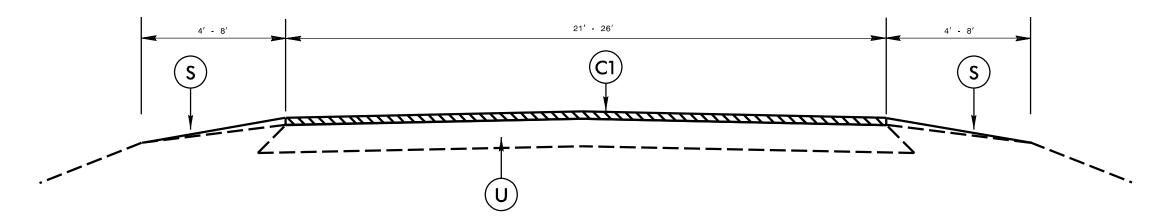
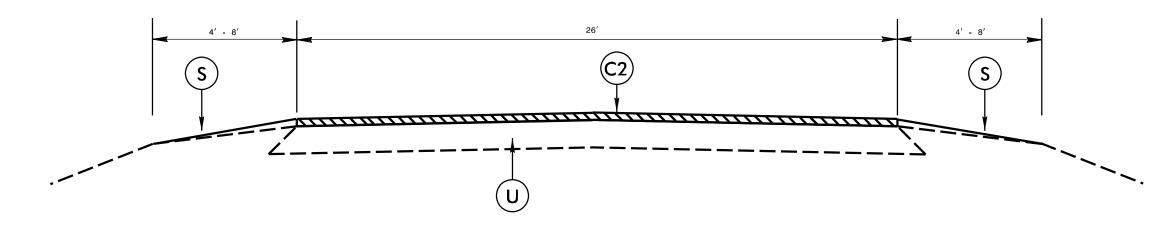


	PAVEMENT SCHEDULE
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
S	SHOULDER GRADING ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.05.14.10391.1, etc.	3



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

 PROJECT REFERENCE NO.
 SHEET NO.

 2022CPT.05.14.10391.1, etc.
 4

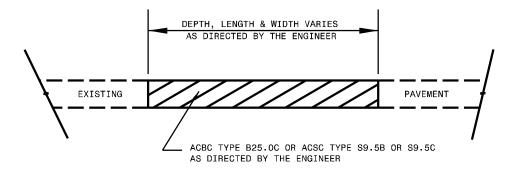
NOTES

ALL UNPAYED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT

INCLUDED IN THE TABLE OF QUANTITIES.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS

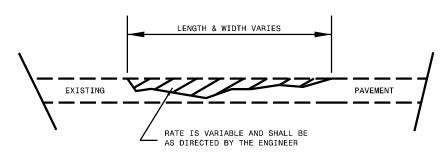
DIRECTED BY THE ENGINEER.

