

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION 6

PLANS

Letting Date: November 16, 2022

CONTRACT ID: DF00414

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2023CPT.06.04.10241.1, 2023CPT.06.04.20241.1 & 36248.224

ROUTE NO.: US 701 BUS., NC 904 & VARIOUS SR

LOCATION: VARIOUS

COUNTY: COLUMBUS

LENGTH OF PROJECT: 6.84 MILES

TYPE OF WORK: RESURFACING, MILLING, SIGNAL LOOPS & PAVEMENT MARKINGS

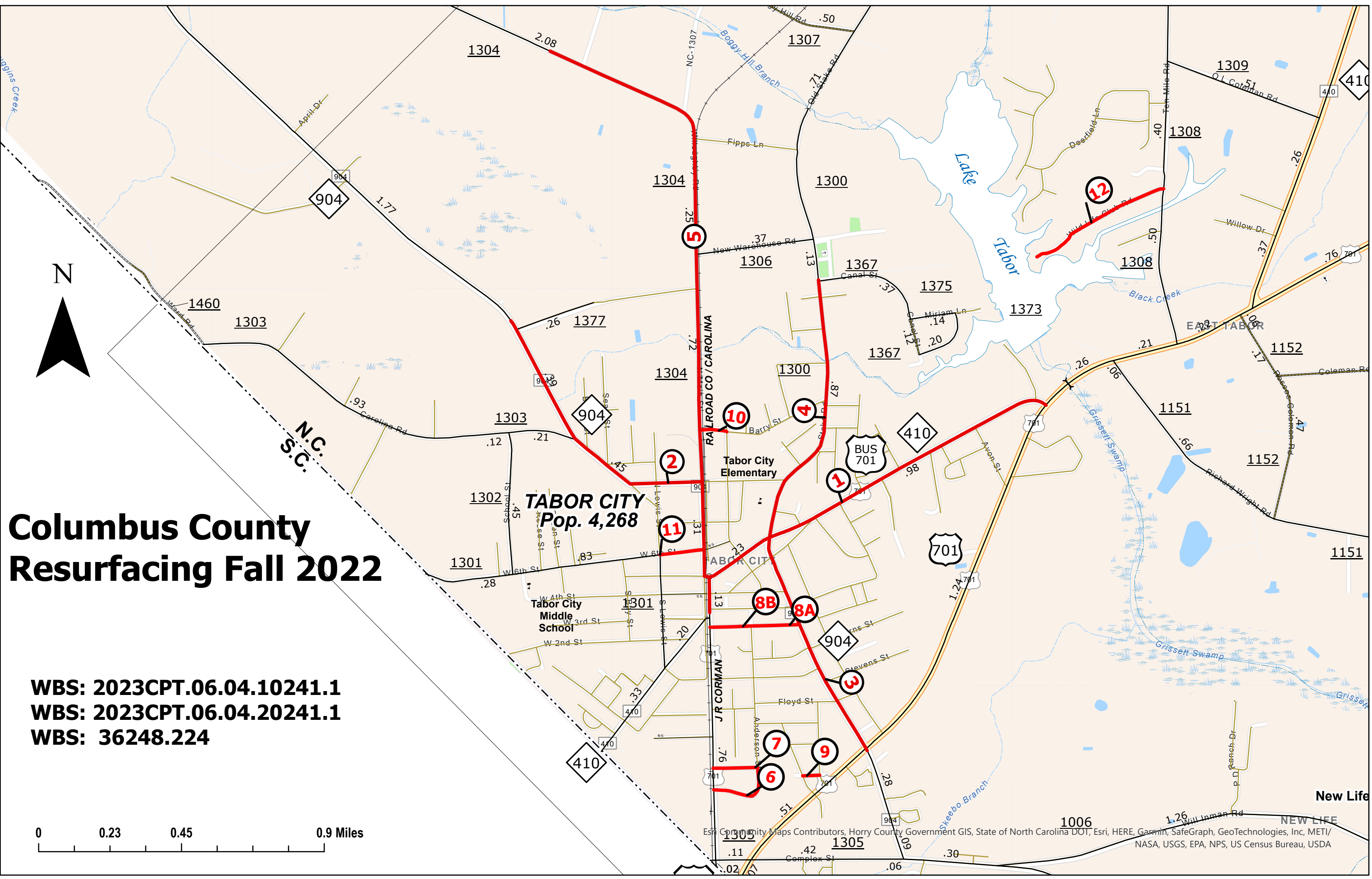
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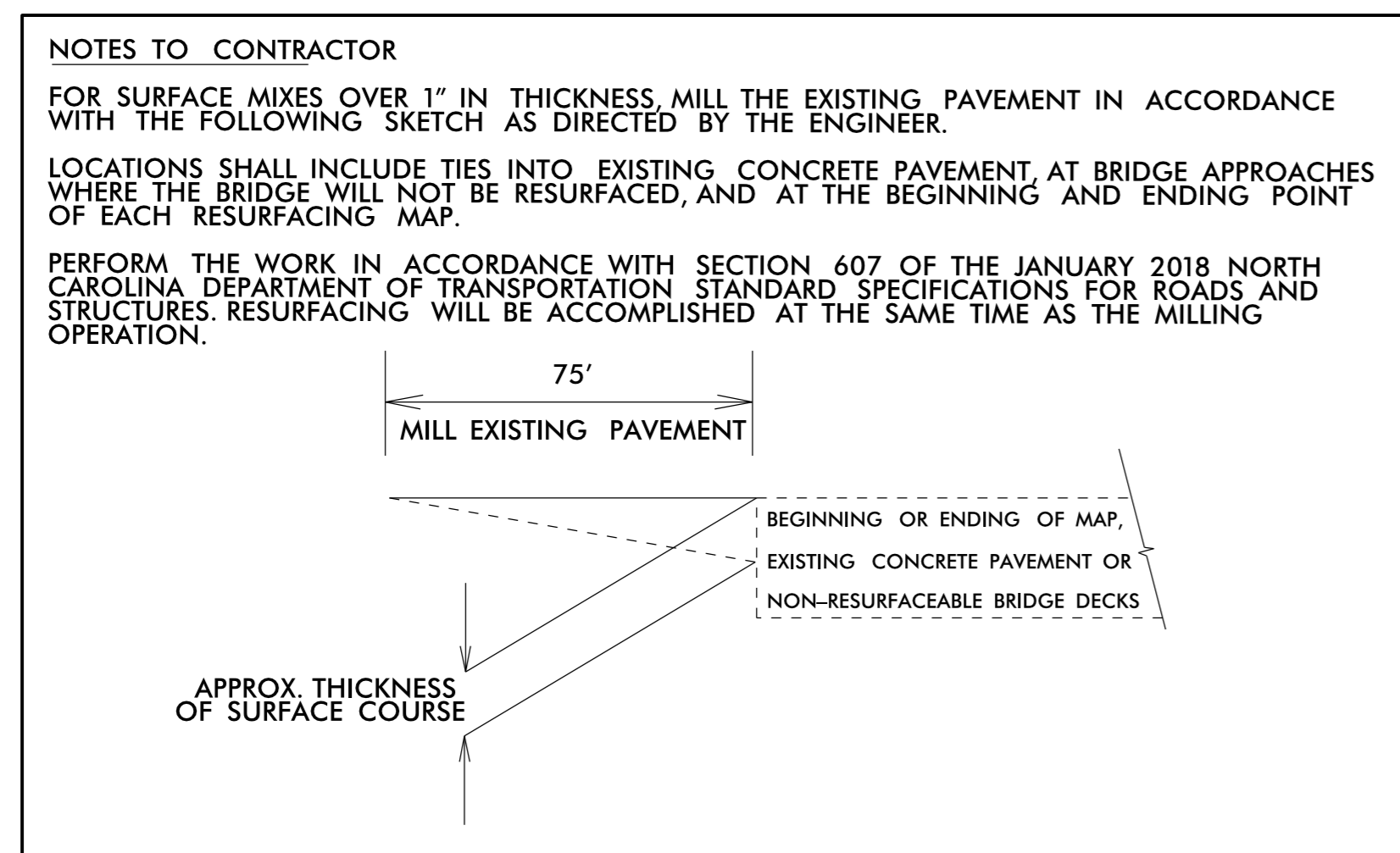
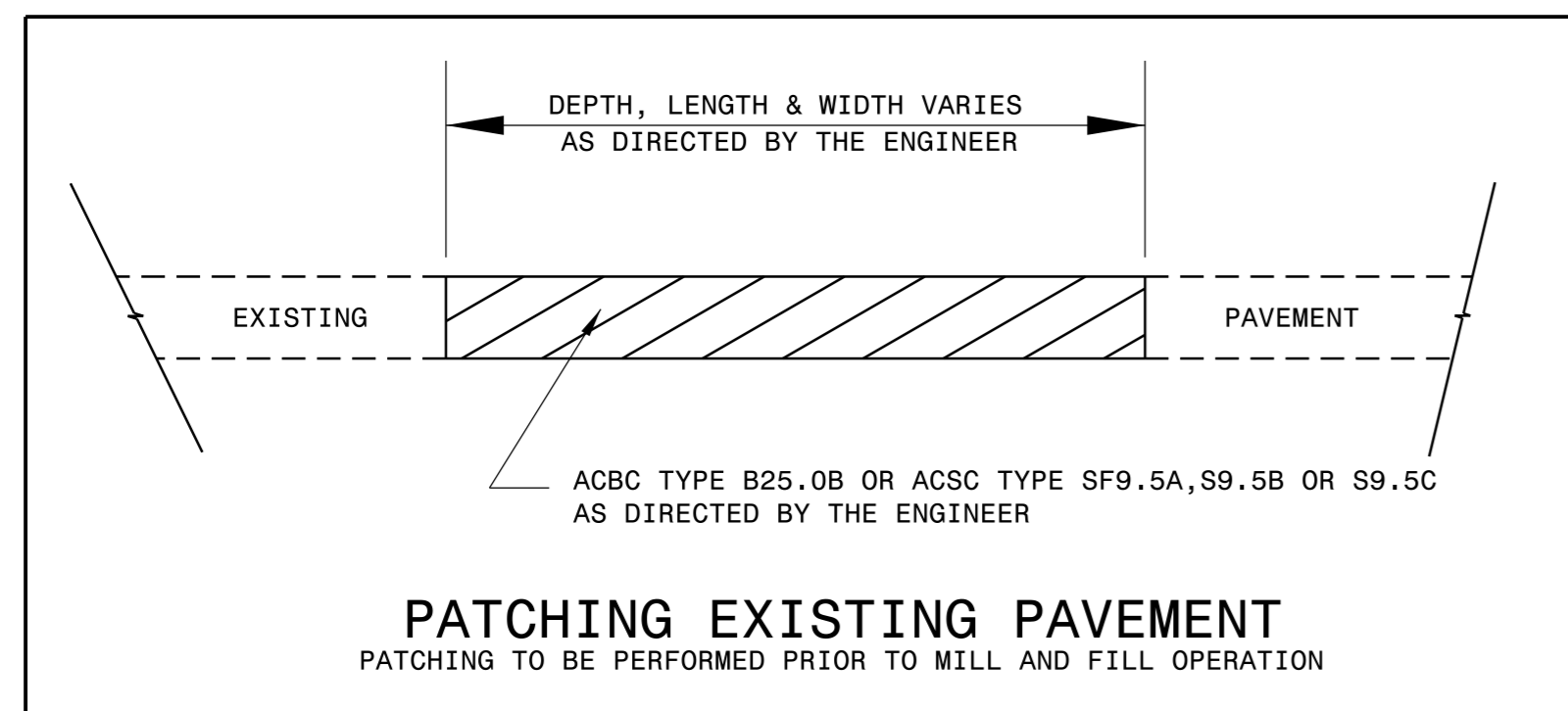
Columbus County Resurfacing Fall 2022

