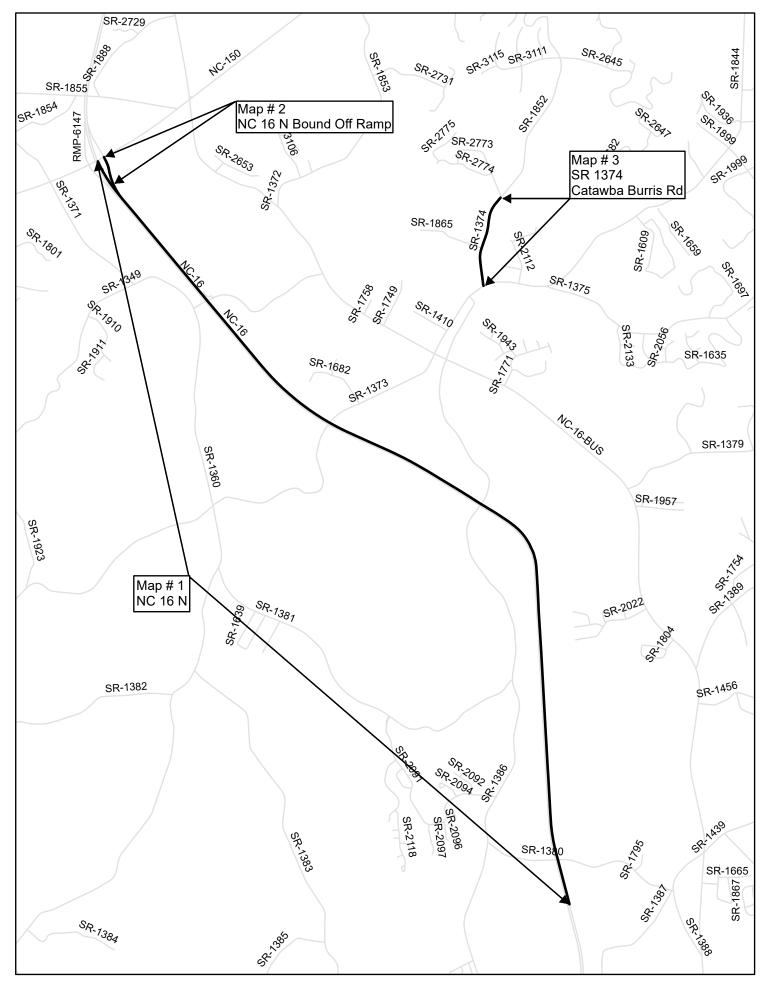
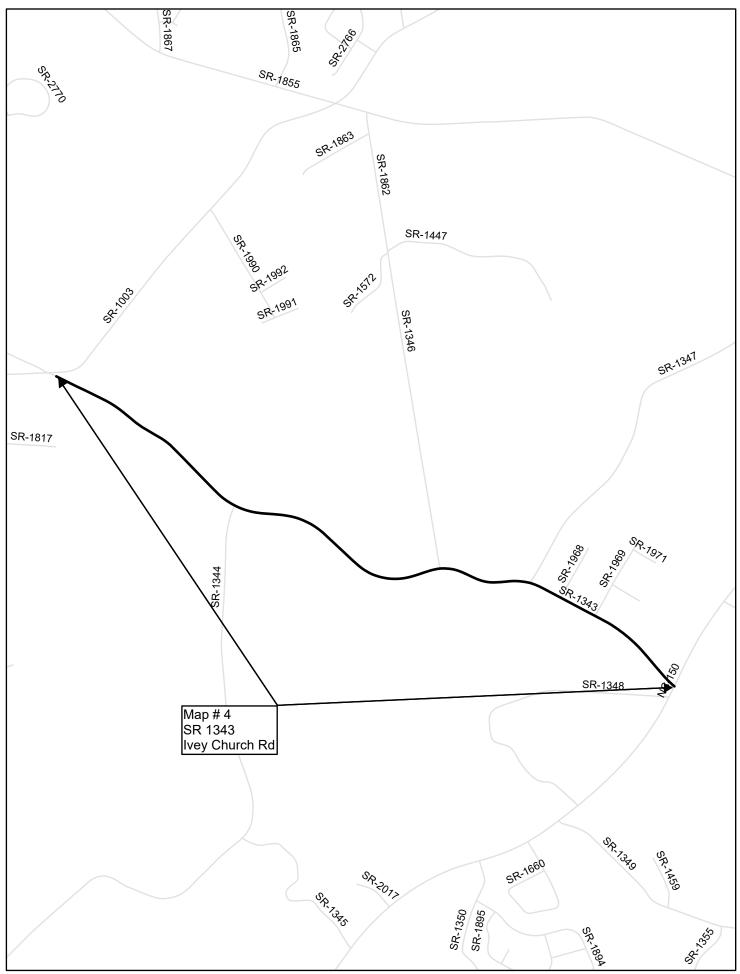
# This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

