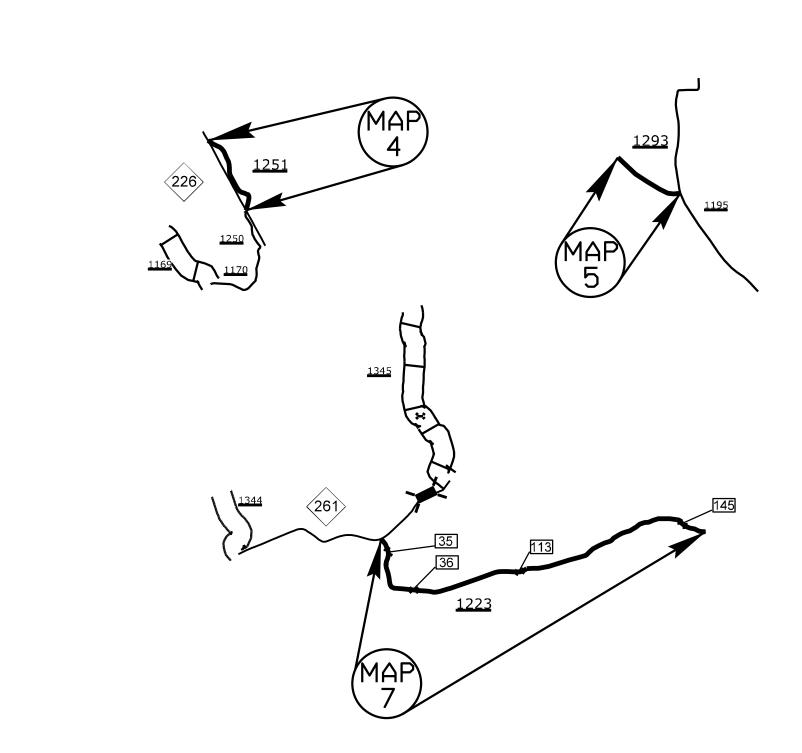
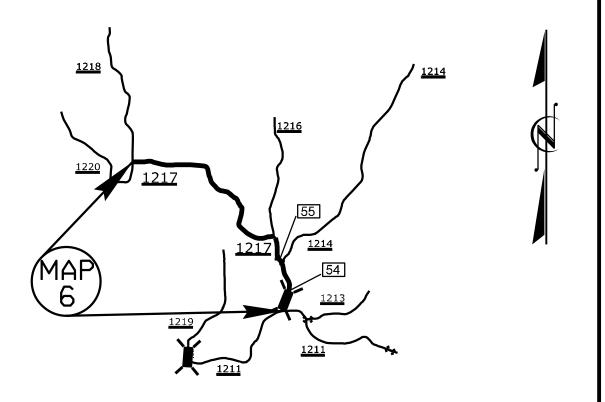
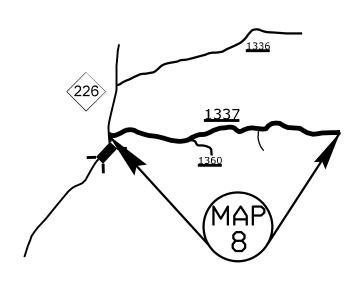


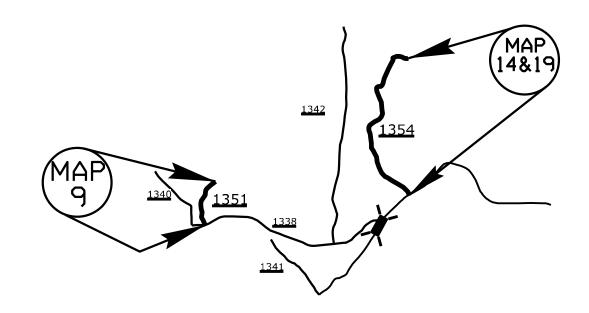
PROJECT NO.	SHEET NO.	TOTAL SHEETS
2018CPT.13.05.10611, 2018CPT.13.05.20611, 2018CPT.13.05.20612	2	15

