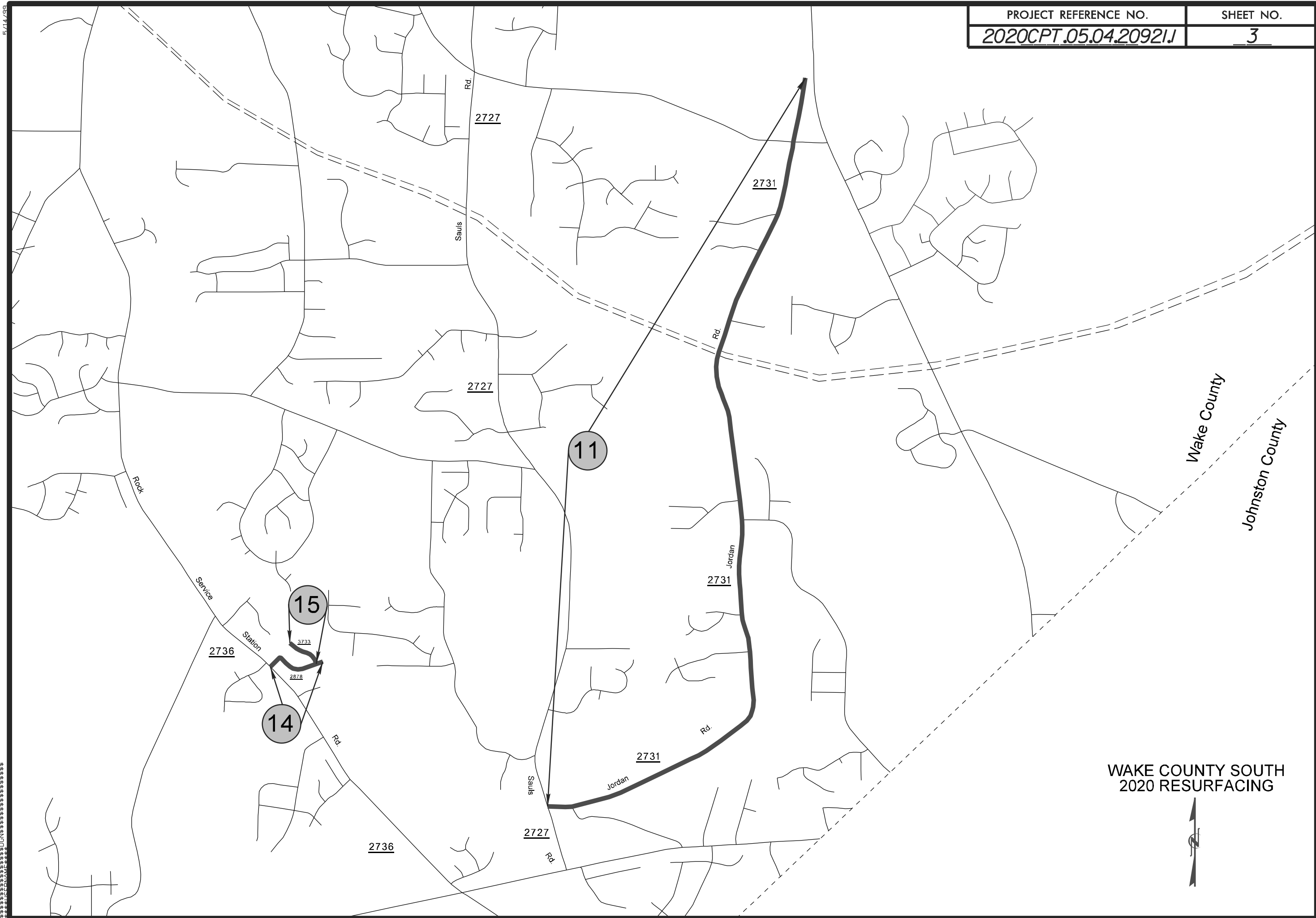
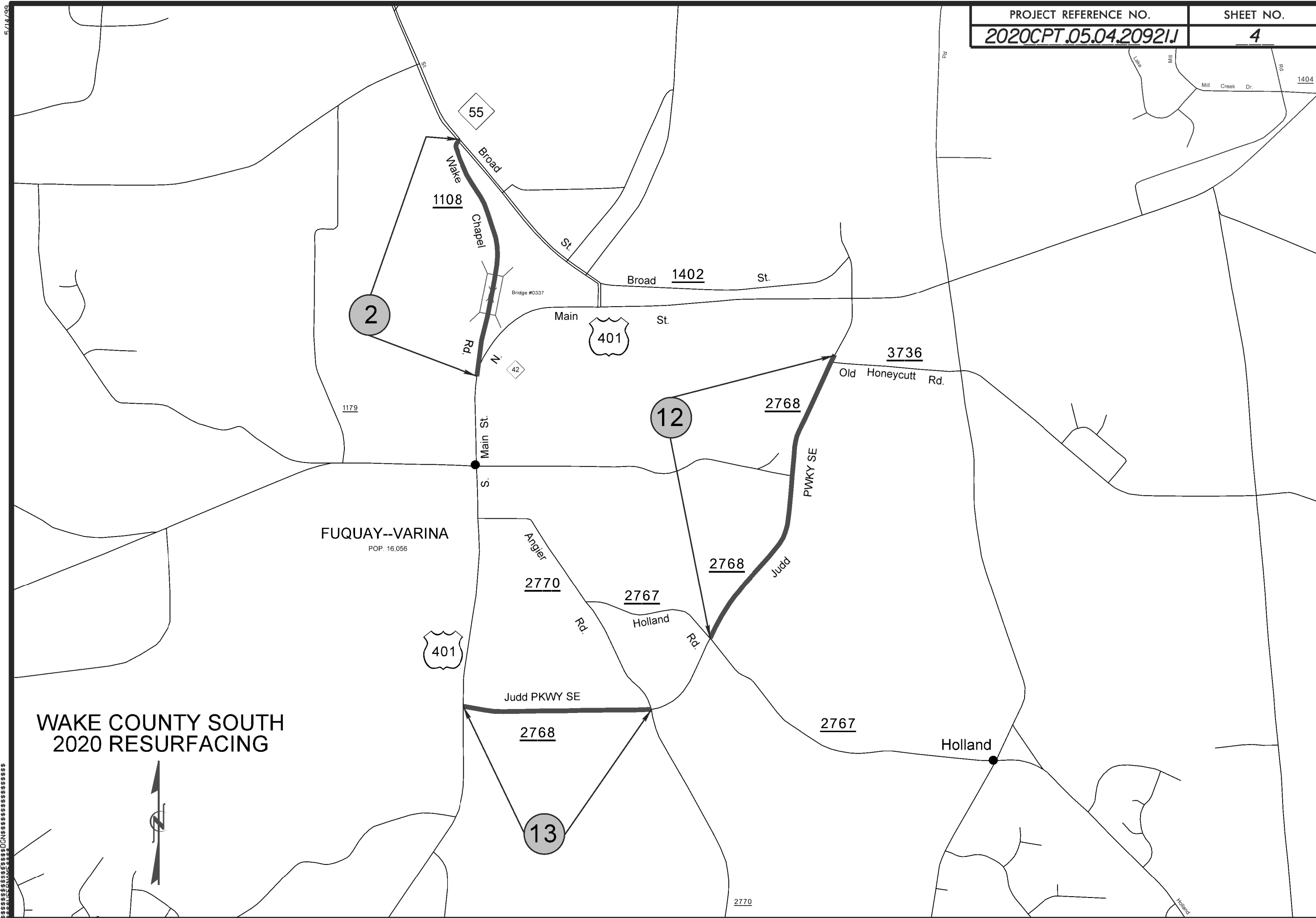


5/14/20
SYSTEMS
DGN
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WAKE COUNTY SOUTH
2020 RESURFACING





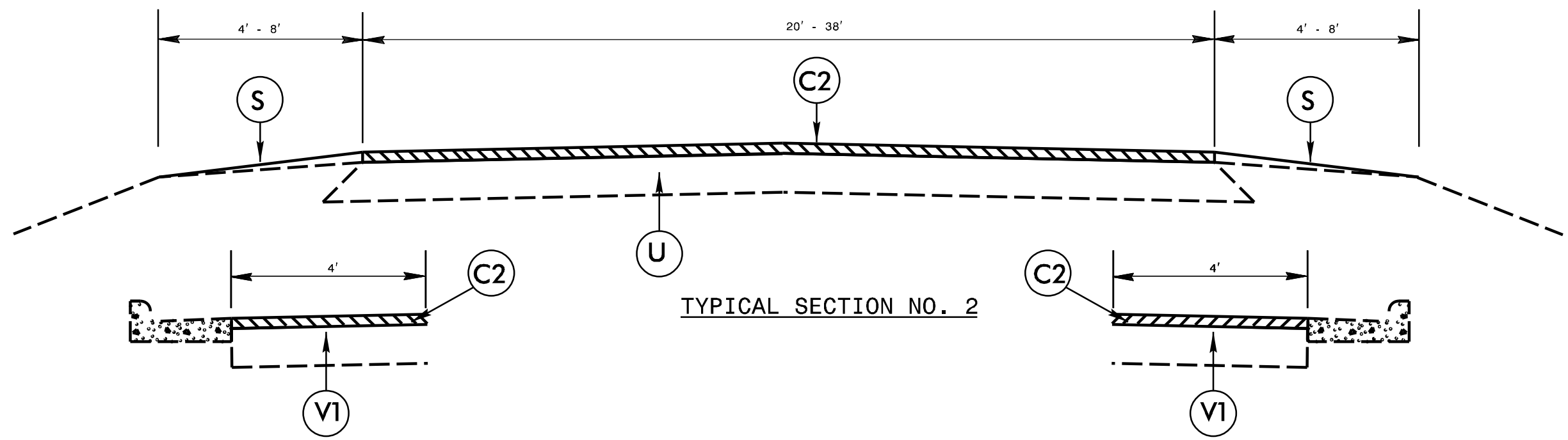
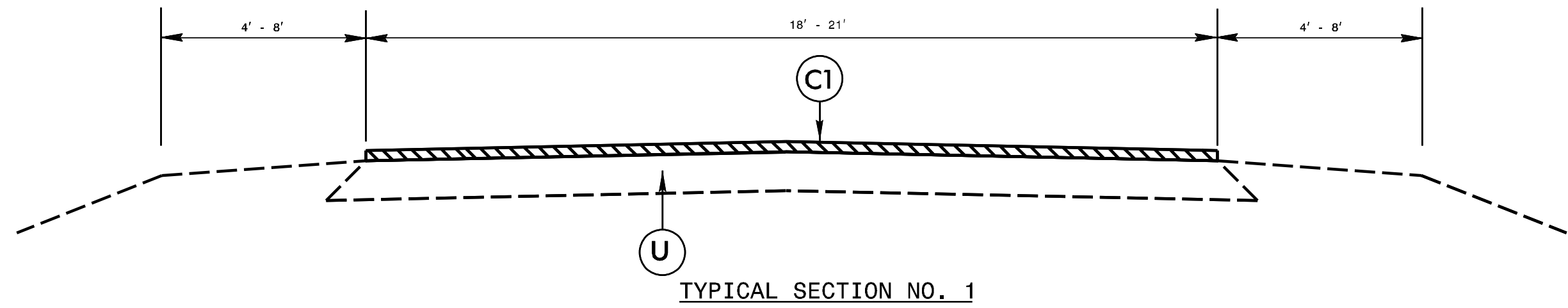
**WAKE COUNTY SOUTH
2020 RESURFACING**



5/14/20

PAVEMENT SCHEDULE

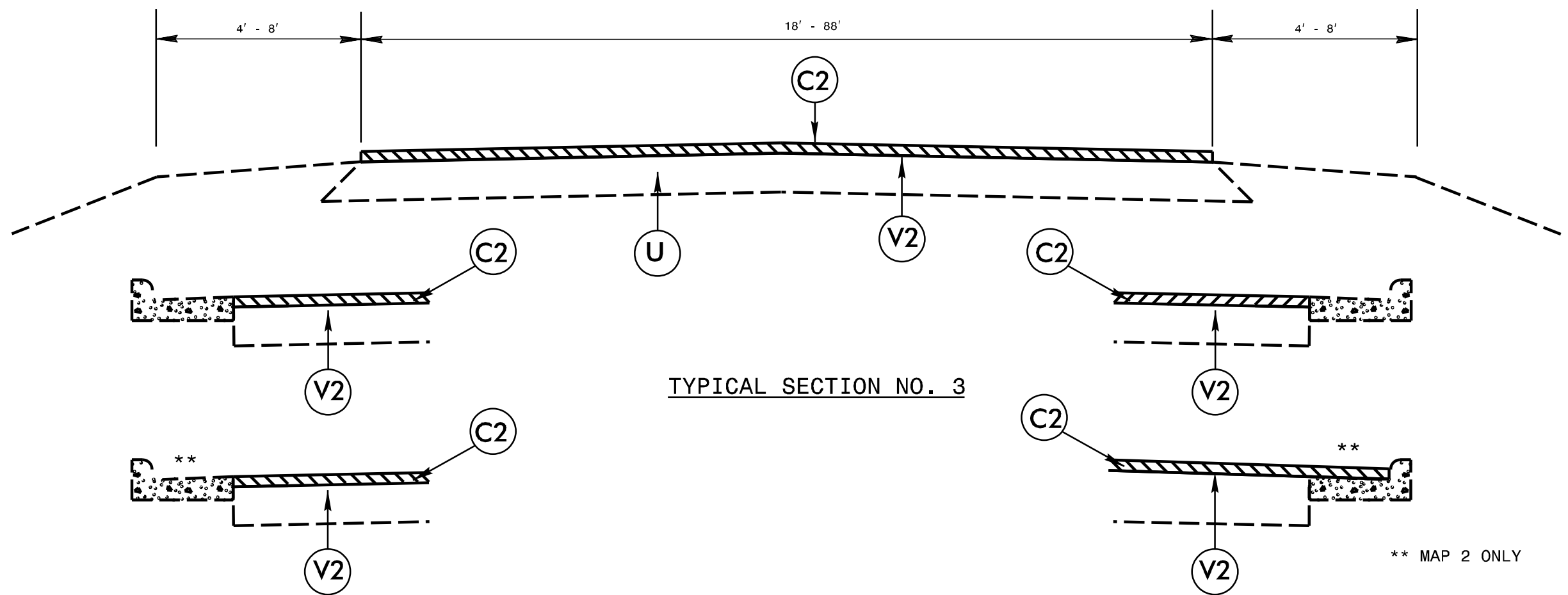
	V2	1½" MILLING
C1	S	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	U	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
V1		0" - 1½" MILLING
	S	SHOULDER GRADING, ASB REQUIRED (EXCEPT IN RESIDENTIAL AREAS)
	U	EXISTING PAVEMENT



