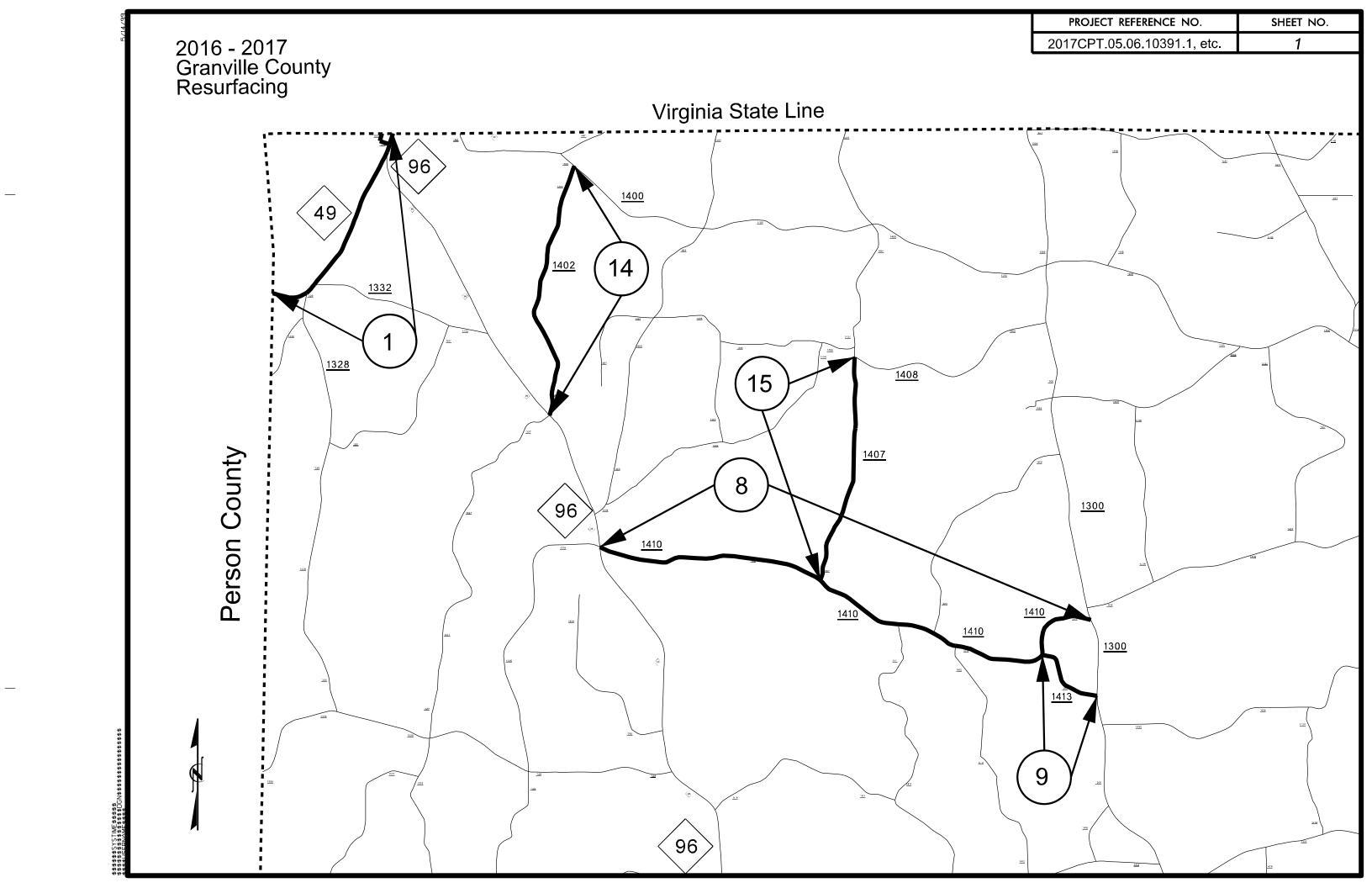
# This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

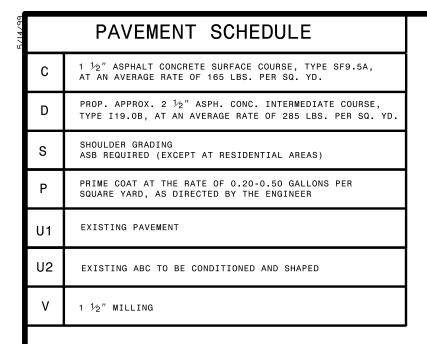
The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

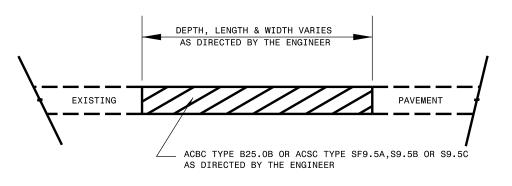
This file or an individual page shall not be considered a certified document.



Sheet No. 3

Sheet No. 4





#### NOTES

PROJECT REFERENCE NO.

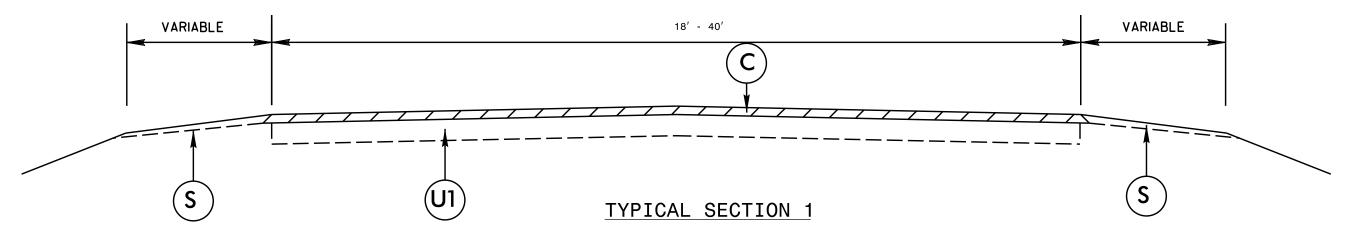
2017CPT.05.06J0391J.etc.

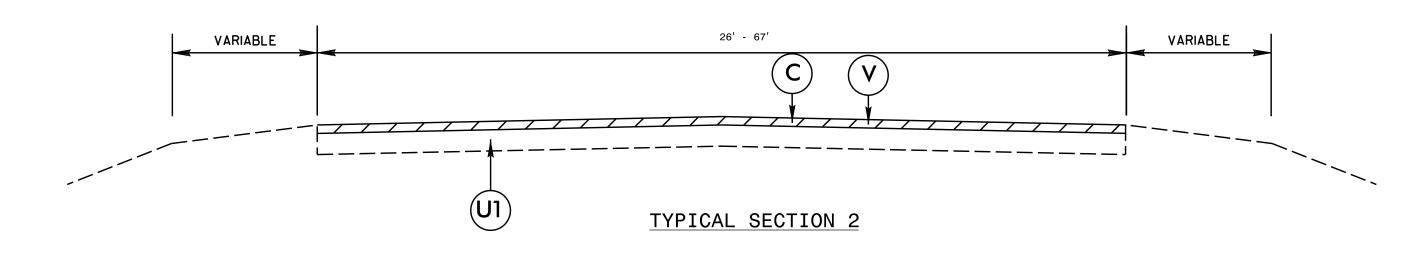
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER. EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES. BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

SHEET NO.