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



PATCHING EXISTING PAVEMENT

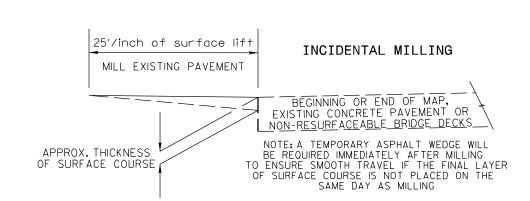
MILLING TO BE PERFORMED PRIOR TO PATCHING

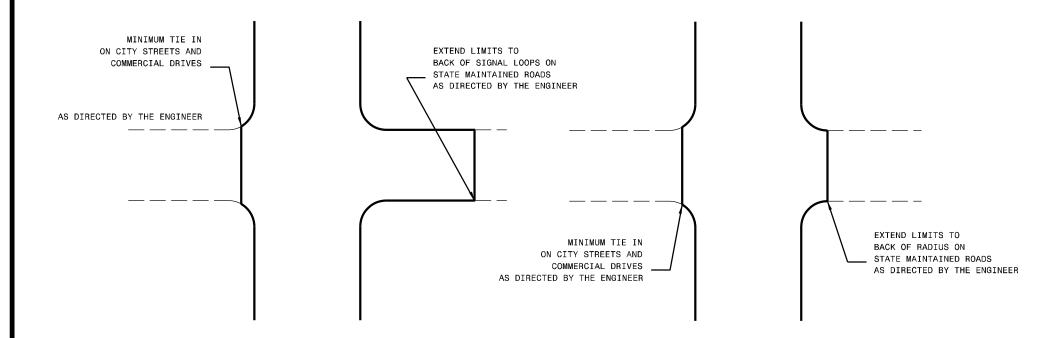


ASPHALT CONCRETE SURFACE COURSE (LEVELING COURSE)

DETAIL OF PROJECT LIMITS AT

SIGNALIZED Y LINES



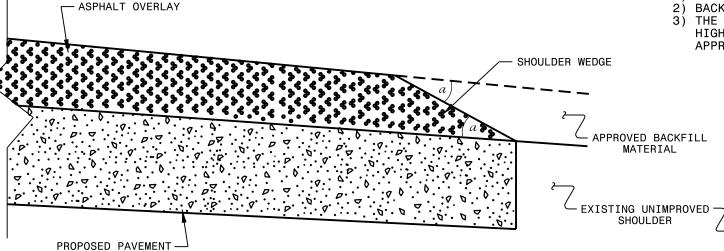


DETAIL OF PROJECT LIMITS AT

UNSIGNALIZED Y LINES

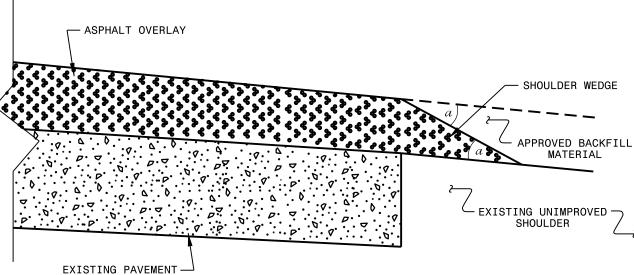
NOTES:

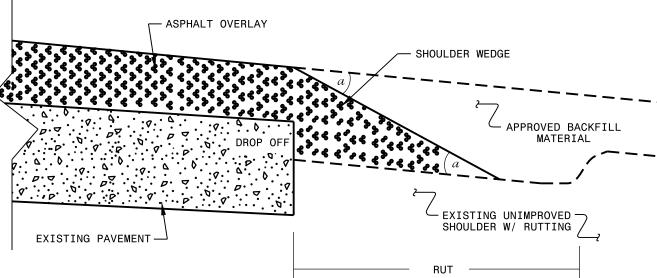
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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 ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

SHOULDER WEDGE **DETAILS**

ORIGINAL BY:	T.SPELL	DATE:_	7-19-11
MODIFIED BY		DATE:	2/2/16
CHECKED BY:		DATE:	
FILE SPEC su	sr/details/stand	/shoulderwedged	detail dgn