WBS: 2023CPT.06.04.10241.1
WBS: 2023CPT.06.04.20241.1
WBS: 36248.224

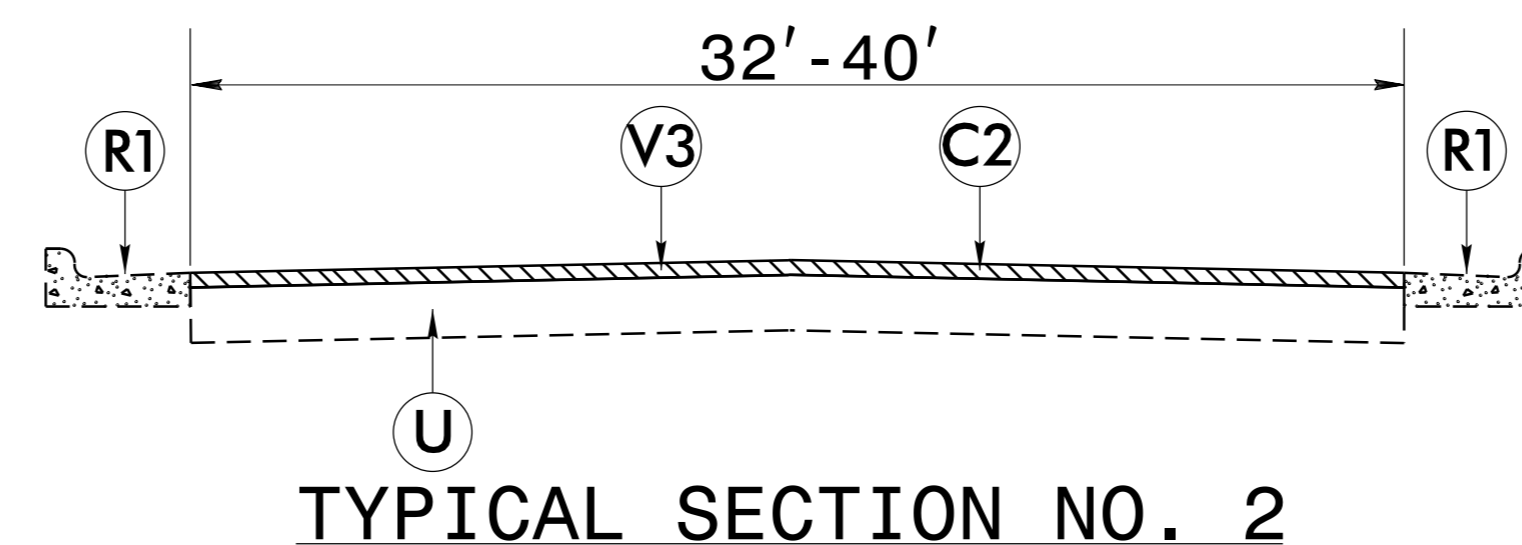
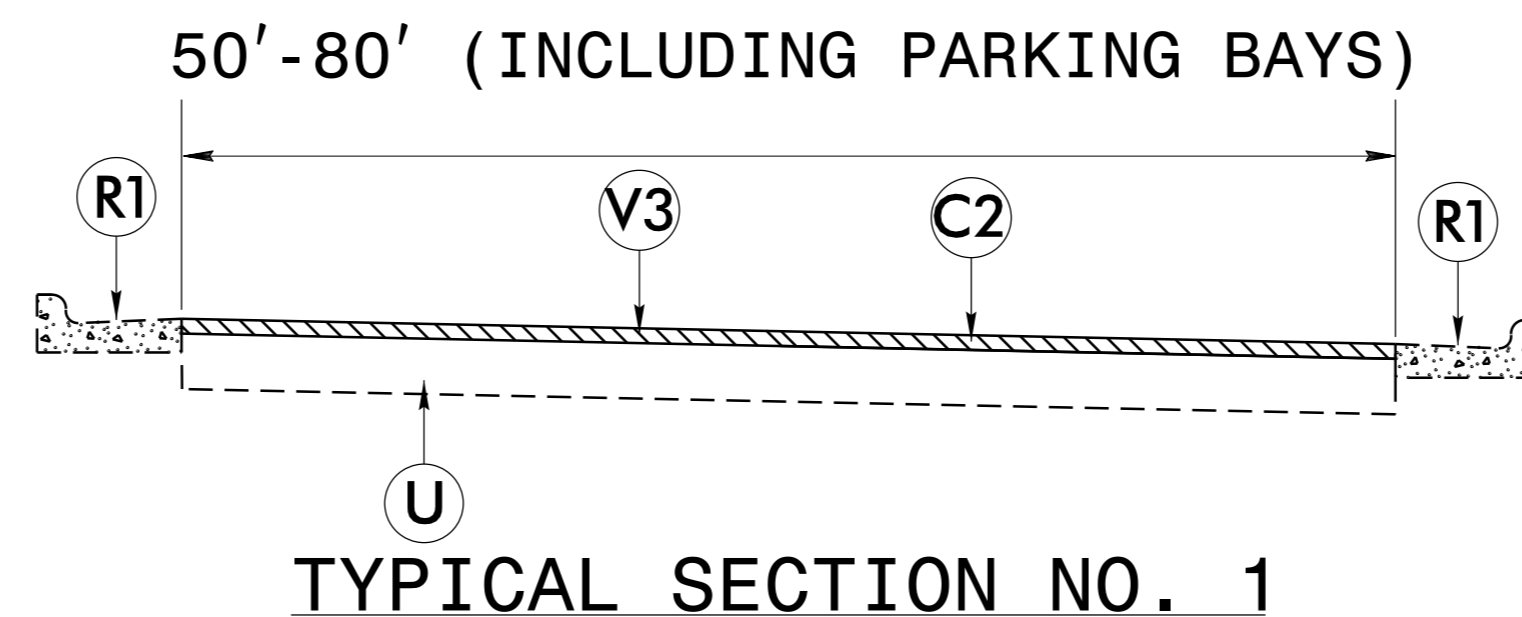


PAVEMENT SCHEDULE

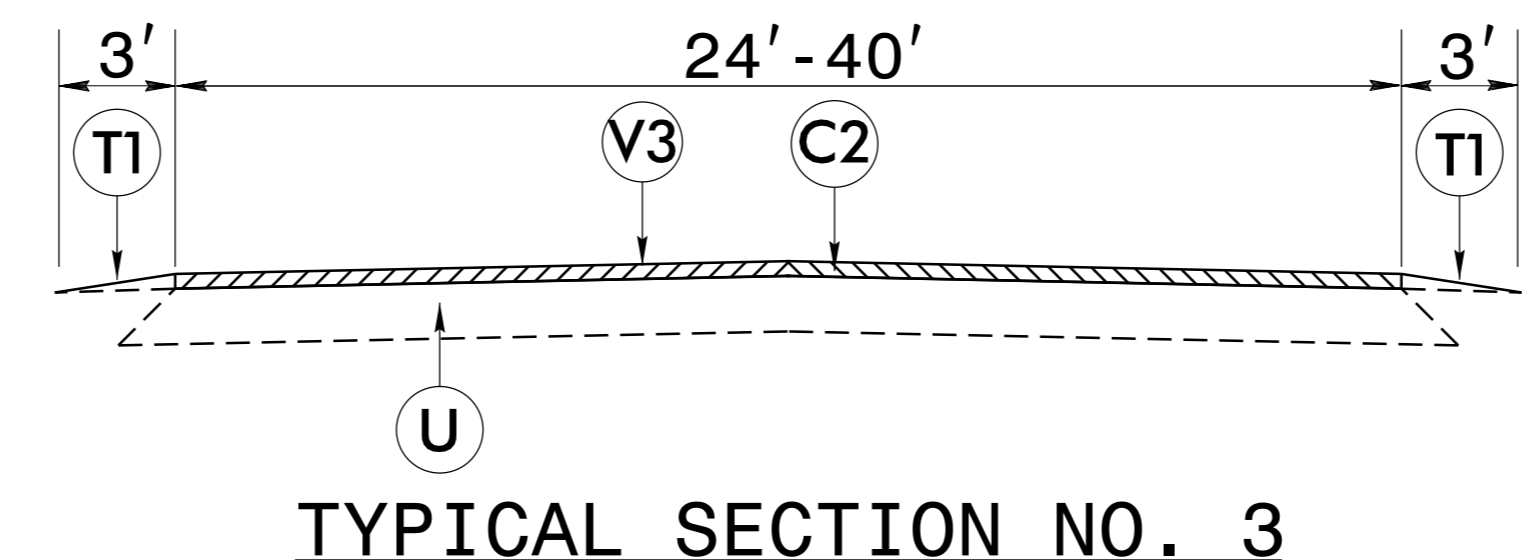
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
R1	EXISTING CURB AND GUTTER
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING ASPHALT PAVEMENT
V1	0" - 1½" MILLING
V2	0" - 4" MILLING
V3	1½" MILLING
V4	2½" MILLING



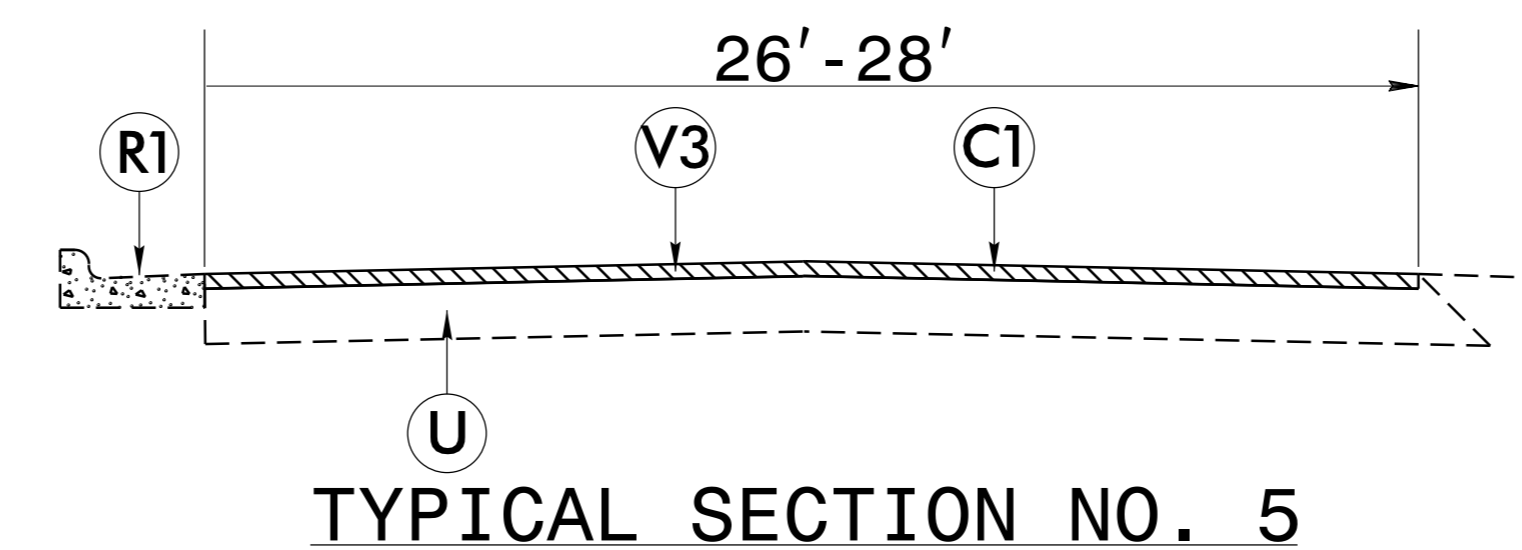
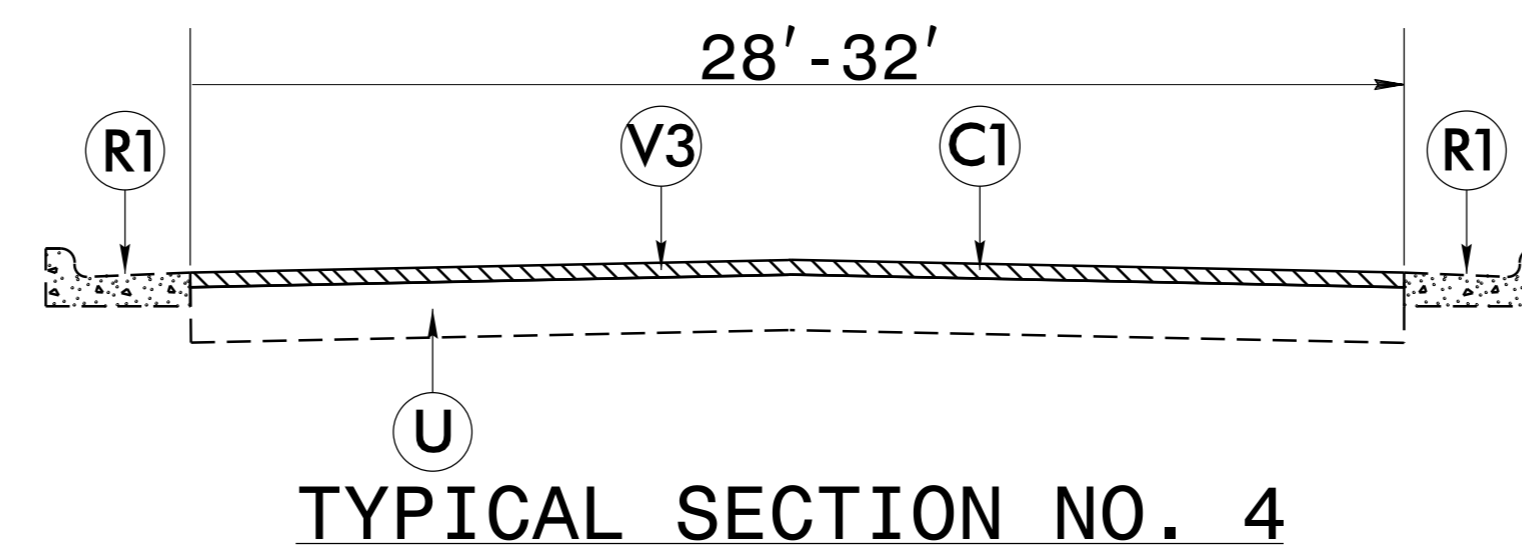
MILLING AT PAVEMENT TIE-INS DETAIL