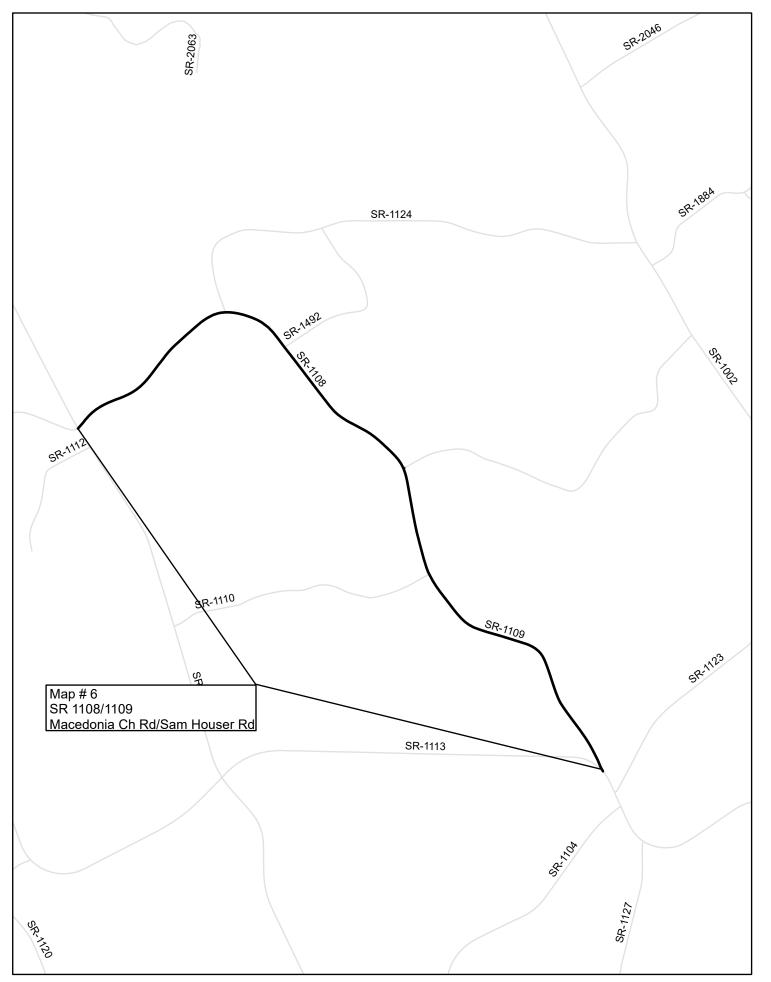
The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

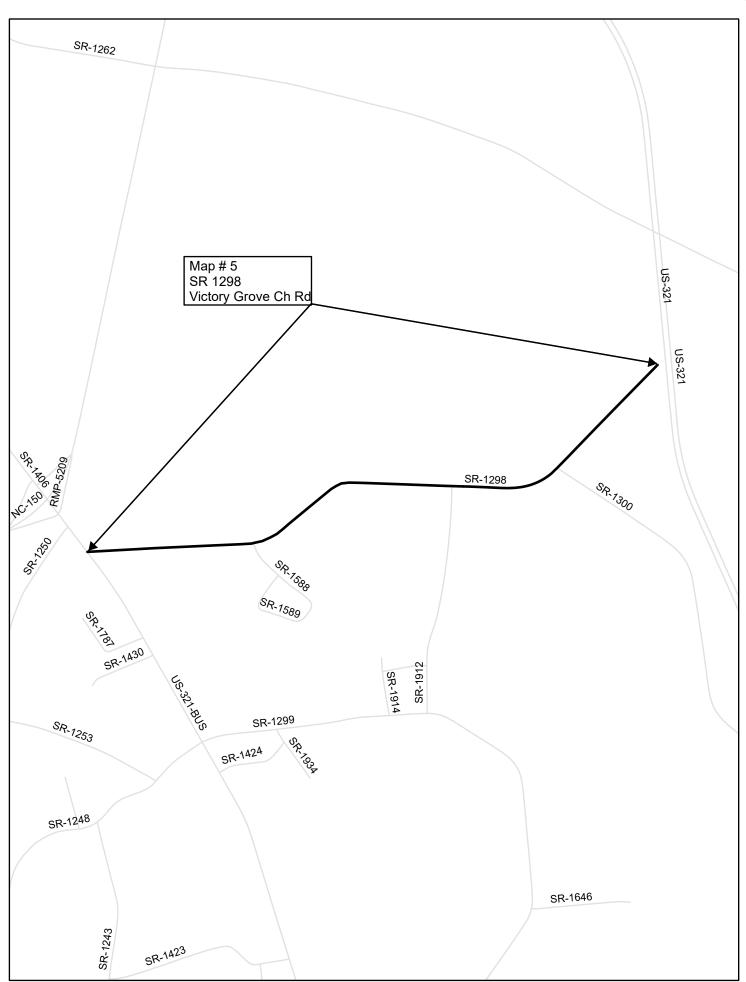
This file or an individual page shall not be considered a certified document.





