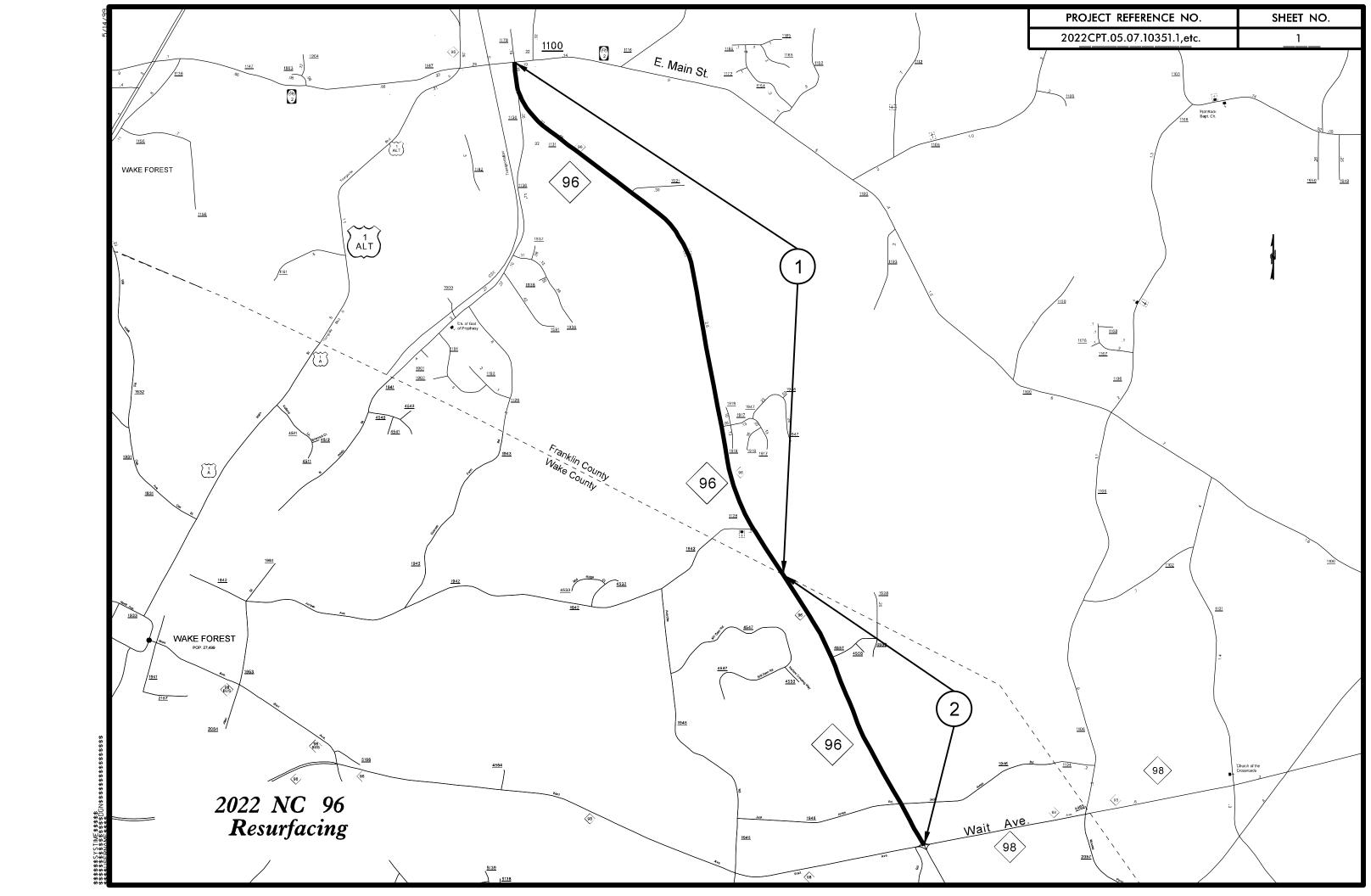
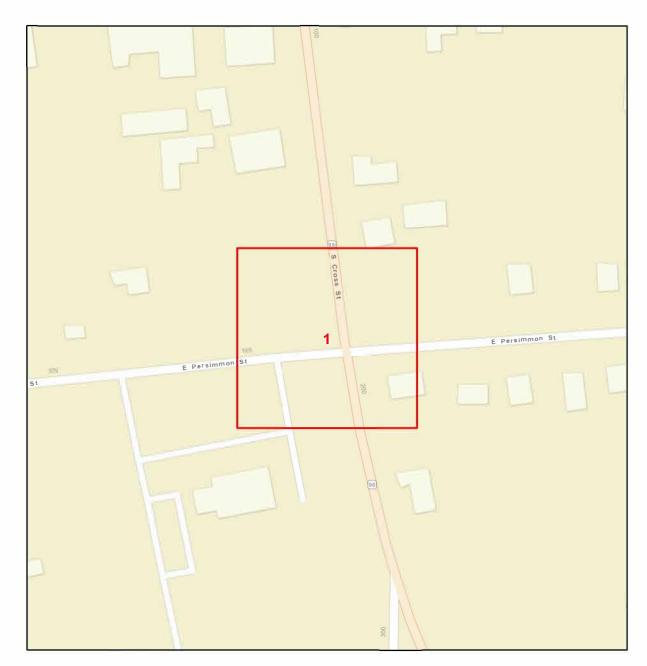
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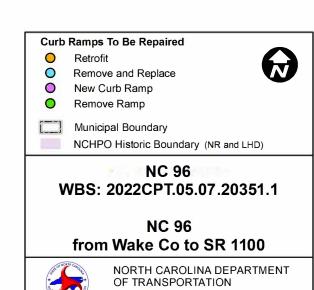
The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

This file or an individual page shall not be considered a certified document.