*PLUS MILL AND FILL
(SEE DETAIL NEXT PAGE)



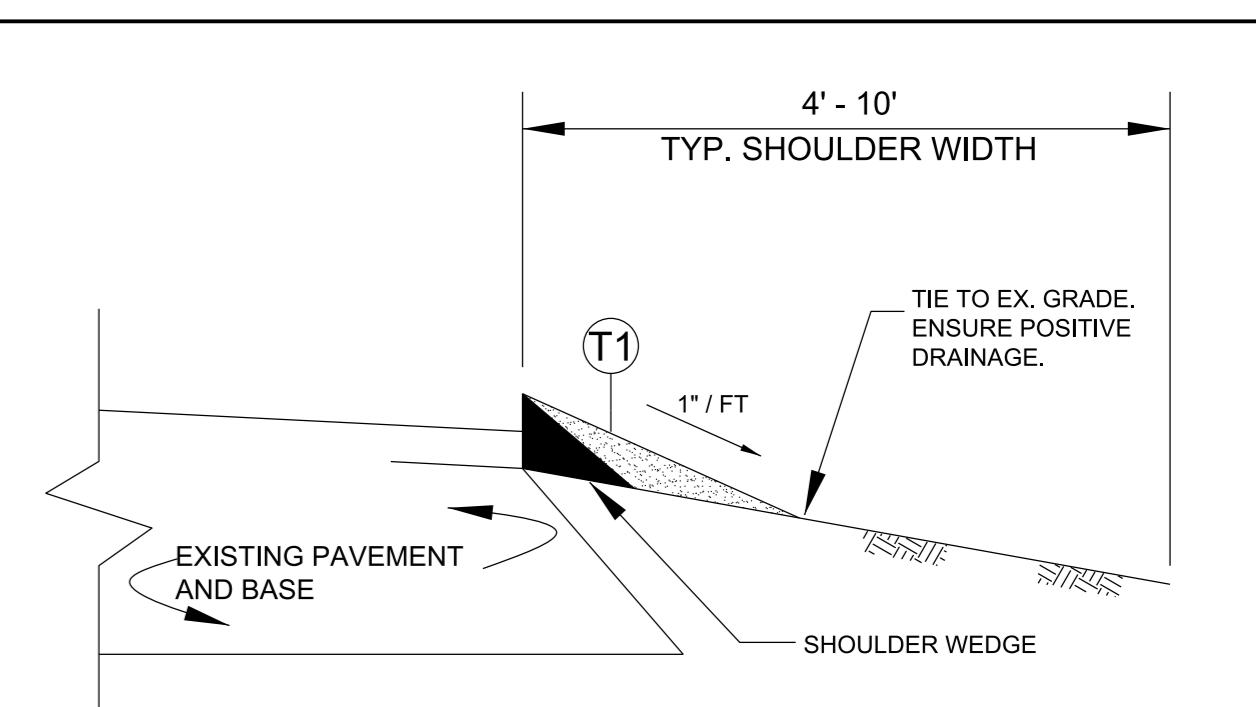
*PLUS MILL AND FILL
(SEE DETAIL NEXT PAGE)



*PLUS MILL AND FILL
(SEE DETAIL NEXT PAGE)

NOTES:

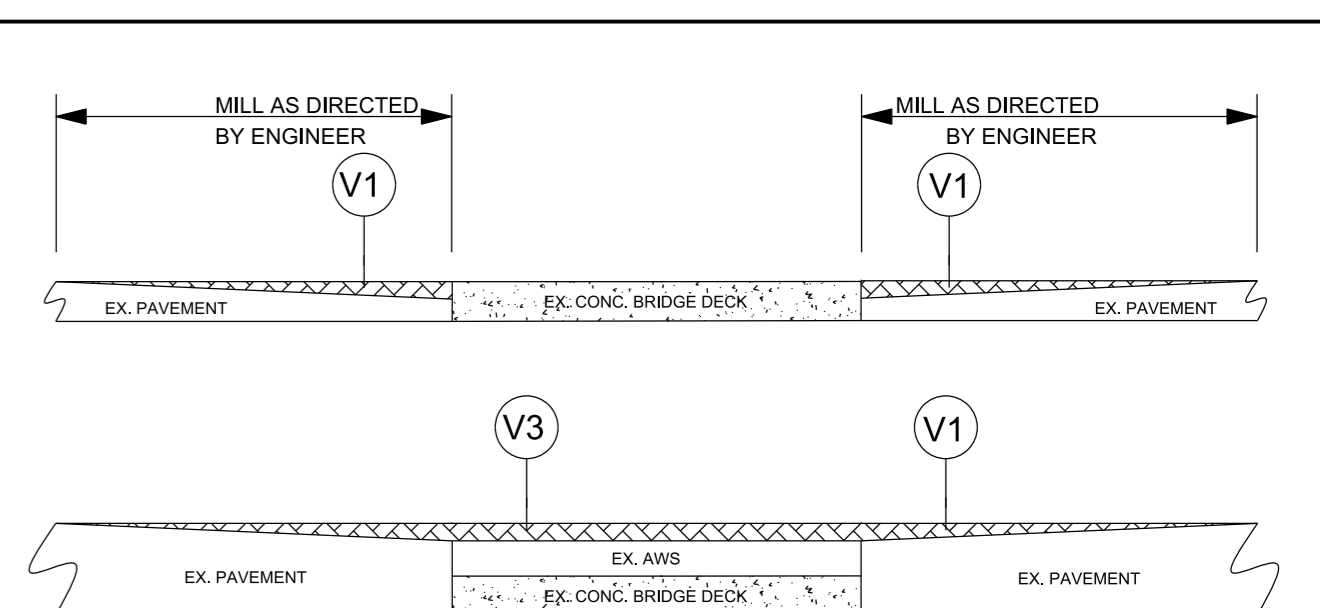
- UPON COMPLETION OF SURFACE MILLING, TEMPORARY PAINT MARKINGS SHALL BE INSTALLED WITHIN TIME FRAME ESTABLISHED IN STD. SPECS.



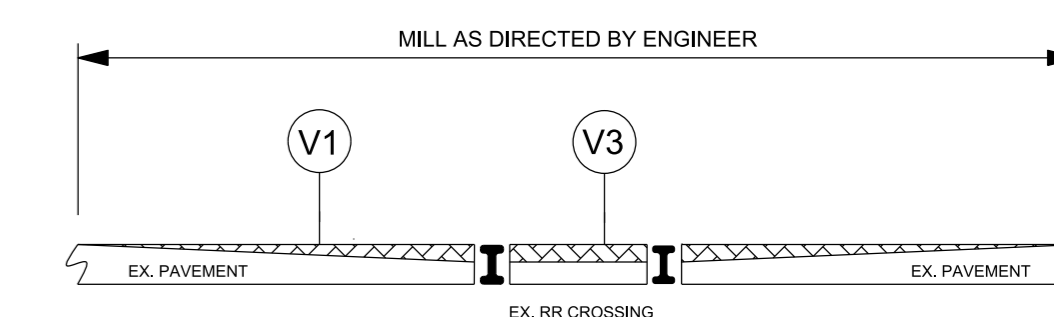
SHOULDER RECONSTRUCTION

NOTES:

- SHOULDER SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM ROADWAY.
- AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE AND COMPACTED USING A ROLLER ASB SHALL TIE FLUSH TO PAVEMENT AND EXISTING SHOULDER.



BRIDGE MILLING



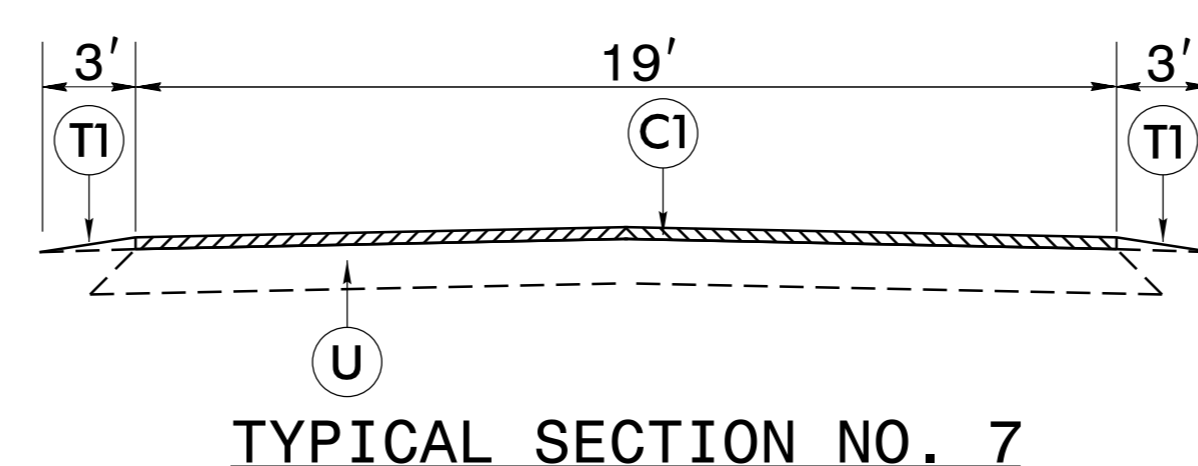
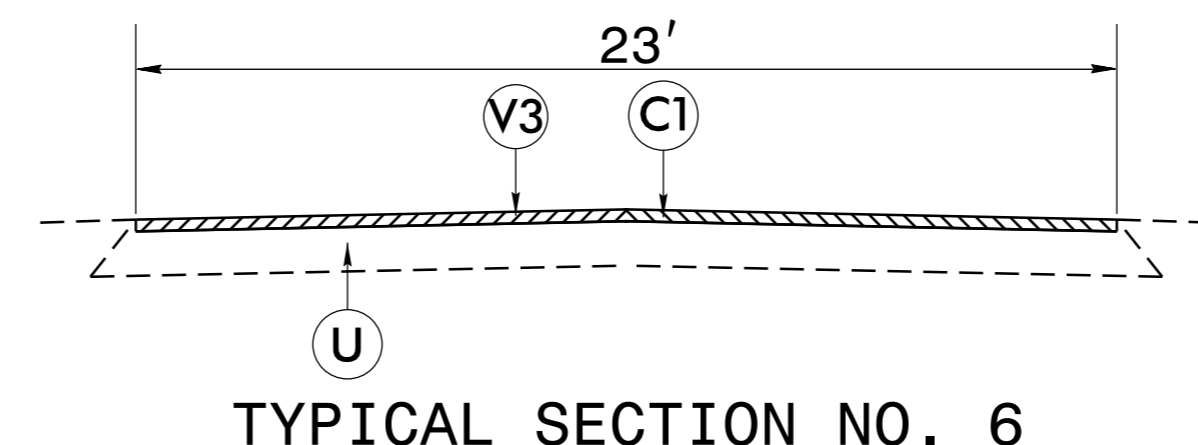
RAILROAD TRACKS MILLING