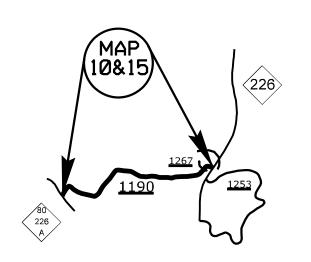


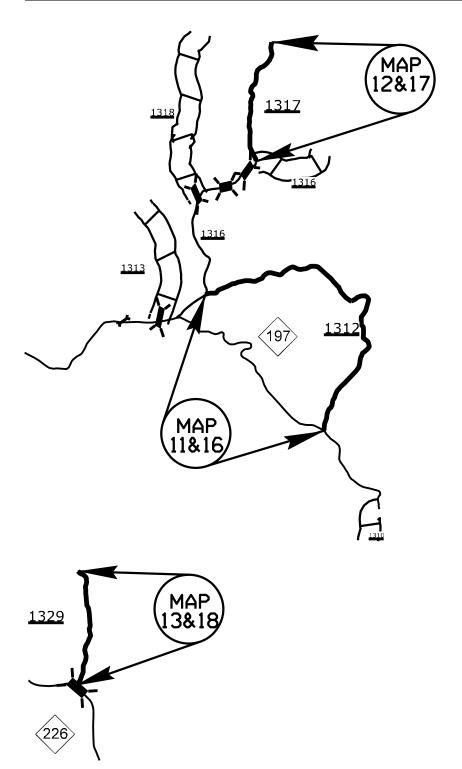


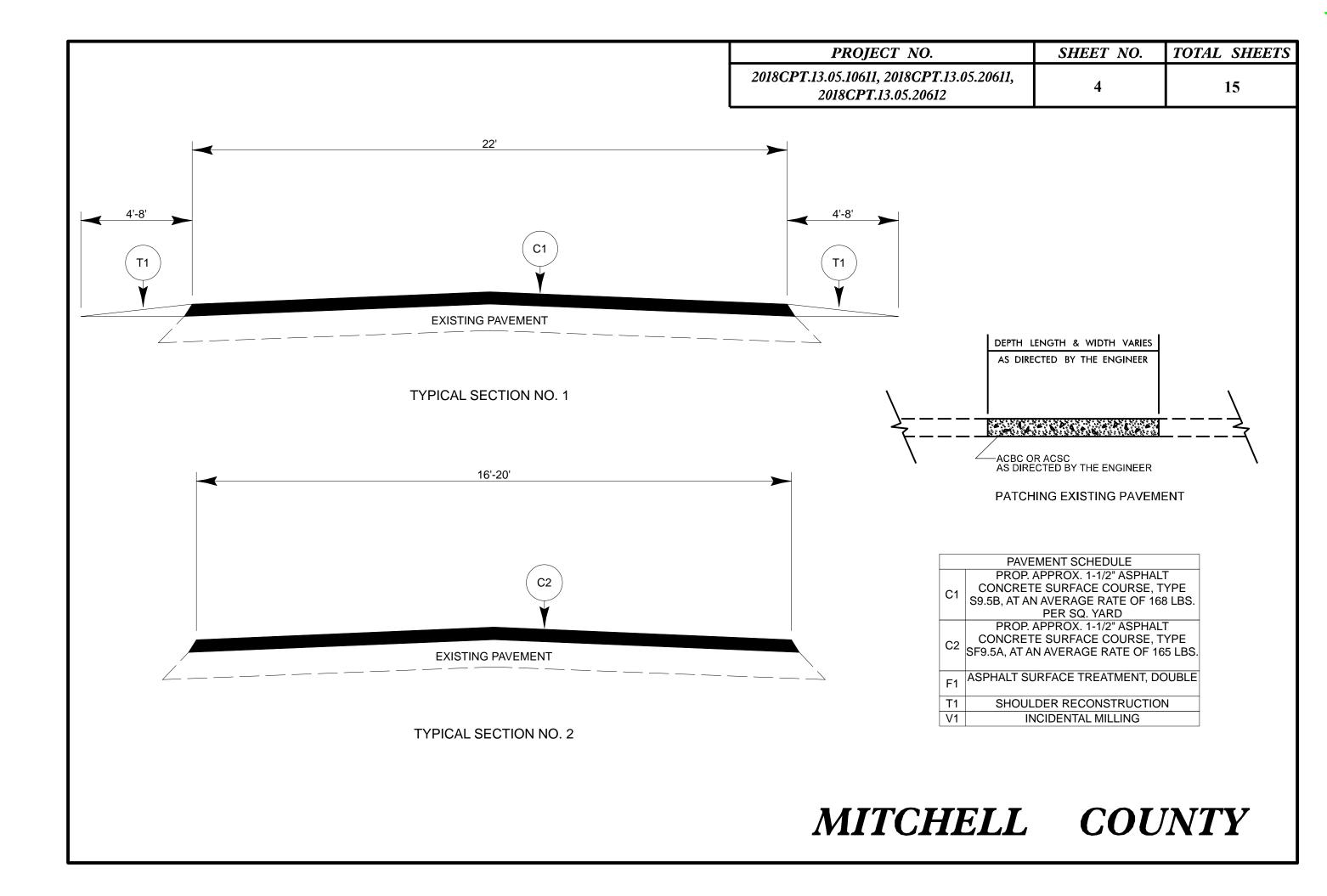


PROJECT NO.	SHEET NO.	TOTAL SHEETS				
2018CPT.13.05.10611, 2018CPT.13.05.20611, 2018CPT.13.05.20612	3	15				

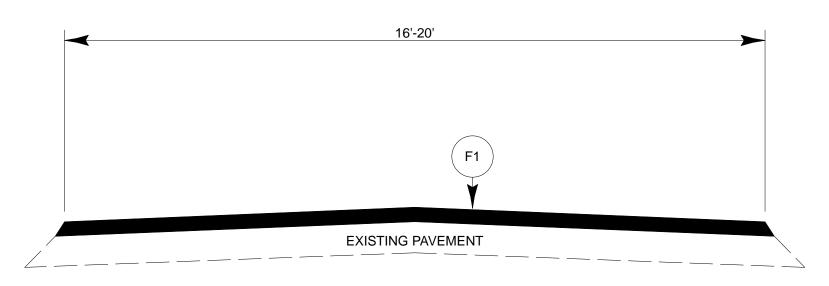




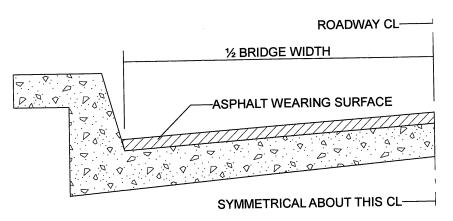




PROJECT NO.	SHEET NO.	TOTAL SHEETS
2018CPT.13.05.10611, 2018CPT.13.05.20611, 2018CPT.13.05.20612	5	15



TYPICAL SECTION NO. 3



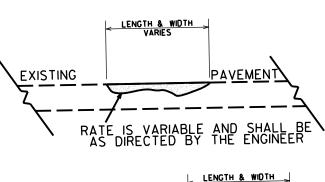
BRIDGE HALF TYPICAL SECTION

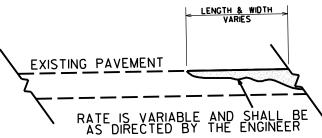
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE
AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. THE MINIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: \$4.75A ½", SF9.5A 1.0", S9.5X 1.5", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A ½", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX ASPHALT-TYPE C ½". THE MAXIMUM THICKNESS SHOULD DEPEND ON PAVEMENT TYPE AS FOLLOWS: S4.75A 1.0", SF9.5A 1.5",S9.5X 2.0", S12.5X 2.0", ULTRATHIN HOT MIX ASPHALT-TYPE A 3/4", ULTRATHIN HOT MIX ASPHALT-TYPE B 5/8", ULTRATHIN HOT MIX

ALL UNPAVED 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

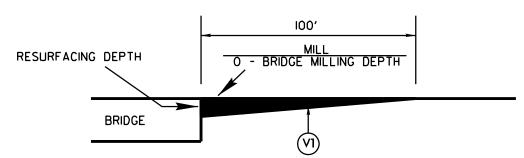
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.
BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.