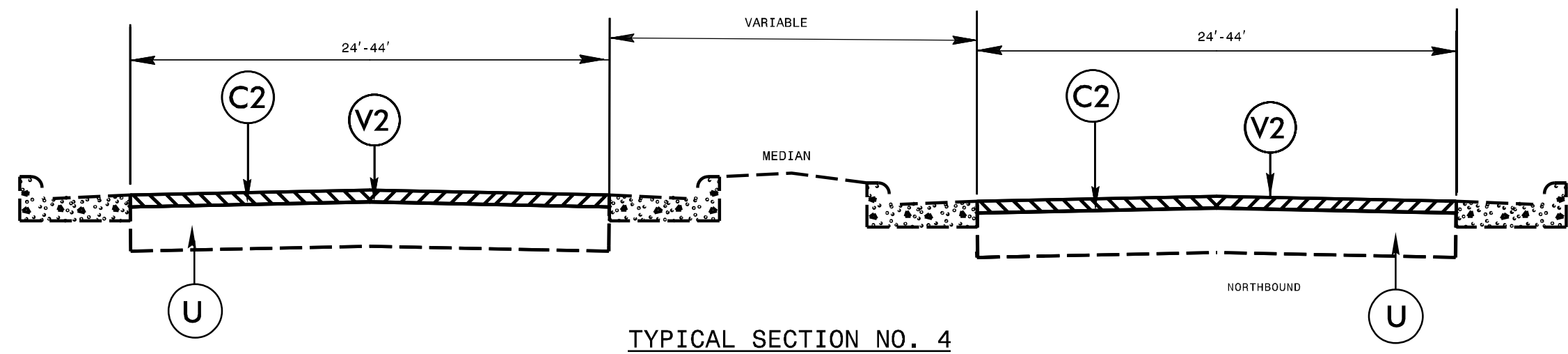
PAVEMENT SCHEDULE

		V2	1½" MILLING
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	S	SHOULDER GRADING, ASB REQUIRED (EXCEPT IN RESIDENTIAL AREAS)
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
V1	0" - 1½" MILLING		

PROJECT REFERENCE NO.	SHEET NO.
2020CPT.05.04.20921!	9



** MAP 2 ONLY



NORTHBOUND

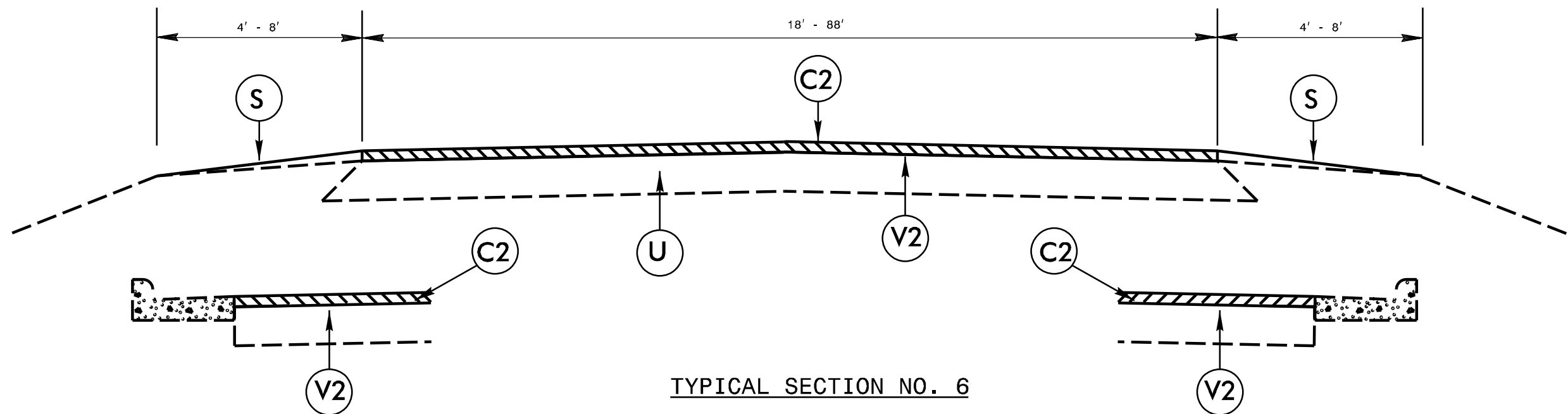
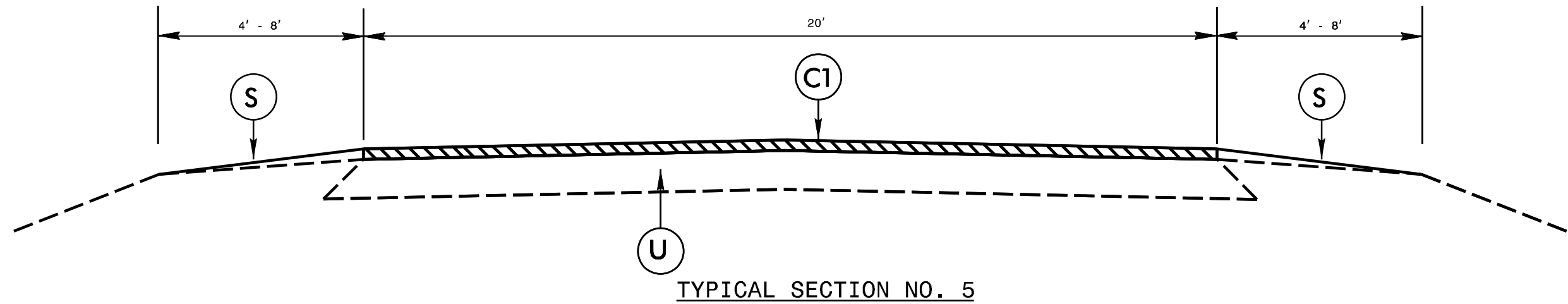
TYPICAL SECTION NO. 4

PAVEMENT SCHEDULE

		V2	1½" MILLING
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	S	SHOULDER GRADING, ASB REQUIRED (EXCEPT IN RESIDENTIAL AREAS)
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
V1	0" - 1½" MILLING		

PROJECT REFERENCE NO.
2020CPT.05.04.20921.1

SHEET NO.
10

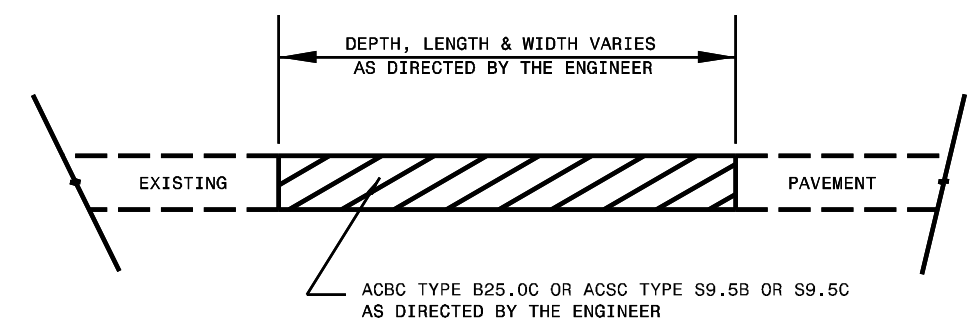
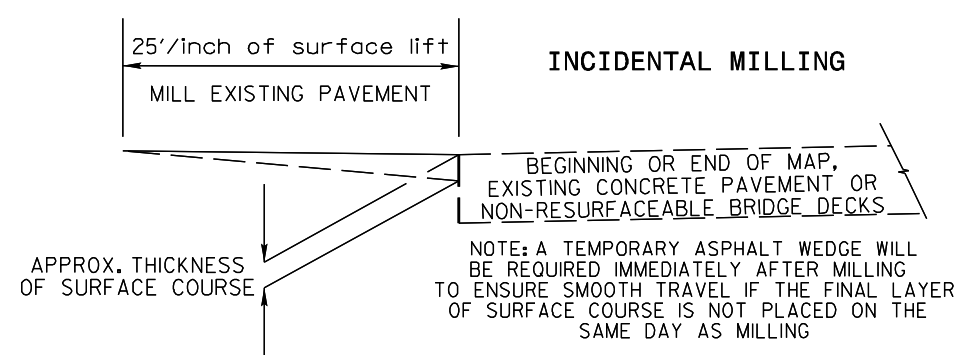


PAVEMENT SCHEDULE		V2	1½" MILLING
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	S	SHOULDER GRADING, ASB REQUIRED (EXCEPT IN RESIDENTIAL AREAS)
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
V1	0"- 1½" MILLING		

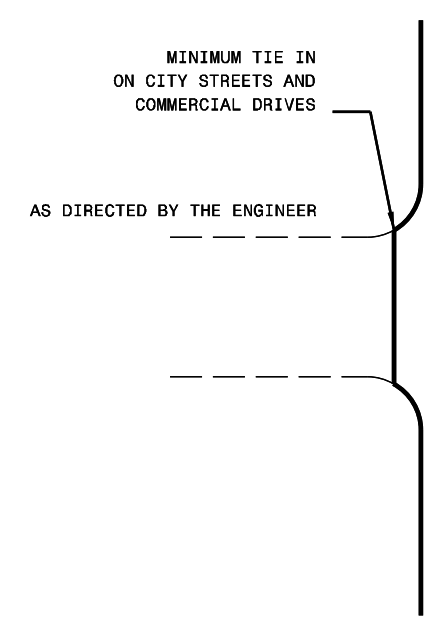
PROJECT REFERENCE NO.	SHEET NO.
2020CPT.05.04.20921.1	11

NOTES

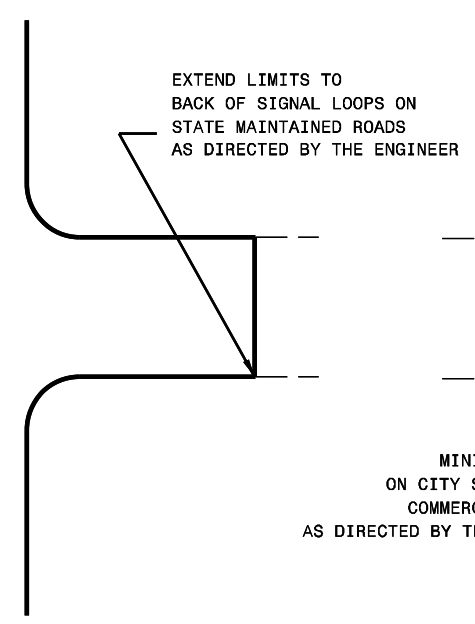
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT
 ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
 EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
 BRIDGES TO BE RESURFACED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



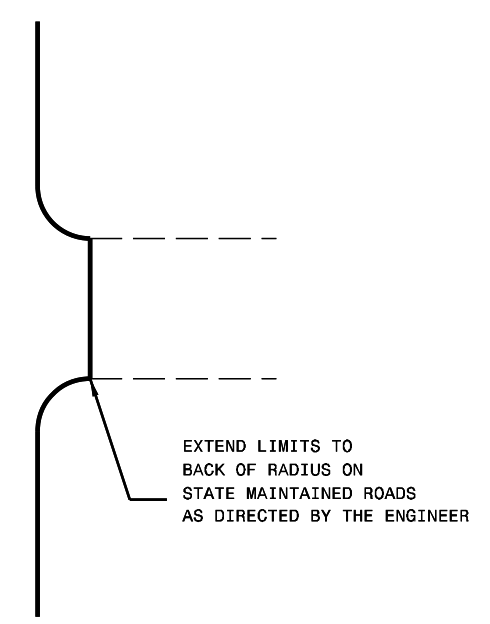
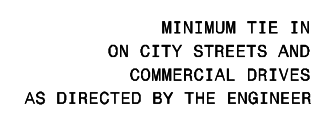
PATCHING EXISTING PAVEMENT
 MILLING TO BE PERFORMED PRIOR TO PATCHING



DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES



PAVEMENT SCHEDULE

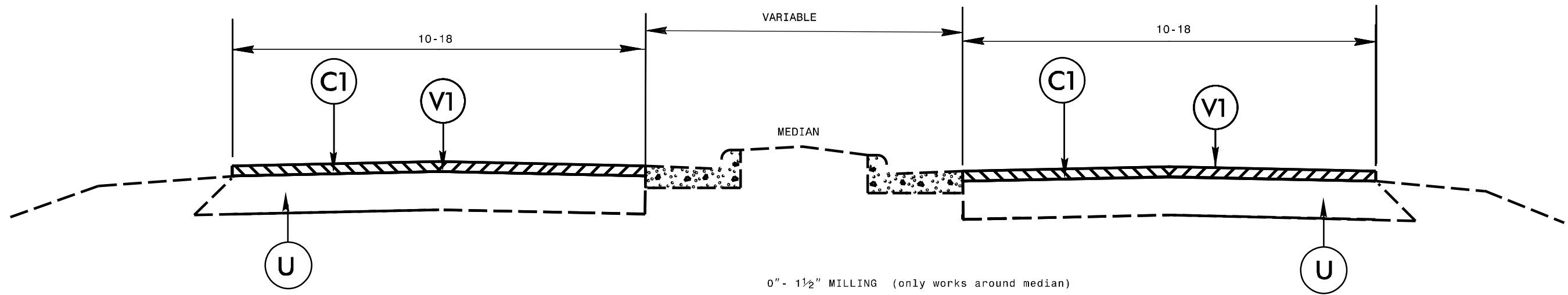
PROJECT REFERENCE NO.

SHEET NO.