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.05.14.10391.1, etc.	6	

SUMMARY OF QUANTITIES

									0106000000-E	0264000000-E	1220000000-E	126000000-E	1330000000-E	1519000000-E	1520000000-E	1523000000-	E 1575000000-E	1704000000-I	E 2815000000-N	2830000000-N	2845000000-N	600000000-E	6071010000-E	6084000000-E	6117000000-N	7444000000-E
PROJECT NO	COUNTY	MAP ROUTE	DESCRIPTION	TYP LANES	S FINAL	WARM	LENGTH	WIDTH	BORROW	SHOULDER	INCIDENTAL	AGGREGATE	INCIDENTAL	SURFACE	LEVELING	SURFACE	ASPHALT	PATCHING	ADJUST DROP	ADJUST	ADJUST	TEMPORARY	WATTLE	SEED &	RESPONSE FOR	INDUCTIVE LOOP
		NO		NO	SURFACE	MIX				GRADING	STONE BASE	SHOULDER	MILLING	COURSE, S9.5B	COURSE, TYPE	COURSE,	BINDER FOR	EXISTING	INLET	MANHOLES	METER OR	SILT FENCE		MULCHING	EROSION	SAWCUT
					TESTING	ASPHALT						BORROW			S9.5B	S9.5C	PLANT MIX	PAVEMENT			VALVE BOX				CONTROL	1
					REQUIRED	REQUIRED	MI	FT	CY	SMI	TONS	TON	SY	TONS	TON	TONS	TON	TONS	EA	EA	EA	LF	LF	AC	EA	LF
2022CPT.05.14.10391.1	Granville	1 NC 96	SR 1304 - SUNSET RD TO NC 49	1 2	NO	NO	14.17	26	425	28.34	709	1,833	2,500	19,384			1,299	400				618	1,550	6.18	1	
TOTAL FOR PR	OJ NO. 2022	CPT.05.14.10391.1					14.17		425	28.34	709	1,833	2,500	19,384			1,299	400				618	1,550	6.18	1	
		SR 1195 - W	SR 1004 - PROVIDENCE RD TO US 15 -	-																						
2022CPT.05.14.20391.1	Granville	2 INDUSTRY DR	LEWIS ST	2 2	NO	NO	0.99	26	50	1.98	50	92	1,620			1,470	88	115	1	2	6	72	180	0.72	1	642
		SR 1225 -	SR 1195 - W INDUSTRY DR TO END																							
2022CPT.05.14.20391.1	Granville	3 CERTAINTEED DE	MAINT.	2 2	NO	NO	0.24	26	17	0.48	12	14	210			330	20	125				24	70	0.24]
			SR 1300 - CORNWALL RD TO SR 1430	-]
2022CPT.05.14.20391.1	Granville	4 SR 1429 - EAKES R	D LITTLE MOUNTAIN CREEK RD	1 2	NO	NO	1.69	21	51	3.38	85	219	620	1,883	50		130	130				74	190	0.74	1	1
TOTAL FOR PR	OJ NO. 2022	CPT.05.14.20391.1					2.92		118	5.84	147	325	2,450	1,883	50	1,800	238	370	1	2	6	170	440	1.70	2	642
	GRAND TO	AL					17.09		543	34.18	856	2,158	4,950	21,267	50	1,800	1,537	770	1	2	6	788	1,990	7.88	3	642

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.05.14.10391.1, etc.	7	

THERMOPLASTIC AND PAINT QUANTITIES

								4413000000-E	4457000000-N	46850	00000-E	4700000000-E	E 472000	0000-E	47250	00000-E	4850000000-E	4890000000-Е	4891000000-E	4891000000-E	4895000000-N
PROJECT NO COU	TY MAP N	O ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH			TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO		THERMO MSG SCHOOL 90M	THERMO MSG		THERMO STR & RT ARROW 90 M	4" LINE	GENERIC PAVEMENT MARKING ITEM HOT SPRAY THERMO- PLASTIC PAVEMENT MARKING LINES, 4", 50 MIL	GENERIC PAVEMENT MARKING ITEM 24" X 90 M WHITE THERMO	GENERIC PAVEMENT MARKING ITEM 16" X 90 M WHITE THERMO	GENERIC PAVEMENT MARKING ITEM, NON- CAST IRON SNOW- PLOWABLE PAVEMENT MARKER
						MI	FT	SF	LS	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF	LF	EA
2022CPT.05.14.10391.1 Gran	ille 1	NC 96	SR 1304 - SUNSET RD TO NC 49	1	2	14.17	26	1,587	*	152,469	129,955		12				640	640	100		935
TOTAL FOR PRO	NO 20222	DT OF 14 10201 1				14.17		1,587	*	152,469	129,955		12				640	640	100		935
TOTAL FOR PRO	NO. 2022CI	P1.05.14.10391.1						,		282	2,424		1	2		1					
																		_	•	•	
2022CPT.05.14.20391.1 Gran	ille 2	SR 1195 - W INDUSTRY DR	SR 1004 - PROVIDENCE RD TO US 15 - LEWIS ST	2	2	0.99	26	126		10,652	10,100	26		4	3	2			102	100	
			SR 1195 - W INDUSTRY DR TO END																		
2022CPT.05.14.20391.1 Gran	ille 3	SR 1225 - CERTAINTEED DR	MAINT.	2	2	0.24	26	27	*	2,582	2,534										
2022CPT.05.14.20391.1 Gran	ille 4	SR 1429 - EAKES RD	SR 1300 - CORNWALL RD TO SR 1430 - LITTLE MOUNTAIN CREEK RD	1	2	1.69	21	190		18,184	12,375										
TOTAL 500 000	NO 20220	DT 05 44 20204 4				2.92		343	*	31,418	25,009	26		4	3	2			102	100	
TOTAL FOR PRO	NO. 2022CI	PT.05.14.20391.1				1.52		543		-	,427	1 20		-		<u> </u>					
			1	1		1		1	1		·	1	1	1	l		1	1	1	1	1
	RAND TOTA	.1				17.09		1,930	1.00	183,887	154,964	26	12	4	3	2	640	640	202	100	935
,	KAND IUIA	AL.								338	3,851		1	.6		5					