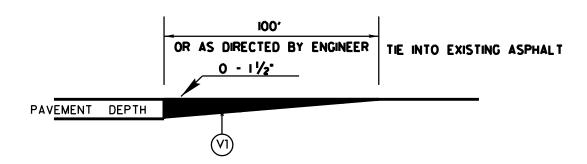
DETAIL SHOWING METHOD OF WEDGING

PROJECT NO.	SHEET NO.	TOTAL SHEETS
2018CPT.13.05.10611, 2018CPT.13.05.20611, 2018CPT.13.05.20612	6	15



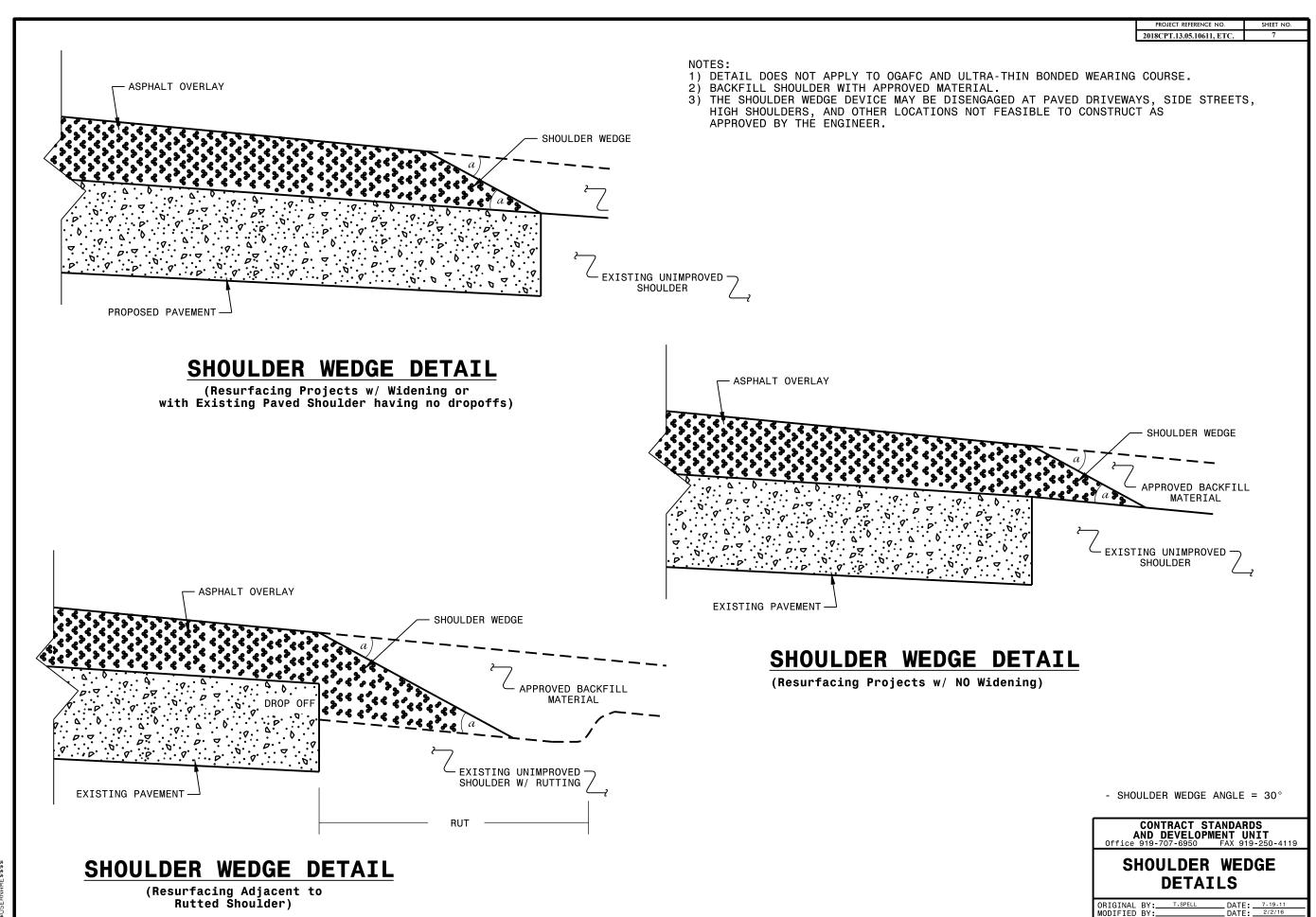
MILLING DETAIL AT BRIDGE APPROACHES

WHERE BRIDGES WILL NOT BE RESURFACED, OR WILL BE MILLED AND RESURFACED. THIS WILL BE PAID FOR AS INCIDENTAL MILLING. USE AT BRIDGE NUMBERS: 13 ON MAP 1, 176 ON MAP 3, AND 54 ON MAP 6.



DETAIL TO TIE INTO EXIST PAVEMENT

THE CONTRACTOR'S ATTENTION IS DIRECTED TO
THE FACT THAT HE WILL BE REQUIRED TO MILL
THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER
TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END
AND Y LINES OF EACH MAP TO BE RESURFACED WITH
ASPHALT CONC SURFACE COURSE, TYPE \$9.5B.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.



PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.13.05.10611, 2018CPT.13.05.20611,	Q	15
2018CPT.13.05.20612	O	13