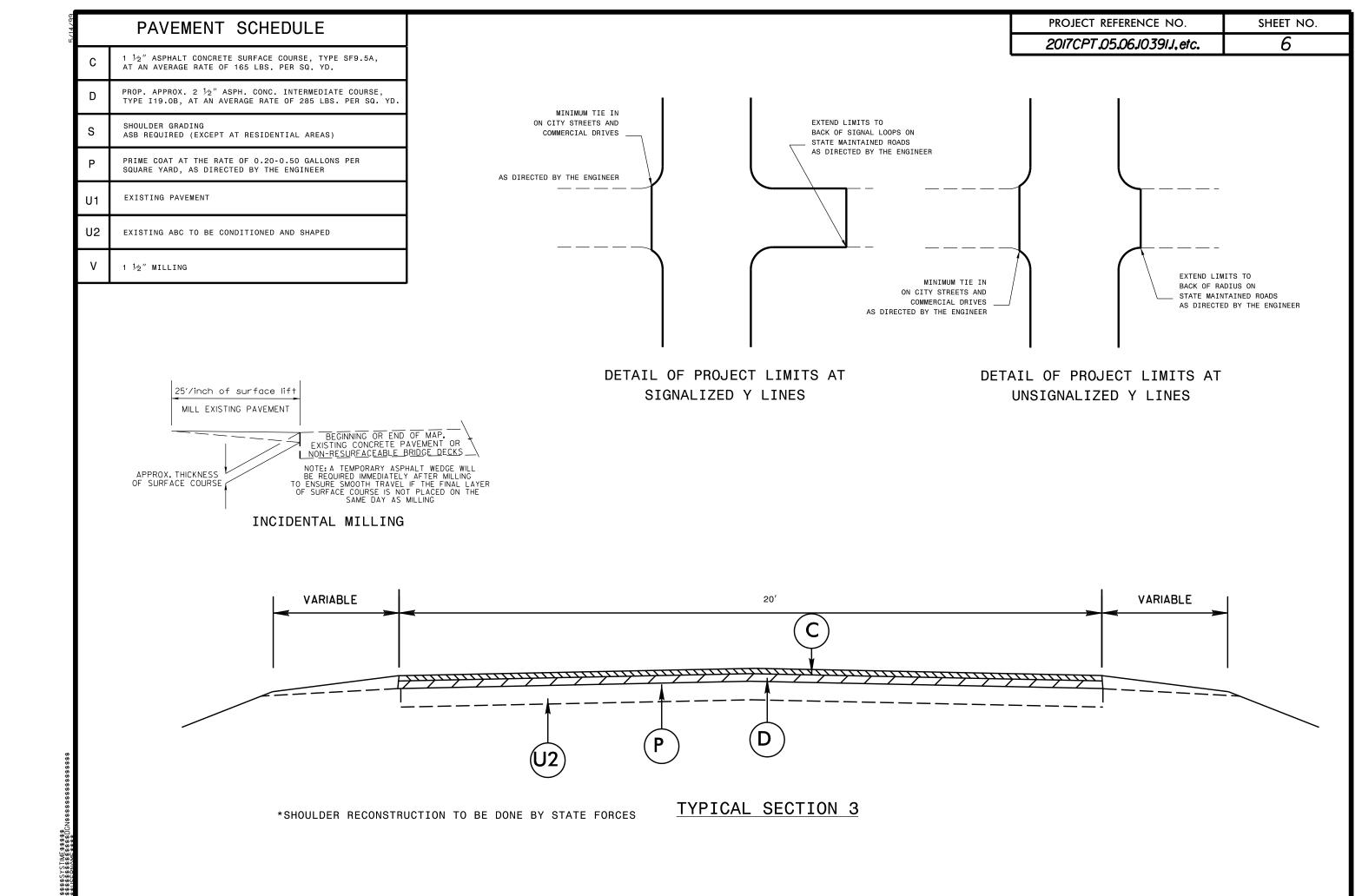
#### PATCHING EXISTING PAVEMENT

LLING TO BE PERFORMED PRIOR TO PATCHING





- \* USE ON MAP 13 FROM SR 1209 TO .12 OF A MILE SOUTH OF THE I-85 BRIDGE
- \* USE ON MAP 13 FROM US 15 FOR A DISTANCE OF 460'
- \* USE ON MAP 13 AT THE RR CROSSING



PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.05.06.10391.1, etc.	7	

#### SUMMARY OF QUANTITIES

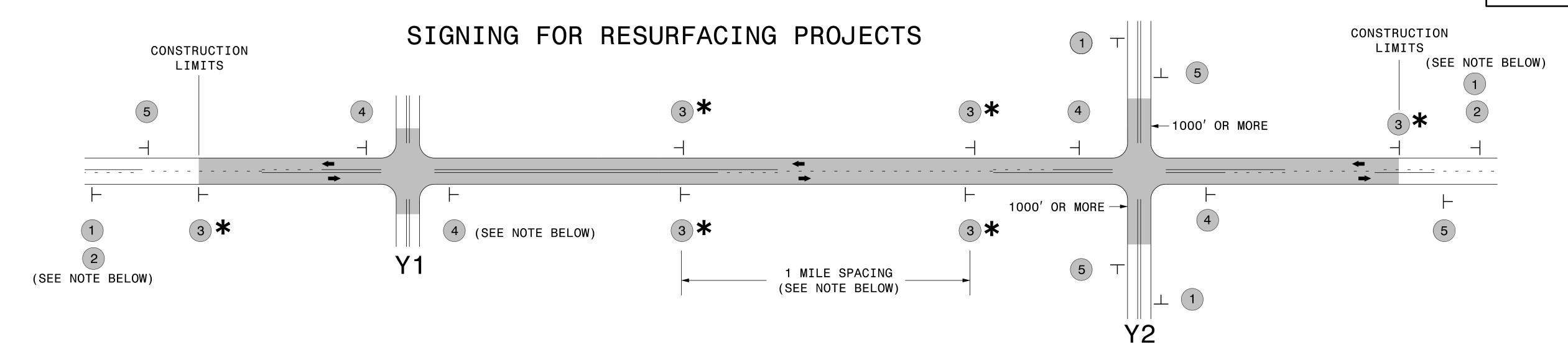
				1					IX I			14 1 1 1				1									
PROJECT COUNTY MAP ROUTE	DESCRIPTION	TYP LANE				LENGTH	WIDTH	BORROW	GEOTEXTILE	1		SHOULDER		INCIDENTAL	PRIME	1½"	INCIDENTAL		SURFACE				WATTLE		INDUCTIVE
			TYPE	SURFACE	ASPHALT				FOR SOIL	EX	XISTING	GRADING	CONDITIONI	STONE BASE	COAT	MILLING	MILLING	INTERMEDIA	COURSE,	BINDER FOR	EXISTING	TEMPORARY		MULCHING	LOOP
				TESTING	REQUIRED				STABILIZATI	AG	GREGATE		NG EXISTING					TE COURSE,	SF9.5A	PLANT MIX	PAVEMENT	SILT FENCE		Į ,	1
				REQUIRED					ON		BASE		BASE					I19.0B						Į ,	1
										0	COURSE													Į ,	1
NO NO		NO				MI	FT	CY	SY	TONS	TON	SMI	MSY	TONS	GAL	SY	SY	TONS	TON	TON	TONS	LF	LF	AC	LF
2017CPT.05.06.10391.1 Granville 1 NC 49	PERSON CL TO STATE LINE	1 2	2WU	NO	NO	1.93	20	193		93		3.86		48			268		2,096	140	200	140	360	1.40	ī
TOTAL FOR MAP NO. 1						1.93		193		93		3.86		48			268		2,096	140	200	140	360	1.40	ī
TOTAL FOR PROJ NO. 2017CPT.05.06.10391.1						1.93		193		93		3.86		48			268		2,096	140	200	140	360	1.40	i
		1 1		1									1					1	, , , , , ,						
	SR 1103 - CENTRAL AVE TO NC 56 - E																							T	i
2017CPT.05.06.20391.1 Granville 2 SR 1100 - E B ST	C ST	2 2	2WU	NO	NO	0.61	26							15		12,202	245		1,082	72				1	1
TOTAL FOR MAP NO. 2						0.61								15		12,202	245		1,082	72					
2017CPT.05.06.20391.1 Granville 3 SR 1102 - WILL SUITT RD	US 15 TO SR 1103 - GATE TWO RD	1 2	2\\/\	NO	NO	2.61	22	261		125		5.22		65		12,202	265		3,006	201	500	190	480	1.90	
TOTAL FOR MAP NO. 3	CS 15 TO SK 1105 GATE TWO KB		- 2000	110	110	2.61		261		125		5.22	<del> </del>	65			265		3,006	201	500	190	480	1.90	$\overline{}$
	SR1103 - GATE TWO RD TO SR 1104 -		_	+		2.01		201		123		3.22		03			203		3,000	201	300	150	400	1.50	$\overline{}$
2017CPT.05.06.20391.1 Granville 4 SR 1106 - WILL SUITT RD	E LYON STATION RD	1 2	2WU	NO	NO	1.51	20	151		73		3.02		38			287		1,555	104	500	110	280	1.10	1
TOTAL FOR MAP NO. 4	L ETON STATION RD	1 2	2000	INO	NO	1.51	20	151		73		3.02		38			287		1,555	104	500	110	280	1.10	
TOTAL FOR MAP NO. 4			-			1.51		151		/3		3.02		30			207		1,333	104	300	110	200	1.10	
2017CPT.05.06.20391.1 Granville 5 SR 1121 - RANGE RD	SR 1004 - OLD NC 75 TO DURHAM CL	1 2	2WU	NO	NO	2.37	20			228		4.74				406	295		2,454	164	800	1		1	1
	SR 1004 - OLD NC 75 TO DURHAWI CL	1 2	2000	NO	NO	2.37	20			228		4.74	-			406				164	800			<del>                                     </del>	
TOTAL FOR MAP NO. 5						2.37				228		4.74				406	295		2,454	164	800			<del> </del>	
2047007.05.05.20204.4.0	DEDCOM C: TO CD 4444		214/11			2.22	20	222		407							400		2 204	450	250	4.54	440	1.53	1
	PERSON CL TO SR 1141 - MORIAH RD	1 2	2WU	NO	NO	2.22	20	222		107		4.44		56			190		2,291	153	350	161	410	1.62	
TOTAL FOR MAP NO. 6			_			2.22		222		107		4.44		56			190		2,291	153	350	161	410	1.62	<del></del>
	SR 1139 - ENON RD TO SR 1004 -																								1
2017CPT.05.06.20391.1 Granville 7 SR 1126 - RANGE RD	OLD NC 75	1 2	2WU	NO	YES	5.03	20	252		363		10.06		63			200		5,203	349	1,000	183	460	1.83	<del></del>
TOTAL FOR MAP NO. 7						5.03		252		363		10.06		63			200		5,203	349	1,000	183	460	1.83	<del></del>
2017CPT.05.06.20391.1 Granville 8 SR 1410 - OAK HILL RD	NC 96 TO SR 1300 - CORNWALL RD	1 2	2WU	NO	NO	4.88	20	488		234		9.76		122			255		5,099	342	1,000	355	890	3.55	<del></del>
TOTAL FOR MAP NO. 8						4.88		488		234		9.76		122			255		5,099	342	1,000	355	890	3.55	<del></del>
	SR 1410 - OAK HILL RD TO SR 1300 -																							1	1
2017CPT.05.06.20391.1 Granville 9 SR 1413 - JOHN WATKINS RD	CORNWALL RD	1 2	2WU	NO	NO	0.67	20	34		48		1.34		8			330		685	46	20	24	70	0.24	<b></b>
TOTAL FOR MAP NO. 9						0.67		34		48		1.34		8			330		685	46	20	24	70	0.24	<b></b>
																								1	1
2017CPT.05.06.20391.1 Granville 10 SR 1600 - ANTIOCH RD	US 158 TO SR 1606 - W ANTIOCH DR	1 2	2WU	NO	NO	1.98	22	396				3.96		100			420		2,362	158	250	288	720	2.88	<u> </u>
TOTAL FOR MAP NO. 10						1.98		396				3.96		100			420		2,362	158	250	288	720	2.88	<u> </u>
2017CPT.05.06.20391.1 Granville 11 SR 1334 - 5TH ST	NC 96 TO SR 1335	1 2	2WU	NO	NO	0.09	18	18				0.18		5					92	6	20	13	40	0.13	<u> </u>
TOTAL FOR MAP NO. 11						0.09		18				0.18		5					92	6	20	13	40	0.13	<u> </u>
2017CPT.05.06.20391.1 Granville 12 SR 1335- CAROLINA AVE.	SR 1334 - 5TH ST TO STATE LINE	1 2	2WU	NO	NO	0.07	18	14				0.14		4			74		78	5	20	10	30	0.10	
TOTAL FOR MAP NO. 12						0.07		14				0.14		4			74		78	5	20	10	30	0.10	L
	US 15 TO PVTJT 570' NORTH OF SR					]	T							T								1		1	1
2017CPT.05.06.20391.1 Granville 13 SR 1103- GATE 2 RD	1201	1,2 2	2WU	NO	NO	2.613	26	257		123		5.23		64		10,290	800		4,521	303	20	187	470	1.87	900
TOTAL FOR MAP NO. 13						2.613		257		123		5.23		64		10,290	800		4,521	303	20	187	470	1.87	900
	NC 96 TO SR 1400 - GRASSY CREEK																							1	1
2017CPT.05.06.20391.1 Granville 14 SR 1402- SMART RD	VIRGILINA RD	1 2	2WU	NO	NO	2.32	20	232		111		4.64		58			167		2,328	156	1,000	169	430	1.69	1
TOTAL FOR MAP NO. 14						2.32		232		111		4.64		58			167		2,328	156	1,000	169	430	1.69	1
TOTAL FOR PROJ NO. 2017CPT.05.06.20391.1						26.973		2,325		1,412		52.73		598		22,898	3,528		30,756	2,059	5,480	1,690	4,280	16.91	900
		•	•										•												
5C.039060 Granville 15 SR 1407 - RUEBEN HART	SR 1410 TO SR 1408	2		NO	NO	2.01	20		25.00		50		26	40	8,255			3,396	1,958	294				T I	i
TOTAL FOR MAP NO. 15						2.01			25.00		50		26	40	8,255			3,396	1,958	294					i
TOTAL FOR PROJ NO. 5C.039060						2.01	i i		25.00		50		26	40	8,255			3,396	1,958	294				<b> </b>	i
			-												· ·	•			• •			•			
GRAND TOTAL						30.913		2,518	25.00	1,505	50	56.59	26	686	8,255	22,898	3,796	3,396	34,810	2,493	5,680	1,830	4,640	18.31	900
***************************************				1	1		L	_,		,,,,,,				100	-,	,_,	-,		,		-,	_,,	.,		