MILLING APPROACHES

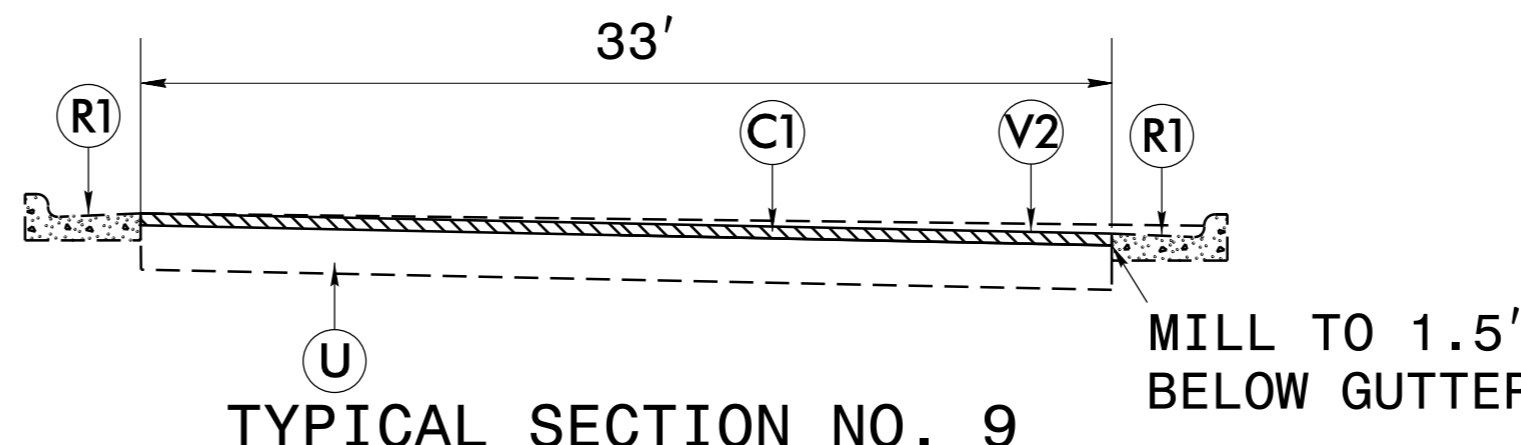
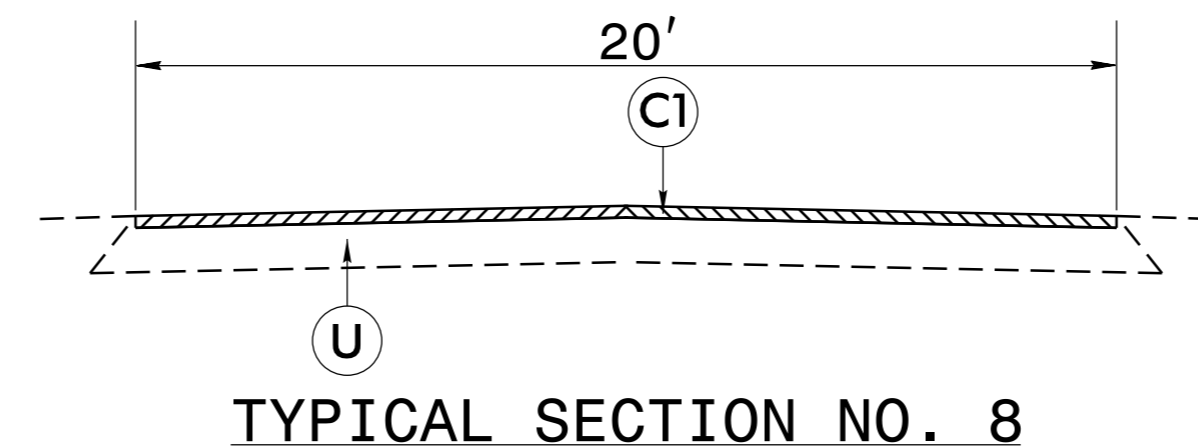
NOTE:
MILLING SHALL BE PERFORMED AT RR CROSSINGS, BRIDGE DECKS AND BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.

PAVEMENT SCHEDULE

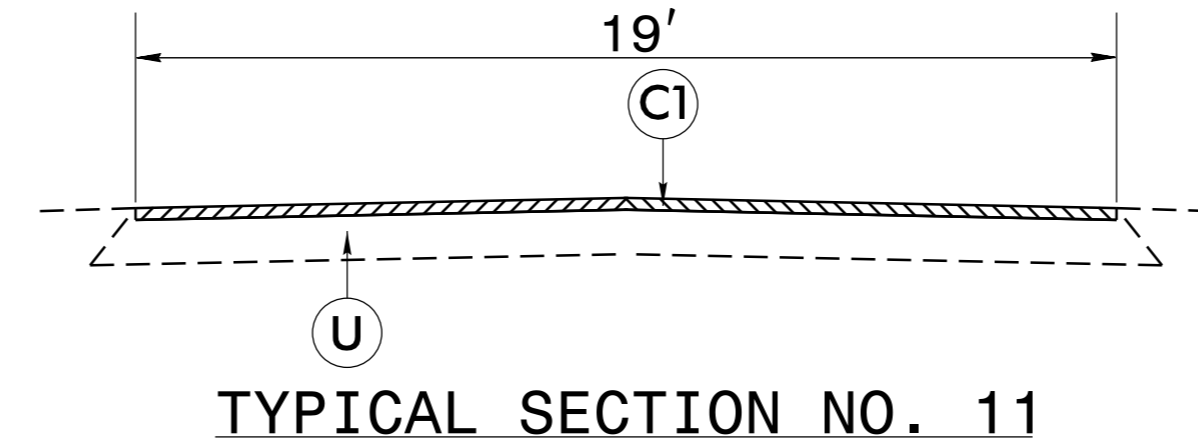
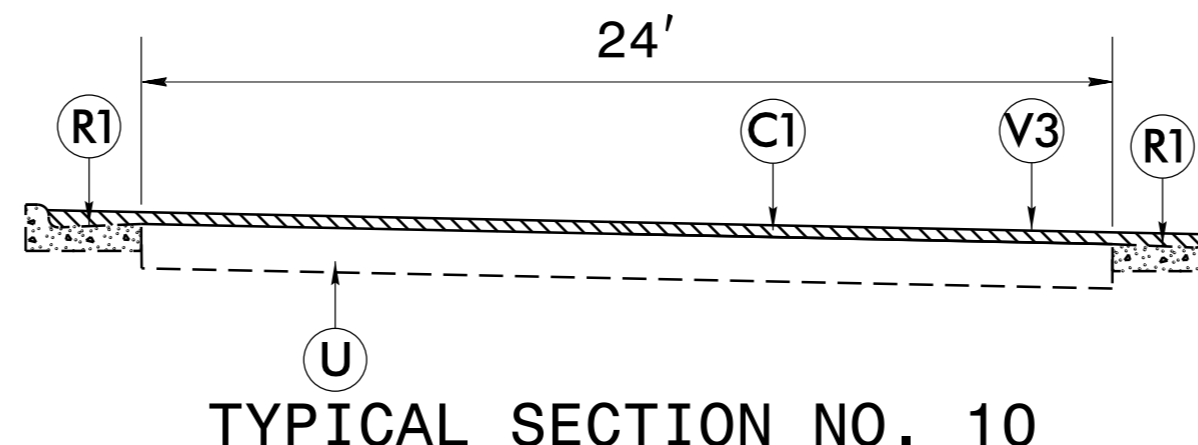
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R1	EXISTING CURB AND GUTTER
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING ASPHALT PAVEMENT
V1	0" - 1½" MILLING
V2	0" - 4" MILLING
V3	1½" MILLING
V4	2½" MILLING



*PLUS MILL AND FILL (SEE DETAIL)