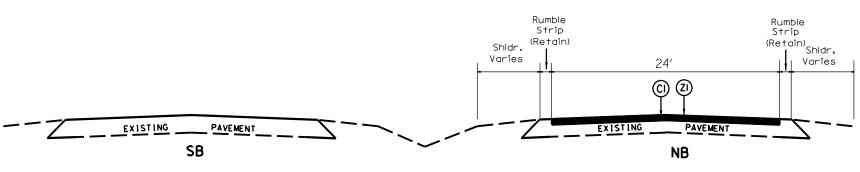




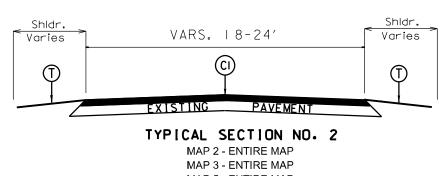


STATE	PROJECT WBS	SHEET NUMBER
NC	2025CPT.12.06.10551	4
	2025CPT.12.06.20551	

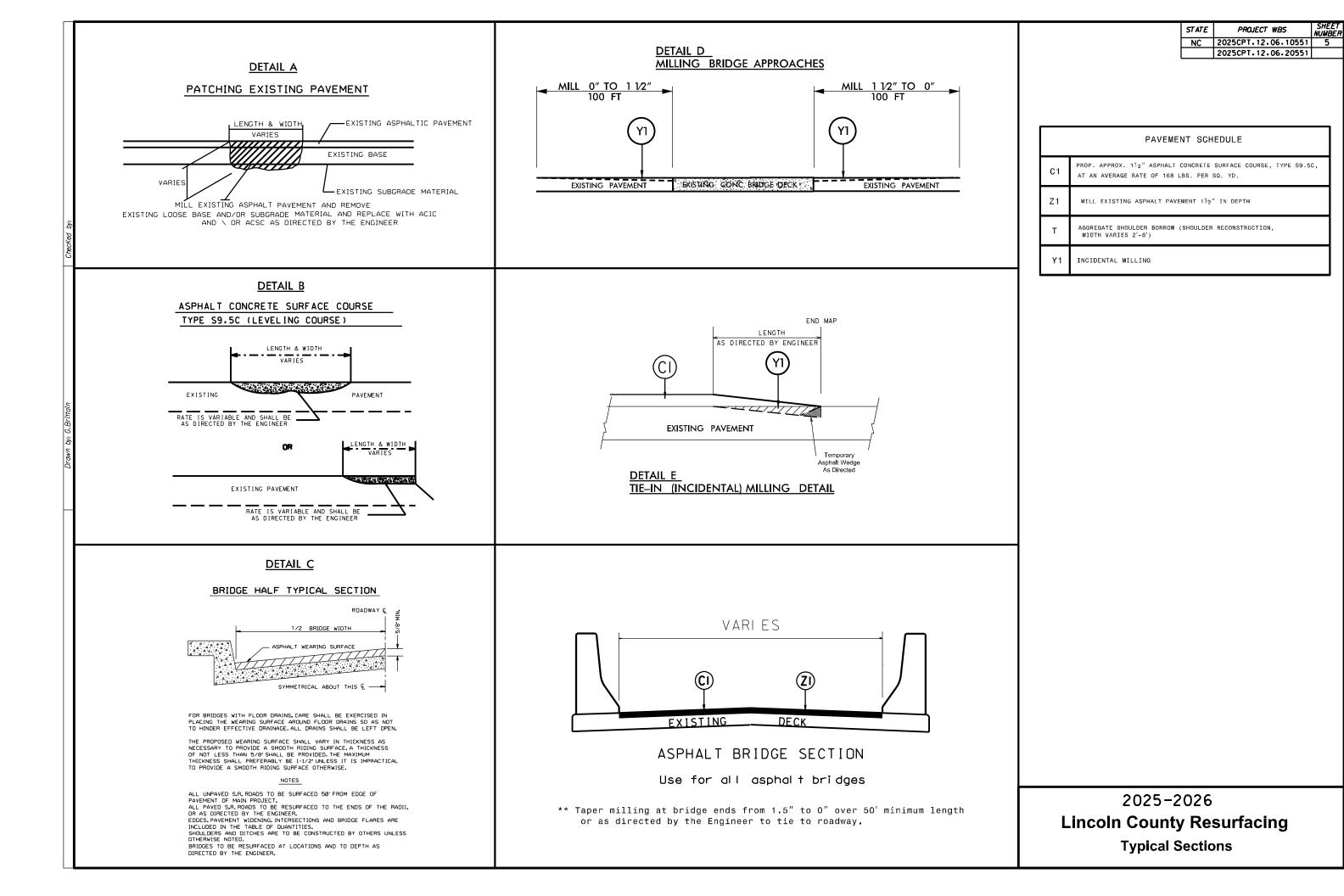
	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1 $^12''$ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
Z1	MILL EXISTING ASPHALT PAVEMENT $1lat{1}{2}^{n}$ IN DEPTH
Т	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION, (WIDTH VARIES 2'-6')
Y1	INCIDENTAL MILLING