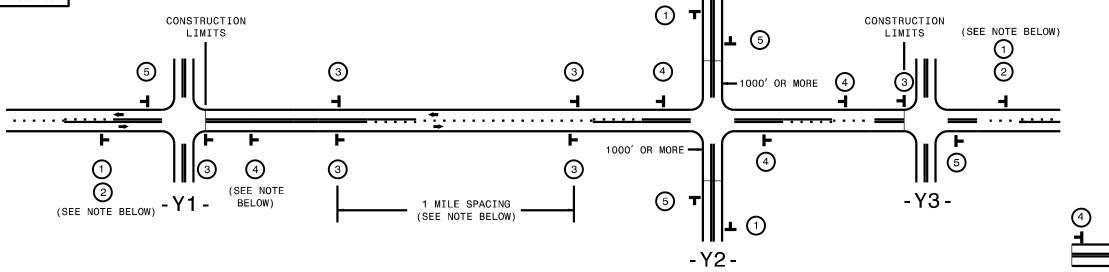
SIGNING FOR RESURFACING PROJECTS



MAPS LESS

THAN 2 MILES

ADVANCE WARNINGS SIGNS.



TEE INTERSECTION

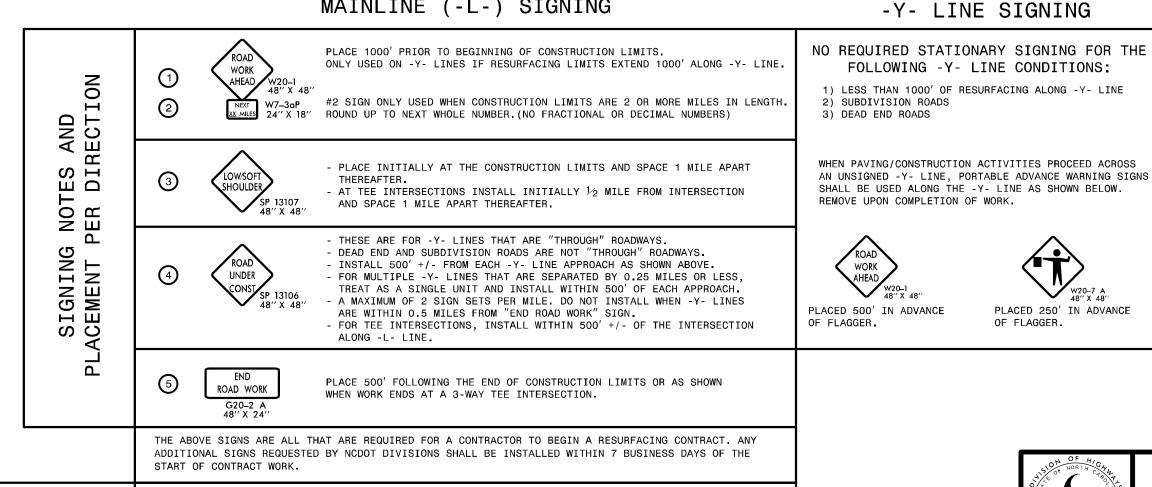
CONSTRUCTION

LIMITS

MAINLINE (-L-) SIGNING