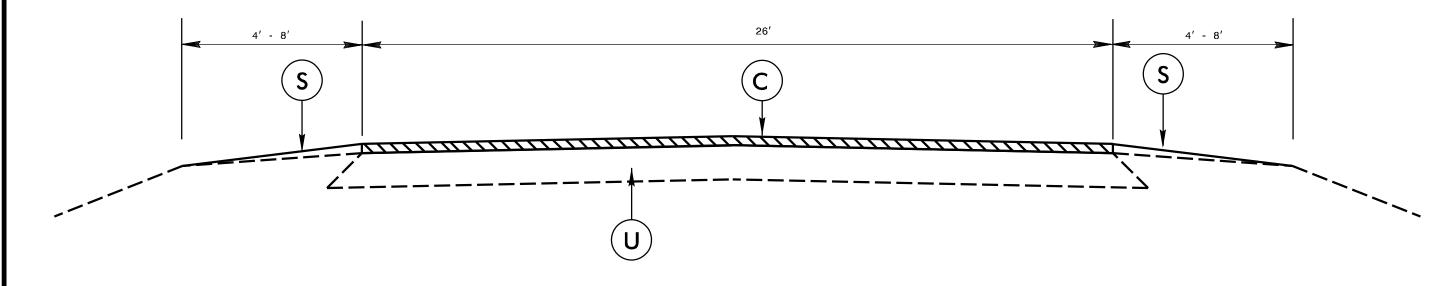


DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO

	PAVEMENT SCHEDULE
O	$1 rac{1}{2}$ " 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.05.07.10351.1, etc.	3

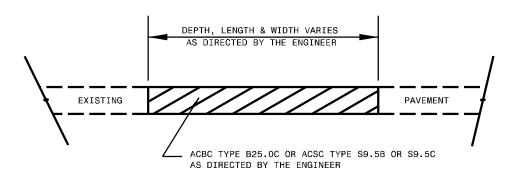


TYPICAL SECTION NO. 1

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.05.07.10351.1, etc.	4

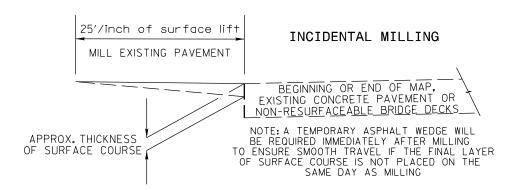
NOTES

ALL UNPAVED S.R. 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.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF OUANTITIES.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