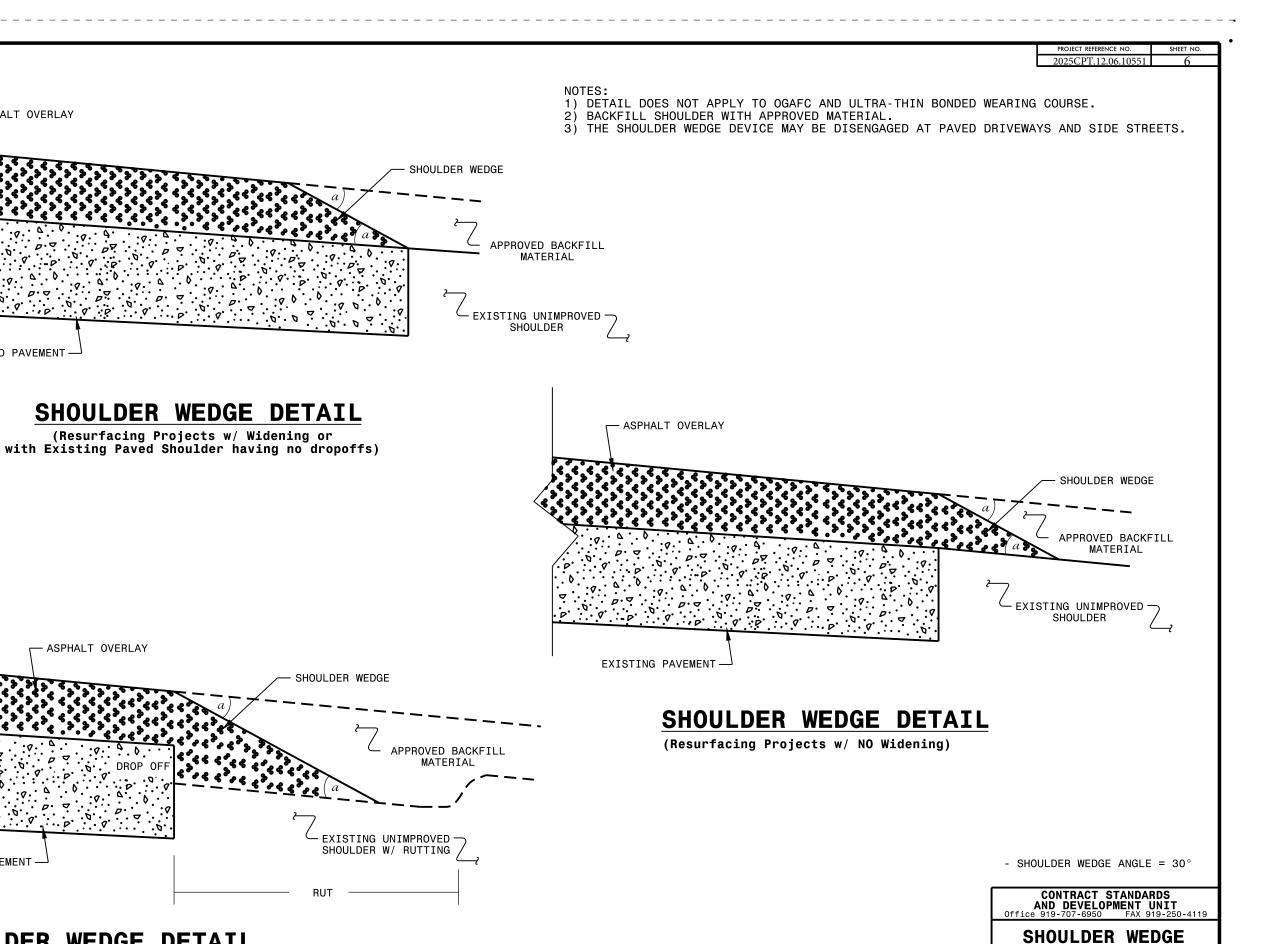


### TYPICAL SECTION NO. 1 MAP # 1 - ENTIRE MAP



MAP 3 - ENTIRE MAP MAP 5 - ENTIRE MAP MAP 6 - ENTIRE MAP





SHOULDER WEDGE DETAIL

ASPHALT OVERLAY

ASPHALT OVERLAY

PROPOSED PAVEMENT -

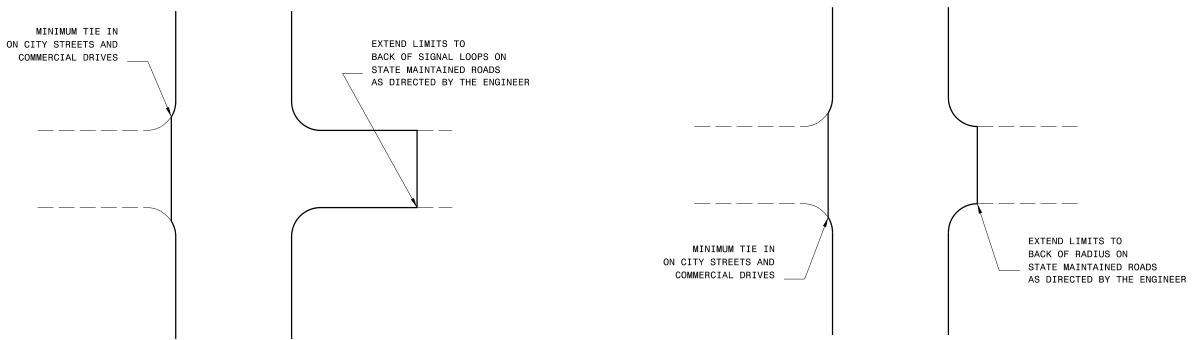
(Resurfacing Adjacent to Rutted Shoulder)

EXISTING PAVEMENT -

**DETAILS** 

ORIGINAL BY: T.SPELL MODIFIED BY:

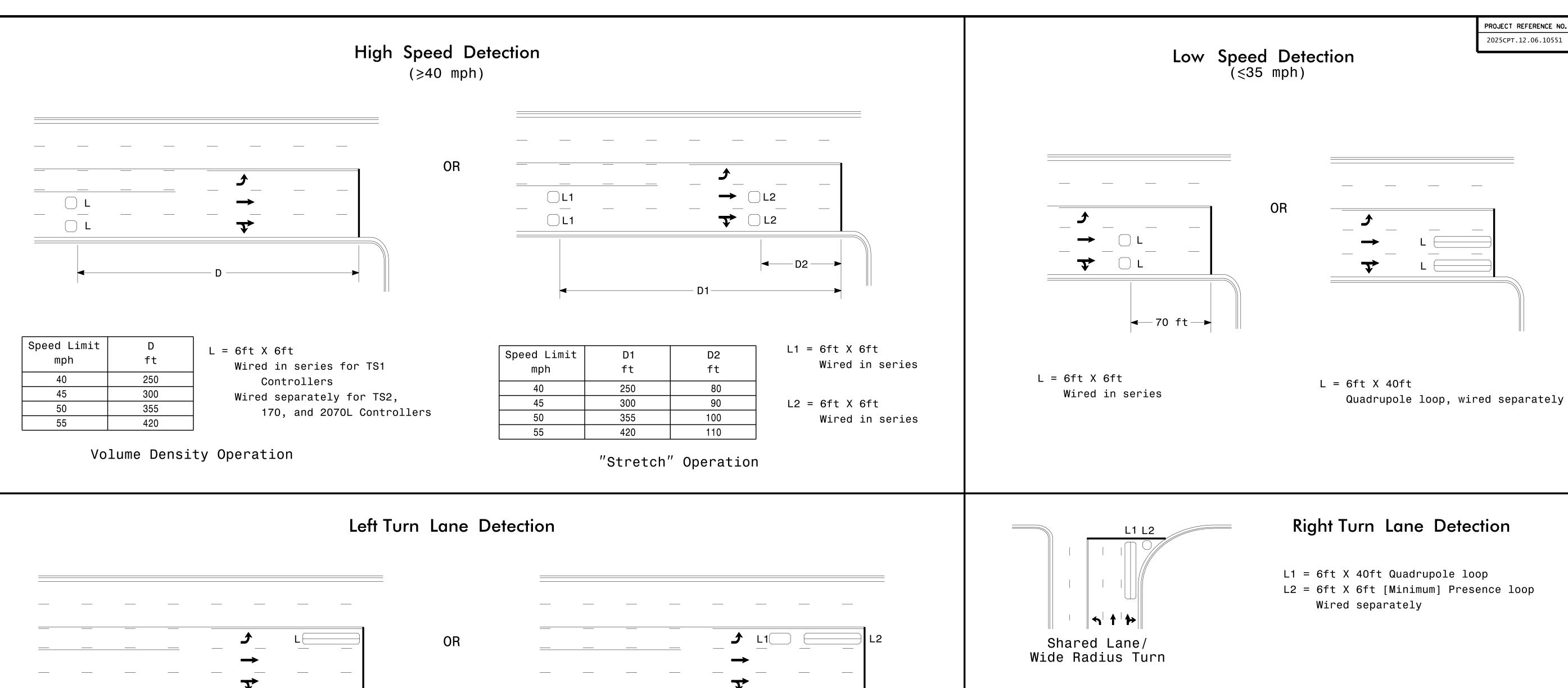
		NO.	JIILLI	NO.
2025CF	T.12.06.10551		7	

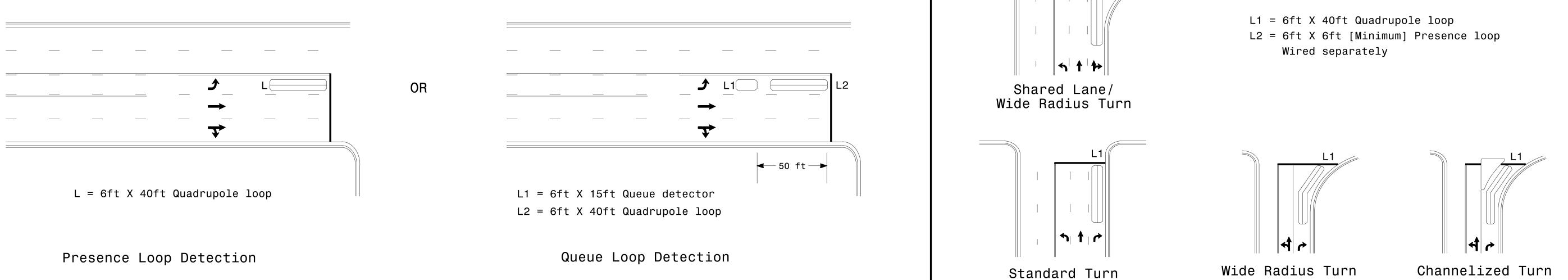


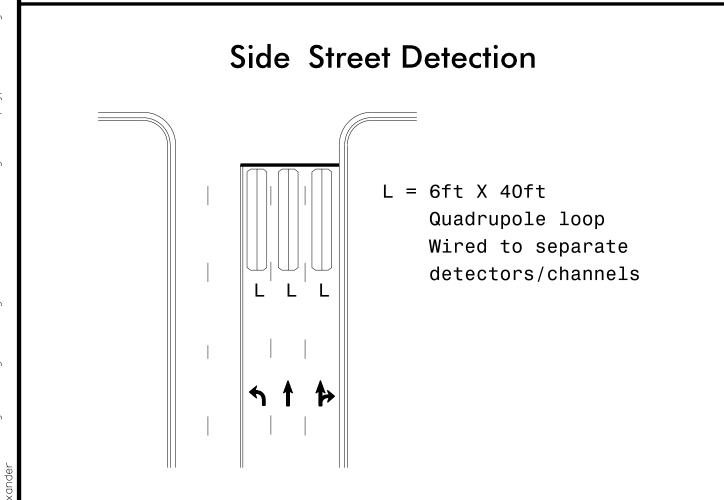
TYPICAL DETAIL OF PROJECT LIMITS AT	TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES	UNSIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT

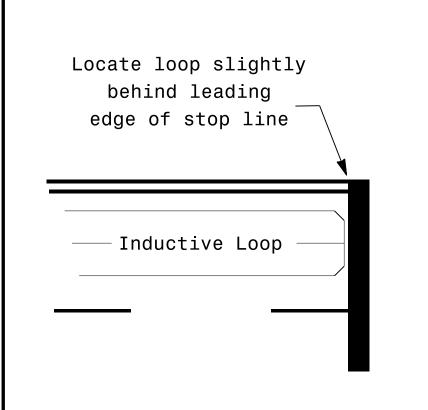
	ADDITIONAL INTERSECTIONS (NON-	TYPICAL)
	Extend paving limits to back of radium or loop on the following intersections	
MAP#	STREET NAME	COMMENTS