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.05.06.10391.1, etc.	8	

#### THERMOPLASTIC AND PAINT QUANTITIES

	_																	AND			( U A IV								I						T			T
PROJECT.	COUNTY		DOUTE	DECCRIPTION:	700				00-E 445700000			000000-E		000000-E				4710000000-E			TUEDAG:		000000-E	0.CT0   TUFD\$		000000-E	48100			4825000000-E		DAINT	4845000000-N	N DAINT CT	4850000000-E	490000	00000-N YELLOW &	4905000000-N
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	IYP LAI	NES LANE		DTH WORK ZO ADVANCE		RY 4" X 90 M WHITE	4" X 120 M YELLOW	4" X 120 M WHITE	8" X 90 M	8" X 90 M YELLOW	8" X 120 M WHITE	12" X 90 M YELLOW	16" X 120 M WHITE	24" X 120 M WHITE	SCHOOL 120					O STR THERMO S		COLD	4" WHITE PAINT	4" YELLOW PAINT	8" WHITE PAINT	12" YELLOW PAINT	24" WHITE PAINT	ARROW	RT ARROW		4" LINE REMOVAL	CRYSTAL & RED	YELLOW &	PLOWABLE
						ITTE	-	NERAL				THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	M	120 IVI	M M	M M	90 N		APPLIED		PAINI	PAINI	PAINI	PAINI	PAINT	ARROW	KI AKKOW	ARROW	KEIVIOVAL	MARKERS	MARKERS	MARKERS
								WARNIN		IIIEMWO	THERMO	IIIERIVIO	IIIEKWO	IIIEMNO	IIIERWO	IIIERINO	IIIERINO	IIIEKWO					30 10	•		E PLASTIC, TYPE										WIARRERS	WIARRERS	WARKERS
								SIGNIN																	III	II.										1		
NO		NO			NO			SF	LS	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	. EA	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	LF	EA	EA	EA
2017CPT.05.06.10391	.1 Granville	1	NC 49	PERSON CL TO STATE LINE	1 2	2 2WL	J 1.93 2	20 216	0.06	20,500	19,890	76																										128
	TOTAL FO	R MAP NO. 1					1.93	216		20,500	19,890	76																								1		128
TOTAL FO	R PROLNO	2017CPT.05.	06 10391 1				1.93	216	0.06	20,500																											Ĺ	128
											19	9,966																										
	_			SR 1103 - CENTRAL AVE TO NC 56					-		1	1		1	1	1	1				1				1	1	1		1			1	1	1	1			т.
2017CPT.05.06.20391	1 Granville	2	SR 1100 - E B ST	C ST		2 2WL	0.61 3	26 68	0.03	5,850	6.135	86						48			8						5.936	6.135			48	8				1		
2017 CF 1.03.00.20331		R MAP NO. 2	JK 1100 - L D J1	C 51		2 2000	0.61	68		5,850		86						48			8						5,936	6,135			48	8				<b>+</b>		+
2017CPT.05.06.20391			1102 - WILL SUITT RD	US 15 TO SR 1103 - GATE TWO I	RD 1 3	2 2WI	J 2.61 2	22 292		27.415	25.555	98									T T						5,550	0,133								† ************************************		+
2017 (11.03.00.20331		R MAP NO. 3	TOE WILESONT NO	03 13 10 31 1103 03112 1110 1		2 2000	2.61	292		27,415		98																								† ************************************		+
				SR1103 - GATE TWO RD TO SR 11	04 -																																	
2017CPT.05.06.20391	1 Granville	4 SR 1	1106 - WILL SUITT RD			2 2WL	1.51 2	20 169		15,900	13,100	40																								1	1	
		R MAP NO. 4					1.51	169	0.05	15,900	13,100	40					<u> </u>																				í	
				SR 1004 - OLD NC 75 TO DURHA																																1	ĺ	
2017CPT.05.06.20391				CL	1 2	2 2WL	J 2.37 2	20 266		24,875	11,140	28																									L	
	TOTAL FO	R MAP NO. 5					2.37	266	0.07	24,875	11,140	28																								<u> </u>	L	
				PERSON CL TO SR 1141 - MORIA																																1		
2017CPT.05.06.20391				RD	1 2	2 2WL		20 235		23,570	18,905	36																								<u> </u>		
	TOTAL FO	R MAP NO. 6					2.22	235	0.07	23,570	18,905	36																								<b>↓</b> ا		
		_		SR 1139 - ENON RD TO SR 1004																																1	1	
2017CPT.05.06.20391			R 1126 - RANGE RD	OLD NC 75	1 2	2 2WL		20 564		52,260	33,650	72																								<b></b>	<del></del>	+
		R MAP NO. 7					5.03	564 20 547		52,260	33,650	72											-													<b></b>	<del></del>	+
2017CP1.05.06.20391	.1 Granville	R MAP NO. 8	1410 - OAK HILL RD	NC 96 TO SR 1300 - CORNWALL	RD 1 A	2 2WL	J 4.88 2 4.88	20 547 547	0.13 0.13	51,100 <b>51,100</b>	48,882 48,882	140 140			40 40																						+	
	IOIALFO	NIVIAP INU. 8		SR 1410 - OAK HILL RD TO SR 130	in -		4.00	347	0.13	51,100	40,002	140			40																							+
2017CPT.05.06.20391	1 Granville	Q SP 14	12 - IOHN WATKING B			2 2WL	0.67	20 75	0.02	7,200	7.000																									1	1	
2017CF1.03.00.20331		R MAP NO. 9		CONTENTALE NO		2 2000	0.67	75		7,200																										<b>+</b>		+
	IOIALIO	110.5					0.07		0.02	7,200	7,000																									† ************************************		+
2017CPT.05.06.20391	.1 Granville	10 SR	1600 - ANTIOCH RD	US 158 TO SR 1606 - W ANTIOCH	DR 1 2	2 2WL	1.98 2	22 222	0.07	20,950	18,610	200																								1		
		MAP NO. 10					1.98	222	0.07	20,950	18,610	200																									1	
2017CPT.05.06.20391	.1 Granville	11	SR 1334 - 5TH ST	NC 96 TO SR 1335	1 2	2 2WL	J 0.09 1	18 9	0.01																													
	TOTAL FOR	MAP NO. 11					0.09	9	0.01																											1	ĺ	
2017CPT.05.06.20391	.1 Granville	12 SR 1	335- CAROLINA AVE.	SR 1334 - 5TH ST TO STATE LIN	E 1 2	2 2WL	J 0.07 1	18 8	0.01																												Í	
	TOTAL FOR	MAP NO. 12					0.07	8	0.01																													
				US 15 TO PVTJT 570' NORTH OF																																1		
2017CPT.05.06.20391				1201	1,2	2 2WL	J 2.613 2	26 288		26,000	30,400	1,575	780	240		635	100	250	12	4	11	3	1	2	550	550	4,230	3,590	780	40	48	3	1	2	1,100	75	300	
	TOTAL FOR	MAP NO. 13					2.613	288	0.07	26,000	30,400	1,575	780	240		635	100	250	12	4	11	3	1	2	550	550	4,230	3,590	780	40	48	3	1	2	1,100	75	300	
				NC 96 TO SR 1400 - GRASSY CRE				20 260	0.07																											1	1	
2017CPT.05.06.20391				VIRGILINA RD	1 4	2 2WL	2.32 2	20 260 260		24,395	22,410 22,410																										+	
	TOTAL FOR	MAP NO. 14					26.973	3,003		24,395 279.515		2,275	780	240	40	635	100	298	12	4	19	3	-	_	550	550	10.166	9,725	780	40	0.5	11		2	1,100	75	300	
TOTAL FO	R PROJ NO.	2017CPT.05.0	06.20391.1				26.973	3,003	0.84	2/9,515		8,062		.020	40	635	100	298	12	16	19	3	35	2		1,100		.891	780	40	96	11	14		1,100	75		+
												10,002		,020	1	1	1			10			2.5			1,100		,031	1				14		1			
5C 039060	Granville	15 SR 1	1407 - RUEBEN HART	SR 1410 TO SR 1408		2	2.01 2	20 225	0.10	21,210	21,210												1															1
30.033000		MAP NO. 15		3.1.410 TO 3.1.1400		-	2.01	225		21,210	21,210	1	1	1	1	1	1		<b> </b>		1	1	+		_	1	1	1	1			1	1					<b>†</b>
							2.01	225	0	21,210		1	1	1	1	1	1		<b> </b>		1	1	+		_	1	1	1	1			1	1			<b>—</b>		<b>†</b>
то	TAL FOR PR	DJ NO. 5C.039	9060							,		1,210		-1						1		1		ı		-1		1					1	1				
				•					I	•			•		•				•		•				•				•			•			•	-		
	CDAN	D TOTAL					30.913	3,444	1	321,225	276,887	2,351	780	240	40	635	100	298	12	4	19	3	1	2	550	550	10,166	9,725	780	40	96	11	1	2	1,100	75	300	128
	GRAN	DIOIAL									27	9,238	1	,020						16			25			1,100	19	,891					14			3*	75	