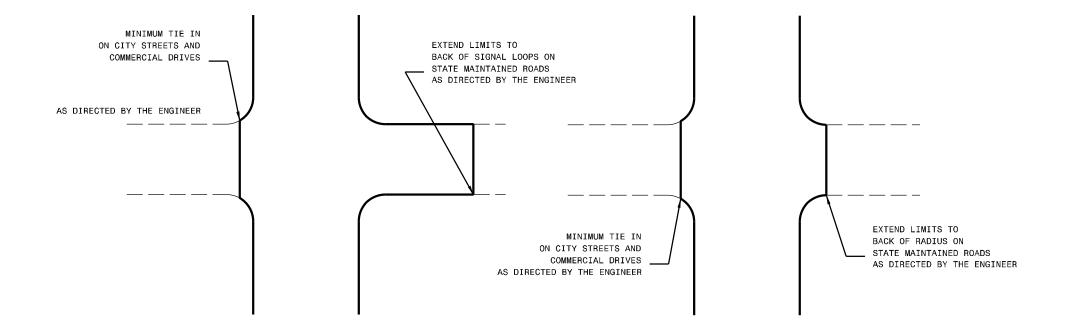
PATCHING EXISTING PAVEMENT

MILLING TO BE PERFORMED PRIOR TO PATCHING



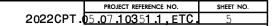
DETAIL OF PROJECT LIMITS AT

UNSIGNALIZED Y LINES



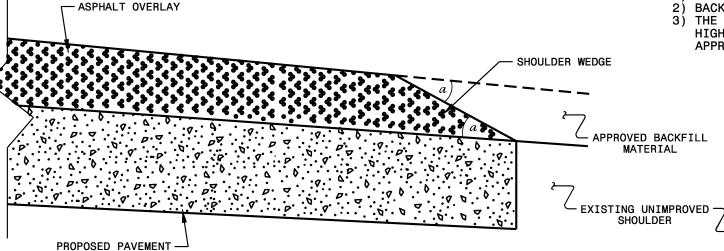
DETAIL OF PROJECT LIMITS AT

SIGNALIZED Y LINES



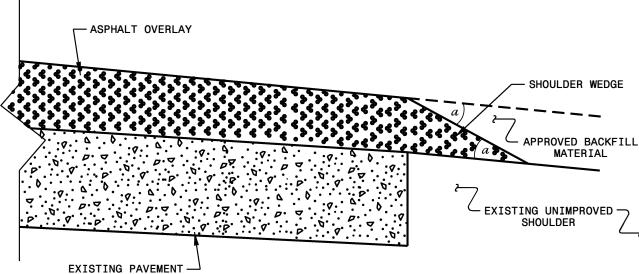
NOTES:

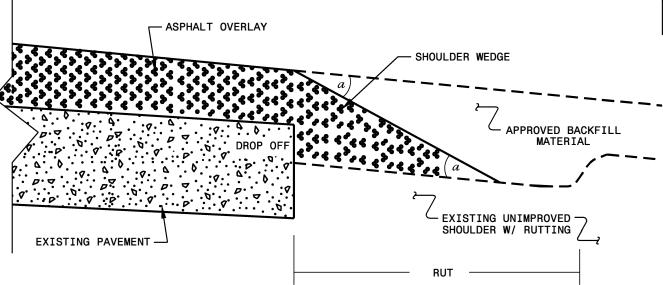
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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

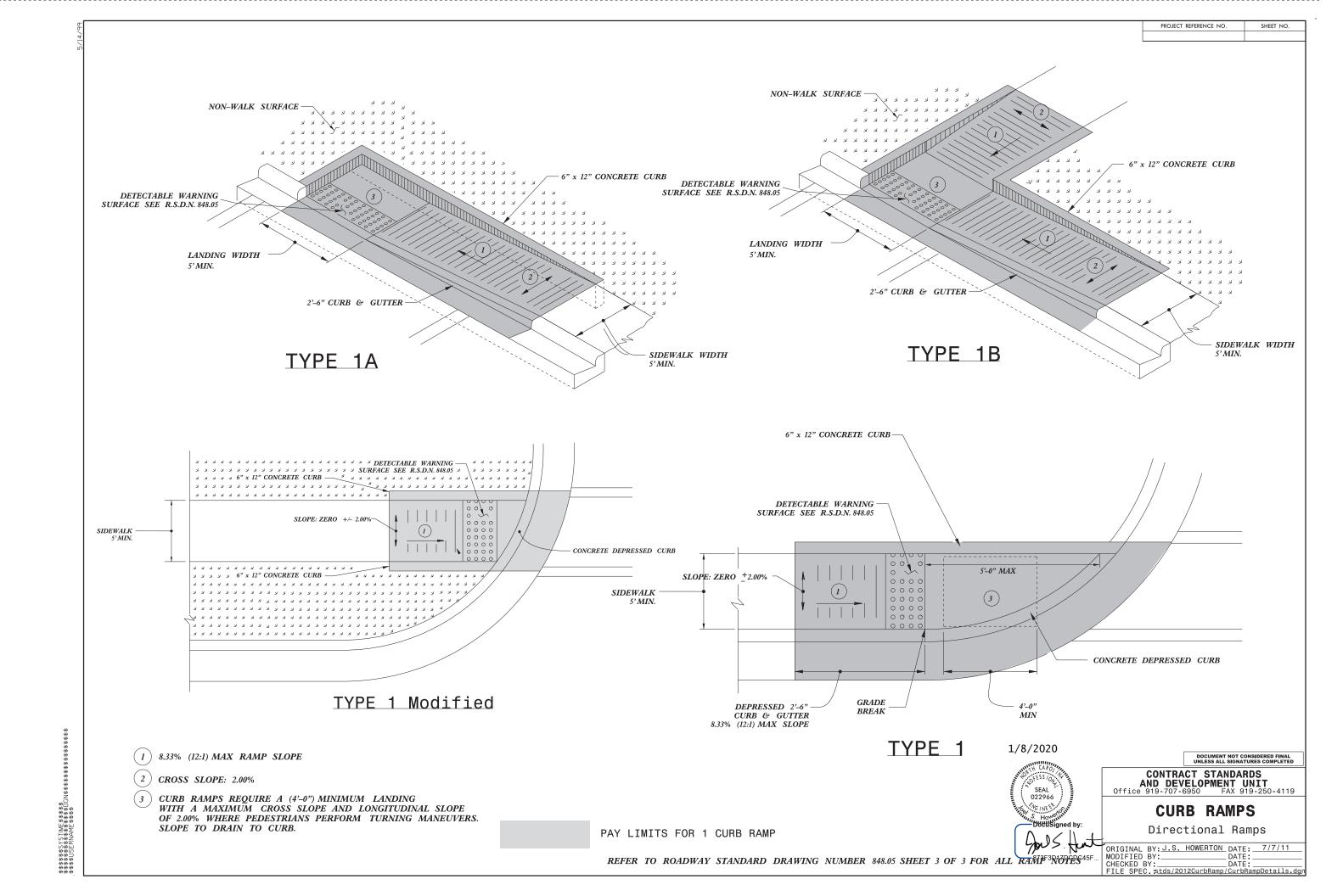
ORIGINAL BY:	T.SPELL	DATE: _	7-19-11
MODIFIED BY:		DATE:	2/2/16
CHECKED BY:		DATE:	
FILE SPEC .: s:u	sr/details/stand		detail.don