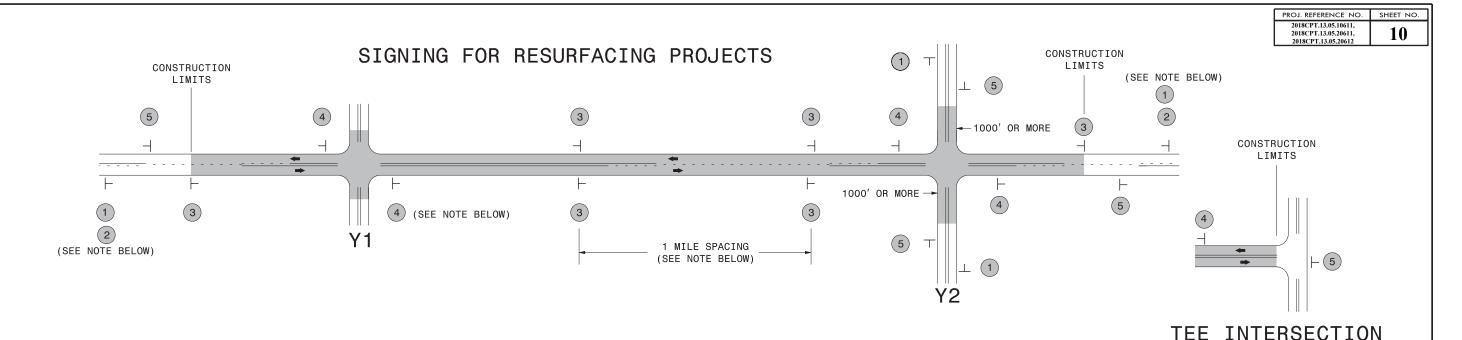
SUMMARY OF QUANTITIES

PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	ТҮР	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	MILLING ASPHALT PAVEMENT, 1" DEPTH	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH	INCIDENTA MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	TRUCK	INDUCTIVE LOOP SAWCUT
NO		NO			NO					МІ	FT	TON	SMI	SY	SY	SY	TON	TON	TON	TON	SY	GAL	wĸ	LF
2018CPT.13.05.10611	Mitchell	1	NC 261	FROM SR 1361 +0.35 MILES TO 0.5 MILES S OF SR 1159 (MP 0.550 - MP 7.932)	1	2	2WU	NO	YES	7.382	22	369	14.76			2,330	8,854		531	1,080				
TOTAL FOR PE	ROJ NO. 2018CPT.1	13.05.10611	1							7.382		369	14.76			2,330	8,854		531	1,080				
2018CPT.13.05.20611	Mitchell	2	SR 1117	FROM NC 226 TO NC 226 (MP 0.000 - MP 2.282)	2	2	2WU	NO	NO	2.282	20	114			160	445		2,445	164	620				200
		3	SR 1137	FROM US 19 TO AVERY CO (MP 0.000 - MP 2.940)	2	2	2WU	NO	NO	2.940	18-20	147						2,994	201	380				
		4	SR 1251	FROM NC 226 TO NC 226 (MP 0.000 - MP 0.490)	2	2	2WU	NO	NO	0.490	16-17	25						434	29	150				
		5	SR 1293	FROM SR 1195 TO END MAINT (MP 0.000 - MP 0.200)	2	2	2WU	NO	NO	0.200	18	10						193	13	30				
		6	SR 1217	FROM SR 1218 TO SR 1211 (MP 1.141 - MP 2.619)	3	2	2WU	NO	NO	1.478	18-20			190		335		50	3	190	16,475	9,061	_	
		7	SR 1223	FROM NC 261 TO END MAINT (MP 0.000 - MP 2.131)	3	2	2WU	NO	NO	2.131	18									150	22,503	12,377	1	
		8	SR 1337	FROM NC 226 TO END PVMT (MP 0.000 - MP 1.103)	3	2	2WU	NO	NO	1.103	18							25	2	155	11,648	6,407	_	
		9	SR 1351	FROM SR 1338 TO DEAD END (MP 0.000 - MP 0.241)	3	2	2WU	NO	NO	0.241	16-18									25	2,404	1,322		
		10	SR 1190	FROM NC 226 ALT TO NC 226 (MP 0.000 - MP 0.980)		2	2WU	NO	NO	0.980	18							25	2	130				
		11	SR 1312	FROM SR 1316 TO NC 197 (MP 0.200 - MP 2.11)		2	2WU	NO	NO	1.910	18							60	4	255				
		12	SR 1317	FROM SR 1316 TO END MAINT (MP 0.000 - MP 0.730)		2	2WU	NO	NO	0.730	17-18									90				
		13	SR 1329	FROM US 226 TO END MAINT (MP 0.000 - MP 0.680)		2	2WU	NO	NO	0.680	18									40				
		14	SR 1354	FROM NC 261 TO END MAINT (MP 0.000 - MP 1.020)		2	2WU	NO	NO	1.020	18									100				
TOTAL FOR PF	ROJ NO. 2018CPT.1	13.05.20611	1							16.185		296		190	160	780		6,226	418	2,315	53,030	29,167	1	200
2018CPT.13.05.20612	Mitchell	15	SR 1190	FROM NC 226 ALT TO NC 226 (MP 0.000 - MP 0.980)	3	2	2WU	NO	NO	0.980	18										10,349	5,692		
		16	SR 1312	FROM SR 1316 TO NC 197 (MP 0.200 - MP 2.11)	3	2	2WU	NO	NO	1.910	18										20,170	11,094	_	
		17	SR 1317	FROM SR 1316 TO END MAINT (MP 0.000 - MP 0.730)	3	2	2WU	NO	NO	0.730	17-18										7,495	4,122	1	
		18	SR 1329	FROM US 226 TO END MAINT (MP 0.000 - MP 0.680)	3	2	2WU	NO	NO	0.680	18										7,181	3,950		
		19	SR 1354	FROM NC 261 TO END MAINT (MP 0.000 - MP 1.020)	3	2	2WU	NO	NO	1.020	18										10,771	5,924		
TOTAL FOR PF	ROJ NO. 2018CPT.1	13.05.20612	2							5.320											55,966	30,782	1	
	GRAND TOTAL									28.887		665	14.76	190	160	3,110	8,854	6,226	949	3,395	108,996	59,949	2	200

	_	1
PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.13.05.10611, 2018CPT.13.05.20611,	0	15
2018CPT.13.05.20612	7	13