PROJ. REFERENCE NO. SHEET NO.



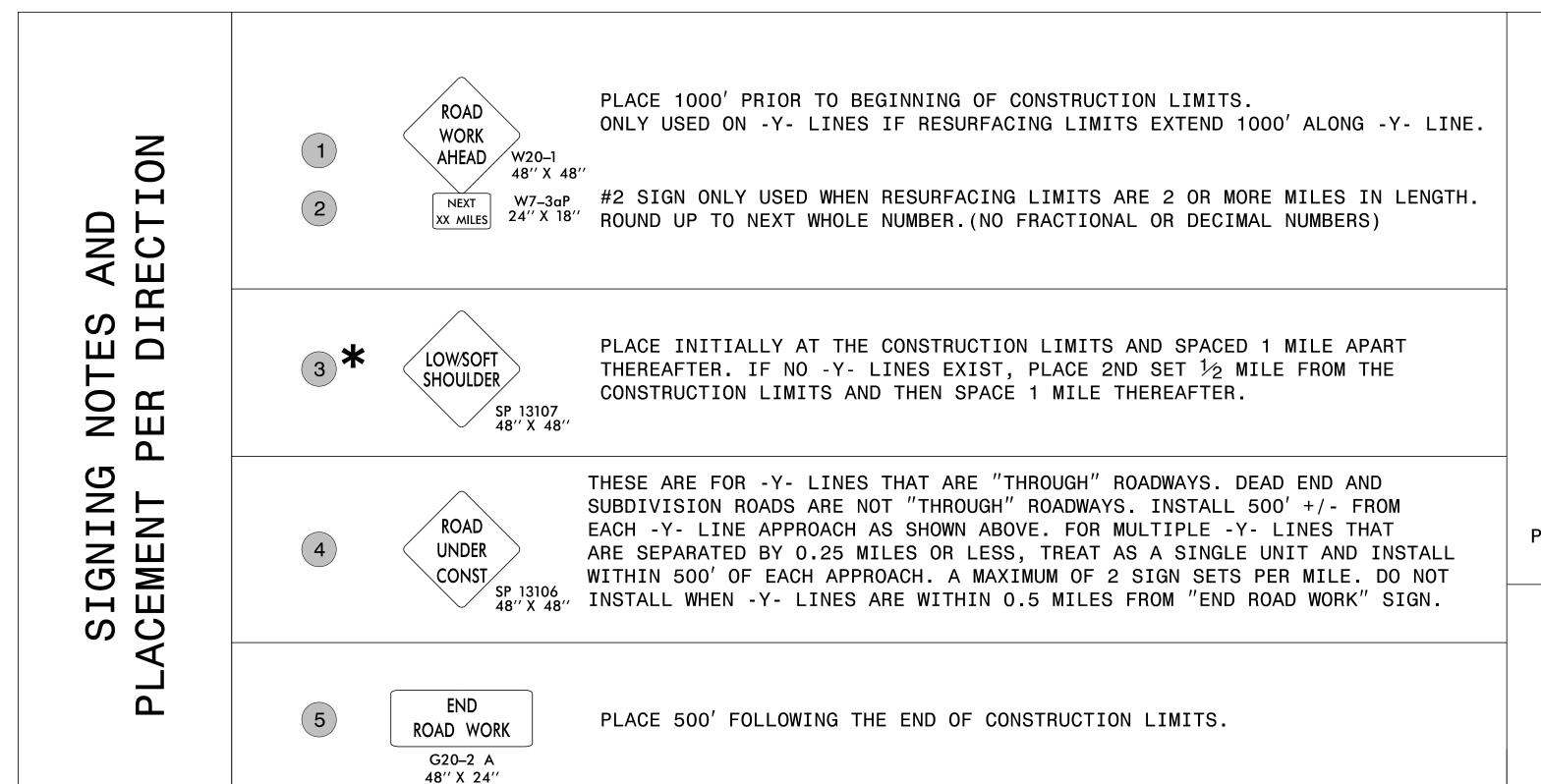
LEGEND

├─ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW

# MAINLINE (-L-) SIGNING

# -Y- LINE SIGNING

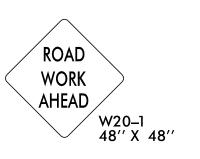


# NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

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

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED
-Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

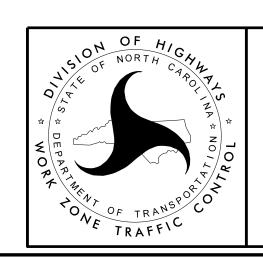




PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

# \* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS: STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).

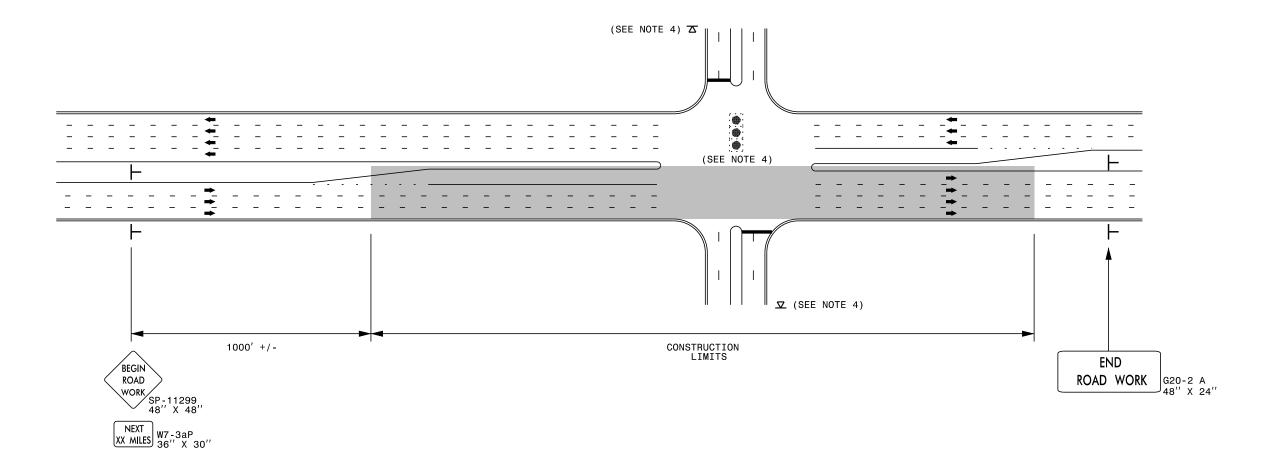


RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

pps/WorkZoneGeneral/ExternalWebPage\DesRes\Documents\Resurfacing\Resurfacing\_AdvW

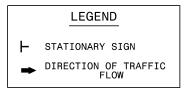
PROJ. REFERENCE NO. SHEET NO.

