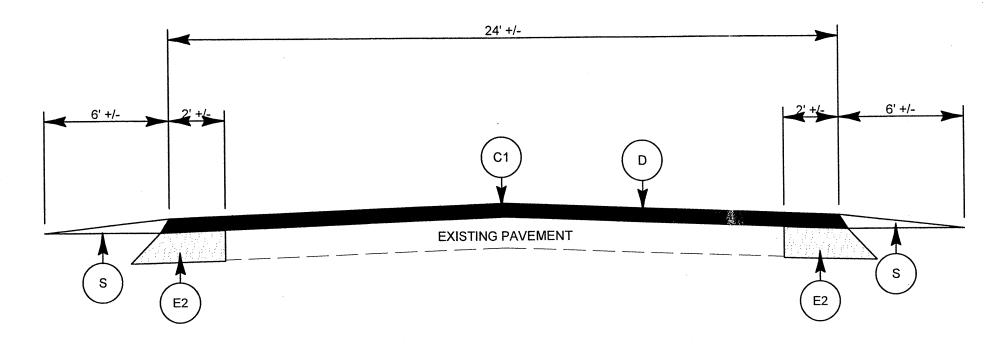


### PATCHING EXISTING PAVEMENT

	PAVEMENT SCHEDULE
C1	PROP. APPROX 1.00" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110LBS A SQUARE YARD
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE , TYPE SF9.5A, AT AN AVERAGE RATE OF 138LBS PER SQUARE YARD
С3	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS PER SQUARE YARD
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD
D	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 119.0B, AT AN AVERAGE RATE OF 285 LBS PER SQUARE YARD
E1	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE WIDENING, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS PER SQUARE YARD IN EACH OF TWO LAYERS
E2	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS PER SQUARE YARD
s	SHOULDER RECONSTRUCTION/ SEEDING AND MULCHING BY CONTRACTOR AS DIRECTED BY THE ENGINEER
V	PROP. 1.5" MILLING ASPHALT PAVEMENT



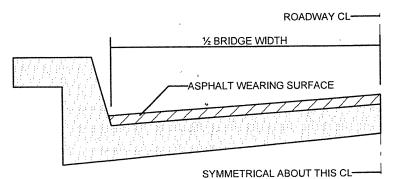
### TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 4

	PROJECT NO.	SHEET NO.	TOTAL SHEETS
	43082, 5C.093054, 5C.093055, FTC	2	
1	LIO.		

	PAVEMENT SCHEDULE
C1	PROP. APPROX 1.00" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110LBS A SQUARE YARD
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE , TYPE SF9.5A, AT AN AVERAGE RATE OF 138LBS PER SQUARE YARD
СЗ	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS PER SQUARE YARD
D	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 119.0B, AT AN AVERAGE RATE OF 285 LBS PER SQUARE YARD
E1	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE WIDENING, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS PER SQUARE YARD IN EACH OF TWO LAYERS
E2	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS PER SQUARE YARD
S	SHOULDER RECONSTRUCTION/ SEEDING AND MULCHING BY CONTRACTOR AS DIRECTED BY THE ENGINEER
LV	PROP. 1.5" MILLING ASPHALT PAVEMENT



BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: \$4.75A ½", \$F9.5A 1.0", \$9.5X 1.5", \$12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A ½", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C ½". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: \$4.75A 1.0", \$F9.5A 1.5", \$9.5X 2.0", \$12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A ½", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C ½".

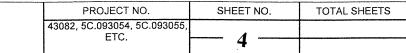
NOTES

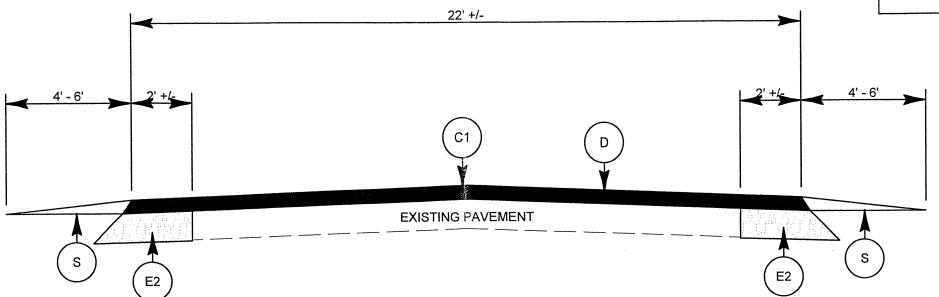
ALL UNPAVED ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.

ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER. ENGINEER. EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF

QUANTITIES.

SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED. BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.





### TYPICAL SECTION NO. 5

	PAVEMENT SCHEDULE
C1	PROP. APPROX 1.00" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110LBS A SQUARE YARD
C2	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE , TYPE SF9.5A, AT AN AVERAGE RATE OF 138LBS PER SQUARE YARD
C3	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS PER SQUARE YARD
D	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS PER SQUARE YARD
E1	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE WIDENING, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS PER SQUARE YARD IN EACH OF TWO LAYERS
E2	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS PER SQUARE YARD
s	SHOULDER RECONSTRUCTION/ SEEDING AND MULCHING BY CONTRACTOR AS DIRECTED BY THE ENGINEER
<u></u>	PROP. 1.5" MILLING ASPHALT PAVEMENT

PROJECT NO.	SHEET NO.	TOTAL NO.
43082, 5C.093054	5	
5C.093055, ETC.	, , , , , , , , , , , , , , , , , , ,	

## SUMMARY OF QUANTITIES

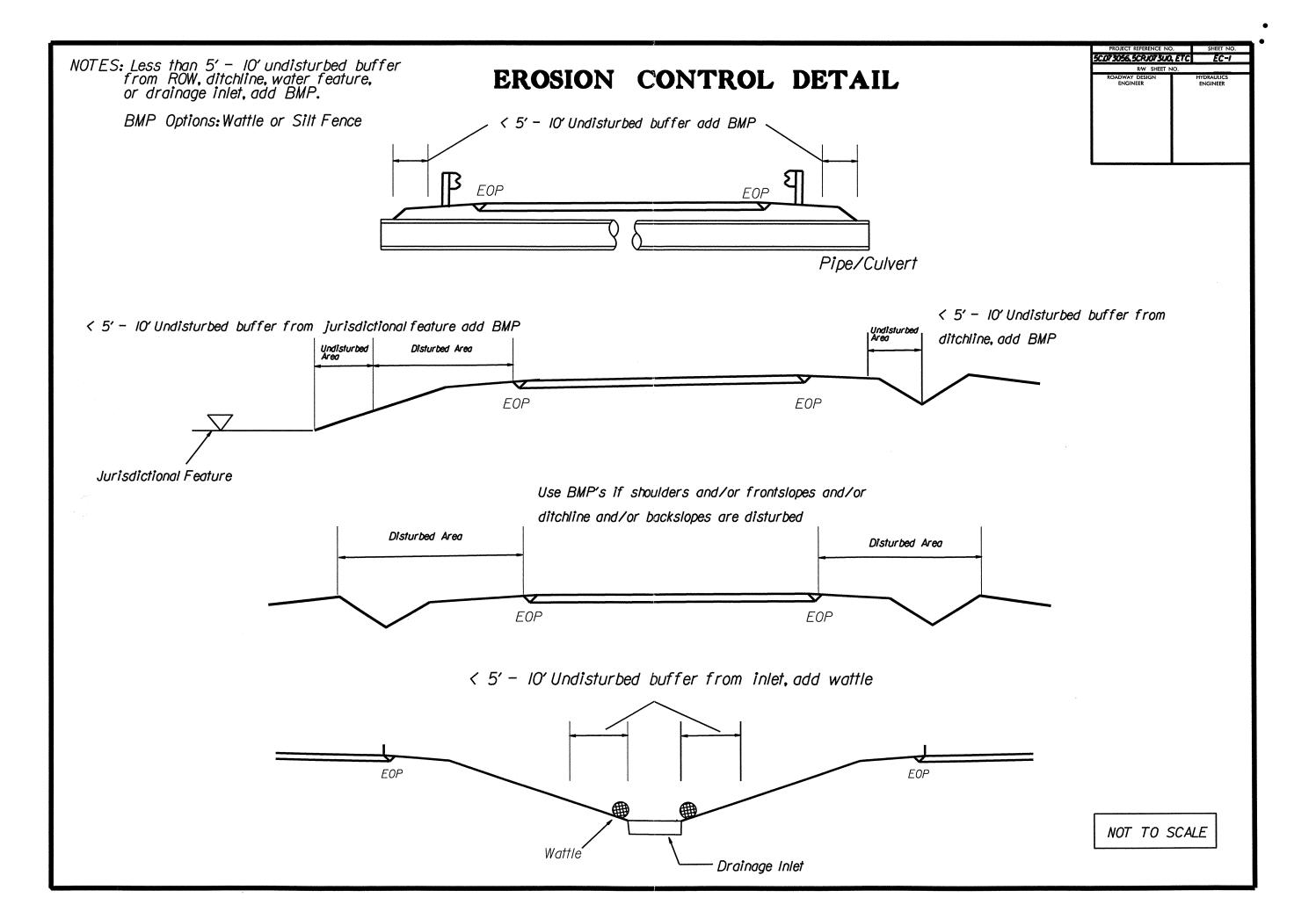
							3 U		K I	UF	QU/	-7 1A 1 1										г Т		7011	OFFD 0
					T)/D	FINAL	WARM MIX	LENGTH	WIDTH	BORROW	INCIDENTAL	SHOULDER	1½" MILLING	INCIDENTAL	BASE			SURFACE					WATTLE	POLY-	SEED 8
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	SURFACE	ASPHALT	LLINO	*****		STONE BASE			MILLING	COURSE,	MEDIATE	COURSE,	COURSE,	PLANT	EXISTING		ORARY	1	ACRYLAMIDE	
	ĺ	1 1									0.0112 57102	STRUCTION		i	B25.0B	COURSE,	SF9.5A	S9.5B	MIX	PAVEMENT	EXISTING	SILT	1	(PAM)	ING
	1	1 1		1		TESTING	ALLOWED					SIKOCHON		ì		119.0B					GUARDRAIL	FENCE		. 1	1
	1			1		REQUIRED	1			i i		l i				110.05		1				1 1			1 .
]				1				MI	FT	CY	TONS	SMI	SY	SY	TONS	TONS	TON	TON	TONS	TONS	LF	LF	LF	LB	AC