THERMOPLASTIC AND PAINT QUANTITIES

				THEKI	1	1	T			440000000-E	4457000000-N	4710000000-E	4721000000-E	481000	0000-E	484700	0000-E	4905000000-N
PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	ТҮР	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE SIGNS (STATIONARY)	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC		PAINT PAVEMENT MARKING LINES (4") WHITE		POLYUREA PAVEMENT MARKING LINES (4") WHITE (HIGHLY REFLECTIVE ELEMENTS)	POLYUREA PAVEMENT MARKING LINES (4") YELLOW (HIGHLY REFLECTIVE ELEMENTS)	SNOWPLOWABLE PAVEMENT MARKERS
NO		NO			NO					SF	LS	LF	EA	LF	LF	LF	LF	EA
2018CPT.13.05.10611	Mitchell	1	NC 261	FROM SR 1361 +0.35 MILES TO 0.5 MILES S OF SR 1159 (MP 0.550 - MP 7.932)	1	2	2WU	7.382	22	830	*	40	12			77,954	77,954	780
	OLNO 2018CDT 12	05 10611		· · · · · · · · · · · · · · · · · · ·				7.382		830		40	12			77,954	77,954	780
TOTAL FOR PR	ROJ NO. 2018CPT.13	.05.10611														155	,908	
					· ·		1	l .	ı	1	1	1					,	
2018CPT.13.05.20611	Mitchell	2	SR 1117	FROM NC 226 TO NC 226 (MP 0.000 - MP 2.282)	2	2	2WU	2.282	20					48,196	48,196			
		3	SR 1137	FROM US 19 TO AVERY CO (MP 0.000 - MP 2.940)	2	2	2WU	2.940	18-20					62,093	62,093			
		4	SR 1251	FROM NC 226 TO NC 226 (MP 0.000 - MP 0.490)	2	2	2WU	0.490	16-17									
		5	SR 1293	FROM SR 1195 TO END MAINT (MP 0.000 - MP 0.200)	2	2	2WU	0.200	18									
		6	SR 1217	FROM SR 1218 TO SR 1211 (MP 1.141 - MP 2.619)	3	2	2WU	1.478	18-20					31,215	31,215			
		7	SR 1223	FROM NC 261 TO END MAINT (MP 0.000 - MP 2.131)	3	2	2WU	2.131	18					45,007	45,007			
		8	SR 1337	FROM NC 226 TO END PVMT (MP 0.000 - MP 1.103)	3	2	2WU	1.103	18	1,237	*			23,295	23,295			
		9	SR 1351	FROM SR 1338 TO DEAD END (MP 0.000 - MP 0.241)	3	2	2WU	0.241	16-18									
		10	SR 1190	FROM NC 226 ALT TO NC 226 (MP 0.000 - MP 0.980)		2	2WU	0.980	18									
		11	SR 1312	FROM SR 1316 TO NC 197 (MP 0.200 - MP 2.11)		2	2WU	1.910	18									
		12	SR 1317	FROM SR 1316 TO END MAINT (MP 0.000 - MP 0.730)		2	2WU	0.730	17-18									
		13	SR 1329	FROM US 226 TO END MAINT (MP 0.000 - MP 0.680)		2	2WU	0.680	18									
		14	SR 1354	FROM NC 261 TO END MAINT (MP 0.000 - MP 1.020)		2	2WU	1.020	18									
TOTAL 500 00	OLNO 2040CDT 42	05 20644						16.185		1,237				209,806	209,806			
TOTAL FOR PR	ROJ NO. 2018CPT.13	3.05.20611								,					,612		1	
					·I		1	I		•	•				,			-
2018CPT.13.05.20612	Mitchell	15	SR 1190	FROM NC 226 ALT TO NC 226 (MP 0.000 - MP 0.980)	3	2	2WU	0.980	18					20,698	20,698			
		16	SR 1312	FROM SR 1316 TO NC 197 (MP 0.200 - MP 2.11)	3	2	2WU	1.910	18	1				40,339	40,339			
		17	SR 1317	FROM SR 1316 TO END MAINT (MP 0.000 - MP 0.730)	3	2	2WU	0.730	17-18	607	*			-,	-,			
		18	SR 1329	FROM US 226 TO END MAINT (MP 0.000 - MP 0.680)	3	2	2WU	0.680	18	1								
		19	SR 1354	FROM NC 261 TO END MAINT (MP 0.000 - MP 1.020)	3	2	2WU	1.020	18	1				21,542	21,542			