## Presence Loop Placement at Stop Lines



### 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

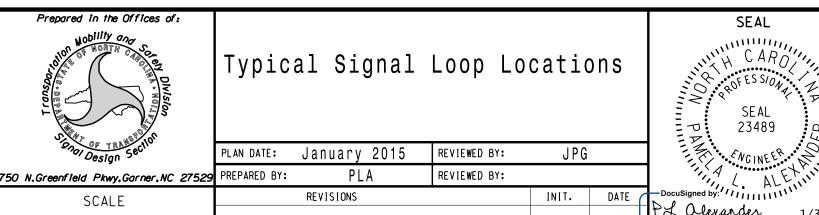
N/A

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

Ten wined 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



PL Alexander

PROJECT REFERENCE NO. 2025CPT.12.06.10551

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.12.06.10551,		
2025 CDT 12 06 20551		

### SUMMARY OF QUANTITIES

											1220000000-E	1245000000-E	1260000000-E	1297000000-E	133000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1840000000-E	46000	00000-N	5255000000-N	732400000-N	7444000000-E	7456100000-E
PROJECT NO	COUN	TY MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE I	ENGTH V	WIDTH BEG	GIN END	INCIDENTAL	SHOULDER	AGGREGATE	1½" MILLING	INCIDENTAL	ASPHALT CONC	LEVELING	ASPHALT	PATCHING	MILLED RUMBLE	SINGLE LANE	RAMP / LOOP	PORTABLE	JUNCTION BOX	INDUCTIVE	LEAD-IN CABLE
							TYPE		м	IP MP	STONE BASE	RECONSTRUCTI	SHOULDER		MILLING	SURFACE	COURSE, S9.5C	BINDER FOR	EXISTING	STRIPS	CLOSURE	CLOSURE	CONSTRUCTION	(STD.)	LOOP	(14-2)
							1		''		0.0.12.27.02	ON	BORROW		12210	COURSE, TYPE	00002,00.00	PLANT MIX	PAVEMENT	0	020002	020002	LIGHTING	(0.5.)	SAWCUT	(2 2-)
												UN	BURKUW					PLANT MIX	PAVEMENT				LIGHTING		SAWCUI	1
																S9.5C										1
																										<b></b> '
								MI	FT		TONS	SMI	TON	SY	SY	TON	TONS	TONS	TONS	LF	EA	EA	LS	EA	LF	LF
				FROM RR OVERPASS BRIDGE TO NC																						1
2025CPT.12.06.10551	Lincol	ln 1	NC-16 N	150	1	2	MD	7.02	24 5	5 12.02				103,842		8,763		517		100	20		*	1	800	250
2025CPT.12.06.10551	Lincol	ln 2	NC 16 N BOUND OFF RAMP	FROM NC 16 N BOUND TO NC 150	2	1	2WD	0.31	20-34	0.31		0.62	30		600	387		24	20			2			175	25
		TOTAL FOR	PROJ NO. 2025CPT.12.06.10551					7.33				0.62	30	103.842	600	9.150		541	20	100	20	2	1	1	975	275
				FROM SR 1373 (CAMPGROUND RD)																						
2025CPT.12.06.20551	Lincol	ıln 3	SR-1374 / CATAWBA-BURRIS RD	TO CATAWBA COUNTY	2	2	2////1	0.62	20-21	0.62	40	1.24	62		850	678		47	140							1 '
2023011.12.00.20331	LIIICOI	iui 5	SIT-13747 CATAWBA-BOTTIIS IID	FROM NC 150 TO PROJECT LIMITS OF			2000	0.02	20-21 0	0.02	40	1.24	02		030	070		47	140							<del></del>
																										1
				W-5712R (~180' FROM SR 1003,																						1
2025CPT.12.06.20551	Lincol	ln 4	SR-1343 / IVEY CHURCH RD	BUFFALO SHOALS RD)	2	2	2WU	2.71	22-24	0 2.71	300	5.42	271		300	3,480		217	240							<u> </u>
2025CPT.12.06.20551	Lincol	ln 5	SR-1298 / VICTORY GROVE CHURCH RD	FROM US 321 BUS TO DEAD END	2	2	2WU	1.45	18-20 0	0 1.45	160	2.90	145		400	1,510	966	148	40							1
				FROM SR 1113 (REEPSGROVE CH																						·
2025CPT.12.06.20551	Lincol	ln 6	SR-1108/1109 MACEDONIA CHURCH RD/SAM HOUSER RD	RD) TO SR 1111 (PEELER RD)	2	2	2WU	2.45	22-24	0 2.45	40	4.90	245		1,200	3.058		185	100							1
		TOTAL FOR	PROJ NO. 2025CPT.12.06.20551	, , ,				7.23			540	14.46	723		2,750	8,726	966	597	520			Ì				
																						İ				
	1		GRAND TOTAL					14.56			540	15.08	753	103.842	3.350	17.876	966	1.138	540	100	20	2	1	1	975	275
L			0.00.00	ll		1	1	0			5-10	_5.00	,00	200,042	5,500	27,070		-,100	540	30	v	<u> </u>			570	

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.12.06.10551,		
2025CPT.12.06.20551		