#### URBAN / SUBURBAN WORKZONES



#### NOTES:

- 1)  $48" \times 48"$  SIZED SIGNS (SP- 11299) MAY BE REDUCED TO  $36" \times 36"$  ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 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) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) 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 WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

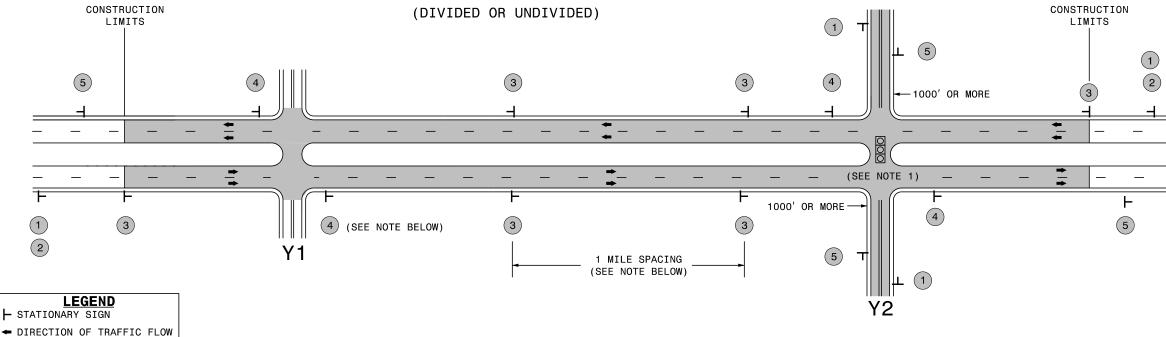




RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

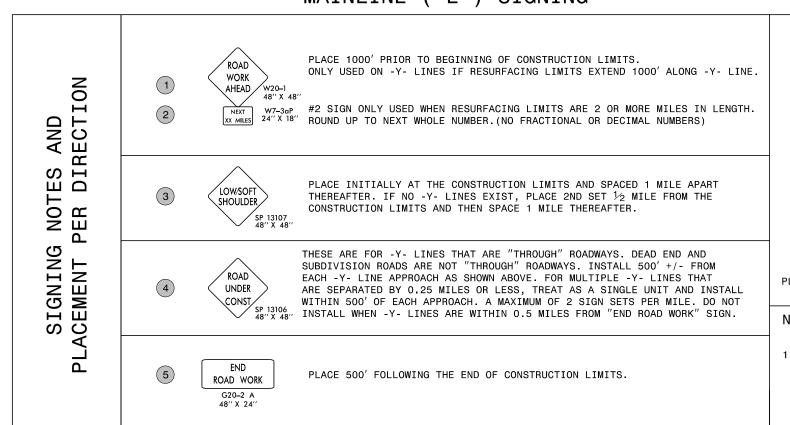
PROJ. REFERENCE NO. SHEET NO.





#### 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

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED
-Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.





PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER

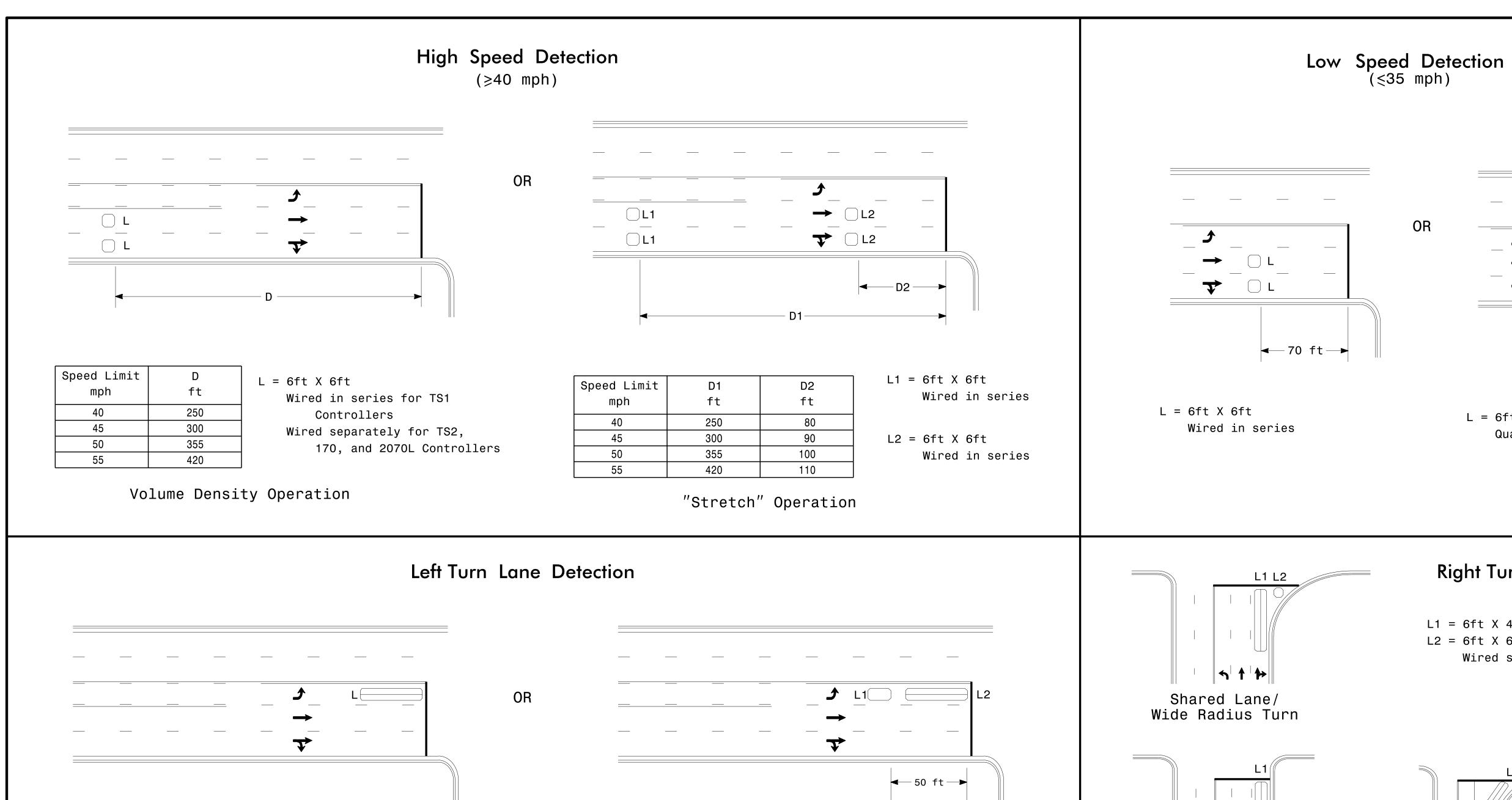
#### NOTES:

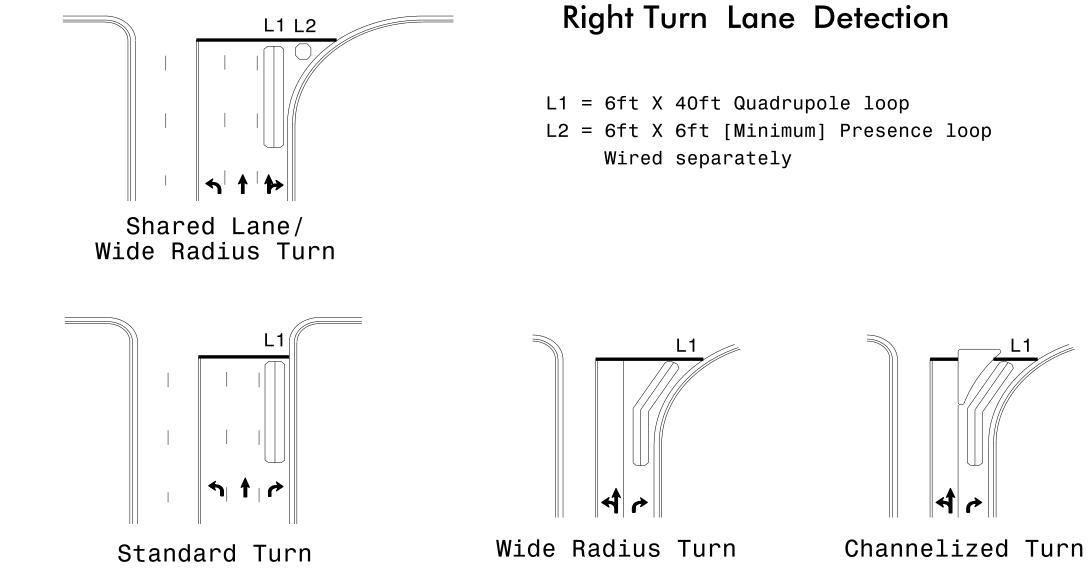
1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.



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

.urtacing/2013Kesurtacing/2013Documents/New\_Frocedures\_05\_09\_2013/Kesurtacing\_AdvWarn\_Ursu\_shidr.ag