2020CPT.05.04.209211

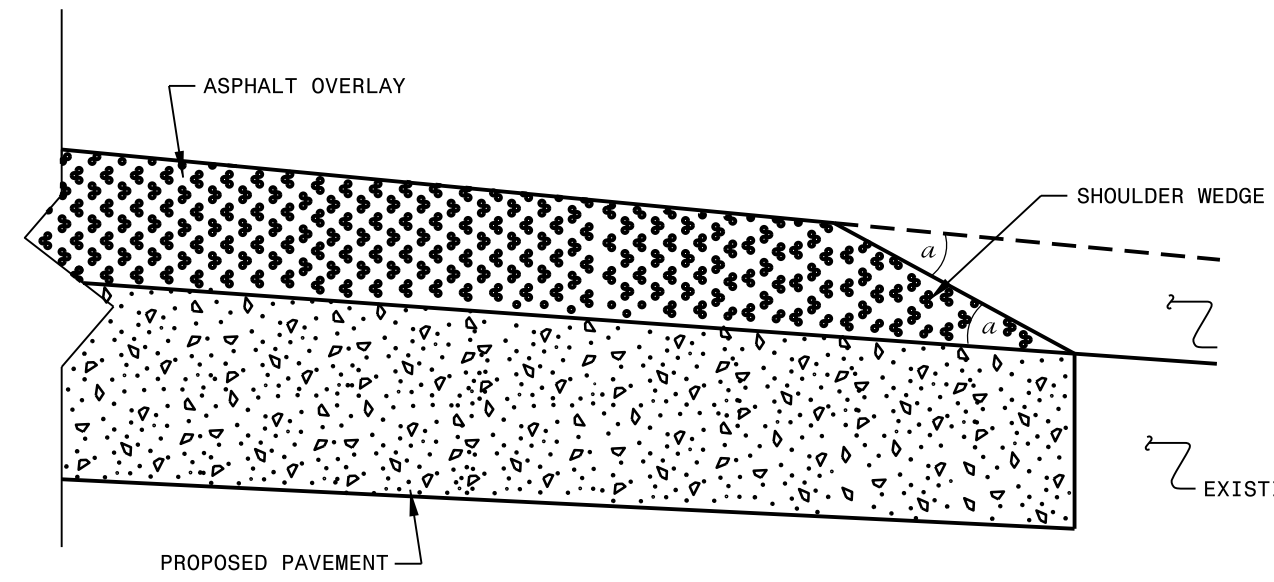
12

C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	S	SHOULDER GRADING, ASB REQUIRED (EXCEPT IN RESIDENTIAL AREAS)
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
V1	0"- 1½" MILLING		

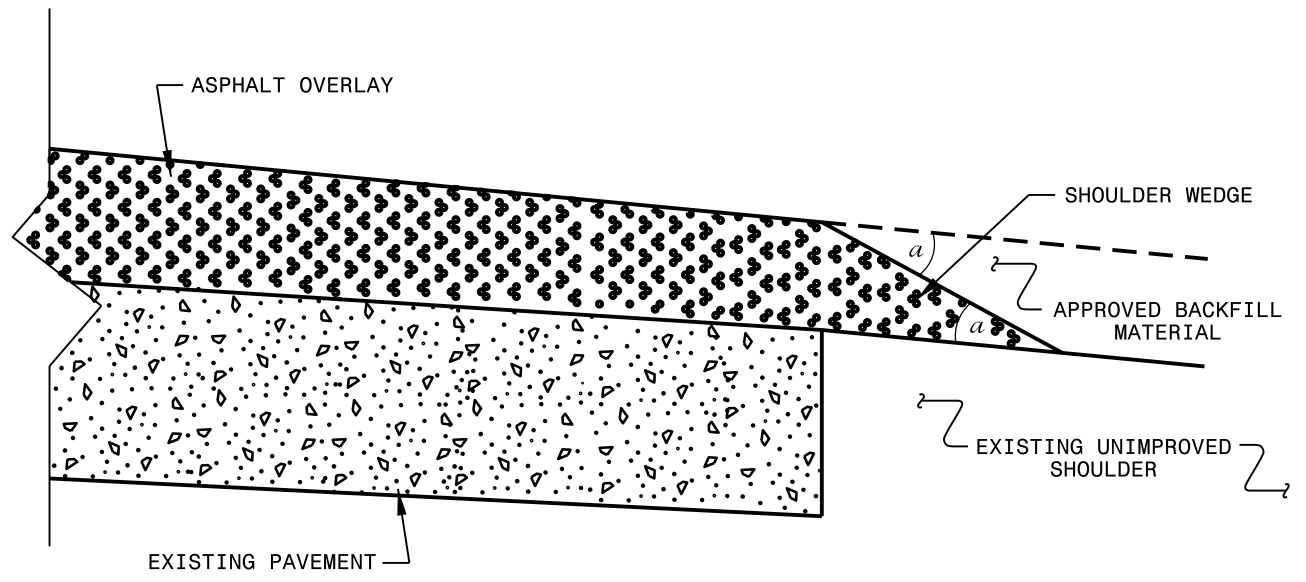


TYPICAL SECTION NO. 7

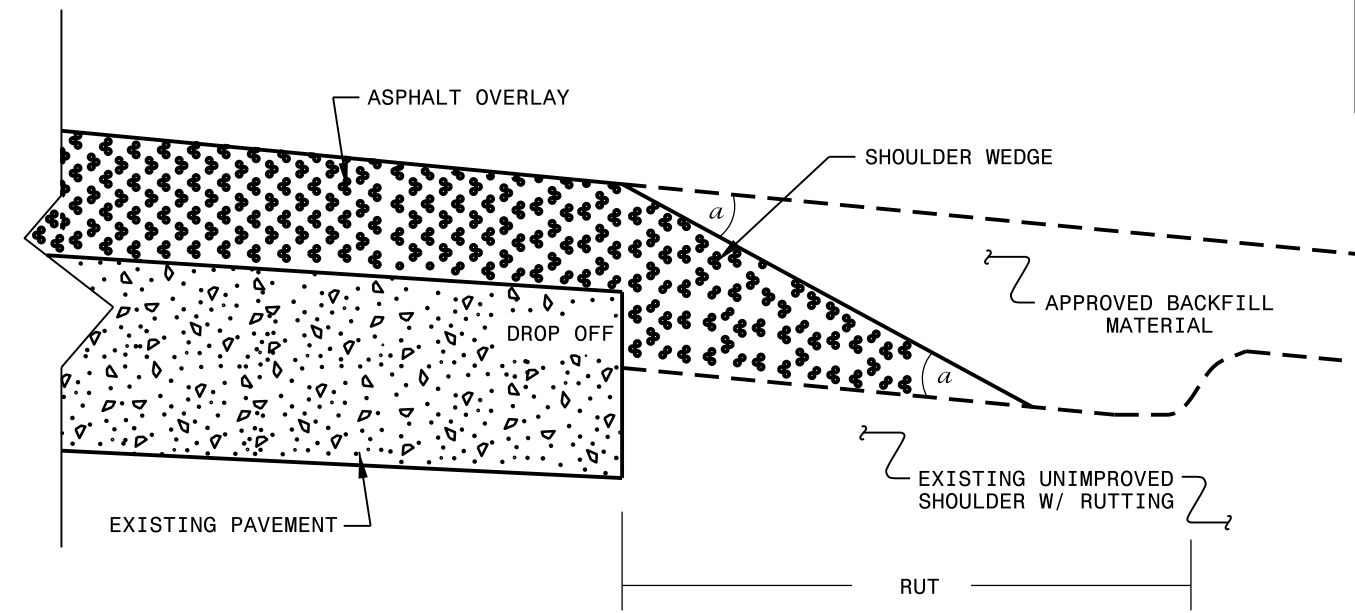
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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 DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- 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.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN CONSULTANTS, INC.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.05.04.20921.1	15	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0264000000-E	1220000000-E	1260000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2752000000-E	2815000000-N	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	7444000000-E
											BORROW	SHOULDER GRADING	INCIDENTAL STONE BASE	AGGREGATE SHOULDER BORROW (ASB)	1 1/2" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, 59.58	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	GENERIC PAVING ITEM, REMOVE AND REPLACE 2'-6" CURB & GUTTER	ADJUST DROP INLET	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	INDUCTIVE LOOP SAWCUT
								MI	FT	CY	SMI	TONS	TON	SY	SY	SY	TONS	TON	TONS	LF	EA	EA	EA	LF	LF	AC	LF	
		1	SR 1009 - TRYON RD	SR 1418 - OLIVE RD TO SR 1371 - LAKE WHEELER RD (INCLUDE INTERSECTION)	3&4	4	NO	NO	2.40	24					80,770		8,286	7,714	517	45			3	6				3,072
		2	SR 1108 - WAKE CHAPEL RD	US 401 - N MAIN ST TO NC 55 - BROAD ST	3	3	NO	NO	0.73	32			12		13,705		993	1,277	86	75	10	1						246
		3	SR 1116 - CASS HOLT RD	SR 1115 - AVENT FERRY RD TO END OF PAVEMENT	2	2	NO	NO	4.45	20	89	8.90	214	658		775	1,884	4,982	334	643					129	330	1.29	
		4	SR 1127 - NEW HILL HOLLEMAN RD	SR 1130 - BARTLEY HOLLEMAN RD TO SR 1011 - OLD US ONE HWY TO SR 1011 - OLD US ONE HWY TO CHATHAM CO	2	2	NO	NO	4.83	23	145	9.66	242	625			2,181	5,791	388	2,000					211	530	2.11	
		5	SR 1141 - NEW HILL OLIVE CHAPEL RD	SR 1152 - HOLLY SPRINGS RD TO SR 1390 - OPTIMIST FARM RD	2	2	NO	NO	3.31	24	83	6.62	166	459			895	4,486	301	975					120	310	1.20	
		6	SR 1389 - PIERCE-OLIVE RD	SR 1301 - SUNSET LAKE RD TO SR 1404 - JOHNSON POND RD	3	2	NO	NO	1.53	20		3.06	86		20,064		276	1,764	118	280								
		7	SR 1407 - WHITTED RD	SR 1407 - WHITTED RD TO SR 1597 - BROOKSHIRE DR	3	2	NO	NO	1.16	21			58		14,291		294	1,263	85	170								
		8	SR 1596 - KENSINGTON DR	SR 1596 - KENSINGTON DR TO SR 1598 - WILSHIRE DR	1	2	NO	NO	0.54	20			27				211	381	26	60								
		9	SR 1597 - BROOKSHIRE DR	SR 1596 - KENSINGTON DR TO SR 1597 - BROOKSHIRE DR	1	2	NO	NO	0.13	20			7				165	88	6	24								
		10	SR 1598 - WILSHIRE DR	SR 1597 - BROOKSHIRE DR TO SR 1597 - BROOKSHIRE DR	1	2	NO	NO	0.29	20			15				117	197	13	60								
		11	SR 2731 - JORDAN RD	DEAD END TO SR 2727 - SAULS RD	2	2	NO	NO	3.84	20	115	7.68	192	497			2,322	4,114	276	95					168	420	1.68	
		12	SR 2768 - JUDD PKWY SE	SR 2767 - HOLLAND RD TO SR 3736 - OLD HONEYCUTT RD	3	2	NO	NO	0.95	33			24		22,718		747	2,039	137	75								1,062
		13	SR 2768 - JUDD PKWY SE	US 401 - S MAIN ST TO SR 2770 - ANGLIER RD	3	2	NO	NO	0.58	28			29		11,433		257	1,016	68	100								216
		14	SR 2878 - LITTLE CREEK DR	SR 2736 - ROCK SERVICE STATION RD TO DEAD END	3	2	NO	NO	0.27	20			14		3,994			348	23	6								
		15	SR 3733 - ADAMS DR	SR 2878 - LITTLE CREEK DR TO CUL-DE-SAC	3	2	NO	NO	0.15	20			8		2,178			190	13	12								
		16	SR 3921 - SANCROFT DR	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	NO	NO	0.31	20			16		4,252		34	370	25									
		17	SR 3922 - ASHMILL CT	SR 3921 - SANCROFT DR TO CUL-DE-SAC	3	2	NO	NO	0.08	18			4		1,315			114	8									
		18	SR 3929 - HOLLY RUN RD	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	NO	NO	0.17	18			9		2,075			181	12	4								
		19	SR 3934 - WOODMILL RUN	SR 1300 - KILDAIRE FARM RD TO SR 3937 - ELLINWOOD DR	3	2	NO	NO	0.48	20			24		5,851			510	34	57								
		20	SR 3935 - HUNTCLIFF CT	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	NO	NO	0.06	20			3		1,109			96	6									
		21	SR 3936 - HARTWOOD CT	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	NO	NO	0.08	20			4		1,344			117	8									
		22	SR 3937 - ELLINWOOD DR	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	NO	NO	0.42	20			21		5,251			458	31	23								
		23	SR 3938 - SLAYTON DR	SR 1300 - KILDAIRE FARM RD TO SR 3937 - ELLINWOOD DR	3	2	NO	NO	0.10	20			5		1,173			102	7									
		24	SR 3947 - AVIARY CIR	SR 1300 - KILDAIRE FARM RD TO CUL-DE-SAC	3	2	NO	NO	0.06	18			3		843			73	5									
		25	SR 3952 - MUIRFIELD DR	SR 1301 - SUNSET LAKE RD TO SR 3956 - ST ANNES WAY	3	2	NO	NO	1.05	20			53		12,320			1,074	72	95								
		26	SR 3953 - MUIRFIELD DR EXT	SR 3952 - MUIRFIELD DR TO SR 1393 - HILLTOP-NEEDMORE RD	3	2	NO	NO	0.12	20			6		2,018			176	12									
		27	SR 3954 - PRESTNICK PL	SR 3952 - MUIRFIELD DR TO CUL-DE-SAC	3	2	NO	NO	0.09	20			5		1,326			115	8									
		28	SR 3955 - BIRKDALE CT	SR 3952 - MUIRFIELD DR TO CUL-DE-SAC	3	2	NO	NO	0.14	20			7		2,227			194	13									
		29	SR 3956 - ST ANNES WAY	SR 3952 - MUIRFIELD DR TO SR 1421 - OLD MILLS RD	1	2	NO	NO	0.27	20			14				154	193	13	4								
		30	SR 3957 - VARDON CT	SR 3956 - ST ANNES WAY TO CUL-DE-SAC	1	2	NO	NO	0.05	20			3				114	46	3	5								
		31	SR 3958 - BENT WINDS DR	SR 3952 - MUIRFIELD DR TO SR 1407 - WHITTED RD	3	2	NO	NO	0.43	20			22		5,253		84	465	31									
		32	SR 3959 - DORNOCH PL	SR 3958 - BENT WINDS DR TO CUL-DE-SAC	3	2	NO	NO	0.26	18			13		3,186			278	19									
		33	SR 3994 - GUMLEAF DR	SR 3996 - GRAYLING DR TO CUL-DE-SAC	3	2	NO	NO	0.13	18			7		1,727			148	10									
		34	SR 3995 - MILLYORK CT	SR 3996 - GRAYLING DR TO CUL-DE-SAC	3	2	NO	NO	0.04	18			2		711			62	4									
		35	SR 3996 - GRAYLING DR	SR 1300 - KILDAIRE FARM RD TO CUL-DE-SAC	3	2	NO	NO	0.34	20			17		4,549			396	27									
		36	SR 4008 - BROOKSHIRE DR	SR 1301 - SUNSET LAKE RD TO END OF MAINTENANCE	1	2	NO	NO	0.18	18			9				102	110	7	35								
		37	SR 4017 - BROOK CROSS DR	MP 0.175 TO SR 1300 - KILDAIRE FARM RD	6	2	NO	NO	0.46	20	13	0.25	32		5,397			470	32						13	50	0.18	
		38	SR 4019 - WYCKFORD PL	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	NO	NO	0.19	20			10		2,673			233	16	60								
		39	SR 4037 - DAREWOOD CT	SR 3937 - ELLINWOOD DR TO CUL-DE-SAC	3	2	NO	NO	0.05	18			3		876			76	5									
		40	SR 4054 - BECKWYCK DR	SR 1393 - HILLTOP-NEEDMORE RD TO CUL-DE-SAC	3	2	NO	NO	0.60	20			30		7,554			658	44									
		41	SR 4055 - BARBICAN CT	SR 4054 - BECKWYCK DR TO CUL-DE-SAC	3	2	NO	NO	0.04	20			2		838			73	5									
		42	SR 4056 - BELSIZE CT	SR 4054 - BECKWYCK DR TO CUL-DE-SAC	3	2	NO	NO	0.06	20			3		1,007			88	6									
		43	SR 4722 - BROOKWATER PL	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	NO	NO	0.26	20			13		3,421			298	20	19								
		44	SR 4723 - BRIARHURST WAY	SR 4722 - BROOKWATER PL TO SR 3996 - GRAYLING DR	3	2	NO	NO	0.30	20			15		3,520			307	21	8								