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

11 CSD-292592

22-JAN-2018 09:41 S.N.Contracts.N.Contracts.N.Resurfacing Projects.N. p.joorter AT CSD-292592



SUMMARY OF QUANTITIES - NC 96 FROM WAKE CO TO SR 1100

Municipality: Youngsville Project Number: NC 96

WBS Number: 2022CPT.05.07.20351.1

County: Franklin

				2613000000-N	
Ramp ID	Inset Map Number	Route 1	Route 2	Remove and Replace Curb Ramps	Improvement Type
				EA	
24412	1	NC-96 (S Cross St)	E Persimmon St	1	Type1Modified
Sub-Total for NC 96 from		1			

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.05.07.10351.1, etc.	8	

SUMMARY OF QUANTITIES

								0106000000	E 0264000000-E	1220000000-E	1260000000-E	133000000-E	1523000000-E	1575000000-E	1704000000-E	2613000000-N	283000000-N	2845000000-N	460000	0000-N	600000000-E	5071010000-E	6084000000-E	6117000000-N	7444000000-E
PROJECT NO	COUNTY	MAP ROUTE	DESCRIPTION TY	P LANES	FINAL	WARM MIX	LENGTH \	WIDTH BORROW	SHOULDER	INCIDENTAL	AGGREGATE	INCIDENTAL	SURFACE	ASPHALT	PATCHING	REMOVE AND	ADJUST	ADJUST METER	GENERIC	GENERIC	TEMPORARY	WATTLE	SEED &	RESPONSE FOR	INDUCTIVE
		NO	N	0	SURFACE	ASPHALT			GRADING	STONE BASE	SHOULDER	MILLING	COURSE, S9.5C	BINDER FOR	EXISTING	REPLACE CURB	MANHOLES	OR VALVE BOX	TRAFFIC	TRAFFIC	SILT FENCE		MULCHING	EROSION	LOOP SAWCUT
					TESTING	REQUIRED					BORROW			PLANT MIX	PAVEMENT	RAMPS			CONTROL	CONTROL				CONTROL	
					REQUIRED	REQUIRED					DOMNOW			FLANT WITA	PAVEIVIENT	IVAIVIFS			ITEM.	ITEM.				CONTROL	
					KEQUIKED															,					
																			PEDESTRIAN						
																			TRANSPORT	WARNING					
																			SERVICE	DEVICE					
							MI	FT CY	SMI	TONS	TON	SY	TONS	TON	TONS	EA	EA	EA	EA	EA	LF	LF	AC	EA	LF
2022CPT.05.07.10351.1	Franklin	1 NC 96	WAKE CO. TO SR 1100 - EAST MAIN ST 1	. 2	NO	NO	3.35	26 201	6.70	168	247	1,218	4,974	298	127	1	2	1	2	2	292	740	3.00	1	208
							3.35	201	6.70	168	247	1,218	4,974	298	127	1	2	1	2	2	292	740	3.00	1	208
TOTAL FOR PROJ NO. 20	022CP1.05	.07.10351.1																	4						
							1					•			•		,						· ·		,
2022CPT.05.07.10921.1	Wake	2 NC 96	NC 98 - WAIT AVE TO FRANKLIN CO. 1	. 2	NO	NO	1.62	26 81	3.00	81	149	1,225	2,283	137	59						117	300	1.00	1	
		l .					1.62	81	3.00	81	149	1,225	2,283	137	59						117	300	1.00	1	
TOTAL FOR PROJ NO. 20	022CPT.05	.07.10921.1		-	 		-:		1 3.00		 	_,	_,	-31	- 33					1	 -				
					1	1					1	I	I	l .	ı	1	I		I		1				l
				1	1		4.97	100	0.70	240	200	2 442	7 257	425	100		1 1			-	400	1.040	4.00	1	200
GRAND	TOTAL				1		4.97	282	9.70	249	396	2,443	7,257	435	186	1	2	1			409	1,040	4.00		208
																			4						