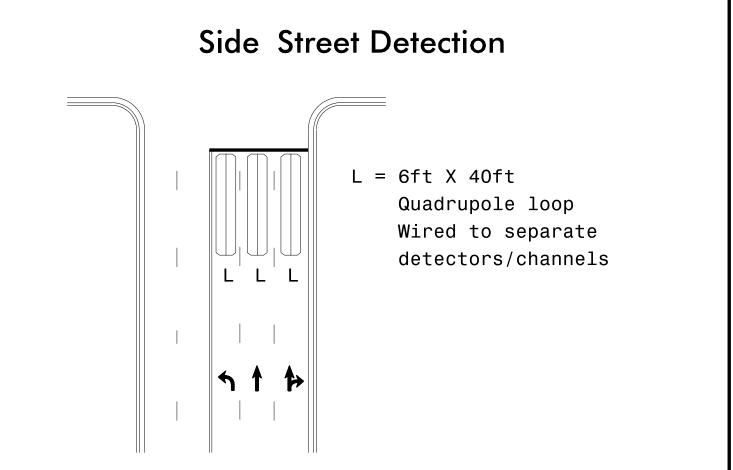




OR

L = 6ft X 40ft

Quadrupole loop, wired separately



L = 6ft X 40ft Quadrupole loop

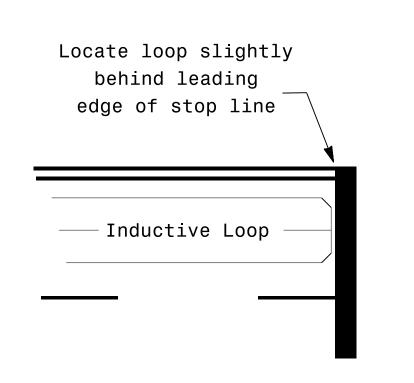
Presence Loop Detection



L1 = 6ft X 15ft Queue detector

L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection



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

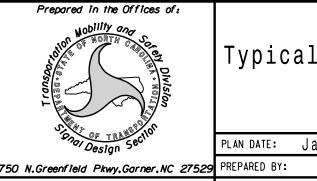
## Recommended Number of Turns

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

ion wired ee	paracory, i
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



SCALE

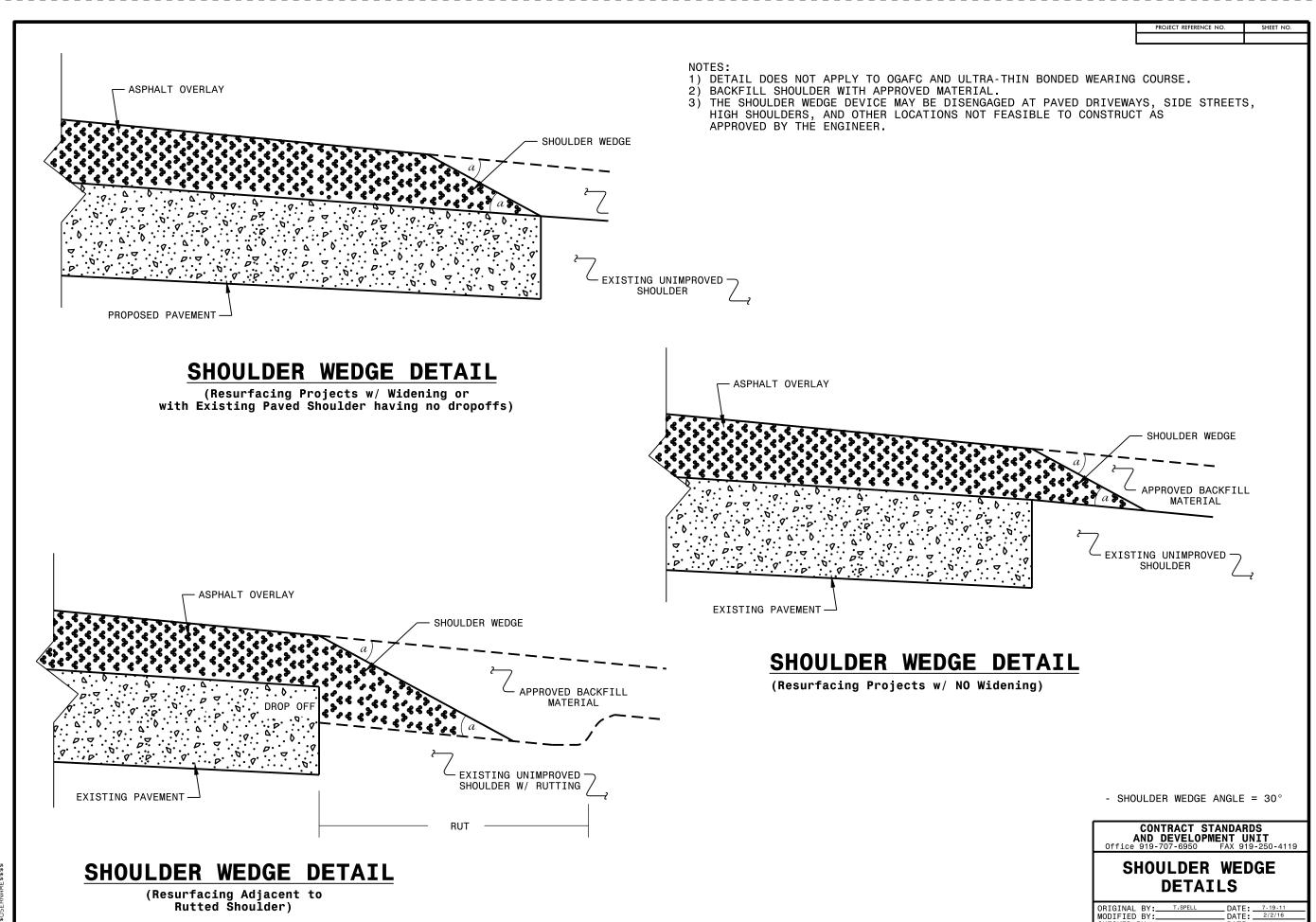
N/A

Typical Signal Loop Locations

PLAN DATE: January 2015 REVIEWED BY: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander

PROJECT REFERENCE NO.

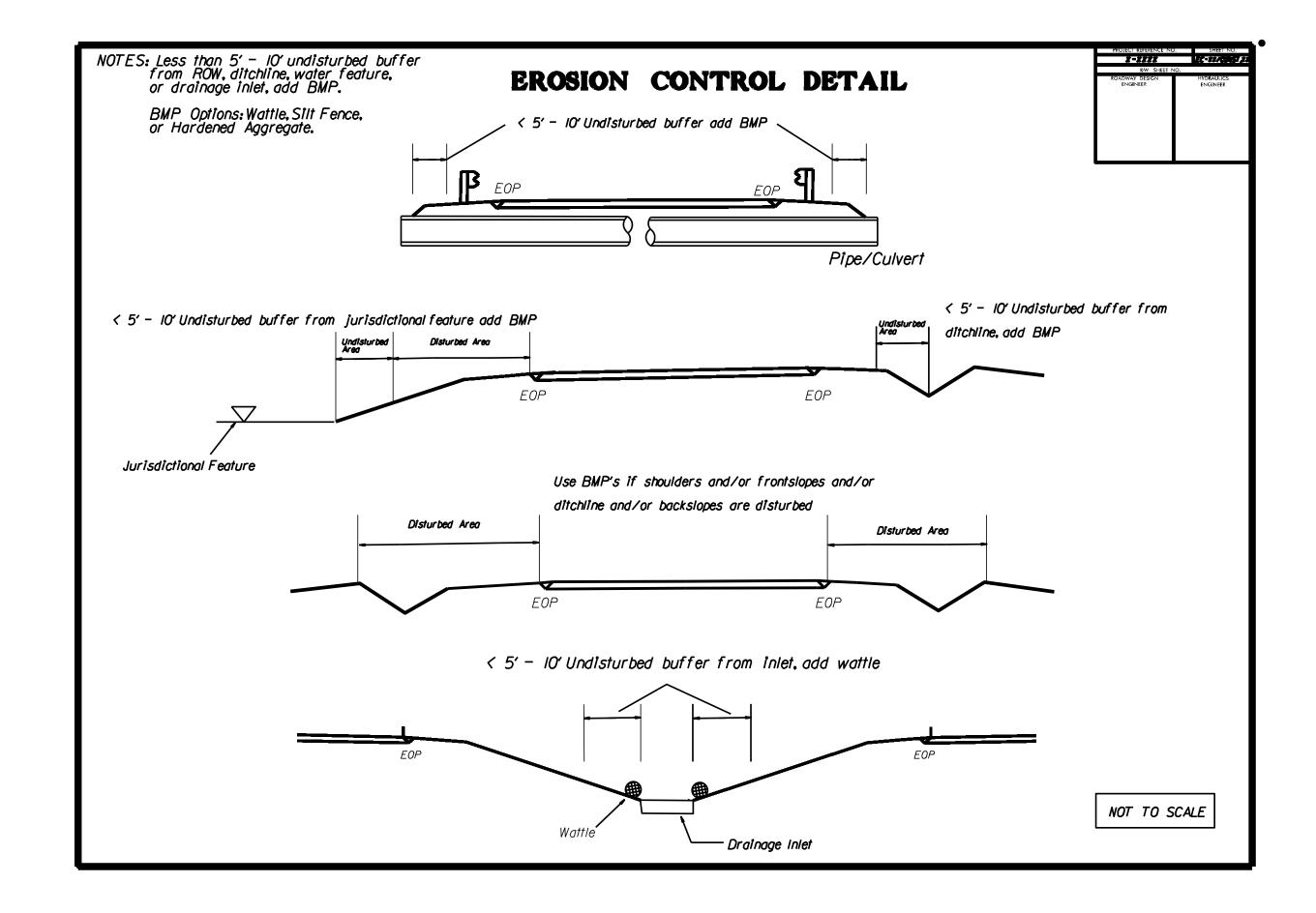


PROJECT REFERENCE NO.

### DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

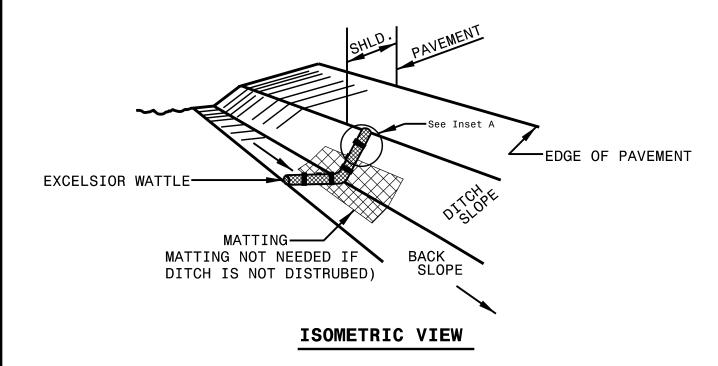
# SOIL STABILIZATION TIMEFRAMES

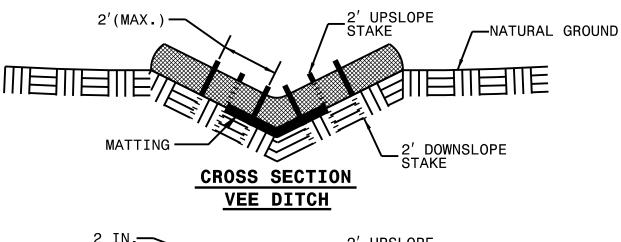
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	I4 DAYS	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.

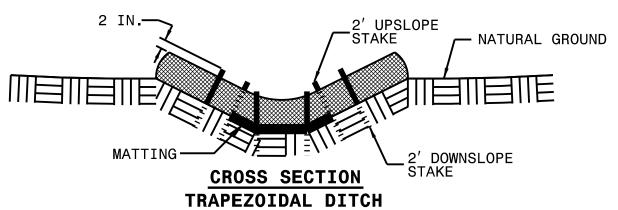


REFERENCE NO. SHEET NO. -XXXX EC-2G

## 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.

 $\underline{\text{ONLY}}$  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.

IF DITCH WILL BE DISTURBED, INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