2020CPT.05.04.20921.1

Wake

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	0264000000-E	1220000000-E	1260000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2752000000-E	2815000000-N	2830000000-N	2845000000-N	6000000000-E	6071010000-E	6084000000-E	7444000000-E			
											BORROW	SHOULDER GRADING	INCIDENTAL STONE BASE	AGGREGATE SHOULDER BORROW (ASB)	1 1/2" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	GENERIC PAVING ITEM, REMOVE AND REPLACE 2'-6" CURB & GUTTER	ADJUST DROP INLET	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TEMPORARY SILT FENCE	WATTLE	SEED & MULCHING	INDUCTIVE LOOP SAWCUT			
											MI	FT	CY	SMI	TONS	TON	SY	SY	SY	TONS	TON	TONS	LF	EA	EA	EA	LF	LF	AC	LF	
		45	SR 4725 - BENTWILLOW DR	SR 1404 - JOHNSON POND RD TO CUL-DE-SAC	3	2	NO	NO	0.72	18			36		8,347		414	763	51												
		46	SR 4726 - DAMASK CT	SR 4725 - BENTWILLOW DR TO CUL-DE-SAC	1	2	NO	NO	0.05	18			3					47	3	28											
		47	SR 4727 - DOULTON LN	SR 4725 - BENTWILLOW DR TO CUL-DE-SAC	1	2	NO	NO	0.28	18			14					184	12	45											
		48	SR 4728 - STEUBEN PL	SR 4727 - DOULTON LN TO CUL-DE-SAC	1	2	NO	NO	0.05	18			3					49	3	12											
		49	SR 4729 - KENTLAND LN	SR 4725 - BENTWILLOW DR TO CUL-DE-SAC	1	2	NO	NO	0.22	18			11					149	10	25											
		50	SR 4730 - HERDER PL	SR 4729 - KENTLAND LN TO CUL-DE-SAC	1	2	NO	NO	0.04	18			2					32	2	7											
		51	SR 4731 - SHIMBERG PL	SR 4729 - KENTLAND LN TO CUL-DE-SAC	1	2	NO	NO	0.06	18			3					60	4	5											
		52	SR 4732 - HEREZ PL	SR 4727 - DOULTON LN TO CUL-DE-SAC	1	2	NO	NO	0.04	21			2					49	3	3											
		53	SR 4733 - BRITON PL	SR 4725 - BENTWILLOW DR TO DEAD END	1	2	NO	NO	0.21	21			11					150	10	20											
		54	SR 4734 - BROZAK DR	SR 4725 - BENTWILLOW DR TO SR 1404 - JOHNSON POND RD	5	2	NO	NO	0.25	20	6	0.13	13					182	12	30				9	30	0.09					
		55	SR 4735 - WOLCOTT CT	SR 4734 - BROZAK DR TO END OF MAINTENANCE	1	2	NO	NO	0.03	20			2					25	2	82											
		56	SR 4738 - BOSTWYCK DR	SR 4054 - BECKWYCK DR TO PVMT CHG	3	2	NO	NO	0.14	20			7		1,710			135	9												
		57	SR 4745 - ROYAL ST GEORGE LN	SR 1393 - HILLTOP-NEEDMORE RD TO CUL-DE-SAC	3	2	NO	NO	0.09	20			5		1,056			92	6												
		58	SR 4791 - BUNTLIN TRL	SR 4793 - STILLBREEZE DR TO SR 4792 - ROBINCREST CT	3	2	NO	NO	0.12	18			6		1,267			111	7												
		59	SR 4792 - ROBINCREST CT	SR 1407 - WHITTED RD TO CUL-DE-SAC	3	2	NO	NO	0.35	18			18		4,109			358	24	4											
		60	SR 4793 - STILLBREEZE DR	SR 1407 - WHITTED RD TO CUL-DE-SAC	1	2	NO	NO	0.44	19			22					303	20	40											
		61	SR 4794 - FERRINGTON CT	SR 4017 - BROOK CROSS DR TO CUL-DE-SAC	6	2	NO	NO	0.05	18	1	0.01	3		840			73	5	3				1	10	0.01					
		62	SR 4795 - SUMMER RIDGE CT	SR 4017 - BROOK CROSS DR TO CUL-DE-SAC	6	2	NO	NO	0.22	18	4	0.09	11		2,665			232	16	5				6	20	0.06					
		63	SR 4796 - MORNING MIST CT	SR 4795 - SUMMER RIDGE CT TO CUL-DE-SAC	6	2	NO	NO	0.07	18	1	0.03	4		1,148			100	7					2	10	0.02					
		64	SR 4797 - DAYSPRINGS CT	SR 4017 - BROOK CROSS DR TO CUL-DE-SAC	6	2	NO	NO	0.07	18	0	0.01	4		1,113			97	6	4				1	10	0.01					
		65	SR 5007 - BRACKENRIDGE LN	SR 1301 - SUNSET LAKE RD TO BEGIN C&G	3	2	NO	NO	1.97	18			99		21,426		253	1,879	126	28											
		66	SR 5008 - LEITHCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	NO	NO	0.03	18			2		628			55	4												
		67	SR 5009 - ABERCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	NO	NO	0.07	18			4		993			86	6												
		68	SR 5010 - DURGANCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	NO	NO	0.05	18			3		817			71	5												
		69	SR 5011 - DRAYCROFT PL	CUL-DE-SAC TO CUL-DE-SAC	3	2	NO	NO	0.22	18			11		3,231			281	19												
		70	SR 5012 - SCOTCHCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	6	2	NO	NO	0.08	18	2	0.03	4		1,284			112	7					2	10	0.02					
		71	SR 5013 - TARTANCROFT PL	CUL-DE-SAC TO CUL-DE-SAC	6	2	NO	NO	0.13	18	3	0.05	7		2,142			186	12					4	10	0.04					
		72	SR 5014 - HIGHLANDCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	6	2	NO	NO	0.08	18	1	0.02	4		1,180			103	7					2	10	0.02					
		73	SR 5015 - STONEBLUFF LN	SR 5007 - BRACKENRIDGE LN TO SR 5007 - BRACKENRIDGE LN	3	2	NO	NO	0.41	20			21		4,944			431	29	8											
		74	SR 5016 - MULLCROFT PL	SR 5015 - STONEBLUFF LN TO CUL-DE-SAC	3	2	NO	NO	0.02	18			1		528			46	3												
		75	SR 5017 - PERTHCROFT PL	SR 5015 - STONEBLUFF LN TO CUL-DE-SAC	6	2	NO	NO	0.08	18	2	0.03	4		1,330			116	8					2	10	0.02					
		76	SR 5018 - IVERCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	NO	NO	0.04	18			2		943			82	5												
		77	SR 5022 - MIDSTREAM CT	SR 4723 - BRIARHURST WAY TO CUL-DE-SAC	3	2	NO	NO	0.05	18			3		859			75	5												
		78	SR 5023 - THANE CT	SR 3937 - ELLINWOOD DR TO CUL-DE-SAC	3	2	NO	NO	0.05	18			3		867			75	5	7											
		79	SR 5042 - WOODCREST ST	SR 1596 - KENSINGTON DR TO CUL-DE-SAC	1	2	NO	NO	0.13	20			7					105	7	3											
		80	SR 5043 - WHITE MEADOWS DR	SR 1399 - JAMES SLAUGHTER RD TO CUL-DE-SAC	3	2	NO	NO	0.41	20			21		5,251		252	479	32												
		81	SR 5044 - HAWK'S VIEW CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	1	2	NO	NO	0.08	20			4					83	6	6											
		82	SR 5045 - DOVE'S NEST CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	1	2	NO	NO	0.05	20			3					62	4	4											
		83	SR 5046 - BLACK DUCK CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	1	2	NO	NO	0.04	20			2					54	4												
		84	SR 5047 - MALLARD CREEK CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	3	2	NO	NO	0.23	20			12		3,241		194	299	20												
		85	SR 5048 - DUCK HAVEN LN	SR 5049 - WHITE RAIL DR TO CUL-DE-SAC	1	2	NO	NO	0.03	20			2					47	3												
		86	SR 5049 - WHITE RAIL DR	CUL-DE-SAC TO END OF MAINTENANCE	1	2	NO	NO	0.52	20			24				86	385	26	75											
		87	SR 5050 - CEDAR POINT CT	SR 5049 - WHITE RAIL DR TO CUL-DE-SAC	1	2	NO	NO	0.04	20			2					47	3												
		88	SR 5437 - KNIGHTCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	NO	NO	0.08	18			4		1,104			96	6												
		89	SR 5836 - SKYECROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	1	2	NO	NO	0.07	18			3					58	4												
		90	SR 4700 - PERNEY CT	SR 4016 - HOLLYBROOK DR TO SR 1300 - KILDAIRE FARM RD	1&7	2	NO	NO	0.31	20			16			105	169	219	15	30											
		91	SR 4708 - ROLLSBY CT	SR 4700 - PERNEY CT TO CUL-DE-SAC	1	2	NO	NO	0.06	18			3					55	4	6											
TOTAL FOR PROJ NO. 2020CPT.05.04.20921.1									40.81		465	36.57	1,900	2,239	323,992	880	20,484	51,909	3,482	5,410	10	1	3	6	670	1,760	6.75	4,596			