THERMOPLASTIC AND PAINT QUANTITIES

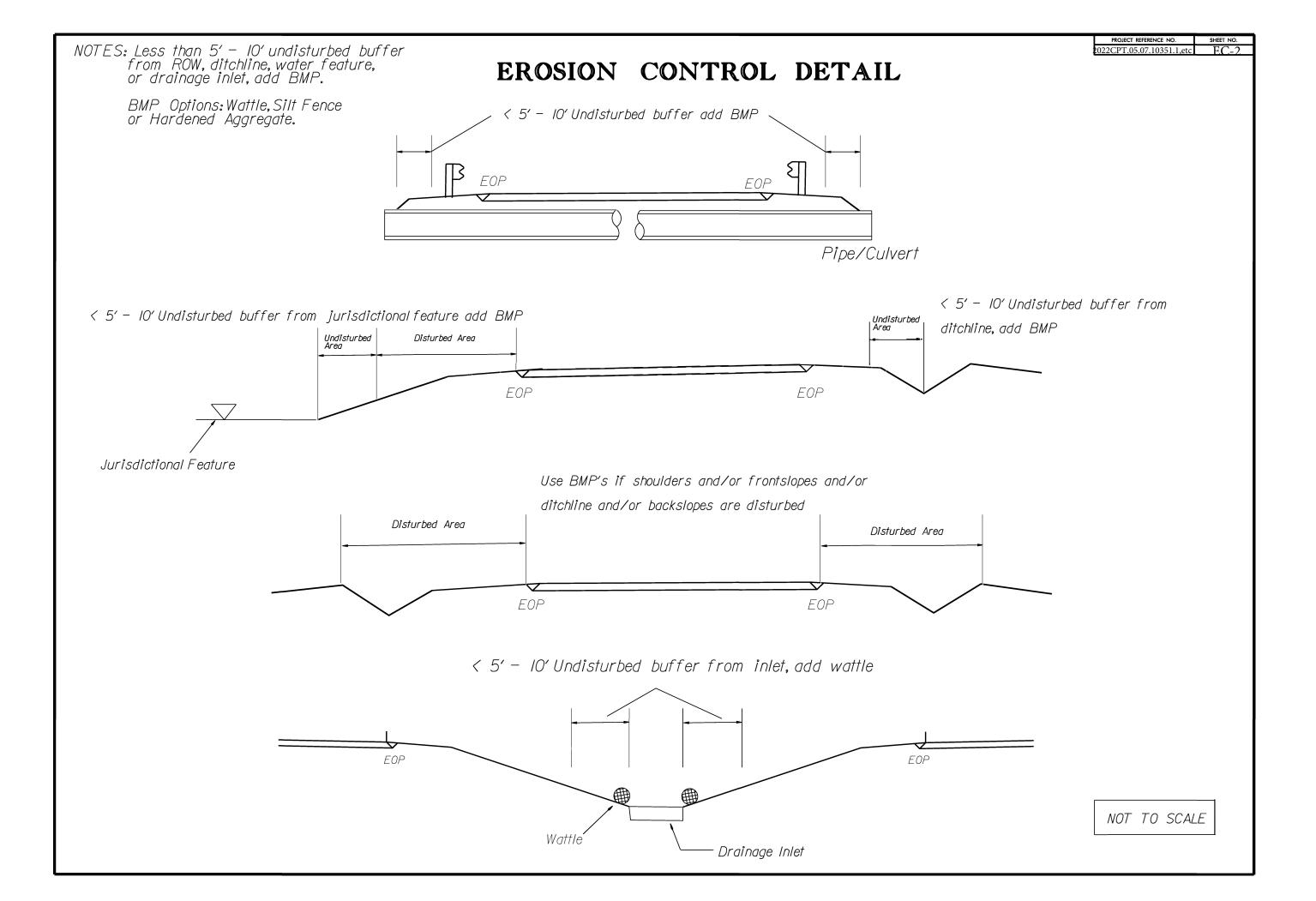
									1300000	1700000	4457000000-N	46850	00000-E	4700000000-E	4725000000-I	489000000-E	4895000000-N
PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LENGTH	WIDTH	WORK	PEDEST	TEMPORARY	4" X 90 M	4" X 90 M	12" X 90 M	THERMO LT	GENERIC	GENERIC
		NO			NO				ZONE	RIAN	TRAFFIC	WHITE	YELLOW	YELLOW	ARROW 90	MARKING	PAVEMENT
									ADVAN	CHANN	CONTROL	THERMO	THERMO	THERMO	М	ITEM 24" X 90	MARKING
									CE/GEN	ELIZIN						M WHITE	ITEM NON-
									ERAL	G DE-						THERMO	CAST IRON
									WARNI	VICES							SNOW
									NG								PLOWABLE
									SIGNIN								MARKER
									G								
							MI	FT	SF	LF	LS	LF	LF	LF	EA	LF	EA
				l		_											
2022CPT.05.07.10351.1	Franklin	1	NC 96	WAKE CO. TO SR 1100 - EAST MAIN ST	1	2	3.35	26	126	20	0.20	36,046	36,556	190	5	26	250
TOTAL FOR PROJ NO. 2	2022CPT.05	.07.10	351.1				3.35		126	20	0.20	36,046	36,556	190	5	26	250
												72	,602				
2022CPT.05.07.10921.1	Wake	2	NC 96	NC 98 - WAIT AVE TO FRANKLIN CO.	1	2	1.62	26	181		0.80	17,431	16,802				107
TOTAL FOR PROJ NO. 2	0022CPT 05	07 10	921 1				1.62		181		0.80	17,431	16,802				107
												34	,233				
GRANI	TOTAL						4.97		307	20	1.00	53,477	53,358	190	5	26	357
CITAINE	···											106	5,835				