NO	l	NO			NO			IVII	<u> </u>	<u> </u>	10113		······································									1 1		, 1	Í
				FROM US 158 BUS TO END CURB				0.040	25		10		616		ļ		53	1	3						
43082	Warren	11	ARMORY DRIVE IN WARRENTON	AND GUTTER	3	NO	YES	0.042	25		10		616	<del>                                     </del>			53		3						<b></b>
		TOTAL	_ FOR MAP NO. 1				<u> </u>	0.042	ļ	<del> </del>	10		616			<b>-</b>	53		3						1
	TO	OTAL F	OR PROJ NO. 43082			1	<u> </u>	0.042	L	L	10	L	010	J.,	L		L	<b></b>						,	
							·			r		T T		T	l	T						1		'	1
	1	T		FROM SR 1001 (MARTIN LUTHER						40	24	1 200			950	1.894	734		178	30					1.40
5C.093054	Warren	12	SR 1100 (COOL SPRINGS SCHOOL RD.)	KING) TO SR 1125 (TOWER RD.)	5	NO	YES	11	22	40	24	2.00			950	1.894	734		178	30	T				1.40
30.00004	1 *******		FOR MAP NO. 2					11	<u> </u>	40	24	2.00		<u> </u>	950	1,894	734	<del> </del>	178	30	1				1.40
	TOT		R PROJ NO. 5C.093054					1		40	24	2.00			1 300	1 1,034	1 734	L	1,70			_l			
ļ	101	IALIOI	11 100 110: 00:0000-1										,		<del></del>			Τ		T	T	T T			
	<b></b>			1		T						]			l	l		1	1	1	1	1 1		1	1
				FROM SR 1521 (ODELL-LITTLETON			1		ì	i				1				1	050	20	700	1,000		1	
	1	1 . 1	(	RD) TO SR 1530 (SHEARIN ROAD)	A	NO	YES	1.9	24	76	46	3.80	700*		1,750	3,922	1,476	<b></b>	356			1,000			<del> </del>
5C.093055	Warren		SR 1509 (ODELL-ARCOLA RD.)	RD) TO SK 1530 (SHEARIN ROAD)		1 10	1	1.9	<u> </u>	76	46	3.80	700*		1,750	3,922	1,476		356	20	700				<del> </del>
			L FOR MAP NO. 3					1.9	<u> </u>	76	46	3.80	700*		1,750	3,922	1,476	<u></u>	356	20	700	1,000		I	
	TOT	TAL FO	R PROJ NO. 5C.093055					1	<u> </u>	1	1	<u> </u>													T 0.00
						T 110	1 1/50	4.1	24	T	98	8.20		700	4,500			4,931	489	700		500			6.00
5CR.10931.1	Warren	4	NC 58	FROM US 158 BUS. TO NC 43	2	NO	YES	4.1	24	<del> </del>	98	8.20		700	4,500		T	4,931	489	700	1	500		<b></b>	6.00