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4820000000-E				4830000000-E		4840000000-N				4845000000-N					4850000000-E	
									8" WHITE PAINT	8" YELLOW PAINT	12" WHITE PAINT	12" YELLOW PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG BUS	PAINT MSG LANE	PAINT MSG ONLY	PAINT MSG RXR	PAINT STR & RT ARROW	PAINT LT ARROW	PAINT STR ARROW	PAINT RT ARROW	PAINT STR & LT ARROW	PAINT LT STR RT ARROW	4" LINE REMOVAL
									LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
		1	SR 1009 - TRYON RD	SR 1418 - OLIVE RD TO SR 1371 - LAKE WHEELER RD (INCLUDE INTERSECTION)	3&4	4	2.40	24	3,244		1,441			1,436	3	4	12		19	61	41	13	1	1	
		2	SR 1108 - WAKE CHAPEL RD	US 401 - N MAIN ST TO NC 55 - BROAD ST	3	3	0.73	32	466	78	311		150.00	132			4	3	13	2	2				443
		3	SR 1116 - CASS HOLT RD	SR 1115 - AVENT FERRY RD TO END OF PAVEMENT	2	2	4.45	20																	
		4	SR 1127 - NEW HILL HOLLEMAN RD	SR 1115 - AVENT FERRY RD TO SR 1011 - OLD US ONE HWY	2	2	4.83	23																	1,282
		5	SR 1141 - NEW HILL OLIVE CHAPEL RD	CHATHAM CO	2	2	3.31	24																	
		6	SR 1389 - PIERCE-OLIVE RD	SR 1152 - HOLLY SPRINGS RD TO SR 1390 - OPTIMIST FARM RD SKIPPING PROJECT R-2721A	3	2	1.53	20			247								2						
		7	SR 1407 - WHITTED RD	SR 1301 - SUNSET LAKE RD TO SR 1404 - JOHNSON POND RD	3	2	1.16	21																	
		8	SR 1596 - KENSINGTON DR	SR 1407 - WHITTED RD TO SR 1597 - BROOKSHIRE DR	1	2	0.54	20																	
		9	SR 1597 - BROOKSHIRE DR	SR 1596 - KENSINGTON DR TO SR 1598 - WILSHIRE DR	1	2	0.13	20																	
		10	SR 1598 - WILSHIRE DR	SR 1596 - KENSINGTON DR TO SR 1597 - BROOKSHIRE DR	1	2	0.29	20																	
		11	SR 2731 - JORDAN RD	DEAD END TO SR 2727 - SAULS RD	2	2	3.84	20																	
		12	SR 2768 - JUDD PKWY SE	SR 2767 - HOLLAND RD TO SR 3736 - OLD HONEYCUTT RD	3	2	0.95	33			128	210		92					8	15	11				
		13	SR 2768 - JUDD PKWY SE	US 401 - S MAIN ST TO SR 2770 - ANGLIER RD	3	2	0.58	28			308			24					2	2		1	1		
		14	SR 2878 - LITTLE CREEK DR	SR 2736 - ROCK SERVICE STATION RD TO DEAD END	3	2	0.27	20																	
		15	SR 3733 - ADAMS DR	SR 2878 - LITTLE CREEK DR TO CUL-DE-SAC	3	2	0.15	20																	
		16	SR 3921 - SANCROFT DR	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	0.31	20																	
		17	SR 3922 - ASHMILL CT	SR 3921 - SANCROFT DR TO CUL-DE-SAC	3	2	0.08	18																	
		18	SR 3929 - HOLLY RUN RD	SR 1152 - HOLLY SPRINGS RD TO CUL-DE-SAC	3	2	0.17	18																	
		19	SR 3934 - WOODMILL RUN	SR 1300 - KILDAIRE FARM RD TO SR 3937 - ELLINWOOD DR	3	2	0.48	20																	
		20	SR 3935 - HUNTCLIFF CT	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	0.06	20																	
		21	SR 3936 - HARTWOOD CT	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	0.08	20																	
		22	SR 3937 - ELLINWOOD DR	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	0.42	20																	
		23	SR 3938 - SLAYTON DR	SR 1300 - KILDAIRE FARM RD TO SR 3937 - ELLINWOOD DR	3	2	0.10	20																	
		24	SR 3947 - AVIARY CIR	SR 1300 - KILDAIRE FARM RD TO CUL-DE-SAC	3	2	0.06	18																	
		25	SR 3952 - MUIRFIELD DR	SR 1301 - SUNSET LAKE RD TO SR 3956 - ST ANNES WAY	3	2	1.05	20																	
		26	SR 3953 - MUIRFIELD DR EXT	SR 3952 - MUIRFIELD DR TO SR 1393 - HILLTOP-NEEDMORE RD	3	2	0.12	20																	
		27	SR 3954 - PRESTNICK PL	SR 3952 - MUIRFIELD DR TO CUL-DE-SAC	3	2	0.09	20																	
		28	SR 3955 - BIRKDALE CT	SR 3952 - MUIRFIELD DR TO CUL-DE-SAC	3	2	0.14	20																	
		29	SR 3956 - ST ANNES WAY	SR 3952 - MUIRFIELD DR TO SR 1421 - OLD MILLS RD	1	2	0.27	20																	
		30	SR 3957 - VARDON CT	SR 3956 - ST ANNES WAY TO CUL-DE-SAC	1	2	0.05	20																	
		31	SR 3958 - BENT WINDS DR	SR 3952 - MUIRFIELD DR TO SR 1407 - WHITTED RD	3	2	0.43	20																	
		32	SR 3959 - DORNOCH PL	SR 3958 - BENT WINDS DR TO CUL-DE-SAC	3	2	0.26	18																	
		33	SR 3994 - GUMLEAF DR	SR 3996 - GRAYLING DR TO CUL-DE-SAC	3	2	0.13	18																	
		34	SR 3995 - MILLYORK CT	SR 3996 - GRAYLING DR TO CUL-DE-SAC	3	2	0.04	18																	
		35	SR 3996 - GRAYLING DR	SR 1300 - KILDAIRE FARM RD TO CUL-DE-SAC	3	2	0.34	20																	
		36	SR 4008 - BROOKSHIRE DR	SR 1301 - SUNSET LAKE RD TO END OF MAINTENANCE	1	2	0.18	18																	
		37	SR 4017 - BROOK CROSS DR	MP 0.175 TO SR 1300 - KILDAIRE FARM RD	6	2	0.46	20																	
		38	SR 4019 - WYCKFORD PL	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	0.19	20																	
		39	SR 4037 - DAREWOOD CT	SR 3937 - ELLINWOOD DR TO CUL-DE-SAC	3	2	0.05	18																	
		40	SR 4054 - BECKWYCK DR	SR 1393 - HILLTOP-NEEDMORE RD TO CUL-DE-SAC	3	2	0.60	20																	
		41	SR 4055 - BARBICAN CT	SR 4054 - BECKWYCK DR TO CUL-DE-SAC	3	2	0.04	20																	
		42	SR 4056 - BELSIZE CT	SR 4054 - BECKWYCK DR TO CUL-DE-SAC	3	2	0.06	20																	
		43	SR 4722 - BROOKEWATER PL	SR 3934 - WOODMILL RUN TO CUL-DE-SAC	3	2	0.26	20																	
		44	SR 4723 - BRIARHURST WAY	SR 4722 - BROOKEWATER PL TO SR 3996 - GRAYLING DR	3	2	0.30	20																	
		45	SR 4725 - BENTWILLOW DR	SR 1404 - JOHNSON POND RD TO CUL-DE-SAC	3	2	0.72	18																	
		46	SR 4726 - DAMASK CT	SR 4725 - BENTWILLOW DR TO CUL-DE-SAC	1	2	0.05	18																	

2020CPT.05.04.20921.1

Wake

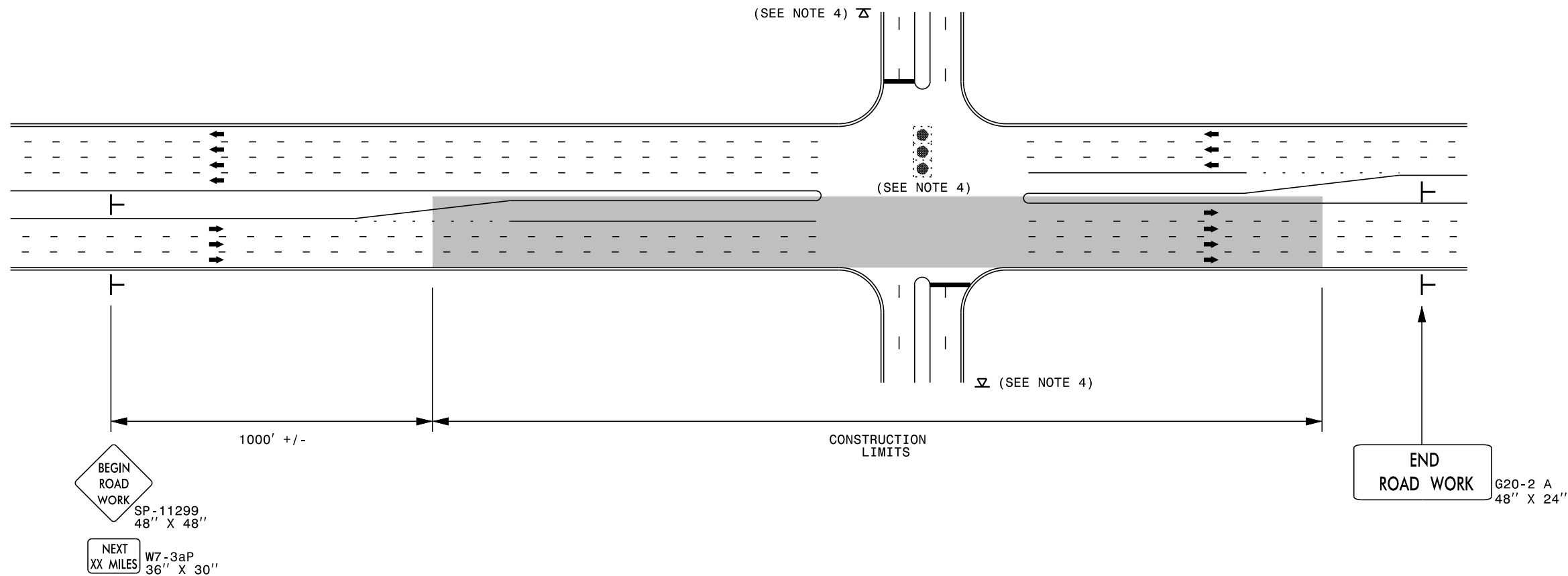
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	482000000-E				482500000-E		483000000-E		483500000-E		484000000-N						484500000-N				485000000-E				
									8"	8"	12"	12"	16" WHITE	24" WHITE	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT	4" LINE
									WHITE	YELLOW	WHITE	YELLOW	PAINT	PAINT	MSG	MSG	MSG	MSG	STR & RT	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	ARROW	REMOVAL
MI	FT	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF								
		47	SR 4727 - DOULTON LN	SR 4725 - BENTWILLOW DR TO CUL-DE-SAC	1	2	0.28	18																									
		48	SR 4728 - STEUBEN PL	SR 4727 - DOULTON LN TO CUL-DE-SAC	1	2	0.05	18																									
		49	SR 4729 - KENTLAND LN	SR 4725 - BENTWILLOW DR TO CUL-DE-SAC	1	2	0.22	18																									
		50	SR 4730 - HERDER PL	SR 4729 - KENTLAND LN TO CUL-DE-SAC	1	2	0.04	18																									
		51	SR 4731 - SHIMBERG PL	SR 4729 - KENTLAND LN TO CUL-DE-SAC	1	2	0.06	18																									
		52	SR 4732 - HEREZ PL	SR 4727 - DOULTON LN TO CUL-DE-SAC	1	2	0.04	21																									
		53	SR 4733 - BRITON PL	SR 4725 - BENTWILLOW DR TO DEAD END	1	2	0.21	21																									
		54	SR 4734 - BROZAK DR	SR 4725 - BENTWILLOW DR TO SR 1404 - JOHNSON POND RD	5	2	0.25	20																									
		55	SR 4735 - WOLCOTT CT	SR 4734 - BROZAK DR TO END OF MAINTENANCE	1	2	0.03	20																									
		56	SR 4738 - BOSTWYCK DR	SR 4054 - BECKWYCK DR TO PVMT CHG	3	2	0.14	20																									
		57	SR 4745 - ROYAL ST GEORGE LN	SR 1393 - HILLTOP-NEEDMORE RD TO CUL-DE-SAC	3	2	0.09	20																									
		58	SR 4791 - BUNTLINE TRL	SR 4793 - STILLBREEZE DR TO SR 4792 - ROBINCREST CT	3	2	0.12	18																									
		59	SR 4792 - ROBINCREST CT	SR 1407 - WHITTED RD TO CUL-DE-SAC	3	2	0.35	18																									
		60	SR 4793 - STILLBREEZE DR	SR 1407 - WHITTED RD TO CUL-DE-SAC	1	2	0.44	19																									
		61	SR 4794 - FERRINGTON CT	SR 4017 - BROOK CROSS DR TO CUL-DE-SAC	6	2	0.05	18																									
		62	SR 4795 - SUMMER RIDGE CT	SR 4017 - BROOK CROSS DR TO CUL-DE-SAC	6	2	0.22	18																									
		63	SR 4796 - MORNING MIST CT	SR 4795 - SUMMER RIDGE CT TO CUL-DE-SAC	6	2	0.07	18																									
		64	SR 4797 - DAYS SPRINGS CT	SR 4017 - BROOK CROSS DR TO CUL-DE-SAC	6	2	0.07	18																									
		65	SR 5007 - BRACKENRIDGE LN	SR 1301 - SUNSET LAKE RD TO BEGIN C&G	3	2	1.97	18																									
		66	SR 5008 - LEITHCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	0.03	18																									
		67	SR 5009 - ABERCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	0.07	18																									
		68	SR 5010 - DURGANCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	0.05	18																									
		69	SR 5011 - DRAYCROFT PL	CUL-DE-SAC TO CUL-DE-SAC	3	2	0.22	18																									
		70	SR 5012 - SCOTCHCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	6	2	0.08	18																									
		71	SR 5013 - TARTANCROFT PL	CUL-DE-SAC TO CUL-DE-SAC	6	2	0.13	18																									
		72	SR 5014 - HIGHLANDCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	6	2	0.08	18																									
		73	SR 5015 - STONEBLUFF LN	SR 5007 - BRACKENRIDGE LN TO SR 5007 - BRACKENRIDGE LN	3	2	0.41	20																									
		74	SR 5016 - MULLCROFT PL	SR 5015 - STONEBLUFF LN TO CUL-DE-SAC	3	2	0.02	18																									
		75	SR 5017 - PERTHCROFT PL	SR 5015 - STONEBLUFF LN TO CUL-DE-SAC	6	2	0.08	18																									
		76	SR 5018 - IVERCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	0.04	18																									
		77	SR 5022 - MIDSTREAM CT	SR 4723 - BRIARHURST WAY TO CUL-DE-SAC	3	2	0.05	18																									
		78	SR 5023 - THANE CT	SR 3937 - ELLINWOOD DR TO CUL-DE-SAC	3	2	0.05	18																									
		79	SR 5042 - WOODCREST ST	SR 1596 - KENSINGTON DR TO CUL-DE-SAC	1	2	0.13	20																									
		80	SR 5043 - WHITE MEADOWS DR	SR 1399 - JAMES SLAUGHTER RD TO CUL-DE-SAC	3	2	0.41	20																									
		81	SR 5044 - HAWK'S VIEW CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	1	2	0.08	20																									
		82	SR 5045 - DOVE'S NEST CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	1	2	0.05	20																									
		83	SR 5046 - BLACK DUCK CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	1	2	0.04	20																									
		84	SR 5047 - MALLARD CREEK CT	SR 5043 - WHITE MEADOWS DR TO CUL-DE-SAC	3	2	0.23	20																									
		85	SR 5048 - DUCK HAVEN LN	SR 5049 - WHITE RAIL DR TO CUL-DE-SAC	1	2	0.03	20																									
		86	SR 5049 - WHITE RAIL DR	CUL-DE-SAC TO END OF MAINTENANCE	1	2	0.52	20																									
		87	SR 5050 - CEDAR POINT CT	SR 5049 - WHITE RAIL DR TO CUL-DE-SAC	1	2	0.04	20																									
		88	SR 5437 - KNIGHTCROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	3	2	0.08	18																									
		89	SR 5836 - SKYECROFT PL	SR 5007 - BRACKENRIDGE LN TO CUL-DE-SAC	1	2	0.07	18																									
		90	SR 4700 - PERNEY CT	SR 4016 - HOLLYBROOK DR TO SR 1300 - KILDALRE FARM RD	1&7	2	0.31	20																									
		91	SR 4708 - ROLLSBY CT	SR 4700 - PERNEY CT TO CUL-DE-SAC	1	2	0.06	18																									
		TOTAL FOR PROJ NO. 2020CPT.05.04.20921.1					40.81		3,710	78	2,188	457	150	1,684	3	4	12	4	32	93	54	16	2	1	1,725								
									3,788		2,645				23				32	93	54	16	2	1	1,725								
		GRAND TOTAL					40.81		3,710	78	2,188	457	150	1,684	3	4	12	4	32	93	54	16	2	1	1,725								
									3,788		2,645				23				32	93	54	16	2	1	1,725								

2020CPT.05.04.20921.1

Wake

URBAN / SUBURBAN WORKZONES



NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 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.