PROJECT REFERENCE NO. SHEET NO. 2022CPT.05.07.10351.1.etc. EC-1

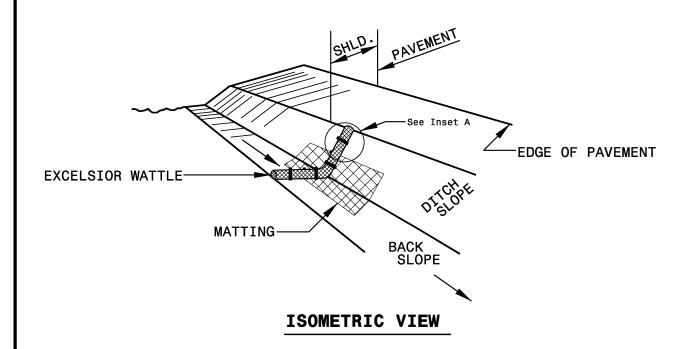
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

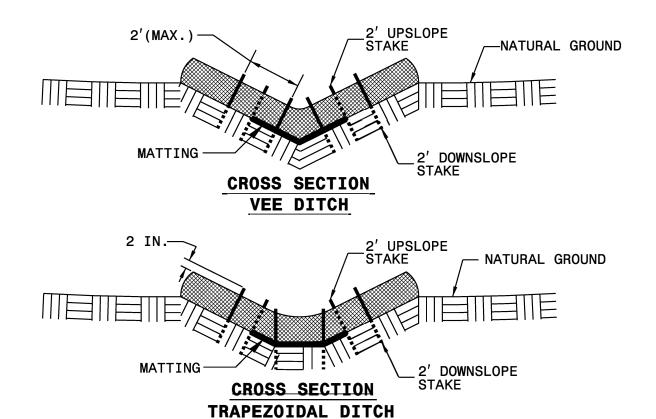
SOIL STABILIZATION TIMEFRAMES

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





NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

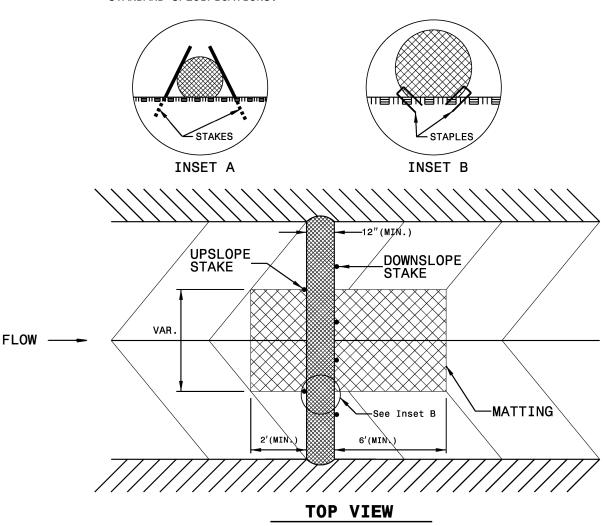
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