		TOTA	L FOR MAP NO. 4								98	8.20		700	4,500			4,931	489	700		500		<u> </u>	6.00
	TOTA	AL FOR	PROJ NO. 5CR.10931.10				<u> </u>	4.1	L		1 30	0.20			1										
								·	Υ	<del></del>		T		T	1		1	T	T	1					1
	T			FROM US 1/158 TO END STATE					1		400	40.50	970*		ļ	ì	6,562	1	427	100		400	40	1	9.80
5CR.20911.1	Vance	5	SR 1319 (SATTERWHITE POINT ROAD)	MAINTENANCE	1	NO	YES	6.75	24	500	162	13.50	870* <b>870</b> *		<del> </del>		6,562	<del> </del>	427	100	·	400	40	1	9.80
OCK.20071.1	o <sub>1</sub> vanee		L FOR MAP NO. 5					6.75		500	162	13.50	870*		<del> </del>		6,562		427	100		400	40	1	9.80
<del> </del>	TOTA		PROJ NO. 5CR.20911.10					6.75	<u> </u>	500	162	13.50	870"				1 0,002		1						
	1017	12.10.1													T		Т	T	T	1	T	T	1		T
	1			FROM SR 1107						1		1			1		I	1	1	1	1		l	l	1
				(RIDGEWAY/WARRENTON RD)			1	1	1	1	1	1			1	1	4 400	1	95	3,000		100	l		2.54
500 00001 1	J	اما	SR 1110 (SNOW HILL RD)	TO SR 1118 (NO BOTTOM RD)	1	NO	YES	1.75	20	150	42	3.50		_			1,462	<del></del>		3,000	<del> </del>	100 100			2.54
5CR.20931.1	U vvarren			10 SK 1110 (NO BOTTOM RD)		1		1.75		150	42	3.50					1,462	<b>_</b>	95			450	<del> </del>	1	5.58
		TOTA	L FOR MAP NO. 6	EDOM LIS 158/401 TO LIS 1/159	1	NO	YES	4.65	22	375	112	9.30	400*				4,270		278	500		450	<b> </b>	<del></del>	5.58
	_1	1_/_	SR 1107 (RIDGEWAY / WARRENTON RD)	FROW 03 130/401 10 03 1/130		<del>  ''`</del>	+	4.65	1	375	112	9.30	400*				4,270		278	500		550	<del>                                     </del>	+	8.12
			L FOR MAP NO. 7					6.4	<del> </del>	525	154	12.80	400*		1		5,732		373	3,500		1 000	<u> </u>		
	TOTA	AL FOR	PROJ NO. 5CR.20931.10		L			1 0.7			<u> </u>											1 0 455	1 40	T 4	25.32
							T	20.192	1	1,141	494	40.30	2,586	700	7,200	5,816	14,557	4,931	1,826	4,350	700	2,450	40		
		G	RAND TOTAL	1				20.192					*to be used on bridg												