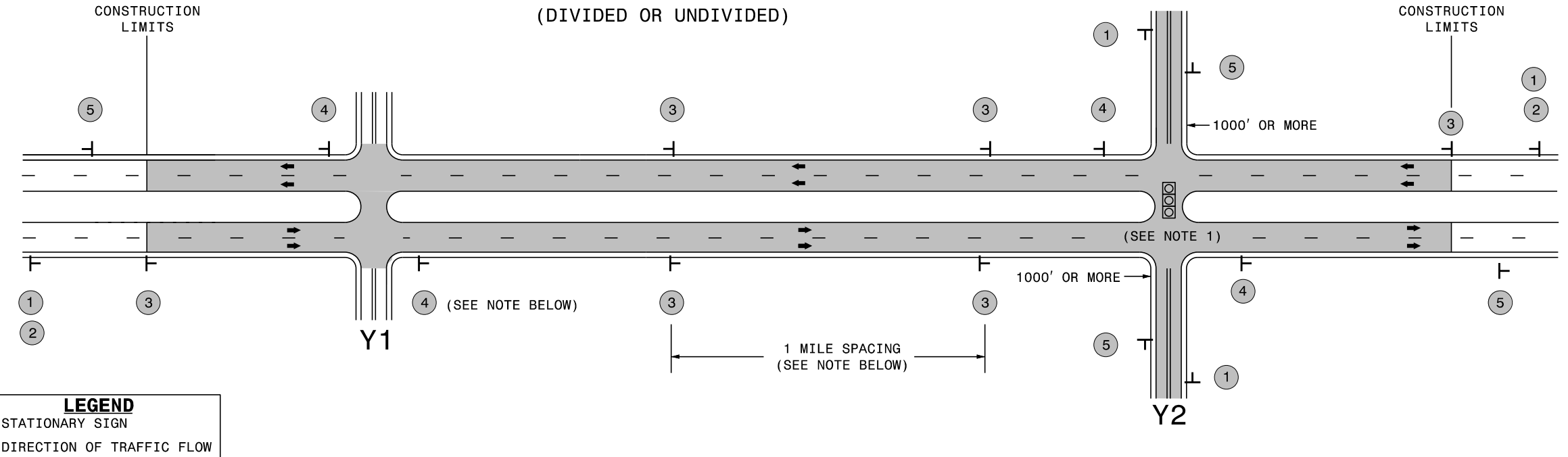
LEGEND

- └ STATIONARY SIGN
- ➔ DIRECTION OF TRAFFIC FLOW



**RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES**

SIGNING FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS WITH SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

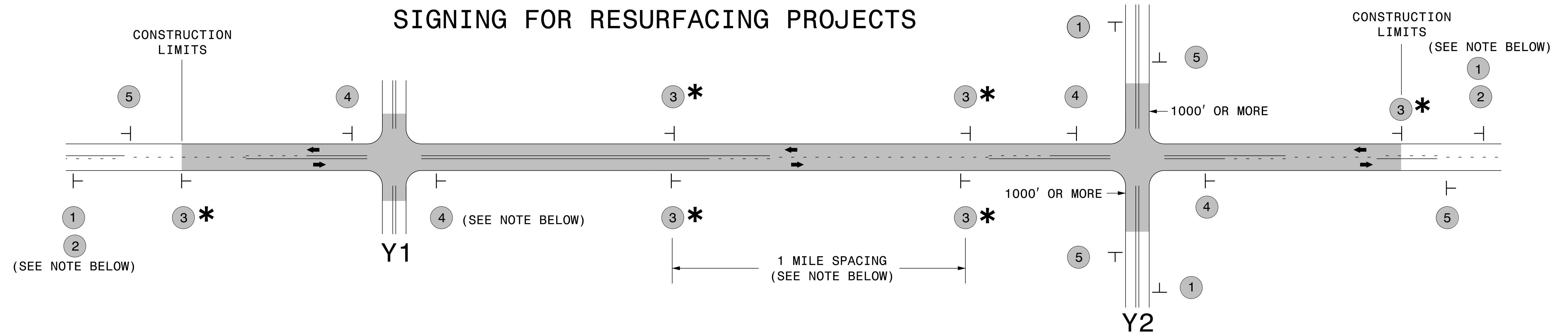
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">1</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">2</div> </div>		<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS
3		<p>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.</p>
4		<p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
5		<p>NOTES:</p> <ol style="list-style-type: none"> 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**

2/24/2014 S:\TMU\WZTC\Resurfacing\2013Documents\New_Procedures_05_09_2013\Resurfacing_AdvWarn_UrSu_Shldr.dgn User:rmgarratt

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

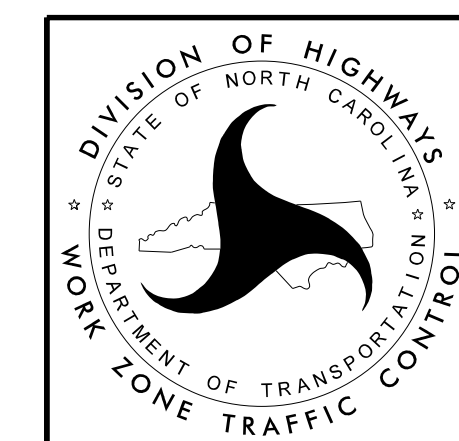
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>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.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3 *	 SP 13107 48" X 48"	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 SP 13106 48" X 48"	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

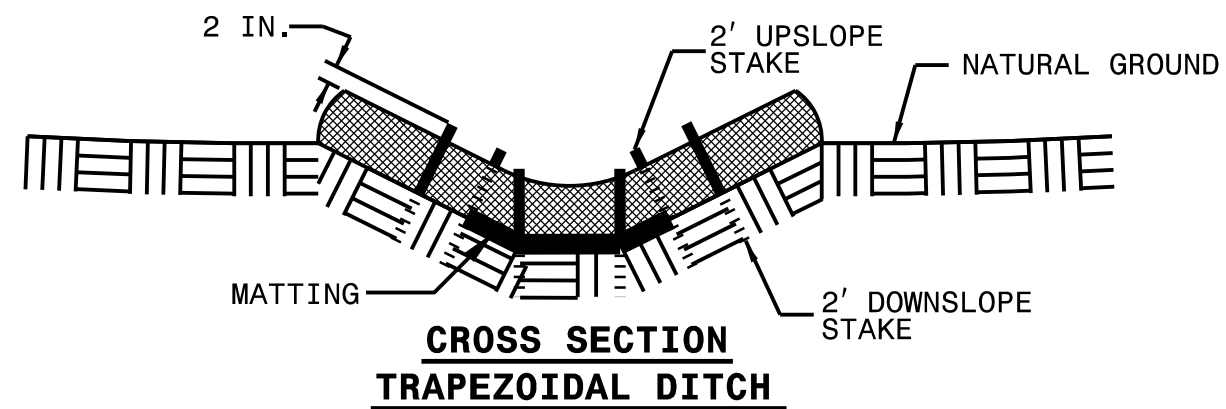
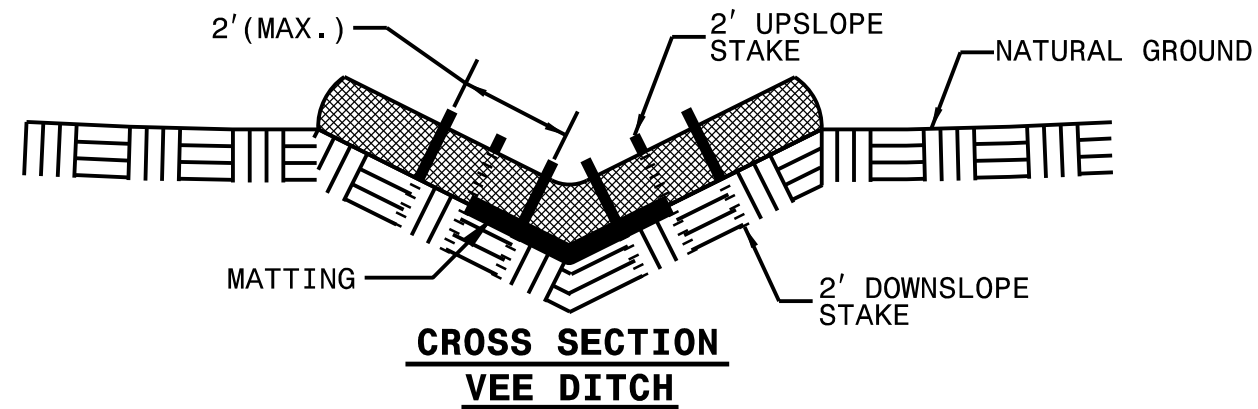
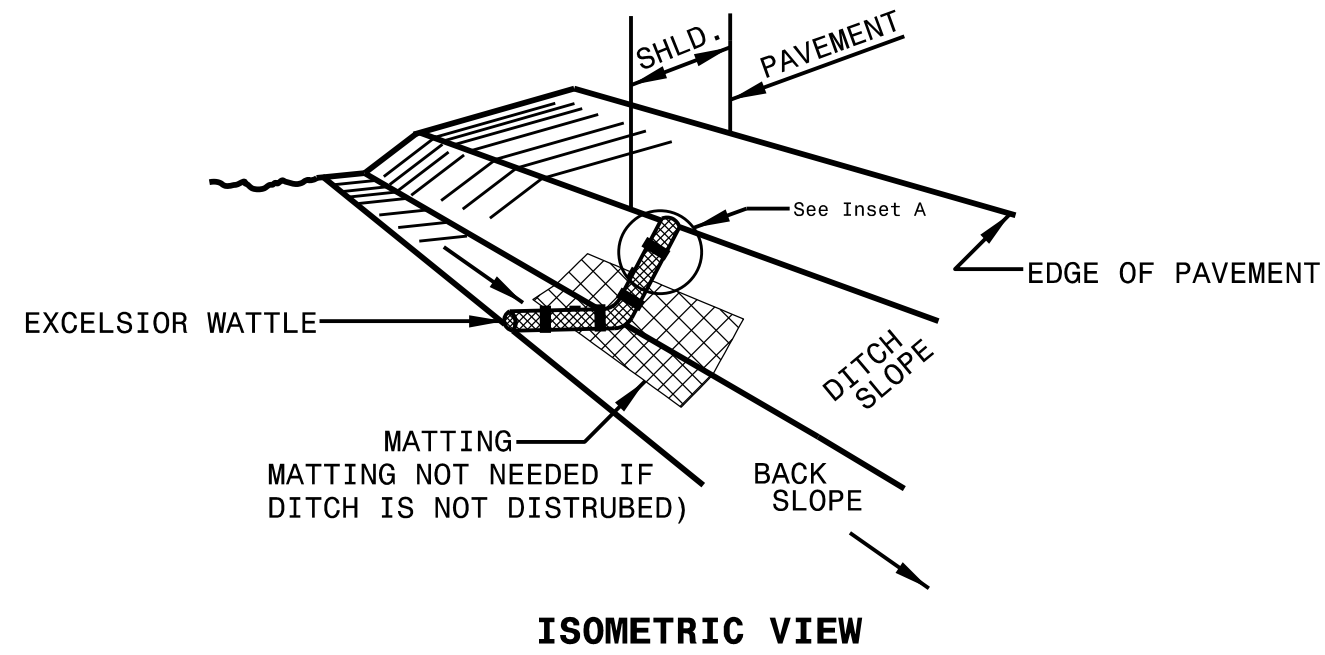
* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

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

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.

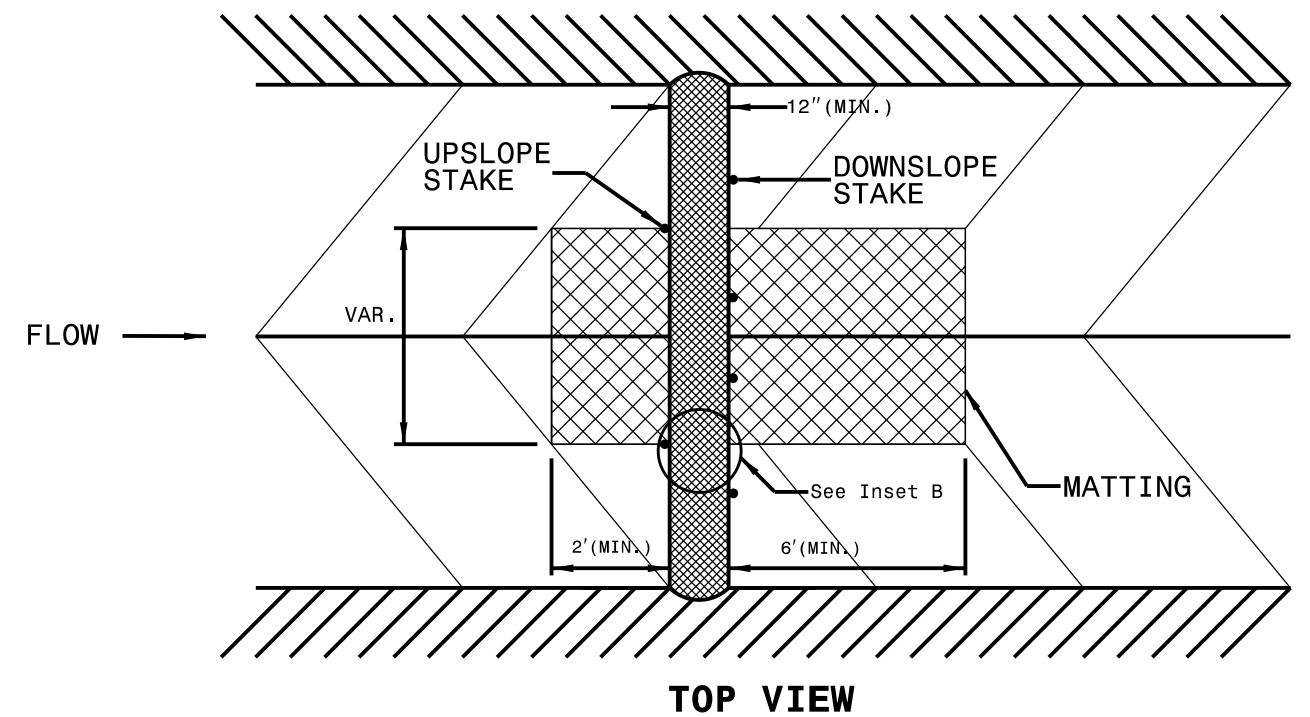
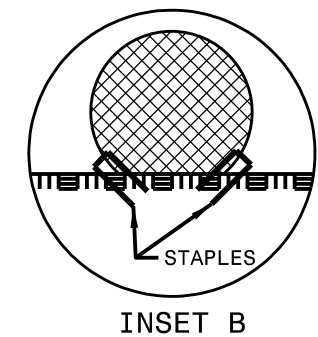
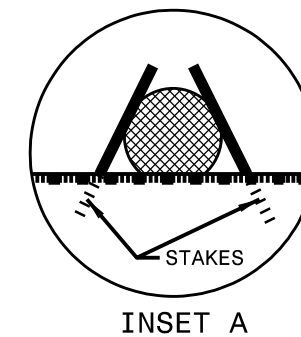
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.