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE

REQUIRED, USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY



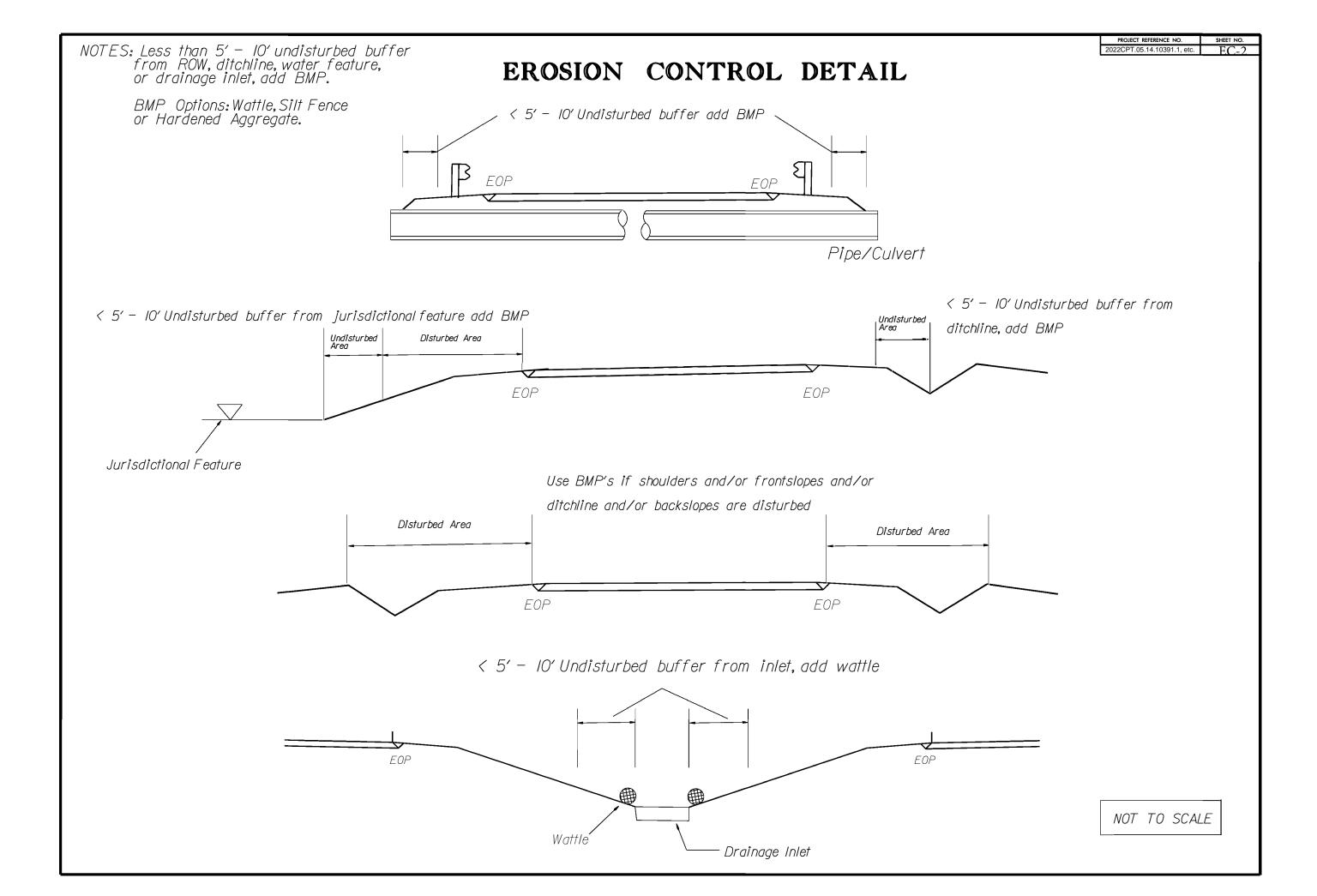
ADVANCE WARNING SIGNS RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