\*to be used on bridge decks, if directed by the engineer

# THERMOPLASTIC AND PAINT QUANTITIES

			1 1 1	ERMOPLA	<u> </u>	J AN		A     1			00000-E		15000000-N	14900000000-N	4905000000-1
		I				4686000000-E	4/05000000-E	4/10000000-E	THERMO RXR			PAINT STR	PAINT RT ARROW	YELLOW &	SNOW
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	4" X 90 M	4" X 120 M				PAINT	PAINT	& LT	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	YELLOW	PLOWABLE
		1 1			WHITE	YELLOW	WHITE	WHITE	120 M	PAINT	PAINI	ARROW		MARKERS	MARKERS
	}	1 1			THERMO	THERMO	THERMO	THERMO	EA	LF	LF	EA	EA	EA	EA
NO		NO			LF	LF	LF	LF	EA	LF	L.F	LA .	<u> </u>		
				FROM US 158 BUS TO END CURB							4 000		2		Ì
43082	Warren	111	ARMORY DRIVE IN WARRENTON	AND GUTTER						500	1,000	1	2	<del> </del>	<u> </u>
-10002	11000		FOR MAP NO. 1							500	1,000	1	2		<del> </del>
										500	1,000	11		<u> </u>	
	T	OTAL FO	OR PROJ NO. 43082							1	,500	<u> </u>	3		<u> </u>
											·		Y	1	Τ
	T	Т		FROM SR 1001 (MARTIN LUTHER				1	1						i
5C.093054	Warren	2		KING) TO SR 1125 (TOWER RD.)	10,760	6,600						ļ			<del> </del>
00.000004	- ** anon		FOR MAP NO. 2		10,760	6,600						<u> </u>			<del> </del>
					10,760	6,600				L			<u> </u>		<b> </b>
	TOT	AL FOR	R PROJ NO. 5C.093054									<u> </u>			<u> </u>
														.,	
		т т				T	l					İ			1
				FROM SR 1521 (ODELL-LITTLETON		I		İ	•				l	1	
			OD 4500 (ODELL ADOOLA DD.)	RD) TO SR 1530 (SHEARIN ROAD)	20,444	12,540			1						<u> </u>
5C.093055	Warren		SR 1509 (ODELL-ARCOLA RD.)	RD) TO SK 1990 (SHEAKIN KOAD)	20,444	12,540									
		TOTAL	FOR MAP NO. 3		20,444	12,540	<b></b>	<u> </u>	1	<b></b>					
	TOT	AL FOR	R PROJ NO. 5C.093055		20,444	12,040			<del> </del>						1
					L	<u> </u>	<u> </u>	J							
	T 1.4.	<del></del>	NC 58	FROM US 158 BUS. TO NC 43	44,116	27,060	T	T T	1						271
5CR.10931.10	Warren			FROM US 156 BUS. 10 NC 45	44,116	27,060		1	1	İ					271
		TOTAL	FOR MAP NO. 4		44,116	27,060	<del> </del>	<b></b>	<del> </del>	<del> </del>					271
	TOTA	L FOR F	PROJ NO. 5CR.10931.10		44,116	21,000		<b> </b>	<del> </del>	<b></b>	<u> </u>				
					L		L	I		.1					
				T FROM HO 4450 TO FND OTATE	Γ	T	T	T	T	T	T	1		T	
	1			FROM US 1/158 TO END STATE	72,630	44,550	1	l	1			1		446	
CR.20911.10	Vance	5	SR 1319 (SATTERWHITE POINT ROAD)	MAINTENANCE		44,550	<del> </del>	<del> </del>	<del></del>	<del>                                     </del>	1			446	
		TOTAL	L FOR MAP NO. 5		72,630		ļ				1	<u> </u>		446	
	TOTA	LEORE	PROJ NO. 5CR.20911.10		72,630	44,550				<del> </del>					
			1100 1101 0011.200 11110		<u></u>		L								
					,		T	Υ	T	Т	1	T	T		
	1	1 1		FROM SR 1107			1				1			1	
				(RIDGEWAY/WARRENTON RD)			1		1		1	1			1
CR.20931.10	Warren		SR 1110 (SNOW HILL RD)	TO SR 1118 (NO BOTTOM RD)	18,830	11,550	ļ		<b>_</b>		<del> </del>	<del> </del>			T
		TOTAL	L FOR MAP NO. 6		18,830	11,550		<u> </u>		<del> </del>	<del> </del>			307	
	T T	7	SR 1107 (RIDGEWAY / WARRENTON RD)	FROM US 158/401 TO US 1/158	50,034	30,690	50	25	2		<del> </del>	<del> </del>		307	<del> </del>
			L FOR MAP NO. 7		50,034	30,690	50	25	2	<b>_</b>				307	
					68,864	42,240	50	25	2				1	307	+
	TOTA	L FOR I	PROJ NO. 5CR.20931.10				1								
												<u> </u>		753	271
					216,814	132,990	50	25	2	500	1,000	1	2	100	- 2/1
		GI	RAND TOTAL		1	1	1			1	1,500		3		