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

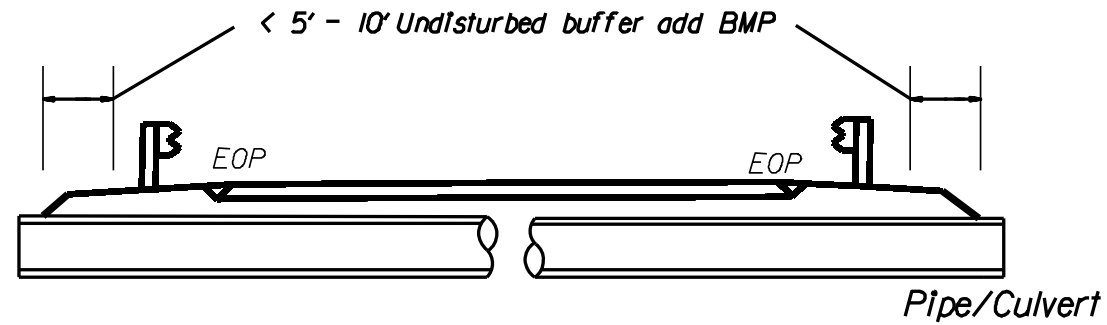


NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

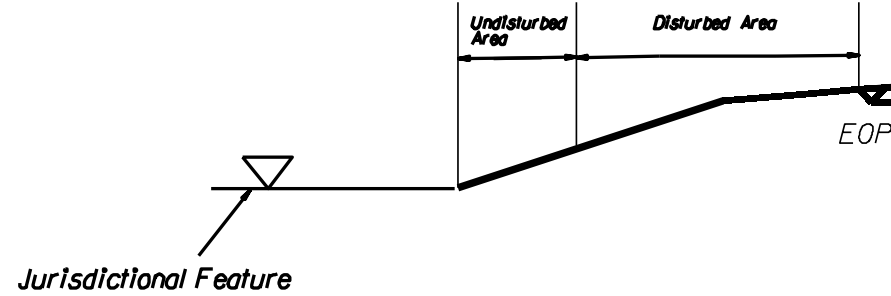
BMP Options: Wattle, Silt Fence, or Hardened Aggregate.

EROSION CONTROL DETAIL

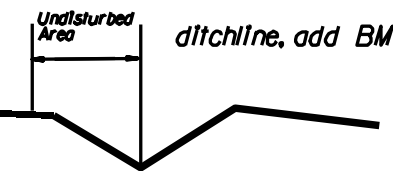
PROJECT REFERENCE NO. 2020CPT.05.04.20921.1	SHEET NO. EC-2
RDW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



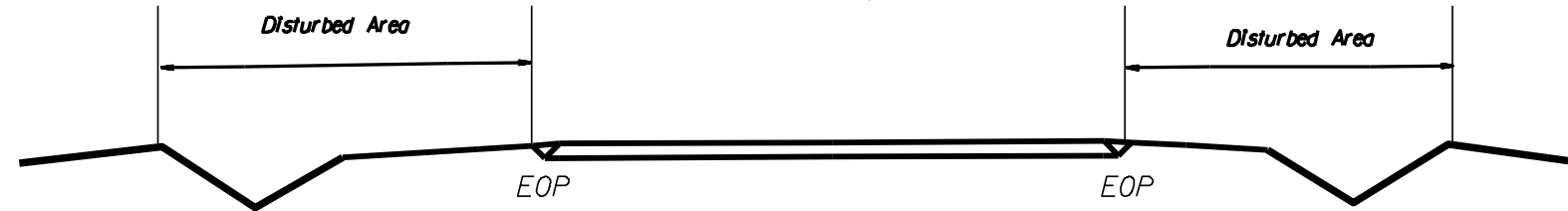
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



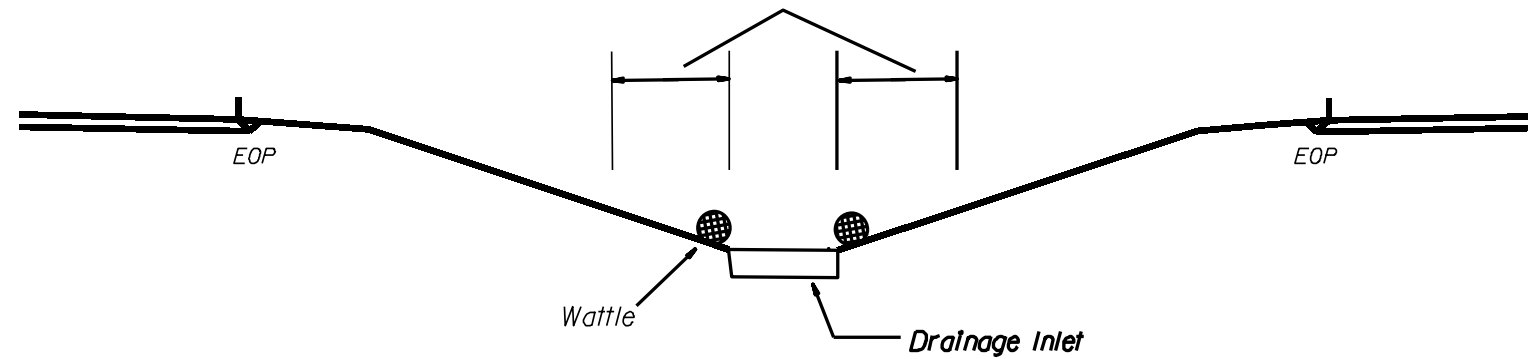
< 5' - 10' Undisturbed buffer from ditchline, add BMP



Use BMP's if shoulders and/or front slopes and/or ditchline and/or back slopes are disturbed

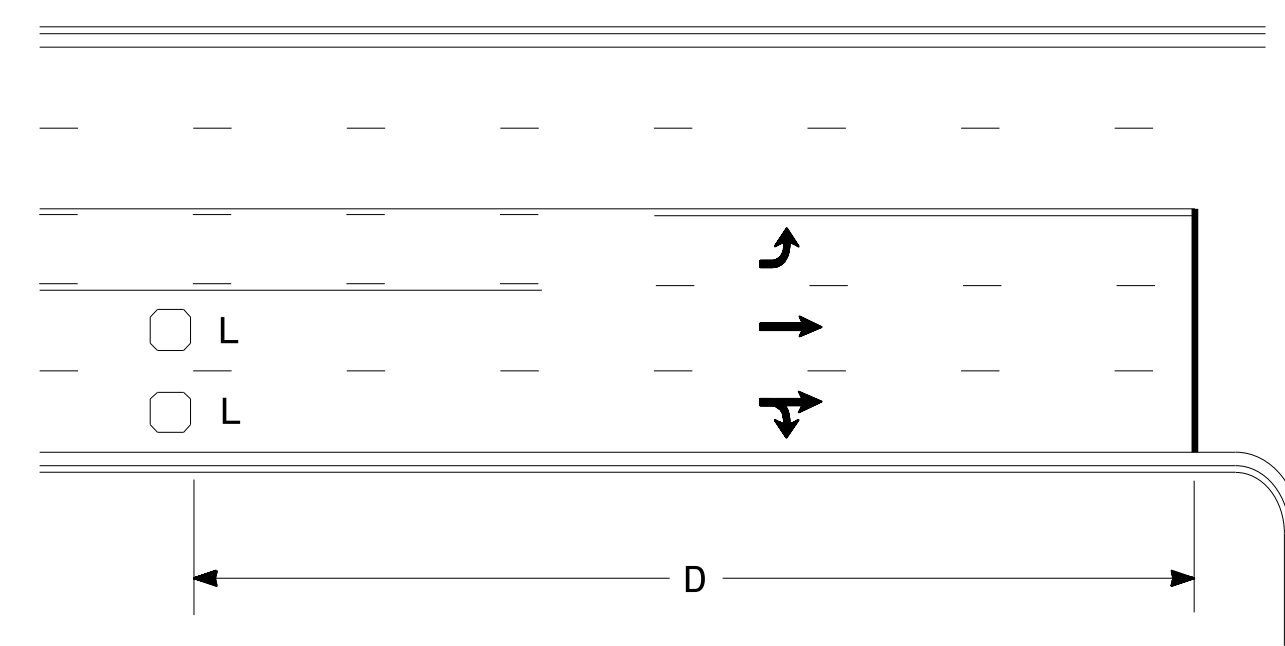


< 5' - 10' Undisturbed buffer from Inlet, add wattle



NOT TO SCALE

High Speed Detection (≥40 mph)

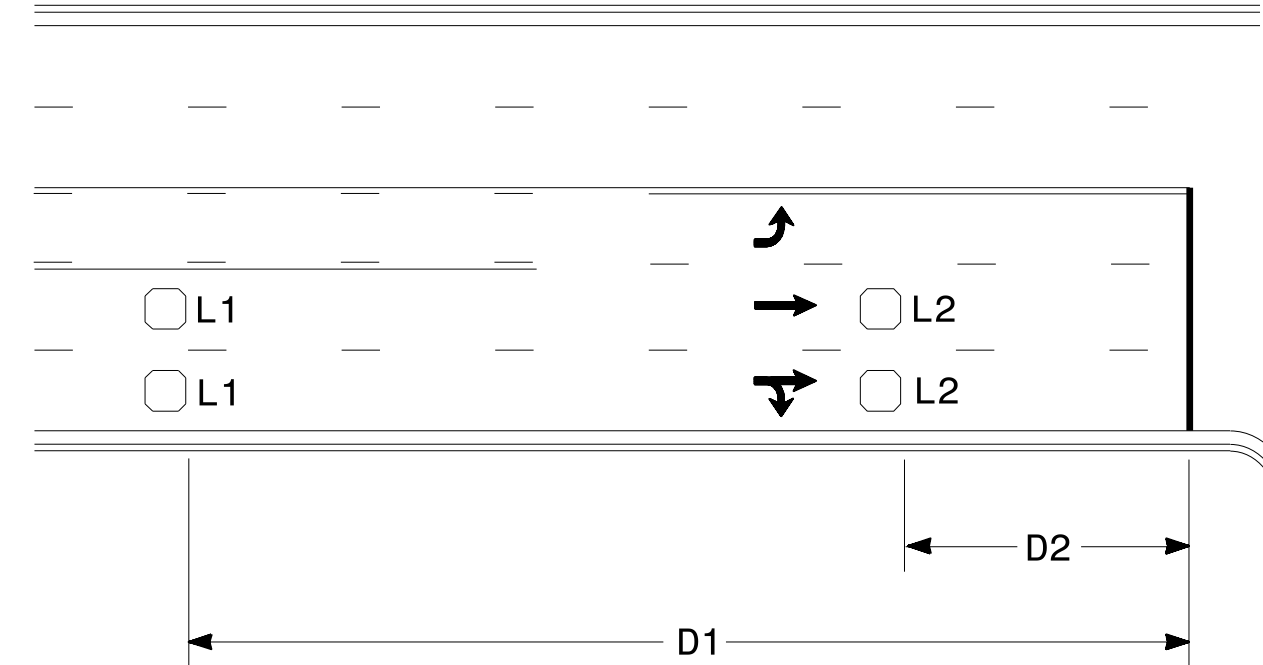


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired in series for TS1
Controllers
Wired separately for TS2,
170, and 2070L Controllers

Volume Density Operation

OR

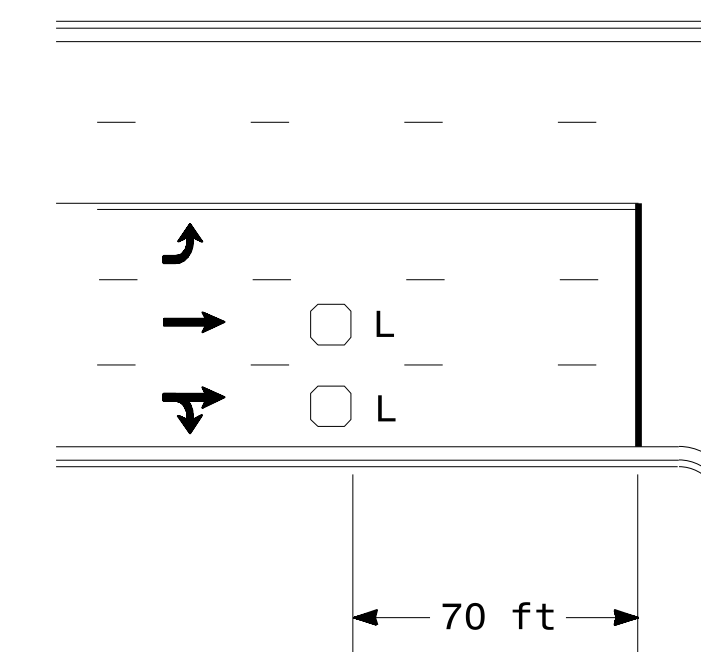


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series
L2 = 6ft X 6ft
Wired in series