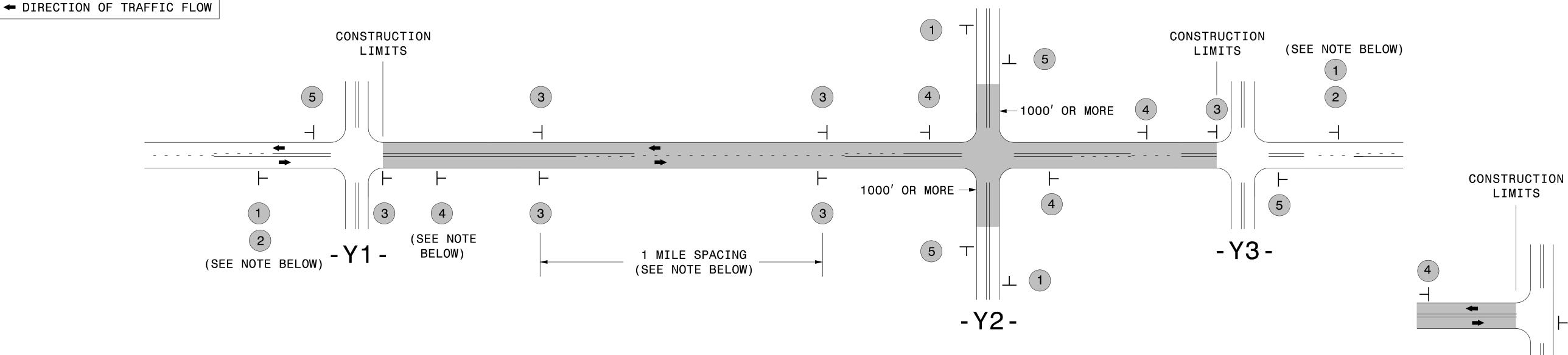
### THERMOPLASTIC AND PAINT QUANTITIES

											44000	00000-N 441	L3000000-E	1423000000-N	4424000000-N	4434000000-N	4457000000-1	4510000000-N	46850	00000-E	46880	00000-E	46950	00000-E	4700000000-	E 4709000000-	E	47250	00000-E		481000	J0000-E	4895000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NC	LANES	LANE LE	NGTH W	IDTH BEGI	IN MP EN	ID MP STAT	IONARY WO	ORK ZONE	WORK ZONE	WORK ZONE	SEQUENTIAL	TEMP TRAFFIC	LAW	4" X 90 M	4" X 90 M	6" X 90M	6" X 90M	8" X 90 M	8" X 90 MILS	12" X 90 M	24" X 90 MILS	S THERMO LT	THERMO RT	THERMO	THERMO STR	4" YELLOW	4" WHITE	
							TYPE				WOR	K ZONE A	DVANCE	DIGITAL	PRESENCE	FLASHING	CONTROL	ENFORCEMEN	YELLOW	WHITE	YELLOW	WHITE	WHITE	YELLOW	WHITE	WHITE	ARROW	ARROW	YIELD SYMBOL	& RT ARROW	PAINT	PAINT	POLYCARBON
											SI	GNS G	SENERAL	SPEED LIMIT	LIGHTING	WARNING		T	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	90 M	90 M	90 MILS	90 M	1	1	ATE H-
											-		VARNING	SIGNS		LIGHTS															1	1	SHAPED
												"	.,	0.0.10		2.00															1	1	PAVEMENT
																																1	MARKER
								мі	FT				er.	FΔ	FΔ	EA	LS	HR	I.F.	I.F.	1F	LF	LF	LF	LF	LF	EA	FΔ	EA	EA	1F	15	FA
				FROM RR OVERRAGO RRIDGE TO MO	+			MI	rı .				ər	EA	EA	EA	Lo	пк	LF	LF	Lr	LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	Lr	EA
2025CPT.12.06.10551	Universalis		NC-16 N	FROM RR OVERPASS BRIDGE TO NC 150			MD	7.02	24 5		2.02	416		-	14	40		250			37.075	50.500	250	250	4,500	100	45				1	1	500
		1		FROM NC 16 N BOUND TO NC 150	1				24 5		0.31	416		5	14	12		250	4.050	4.050	37,075	50,500	250	250	4,500		15	0				<del>                                     </del>	500
2025CPT.12.06.10551	Lincoln	2	NC 16 N BOUND OFF RAMP	FROM NC 16 N BOUND TO NC 150	2	1			0-34	0 (		32							1,650	1,850						50	2	1	+	2			5
	TO	TAL FOR P	PROJ NO. 2025CPT.12.06.10551		₩			7.33				448		5	14	12		250	1,650	1,850	37,075	50,500	250	250	4,500	150	17	6	8	2		L	505
																			3,	500	87	,575		500					33				
		,				, ,																											
				FROM SR 1373 (CAMPGROUND RD)																											1	1	
2025CPT.12.06.20551	Lincoln	3	SR-1374 / CATAWBA-BURRIS RD	TO CATAWBA COUNTY	2	2	2WU	0.62 2	0-21 (	0 (	0.62		48																		13,100	13,100	
				FROM NC 150 TO PROJECT LIMITS OF	4																										1	1	
				W-5712R (~180' FROM SR 1003,																											1	1	
2025CPT.12.06.20551	Lincoln	4	SR-1343 / IVEY CHURCH RD	BUFFALO SHOALS RD)	2	2	2WU	2.71 2	2-24	0 2	2.71		235													12					57,900	57,900	
2025CPT.12.06.20551	Lincoln	5	SR-1298 / VICTORY GROVE CHURCH RD	FROM US 321 BUS TO DEAD END	2	2	2WU	1.45 1	.8-20 (	0 :	1.45		190				1 î														60,625	30,625	
				FROM SR 1113 (REEPSGROVE CH RD)																													
2025CPT.12.06.20551	Lincoln	6	SR-1108/1109 MACEDONIA CHURCH RD/SAM HOUSER RD	TO SR 1111 (PEELER RD)	2	2	2WU	2.45 2	2-24	0 2	2.45		225																		51,750	51,750	
								7.23					698													12			+		183.375	153,375	+
	TO	TAL FOR P	PROJ NO. 2025CPT.12.06.20551		+-												1			1		1		1				1			336,		+
																1	1	1	I .		1		1		1	Į.	1					,,,,,	-1
					T	T	1	4.56				448	698	5	14	12	1	250	1,650	1,850	37,075	50,500	250	250	4,500	162	17	6	8	2	183,375	153,375	505
			GRAND TOTAL																	500		575		500	, , , , , ,				33		336,		+
				1												-		-	,		1 0,		·									·	