ſ		, the state of the		5CR.10931.10, ETC. 6
	MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES	CC	MINIMUM TIE IN CITY STREETS AND OMMERCIAL DRIVES BY THE ENGINEER	EXTEND LIMITS TO BACK OF SIGNAL LOOPS ON STATE MAINTAINED ROADS AS DIRECTED BY THE ENGINEER
	DETAIL OF PROJE UNSIGNALIZED			JECT LIMITS AT ED Y LINES



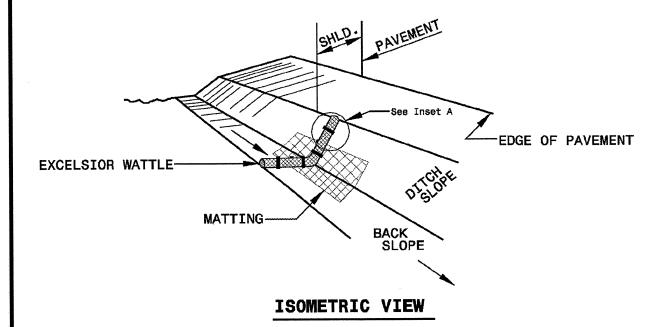
# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

-NATURAL GROUND

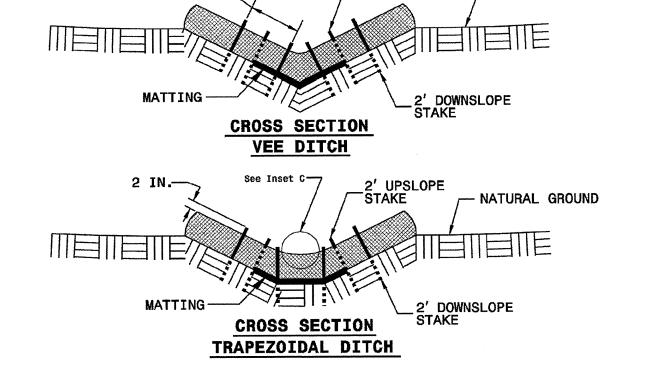
PROJECT REFERENCE NO.

RW SHEET NO.

ROADWAY DESIGN
ENGINEER
ENGINEER
ENGINEER



2'(MAX.)



2' UPSLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

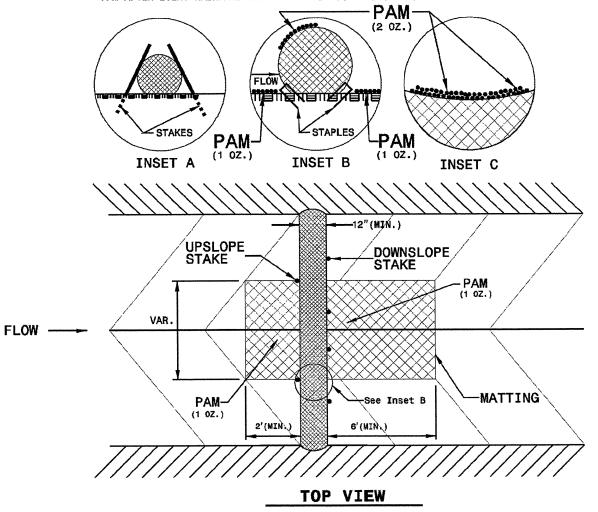
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