PROJECT REFERENCE NO. SHEET NO. 2022CPT.05.14.10391.1, etc. EC-1

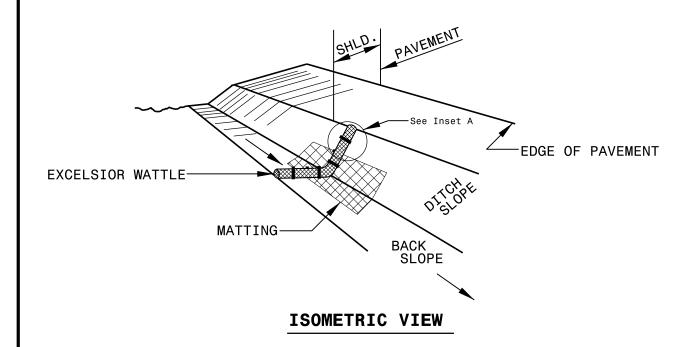
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

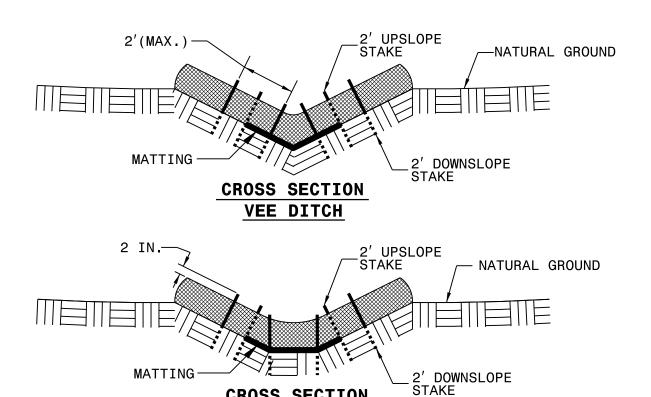
SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE IO' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	I4 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.



WATTLE DETAIL





CROSS SECTION
TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

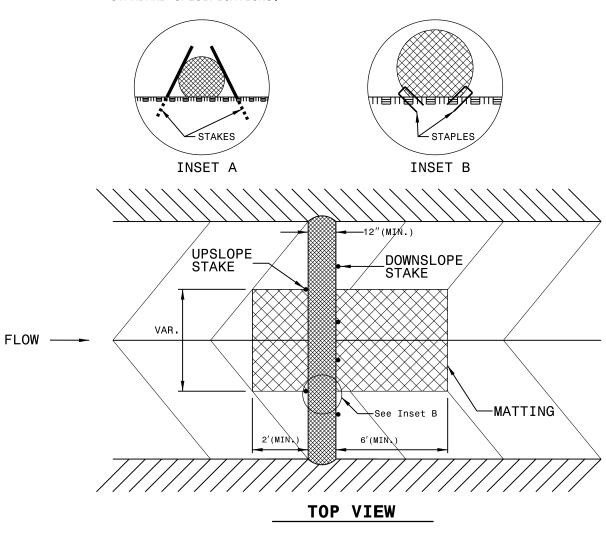
 $\underline{\text{ONLY}}$ INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