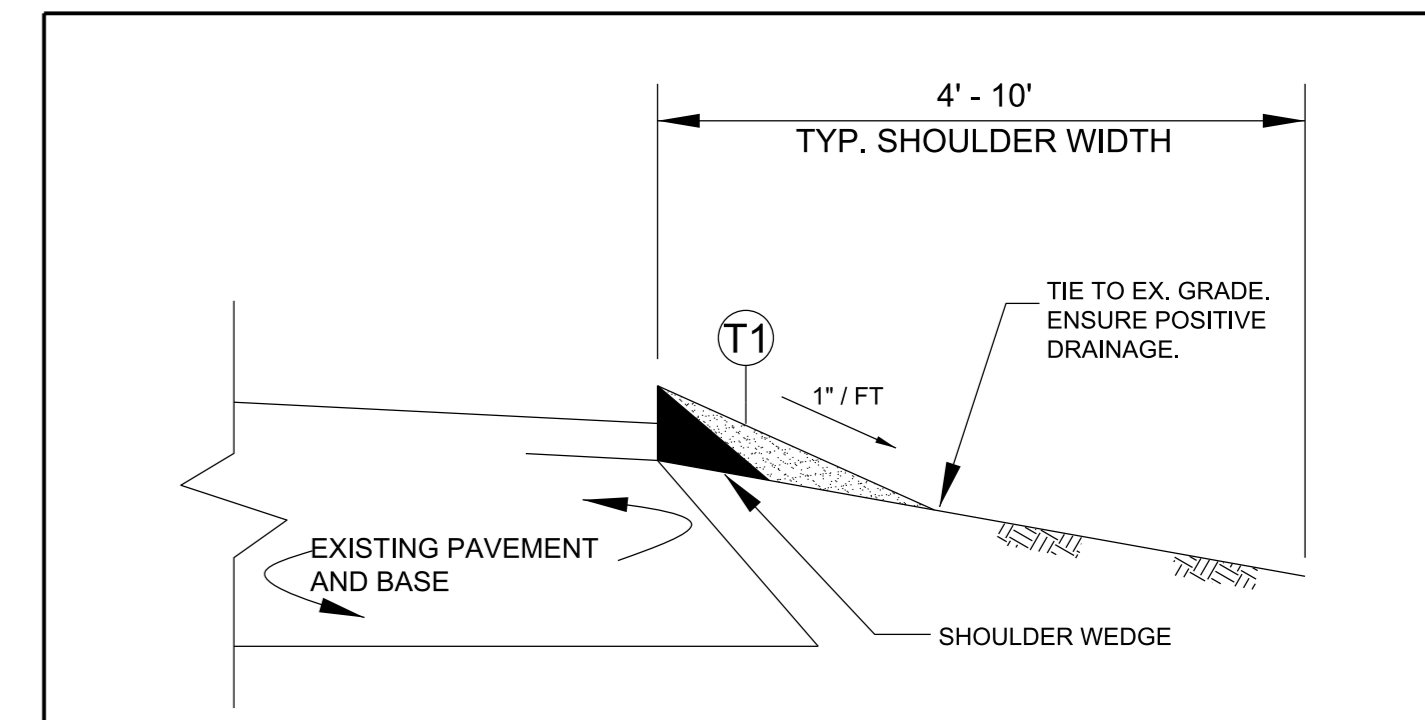


MILL TO 1.5" BELOW GUTTER

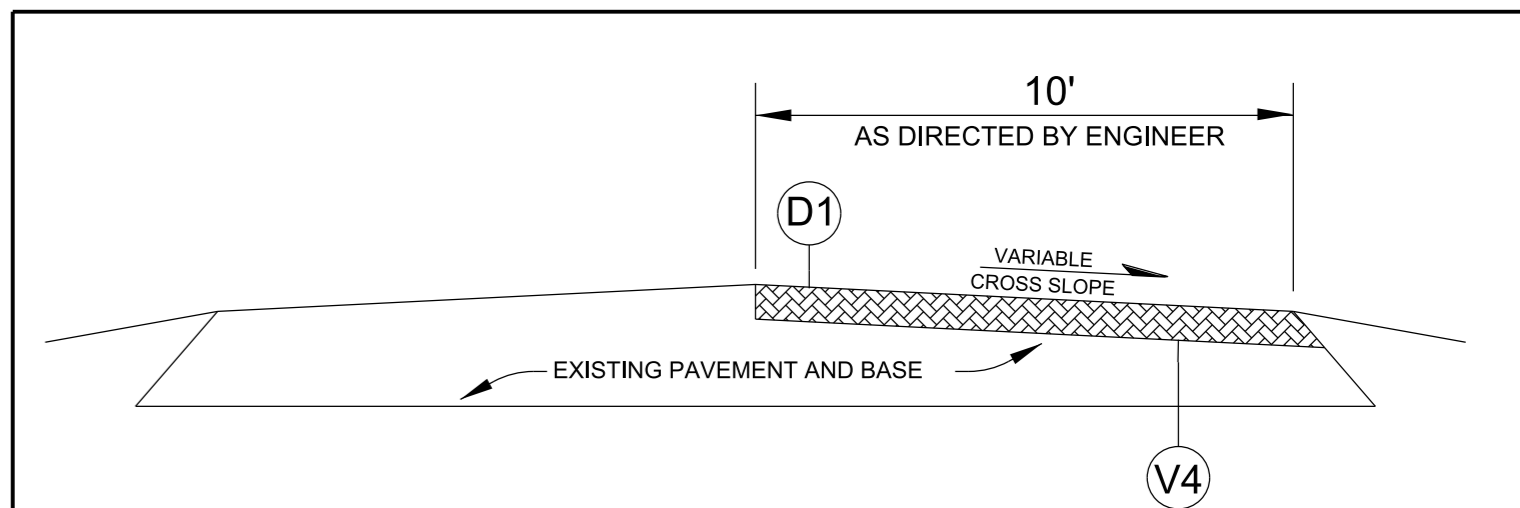
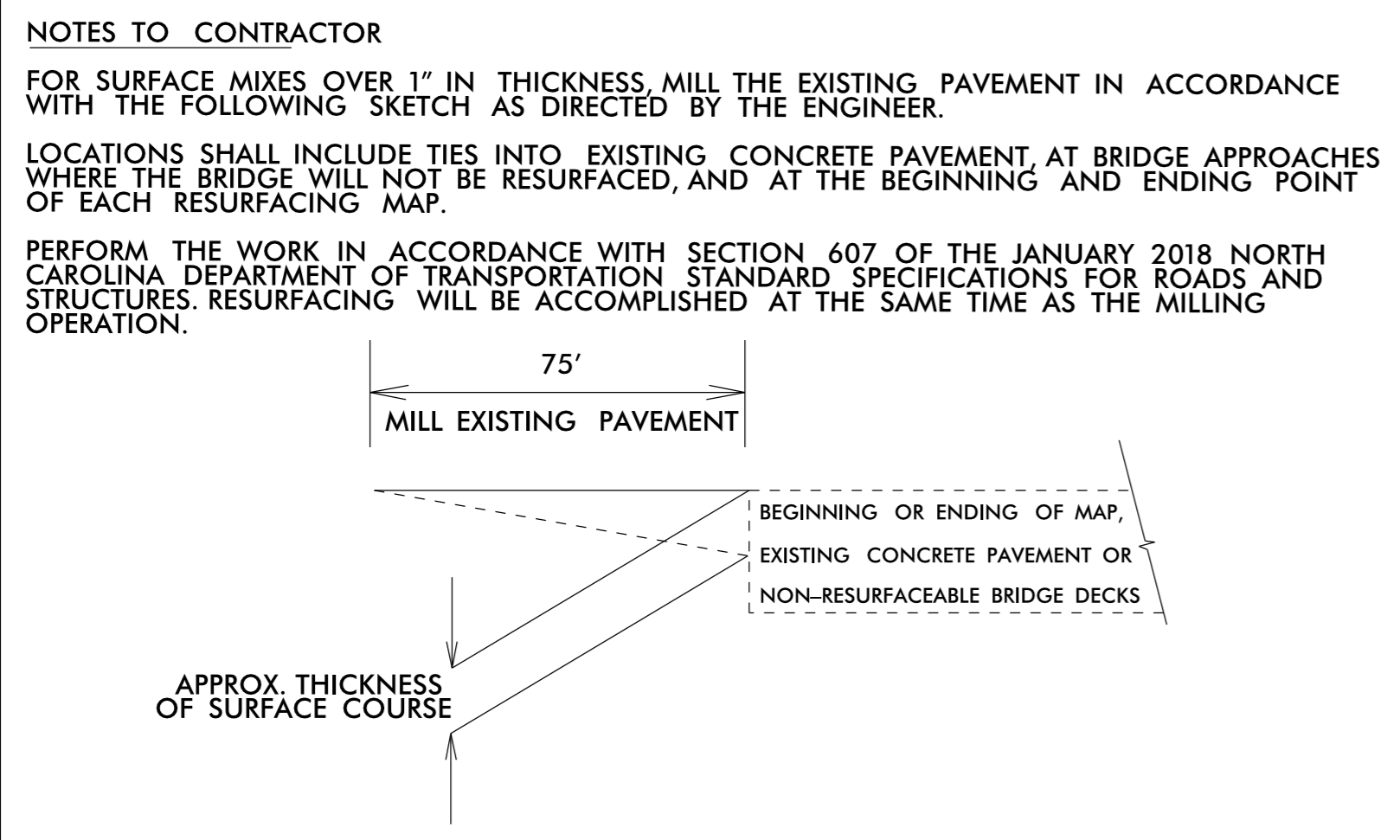
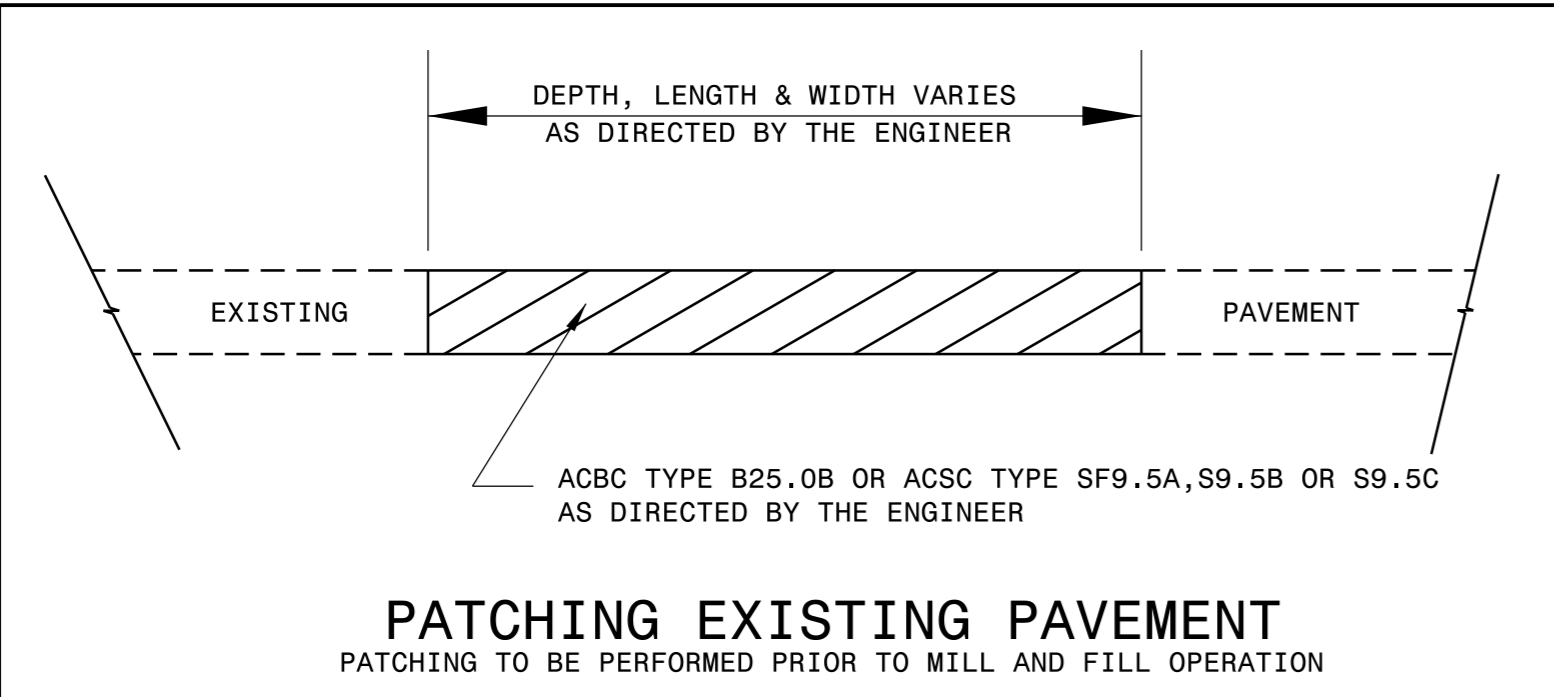


*PLUS MILL AND FILL (SEE DETAIL)

NOTES:
1. UPON COMPLETION OF SURFACE MILLING, TEMPORARY PAINT MARKINGS SHALL BE INSTALLED WITHIN TIME FRAME ESTABLISHED IN STD. SPECS.



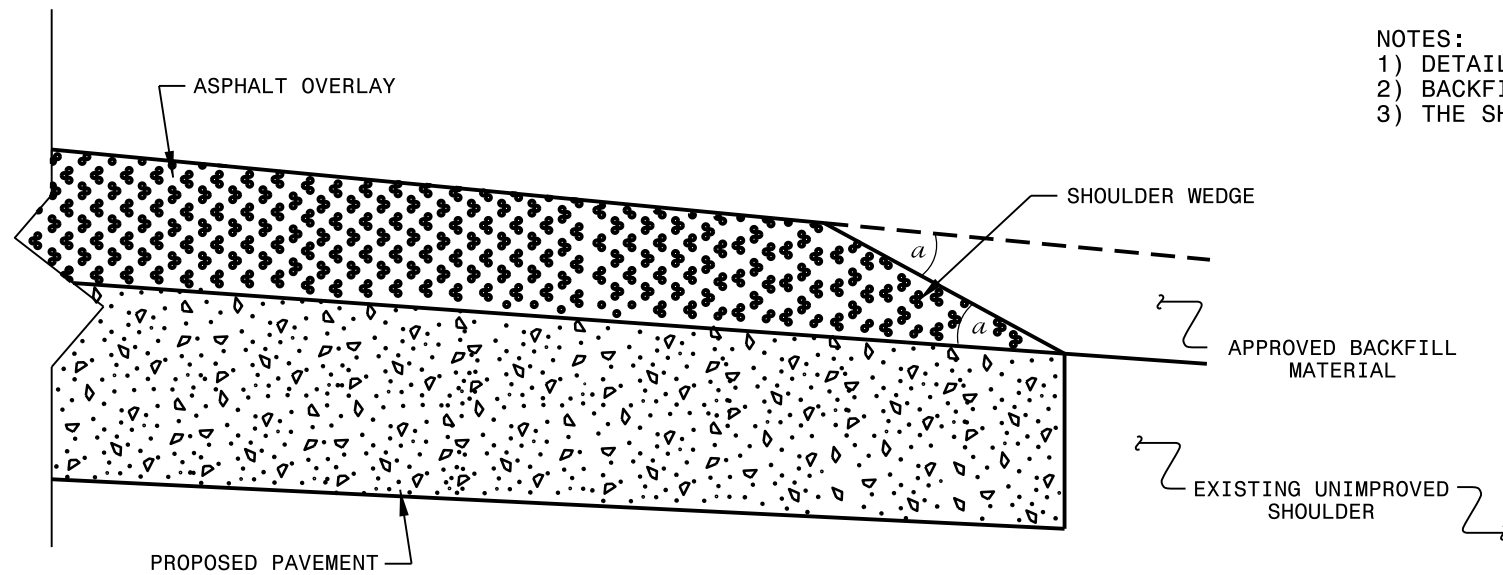
NOTES:
1. SHOULDER SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM ROADWAY.
2. AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE AND COMPACTED USING A ROLLER ASB SHALL TIE FLUSH TO PAVEMENT AND EXISTING SHOULDER.



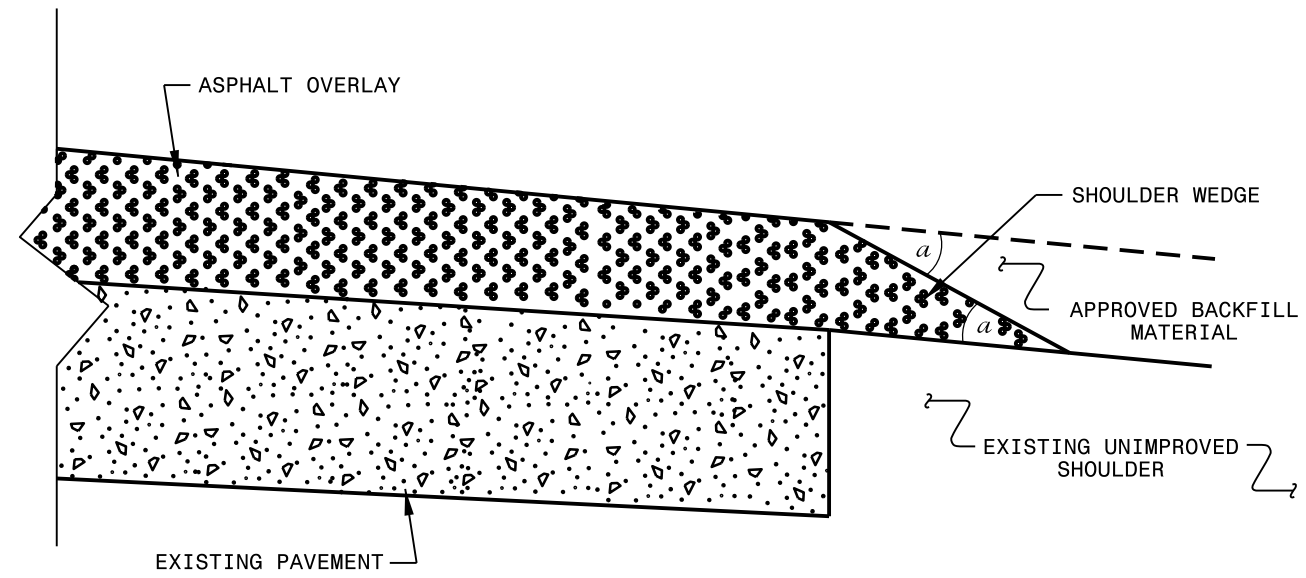
NOTES:
1. DISTRESSED AREAS TO BE REPAIRED BY MILL & FILL SHALL BE DESIGNATED BY THE ENGINEER AFTER COMPLETION OF SURFACE MILLING.
2. FILL MILLED AREAS WITH ASPHALT INTERMEDIATE COURSE BACK FLUSH WITH THE MILLED ASPHALT SURFACE LEFT IN PLACE, PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.