PROJ. REFERENCE NO. SHEET NO. 2025CPT.12.06.10551 11

### SIGNING FOR RESURFACING PROJECTS





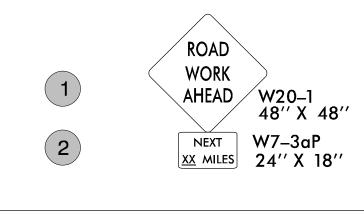
### TEE INTERSECTION

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

# IGNING NOTES AND EMENT PER DIRECTION

SO

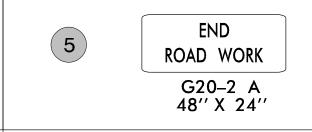


PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH.
ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)



- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- ROAD UNDER CONST SP 13106
- 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.
  - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.



PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

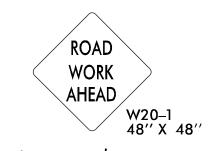
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES 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 WARNINGS SIGNS.

# 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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



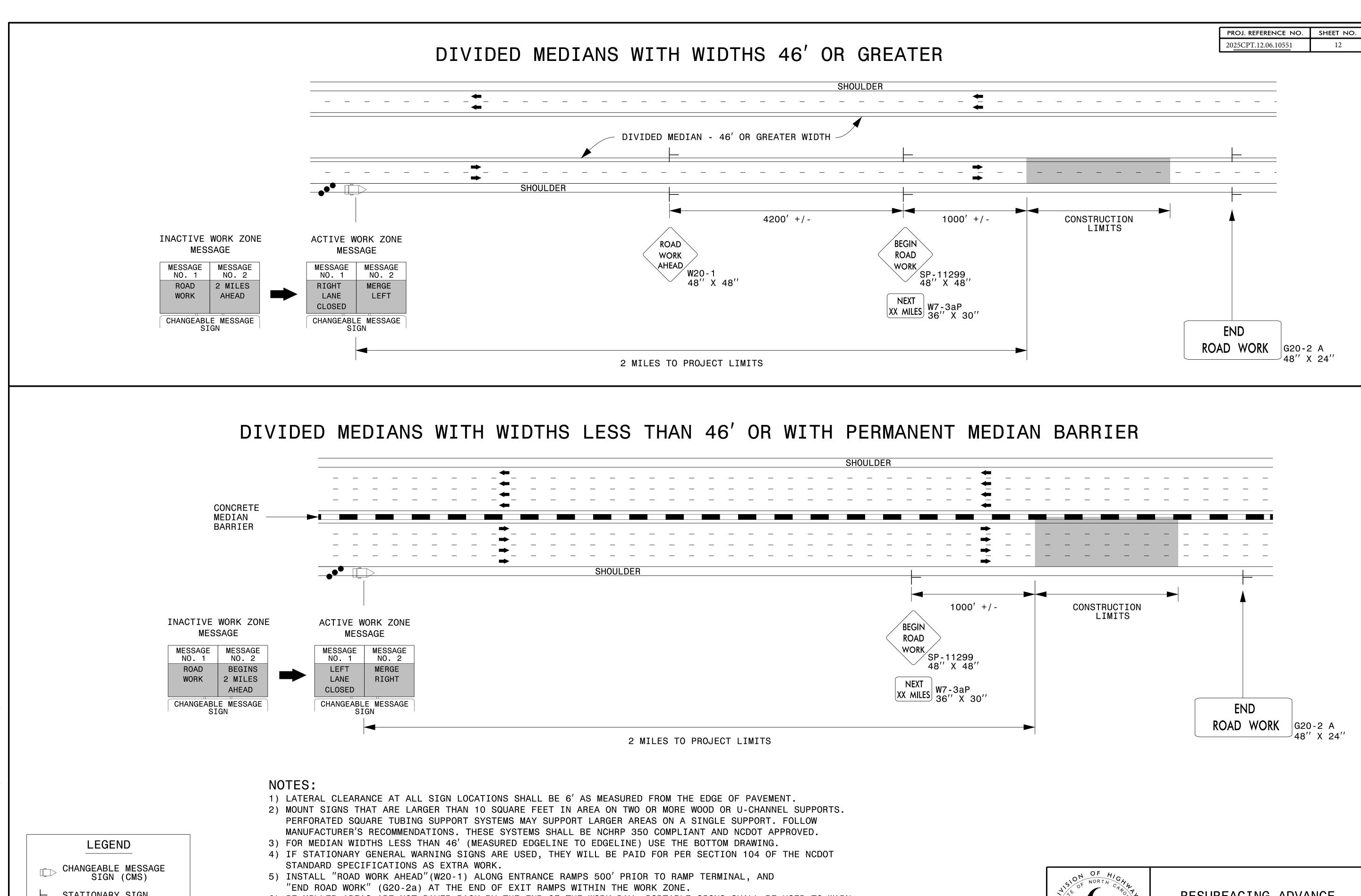
PLACED 500' IN ADVANCE OF FLAGGER.



PLACED 250' IN ADVANCE
OF FLAGGER.



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



LEGEND

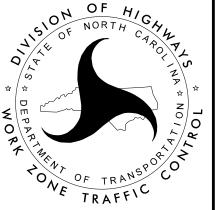
CHANGEABLE MESSAGE SIGN (CMS)

├ STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC DRUM

6) 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 AND WITH DIVIDED MEDIANS OF 46' OR GREATER. 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
HIGH SPEED FACILITIES
≥ 60 MPH