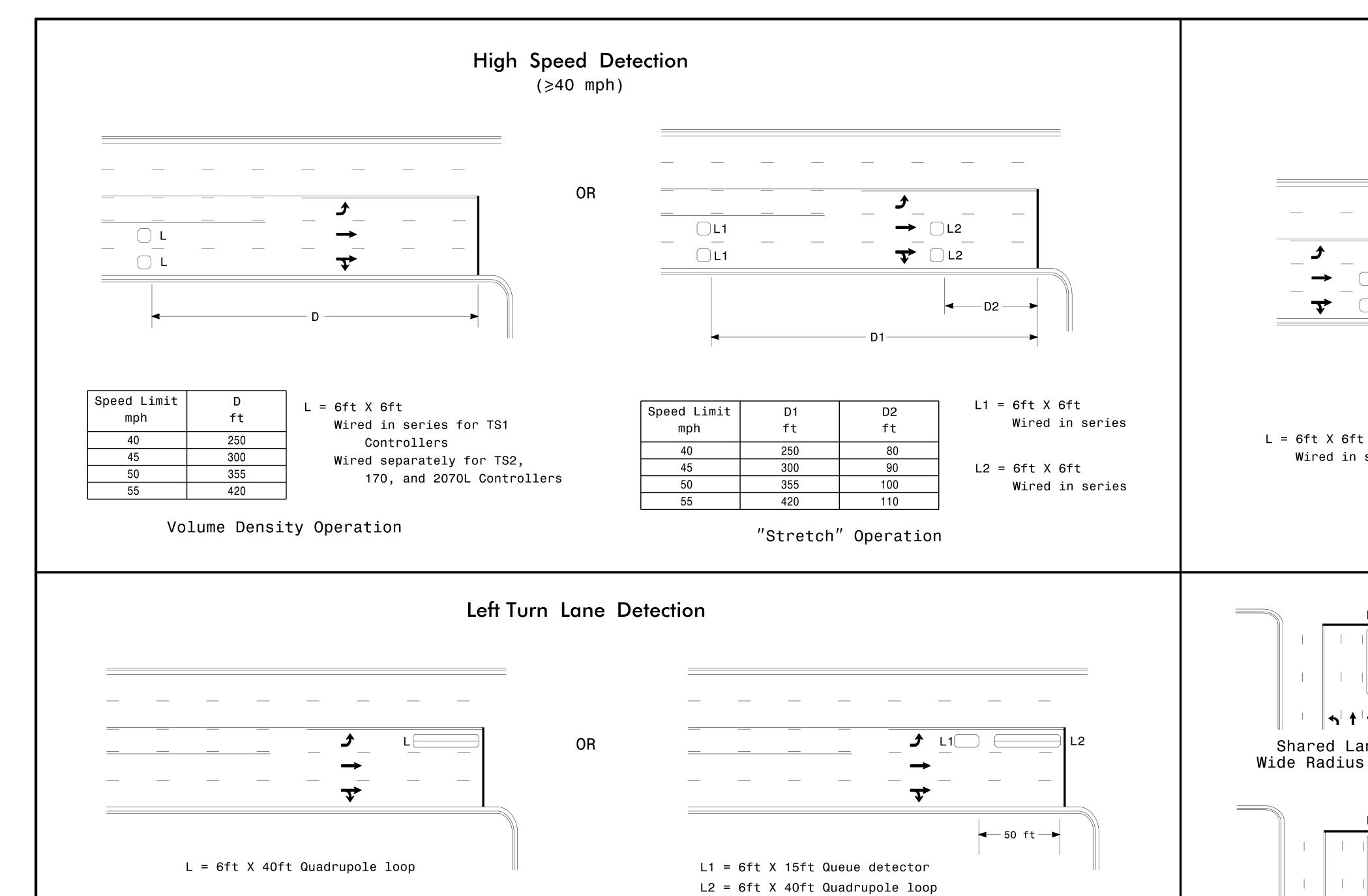
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

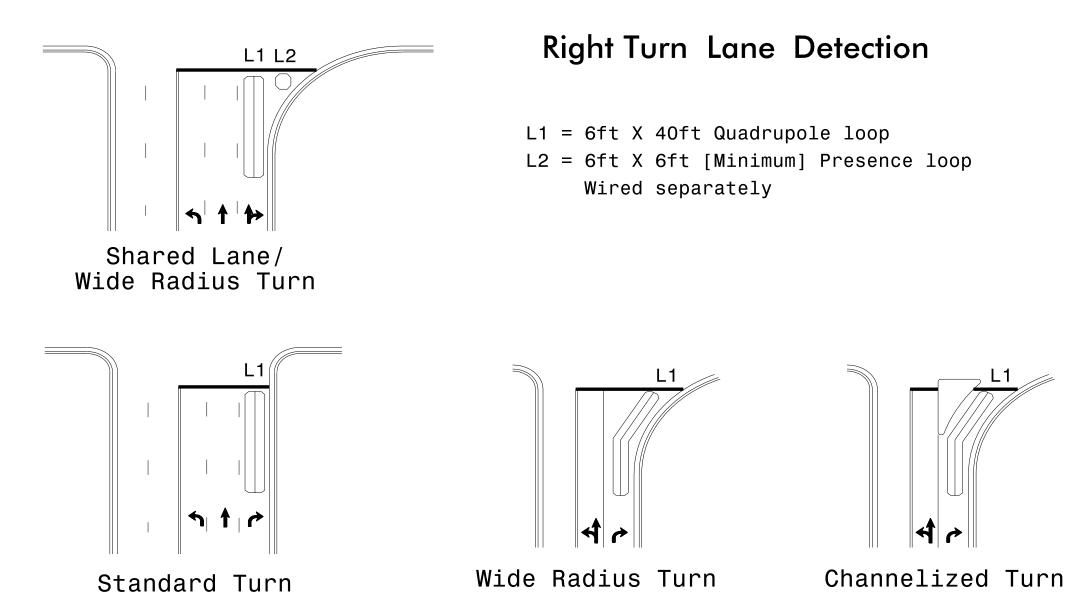
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.







Low Speed Detection (≤35 mph)