6/2/99
22 SEP 2022 10:03 AM
C:\Users\jstern\OneDrive\Work Files\Projects\Resurfacing\2022 Fall\103\Columbus\typ.dgn

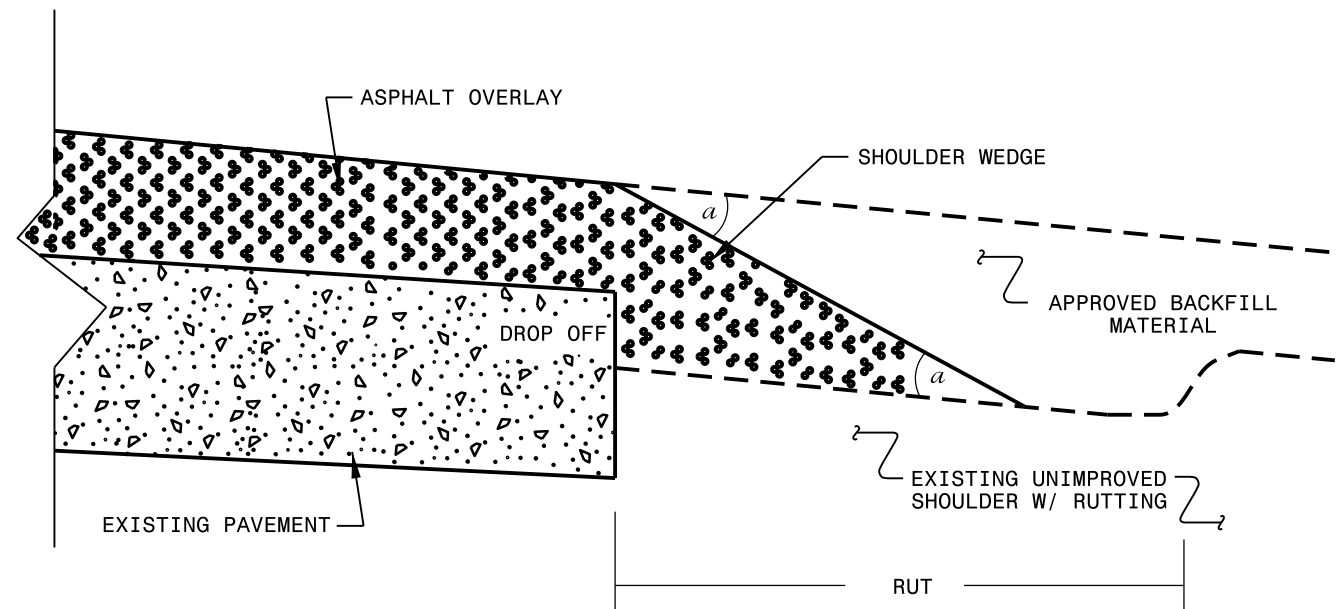
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

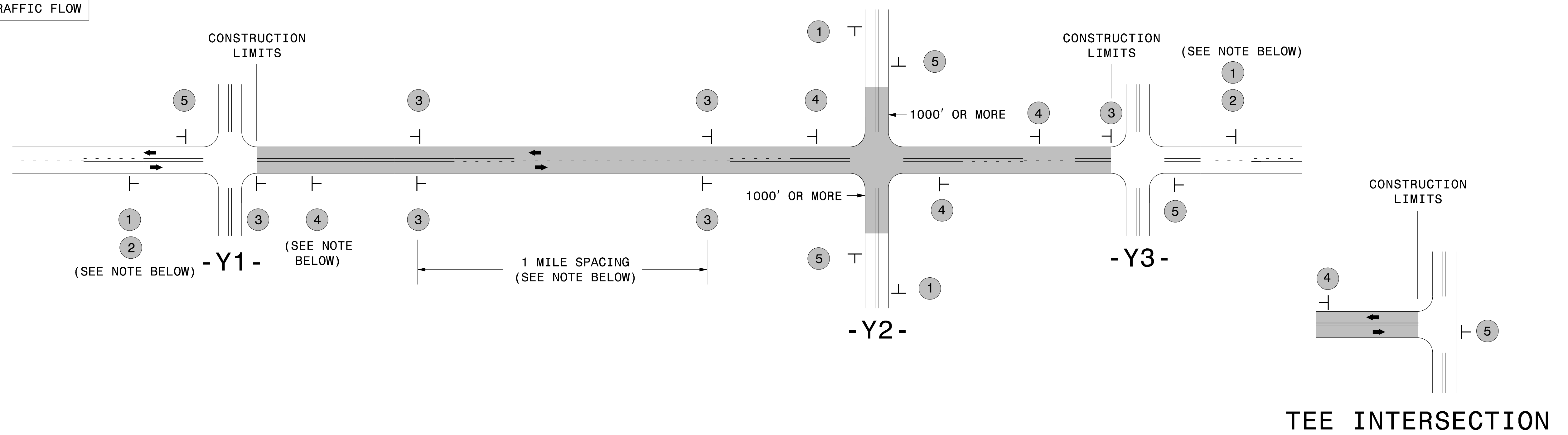
SYSTEMS DESIGN USER NAME

SIGNING FOR RESURFACING PROJECTS

LEGEND

┃ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

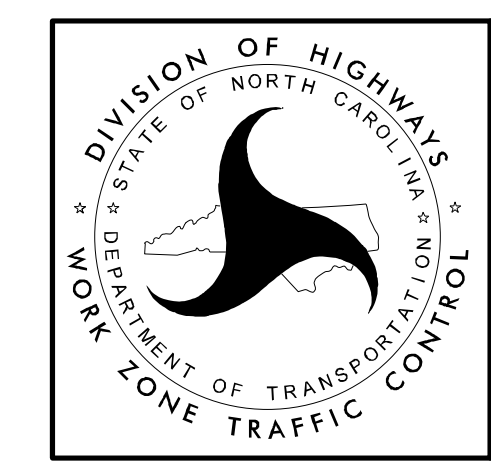
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	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.	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. <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	2	 W7-3aP 24" X 18"	#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)	
	3	 SP 13107 48" X 48"	- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

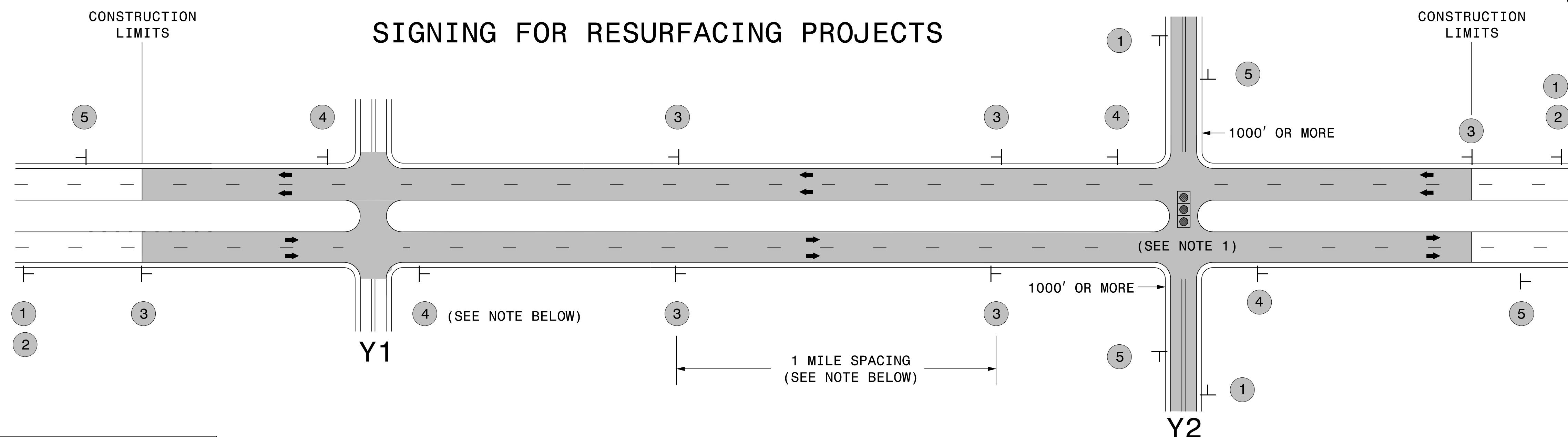
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

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.



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



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

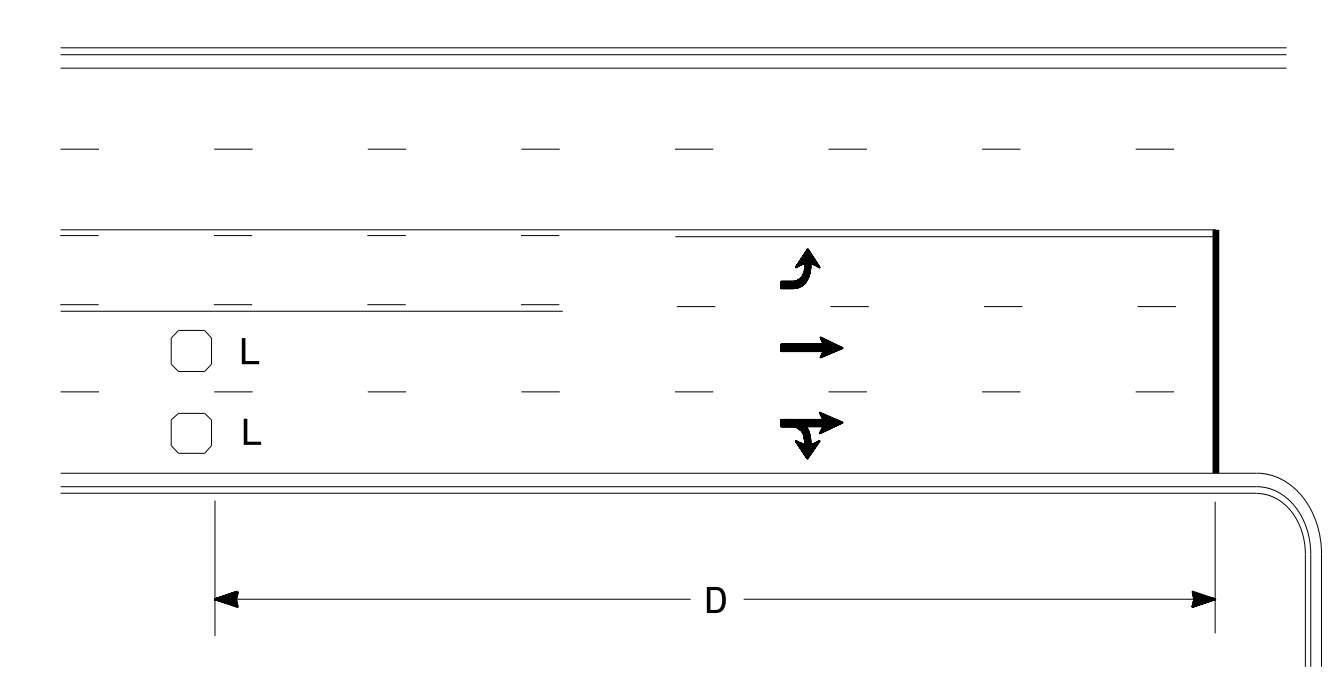
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#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)</p>	<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; align-items: center;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <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.
		<p>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.</p>	
		<p>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.</p>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

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

High Speed Detection (≥40 mph)