		!						5.320		607				82,579	82,579			
TOTAL FOR PROJ NO. 2018CPT.13.05.20612														,158		<u> </u>		
					I	1	ı	I	1	1	1	1	1	103	,	1		<u>1</u>
								28.887		2,674	1	40	12	292,385	292,385	77,954	77,954	780
	GRAND TOTAL							_0.007		=,0.7	<u> </u>	1			,770		,908	
					1		1	l		1	1	1	I	304	,	133	,	<u> </u>



LEGEND

- STATIONARY SIGN

SIGNING PLACEMENT P

← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

ROAD TES AND DIRECTION WORK AHEAD W20-1 NEXT W7-3aP 24" X 18" NOTES PER DIF

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 RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)

LOW/SOFT SHOULDER

ROAD

UNDER

CONST

G20-2 A

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- 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.

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

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.





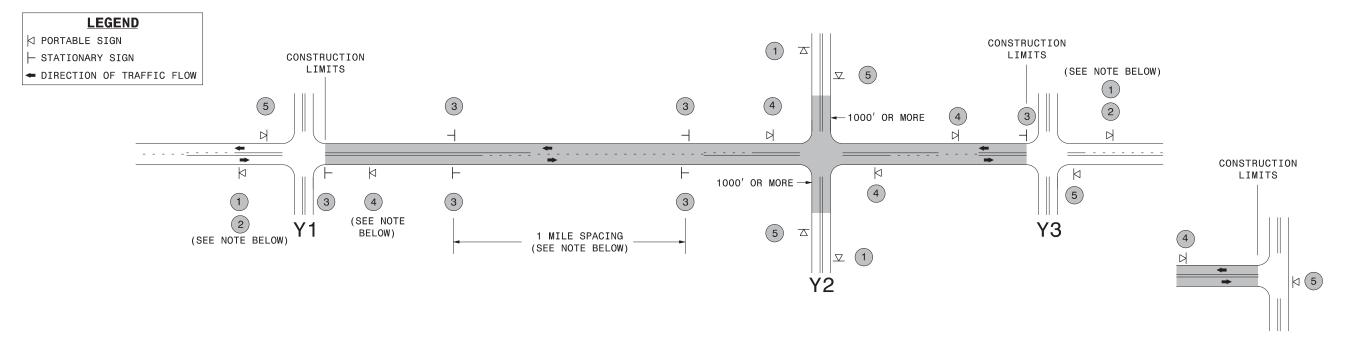
PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER



RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS

PROJ. REFERENCE NO. SHEET NO. 2018CPT 13 05 10611 2018CPT.13.05.20611, 2018CPT.13.05.20612 11

SIGNING FOR ASPHALT SURFACE TREATMENT



-Y- LINE SIGNING

MAINLINE (-L-) SIGNING STATIONARY SIGNING NOT REQUIRED FOR ROAD - PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y-WORK THE FOLLOWING -Y- LINE CONDITIONS: LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. AHEAD / W20-1 48" X 48" 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE - SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH 2 2) SUBDIVISION ROADS ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL 3) DEAD END ROADS TES AND DIRECTION WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS LOOSE - ALTERNATE THE FOLLOWING TWO SIGNS: (3) AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS GRAVEL SHALLE BE USED ALONG THE -Y- LINE AS SHOWN BELOW. - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". W8-7 48" X 48" REMOVE UPON COMPLETION OF WORK. - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. NOT ER UNMARKED - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION ROAD PAVEMENT AND SPACE 1 MILE APART THEREAFTER. WORK ŚP 48'' X 48'' Д AHFAD SIGNING PLACEMENT F - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND PLACED 500' IN ADVANCE PLACED 250' IN ADVANCE SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. OF FLAGGER. OF FLAGGER. ROAD - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. UNDER - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS. TREAT CONST SP 13106 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. FND

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

FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY

"LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN

MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.