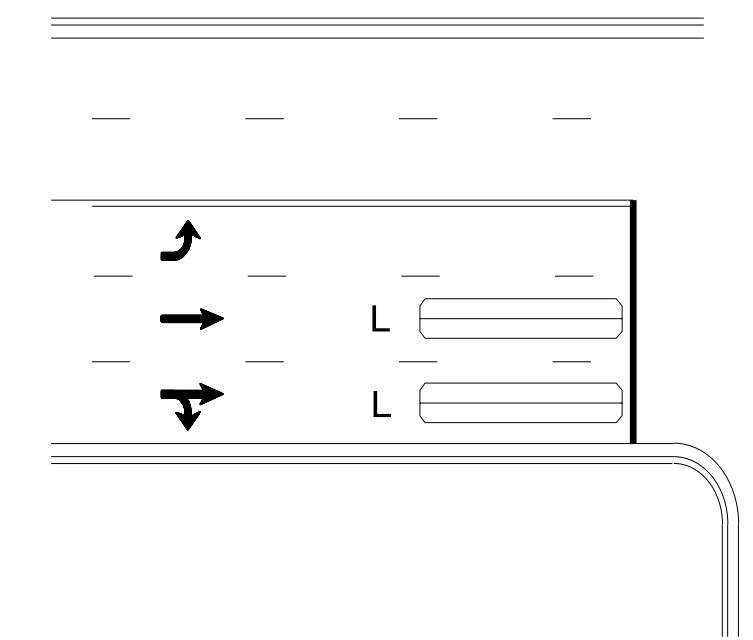
"Stretch" Operation

Low Speed Detection (≤35 mph)



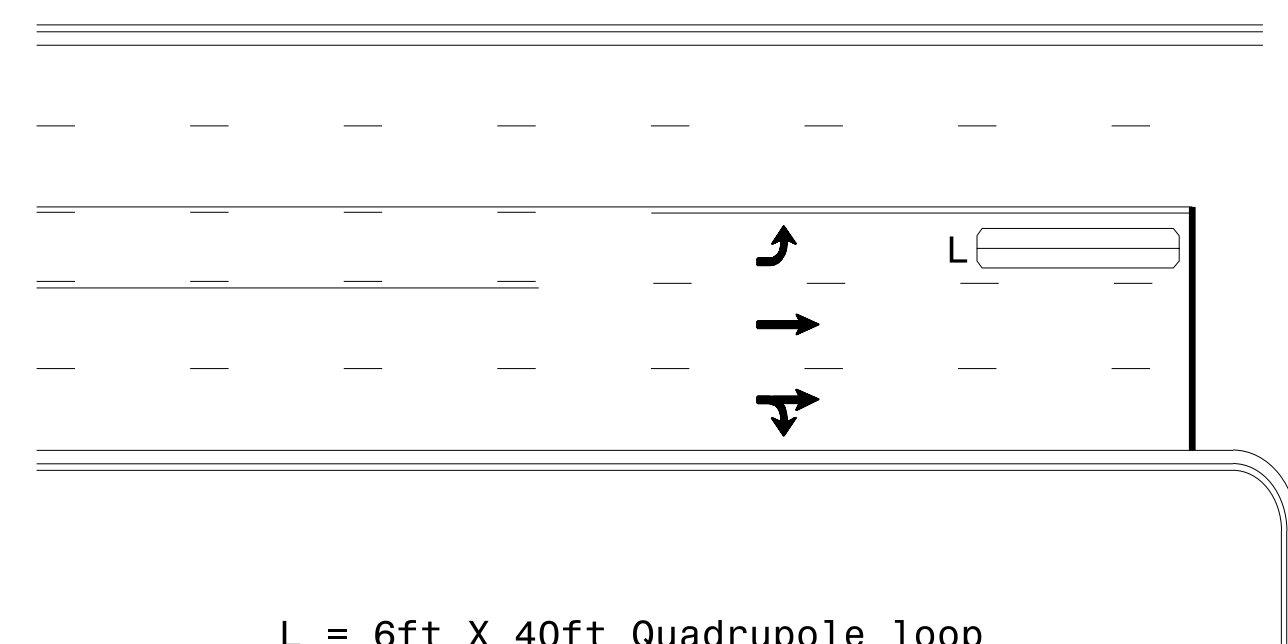
L = 6ft X 6ft
Wired in series

OR



L = 6ft X 40ft
Quadrupole loop, wired separately

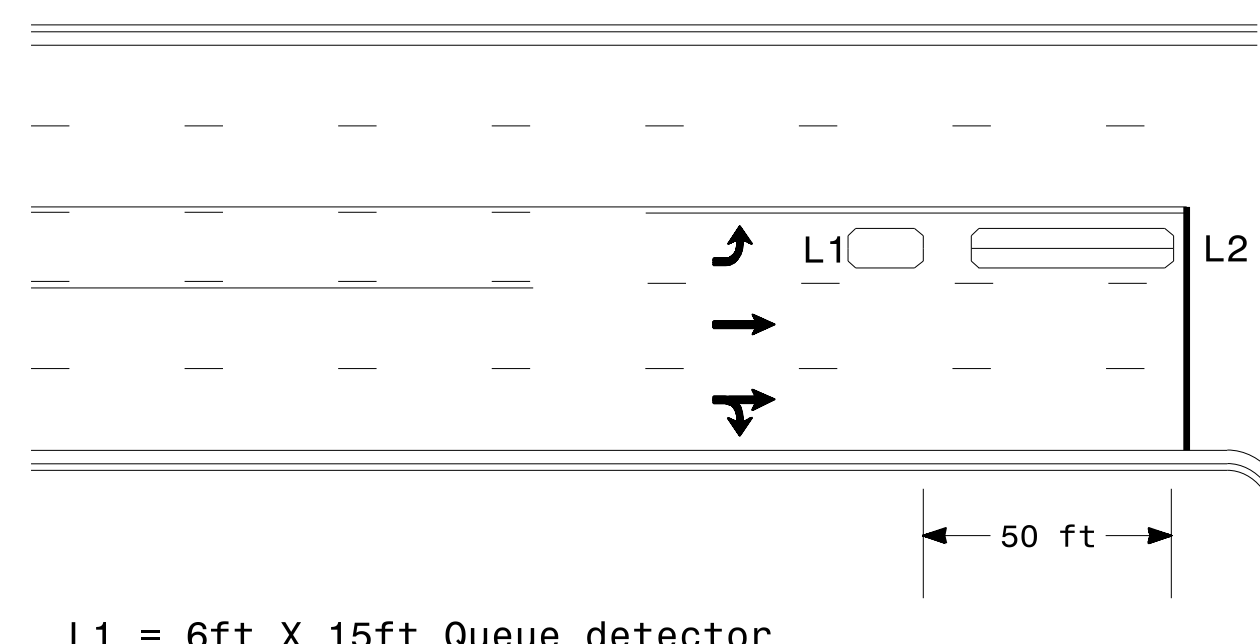
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

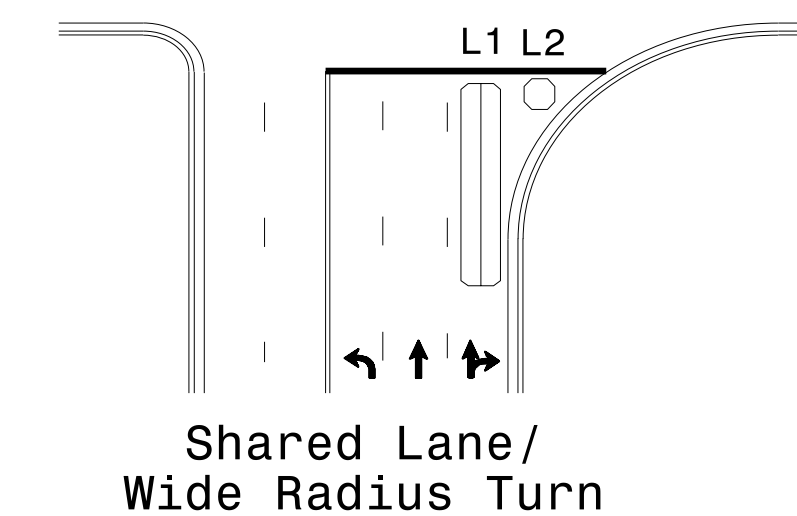
OR



L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

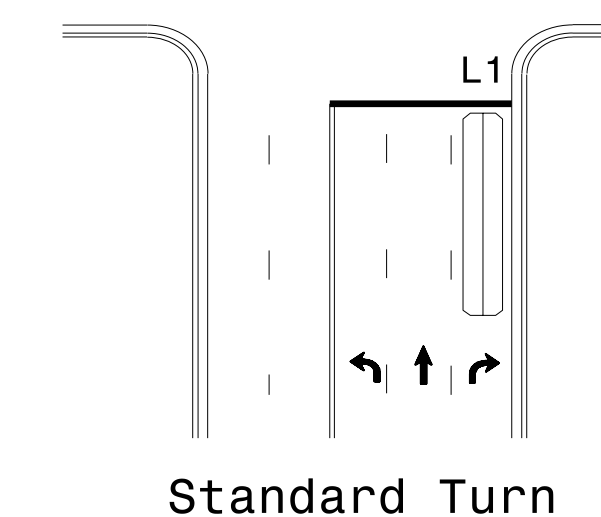
Queue Loop Detection

Right Turn Lane Detection

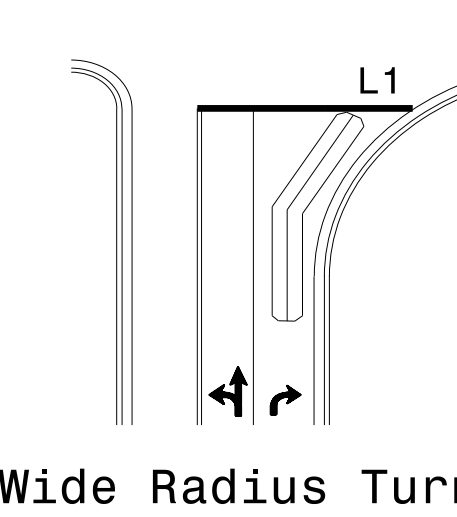


Shared Lane/
Wide Radius Turn

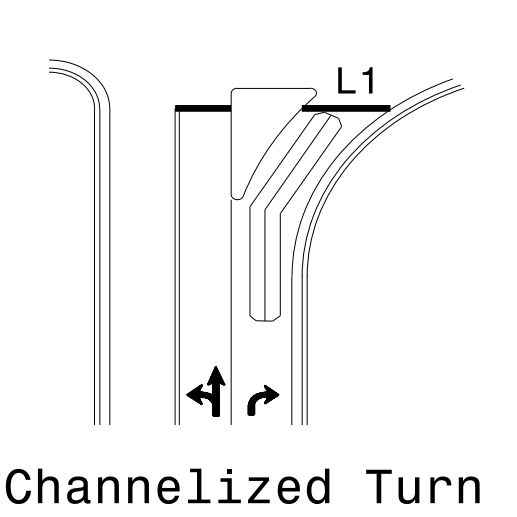
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

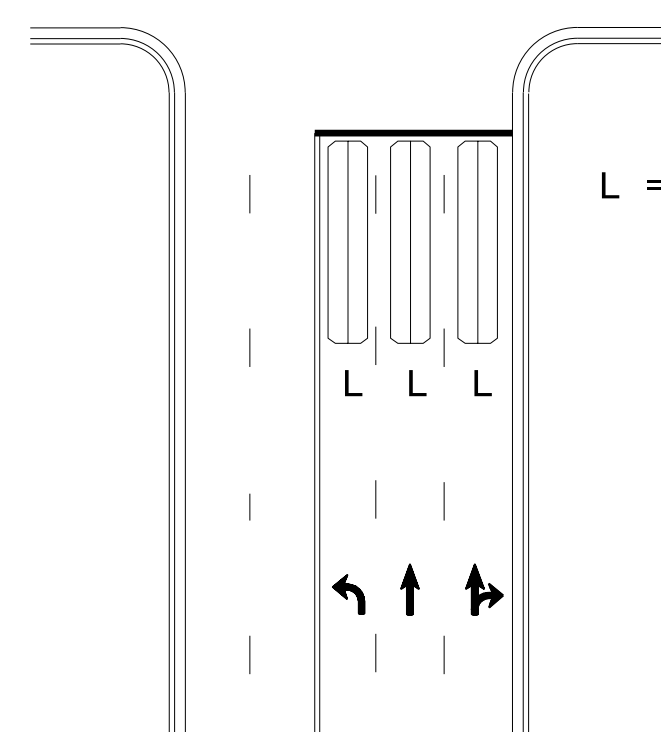


Wide Radius Turn



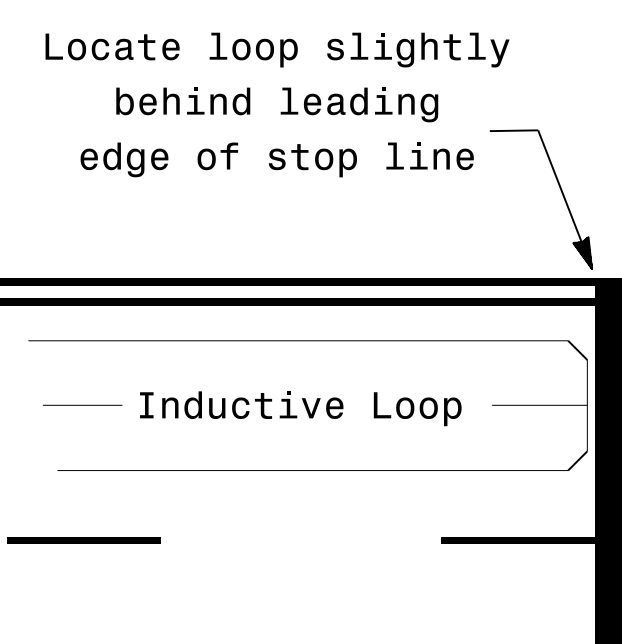
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Locate loop slightly
behind leading
edge of stop line

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):

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

750 N. Greenfield Pkwy, Garner, NC 27529

Typical Signal Loop Locations

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

SCALE: N/A

SEAL

1/30/2015