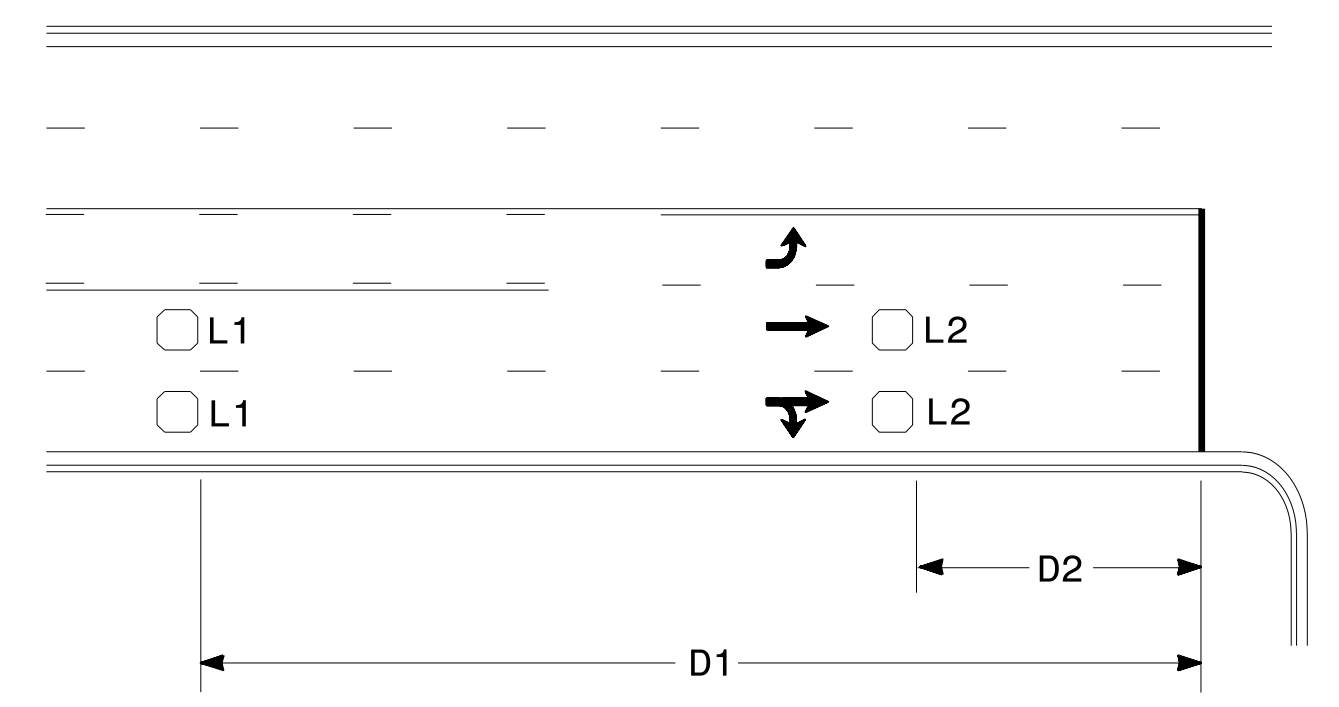


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

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

Volume Density Operation

OR

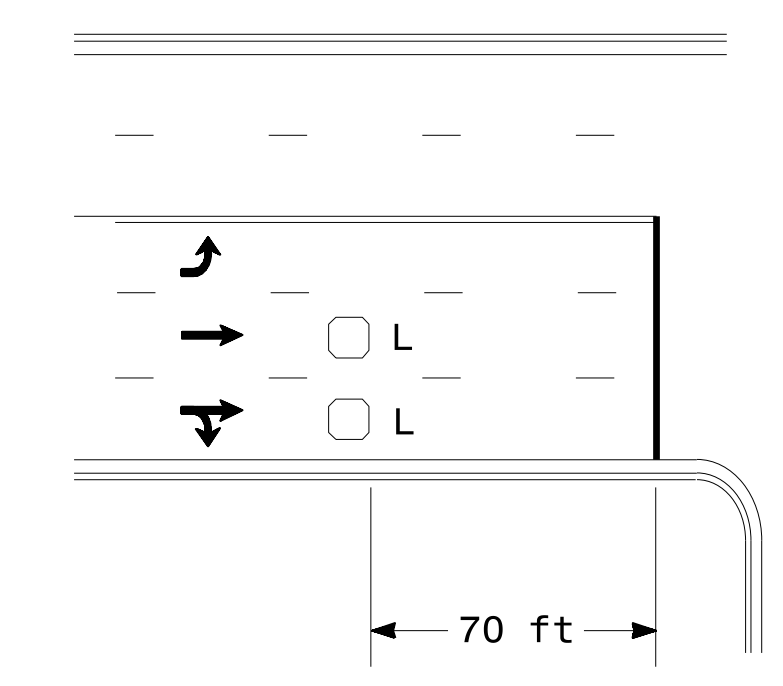


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

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

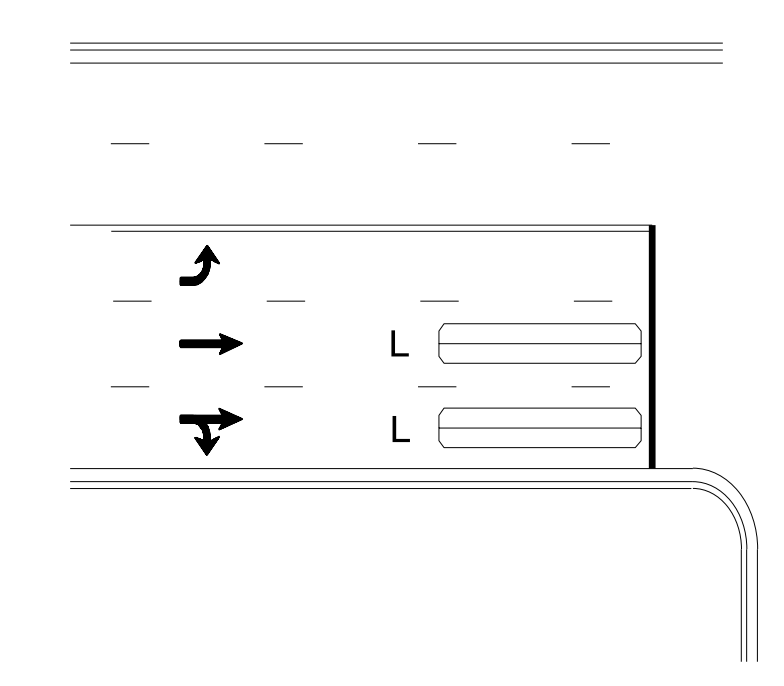
"Stretch" Operation

Low Speed Detection (≤35 mph)



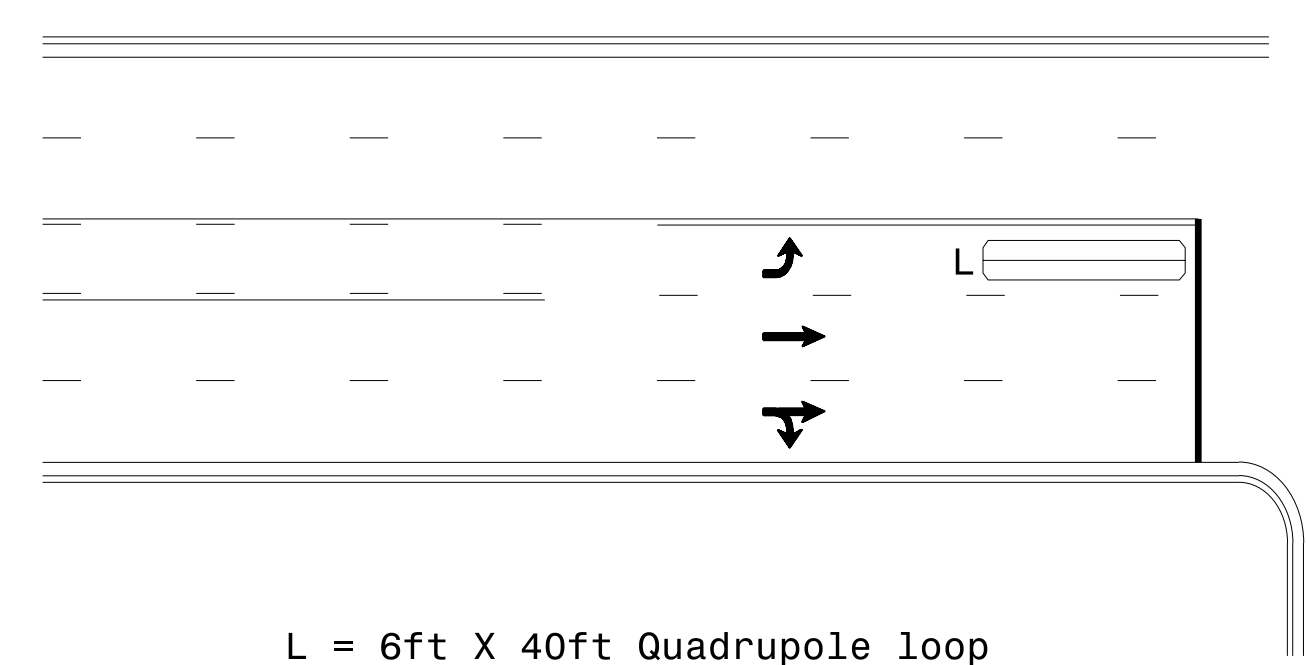
L = 6ft X 6ft
Wired in series

OR



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

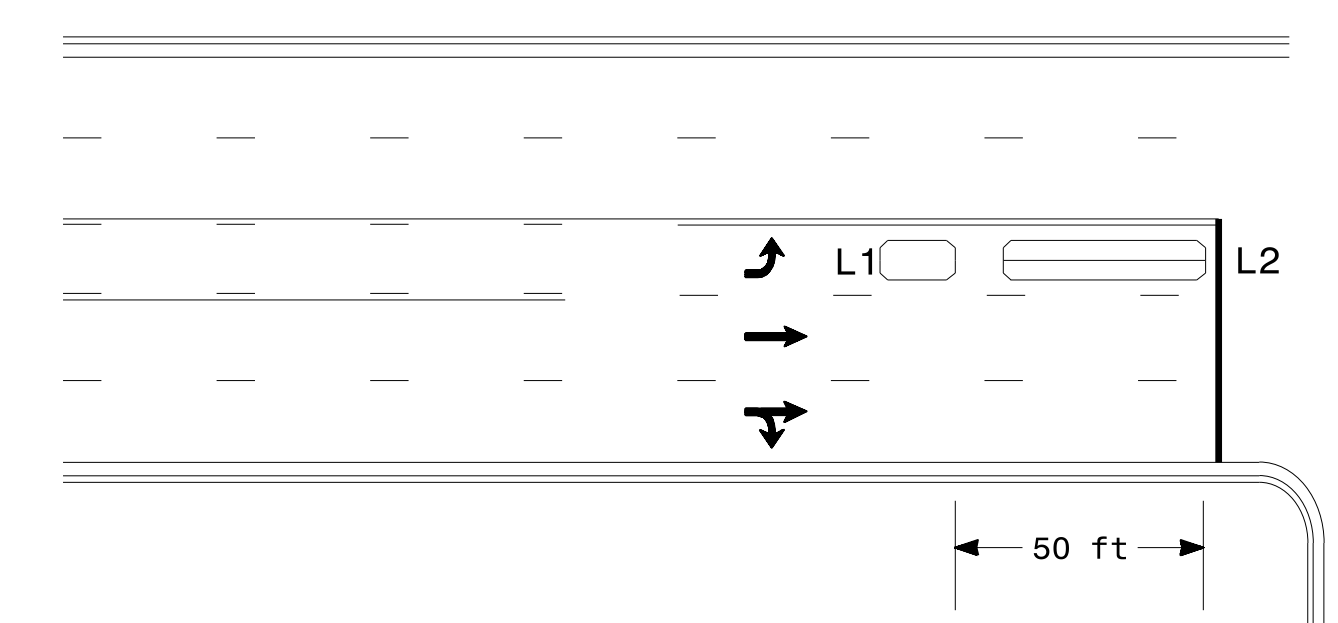
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

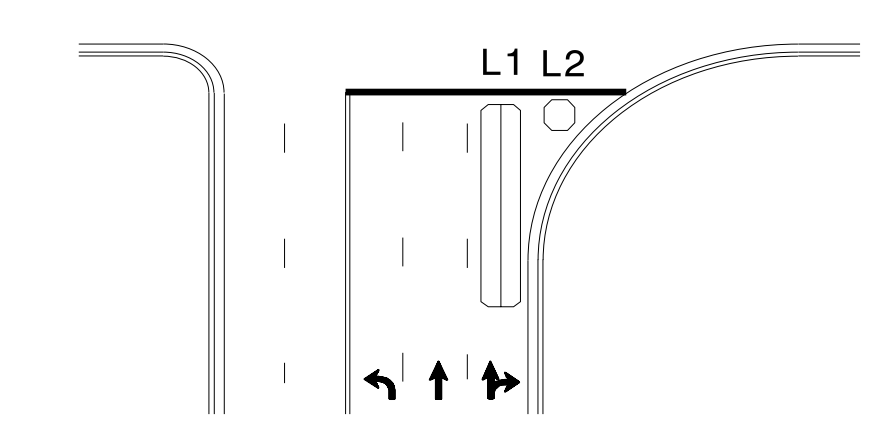
OR



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

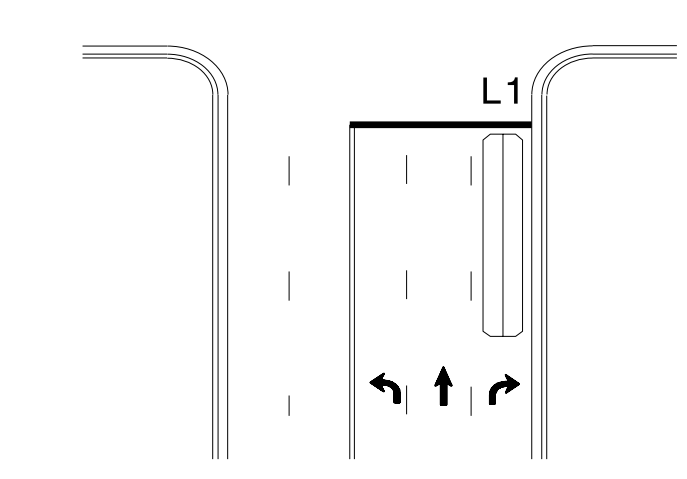
Queue Loop Detection

Right Turn Lane Detection

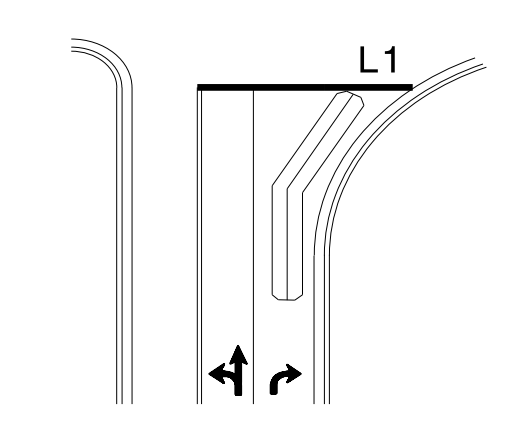


Shared Lane/
Wide Radius Turn

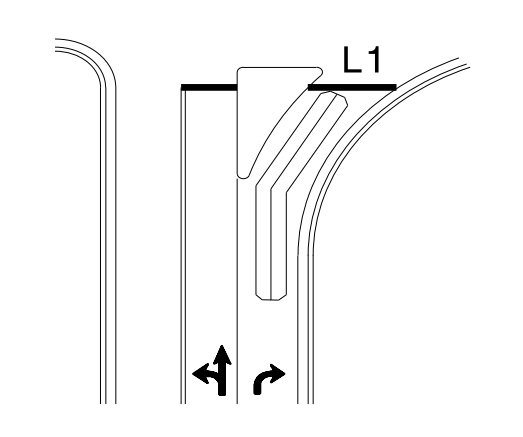
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