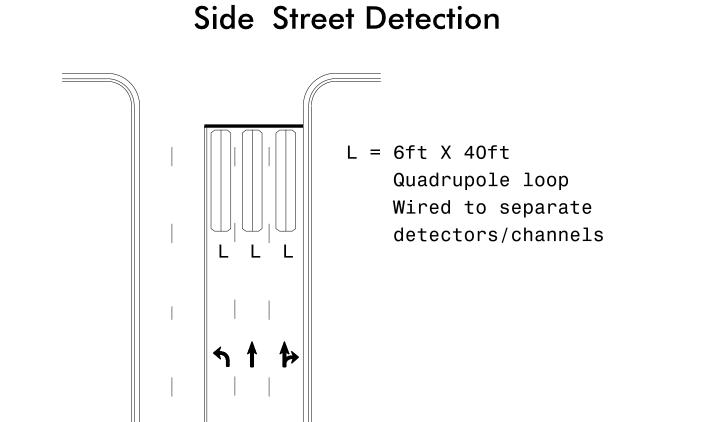
OR

L = 6ft X 40ft

Quadrupole loop, wired separately

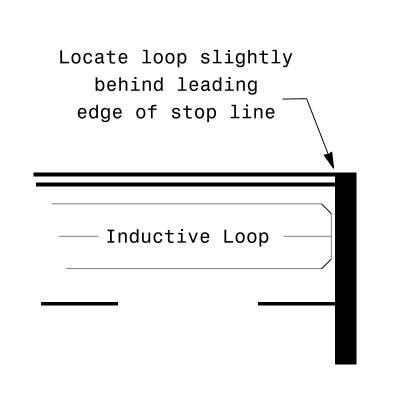
← 70 ft →

Wired in series



Presence Loop Detection





Note:

Queue Loop Detection

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

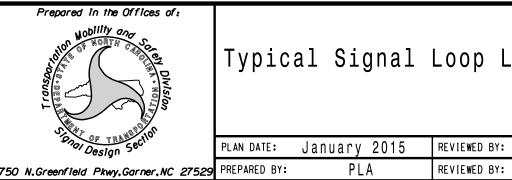
N/A

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

Ten wined ee	paracory
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

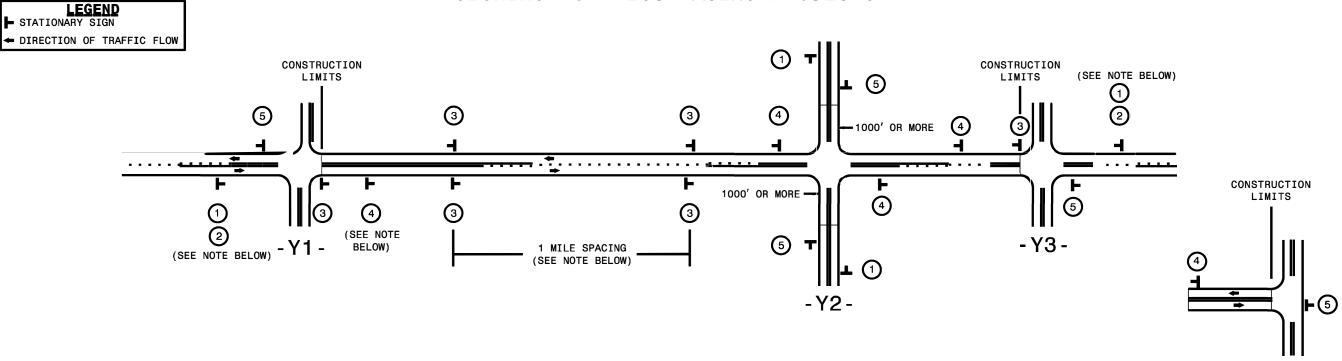


Typical Signal Loop Locations REVIEWED BY: PLA REVISIONS INIT. DATE PL Alexander

PROJECT REFERENCE NO.



SIGNING FOR RESURFACING PROJECTS



MAINLINE (-L-) SIGNING

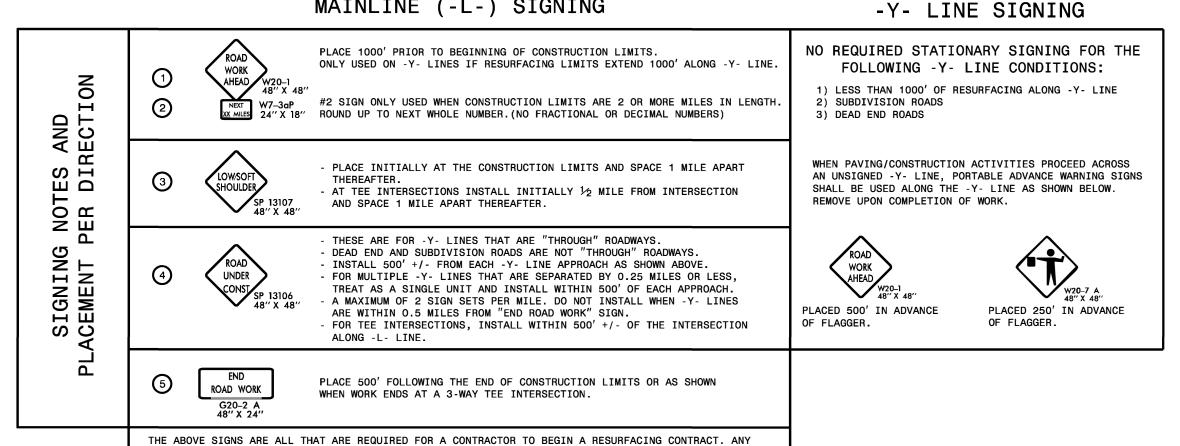
ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE

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

START OF CONTRACT WORK.

ADVANCE WARNINGS SIGNS.





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

TEE INTERSECTION

MAPS LESS

THAN 2 MILES