ROAD WORK

G20–2 A 48" X 24"

START OF CONTRACT WORK.

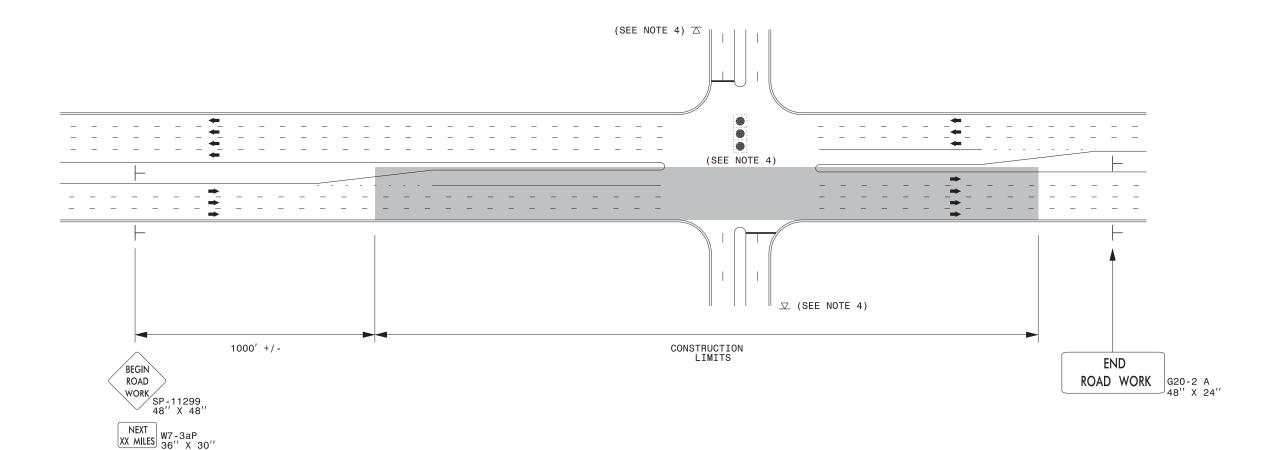
ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

TEE INTERSECTION

MAPS LESS

THAN 2 MILES

URBAN / SUBURBAN WORKZONES



NOTES:

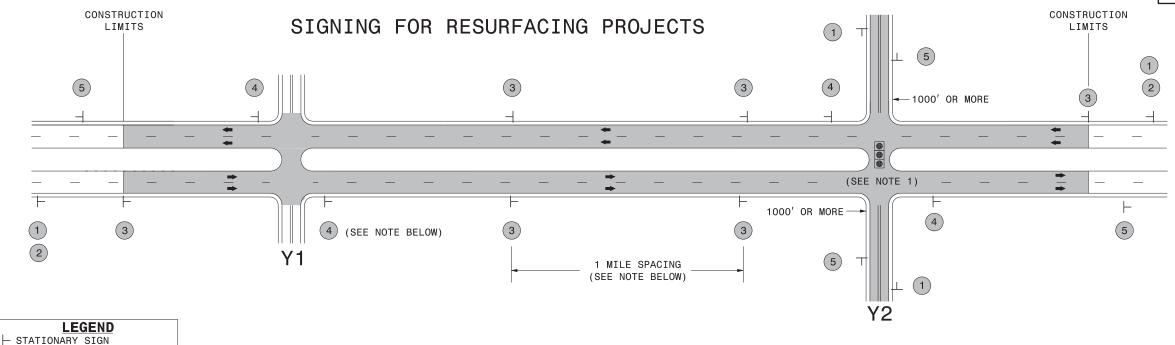
- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. 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.





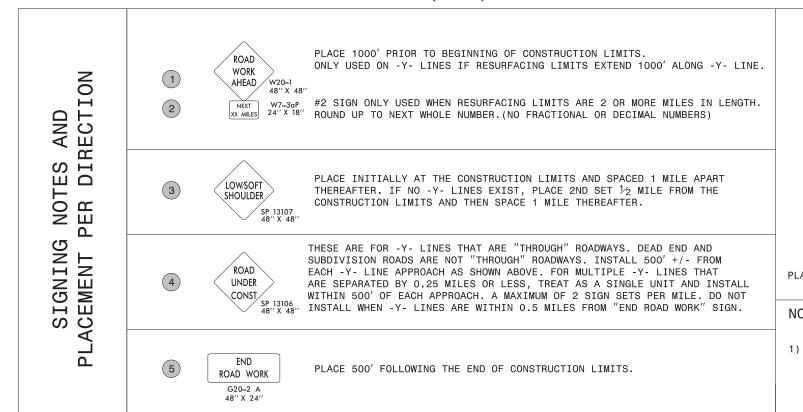
RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

PROJ. REFERENCE NO. SHEET NO. 2018CPT.13.05.10611, 2018CPT.13.05.20611, 2018CPT.13.05.20612



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

sers vingdriett vuowniodds vkesuritacing_Advwarn_ursnia :irmgarrett ← DIRECTION OF TRAFFIC FLOW

- 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) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMPS 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMPS WITHIN THE WORK ZONE.

TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

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



RESURFACING ADVANCE WARNING SIGNS FOR HIGH SPEED FACILITIES ≥ 60 MPH

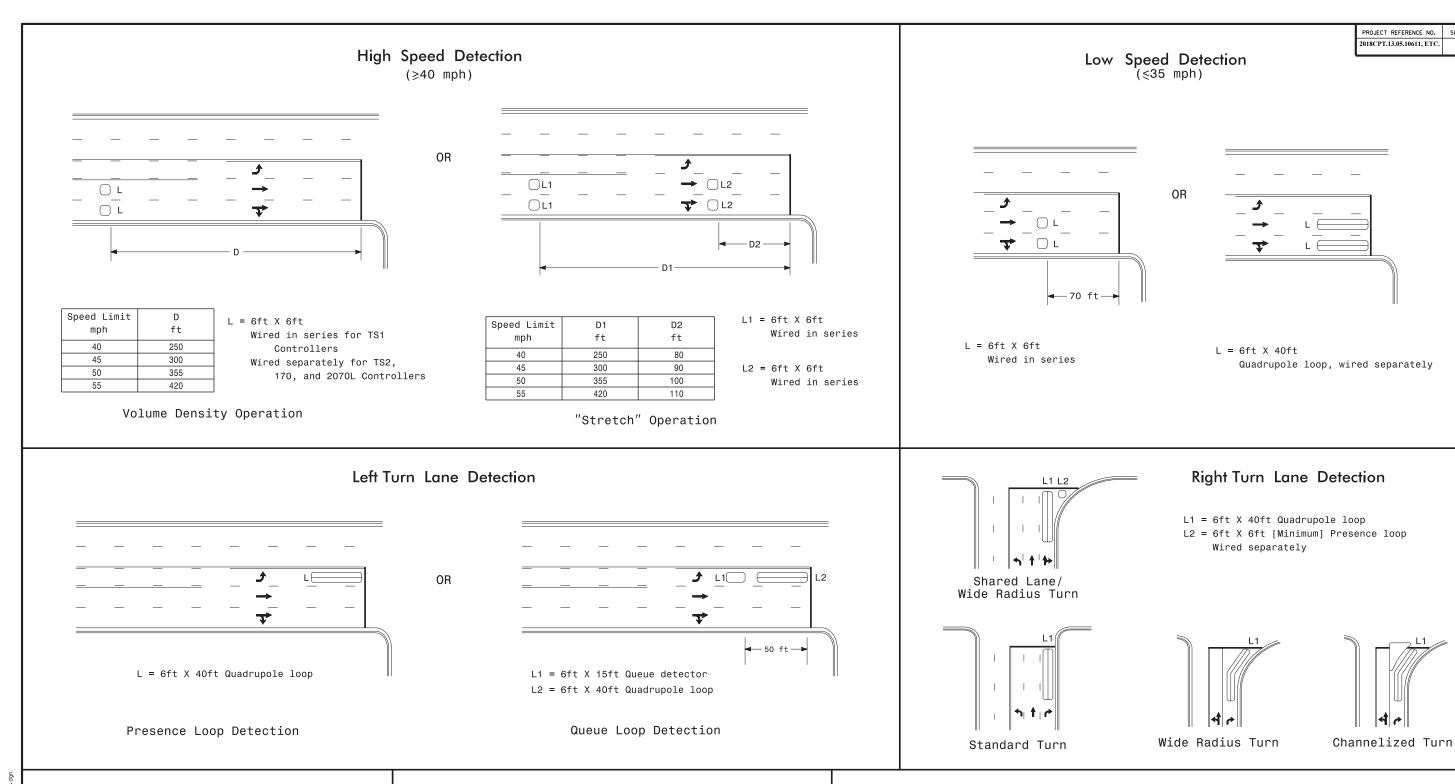
LEGEND

DIRECTION OF TRAFFIC

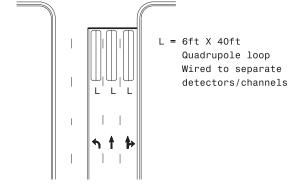
CHANGEABLE MESSAGE

⊢ STATIONARY SIGN

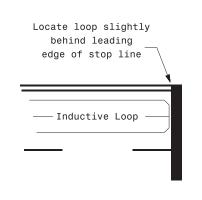
TRAFFIC DRUM







Presence Loop Placement at Stop Lines



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

- stop line is greater than 15' from edge of intersecting roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

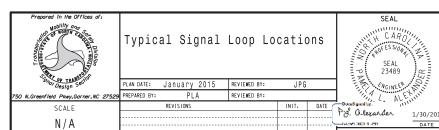
Recommended Number of Turns

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



15

30-JAN-2015 12:39