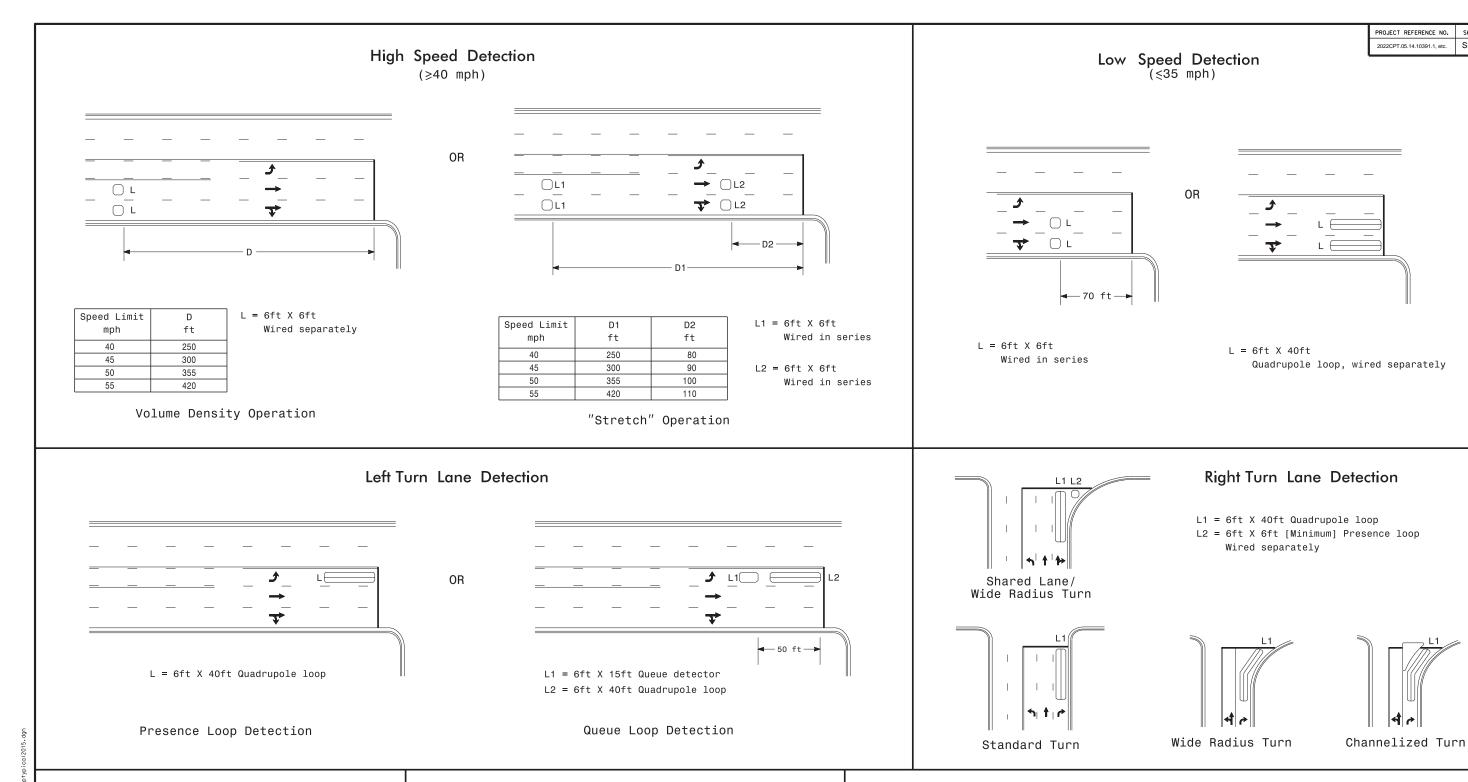
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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

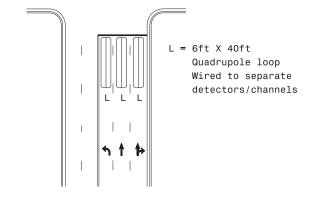
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

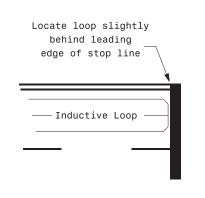








Presence Loop Placement at Stop Lines



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

following conditions:

- 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

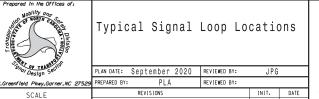
N/A

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

	3 /
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



JPG

JPG

JPG

WGINEE

DATE

SIG. INVENTORY NO.

SIG. INVENTORY NO.

SIG. INVENTORY NO.