WBS ELEMENTS: 43082, 5C.093054, 5C.093055, 5CR.10931.10, 5CR.20911.10 AND 5CR.20931.10

PROJ. REFERENCE NO. SHEET NO. SEE TO THE LEFT TCP-1

HIGHWAYS

0F

DIVISION

DRAWING FOR Y UNDIVIDED WARNING SIGNS

TWO-WA

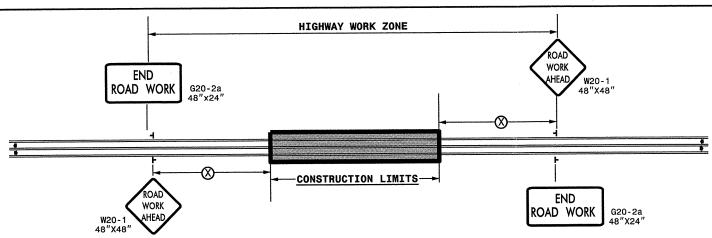
WORK

S

Z

RALEIGH

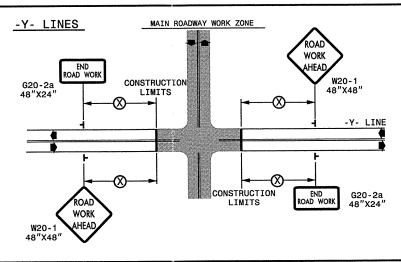
TWO-WAY UNDIVIDED \*\* (L-LINES)



	RECOMMENDED MINIMUM SIGN SPACING
POSTED SPEED LIMIT (M.P.H.)	⊗
≤ 50	500'
≥ 55	1000'

CAROLINA TRANSPORTATION NORTH P R STATE DEPT

### ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



### **GENERAL NOTES**

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED

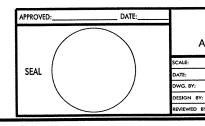
### LEGEND

- STATIONARY SIGN

■ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

DETAIL



DETAIL	_ DRAV	VING	FOR	TWO-V	VAY
UNDIVID	ED A	ND UF	RBAN	FREE	WAYS
ADVANCED	WORK	ZONE	WAF	NING	SIGNS

NONE	" HOINECE
Y:	CONTRO

	REVISIONS		
	7	-98	10/01
1	10-98		03/04
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SIGNS AS DETERMINED BY THE ENGINEER.

- DO NOT BACK BRACE SIGN SUPPORTS.

### GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
  - A. TRUCK MOUNTED SIGNS
    B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
  - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CM C. GROUND MOUNTED ADVANCE WARNING SIGNS

(MUST USE CIRCLE TO PICK UP SIGNS)

- (MUST CIRCLE TO PICK UP SIGNS)
  D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO BOTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

(1)(2)(3)(4)(8)

W26-1CSP

- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.
- (13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e.
  "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE.
  SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE
  SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.
- (14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

### **LEGEND**

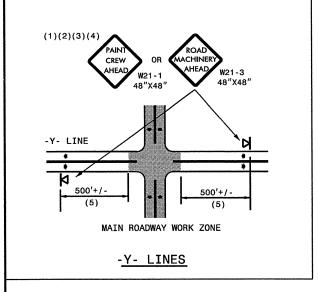
PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.

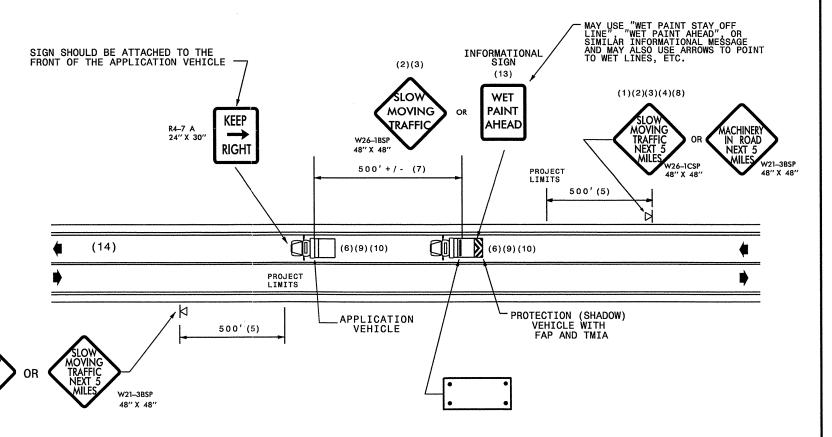
DIRECTION OF TRAFFIC FLOW

APPLICATION VEHICLE WITH LIGHT BAR

PROTECTION VEHICLE WITH TRUCK
MOUNTED IMPACT ATTENUATOR (TMIA)
AND LIGHT BAR (SEE ROADWAY
STANDARD NO. 1165.01). TMIA MUST
BE NCHRP-350 TEST LEVEL 3 (60+MPH)

FLASHING ARROW PANEL,
TYPE "B" (60"X30" MIN.),
"CAUTION MODE"





# MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04