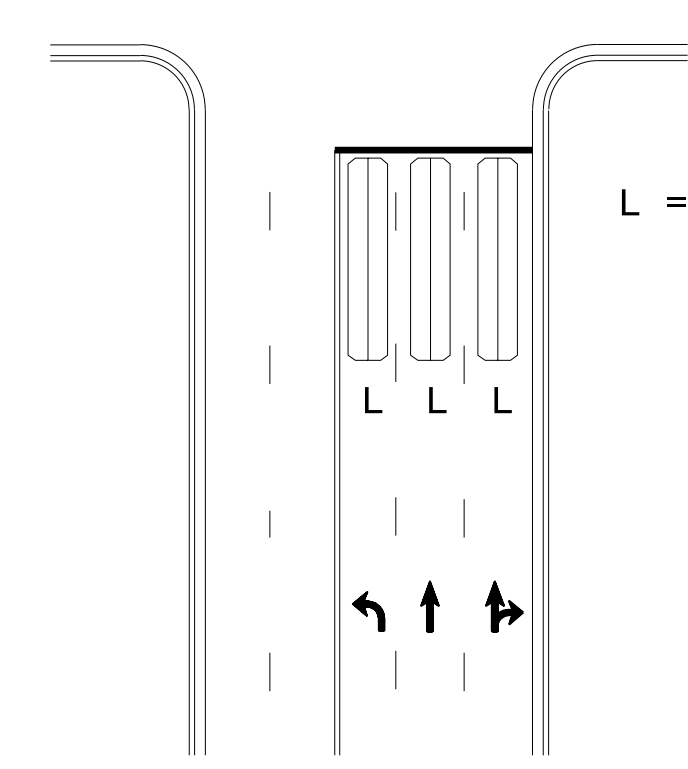


Wide Radius Turn



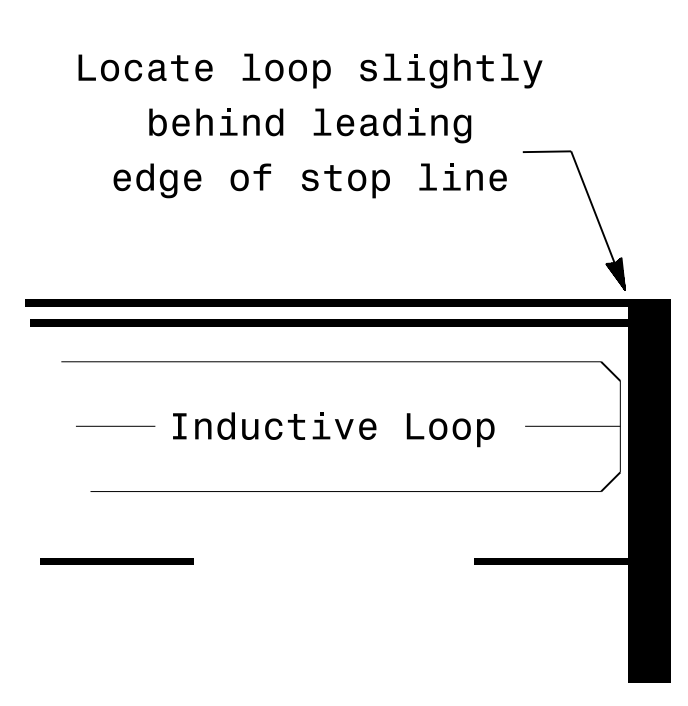
Channelized Turn

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

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
PAMELA L. ALEXANDER
23489

1/30/2015

GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

Contractor shall place the new pavement markings in accordance with this table and detail unless otherwise directed by the Engineer.

TWO LANE - TWO WAY ROADWAY - 55 MPH		
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH
18'	9' *	0'
20'	10' *	0'
22'	10'	1'
24'	10'	2'
26'	11'	2'
28'	12'	2'
32'	12'	4'

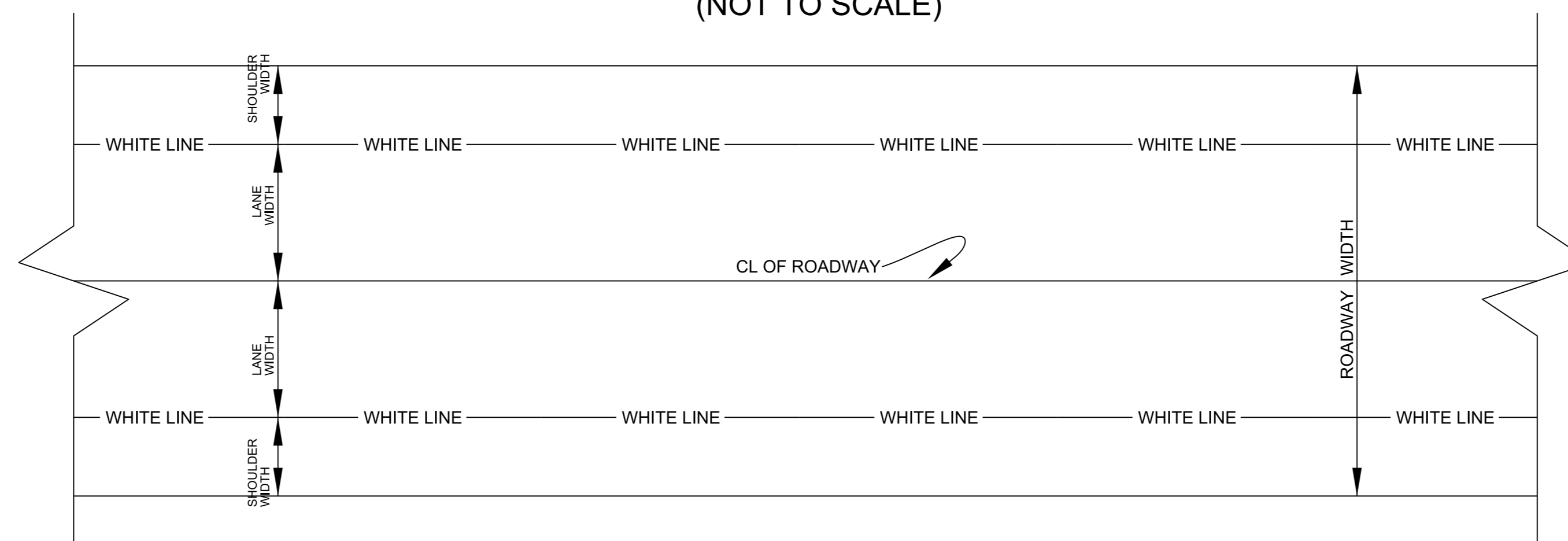
* May vary due to pavement width

TWO LANE - TWO WAY ROADWAY		50
MPH OR LESS		
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH
18'	9' *	0'
20'	10' *	0'
22'	10'	1'
24'	10'	2'
26'	11'	2'
28'	11'	3'
32'	11'	5'

* May vary due to pavement width

SCHEMATIC OF ROADWAY

(NOT TO SCALE)



SUMMARY OF QUANTITIES

PROJECT NO. 2023CPT.06.04.10241.1, 2023CPT.06.04.20241.1, 36248.224	SHEET NO.	TOTAL NO.
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PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	1220000000-E		1245000000-E	1260000000-E	1297000000-E		1308000000-E	1330000000-E	1503000000-E	1519000000-E	
										INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	1½" MILLING	2.5" MILLING	0" TO 4" MILLING	INCIDENTAL MILLING	INTERMEDIATE COURSE, I19.0C	SURFACE COURSE, S9.5B		
																			MI	FT
2023CPT.06.04.10241.1	Columbus	1	US 701 BUS. - A	FROM GARRELL ST. TO NC 904	1	2	2WU	NO	NO	0.16	70				6,571			833		
		"	"	FROM NC 904 TO END C&G	2	2	2WU	NO	NO	1.00	40				23,467			2,500		
		"	"	FROM END C&G TO US 701	2	2	2WU	NO	NO	0.16	40	0.32	54		3,755			278		
TOTAL FOR MAP NO. 1										1.32		0.32	54		33,793			3,611		
2023CPT.06.04.10241.1	Columbus	2	NC 904 - A	FROM WCL TABOR CITY TO BEGIN C&G	3	2	2WU	NO	NO	0.39	24	0.78	130		5,491	147		278	21	
		"	"	FROM BEGIN C&G TO US 701	2	2	2WU	NO	NO	0.79	40				17,084	293		3,056	42	
TOTAL FOR MAP NO. 2										1.18		0.78	130		22,575	440		3,334	63	
2023CPT.06.04.10241.1	Columbus	3	NC 904 - C	FROM US 701 BUS. TO US 701	2	2	2WU	NO	NO	0.75	32				14,080	293		3,333	42	
TOTAL FOR MAP NO. 3										0.75					14,080	293		3,333	42	
TOTAL FOR PROJ NO. 2023CPT.06.04.10241.1										3.25		1.10	184		70,448	733		10,278	105	
														71,181						
2023CPT.06.04.20241.1	Columbus	4	SR 1300 - A	FROM US 701 BUS. TO END C&G (BOTH SIDES)	4	2	2WU	NO	NO	0.05	28				821			278	92	
		"	"	FROM TO END C&G (BOTH SIDES) TO END C&G (ONE SIDES)	5	2	2WU	NO	NO	0.08	26				1,220			278	125	
		"	"	FROM END C&G (ONE SIDE) TO EIGHTH ST.	6	2	2WU	NO	NO	0.05	23				675				56	
		"	"	FROM EIGHTH ST. TO END C&G	4	2	2WU	NO	NO	0.69	32				12,954			1,944	1,242	
TOTAL FOR MAP NO. 4										0.87					15,670			2,500	1,515	
2023CPT.06.04.20241.1	Columbus	5	SR 1304 - A	FROM WCL TABOR CITY TO BARRY ST.	7	2	2WU	NO	NO	1.48	19	2.96	494			587		84	1,361	
		"	"	FROM BARRY ST. TO NC 904	5	2	2WU	NO	NO	0.16	27	2			2,534	117		278	234	
TOTAL FOR MAP NO. 5										1.64		2	494		2,534	704		278	101	
TOTAL FOR PROJ NO. 2023CPT.06.04.20241.1										2.51		2	494		18,204	704		2,778	101	
														18,908						
36248.224	Columbus	6	ANDERSON ST.	FROM HICKMAN RD. TO FOREST AVE.	8	2	2WU	NO	NO	0.21	20	2						278	226	
TOTAL FOR MAP NO. 6										0.21		2						278	226	
36248.224	Columbus	7	FOREST DR.	FROM HICKMAN ST. TO ANDERSON ST.	8	2	2WU	NO	NO	0.13	20	1						278	150	
TOTAL FOR MAP NO. 7										0.13		1						278	150	
36248.224	Columbus	8	GARRELL ST. - A	FROM PIREWAY RD. TO BEGIN	11	2	2WU	NO	NO	0.09	19	1			133			5	83	
		"	"	FROM BEGIN C&G TO ANDERSON ST.	9	2	2WU	NO	NO	0.05	33					968			80	
TOTAL FOR MAP NO. 8										0.14		1			133	968		5	163	
36248.224	Columbus	9	LABON ST.	FROM MCARTHUR ST. TO MCGEE ST.	8	2	2WU	NO	NO	0.05	20								48	
TOTAL FOR MAP NO. 9										0.05										
36248.224	Columbus	10	BARRY ST.	N. MAIN ST. TO WALL ST.	8	2	2WU	NO	NO	0.08	20	1						200	101	
TOTAL FOR MAP NO. 10										0.08		1						200	101	
36248.224	Columbus	11	W. 6TH ST.	MAIN ST. TO LEWIS ST.	10	2	2WU	NO	NO	0.09	24				1,267				105	
TOTAL FOR MAP NO. 11										0.09					1,267				105	
36248.224	Columbus	12	WILDLIFE CLUB RD.	FROM TEN MILE RD. TO PUMP STATION RD.	8	2	2WU	NO	NO	0.38	20	4							368	
TOTAL FOR MAP NO. 12										0.38		4							368	
TOTAL FOR PROJ NO. 36248.224										1.08		9			1,267	133	968	756	5	1,161
														1,400						
GRAND TOTAL										6.84		11	4.06	678	89,919	1,570	968	13,812	211	4,271
														91,489						

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	1523000000-E		1575000000-E	1704000000-E	2815000000-N	2830000000-N	2845000000-N	7324000000-N	7444000000-E	
										SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJ. OF DROP INLET	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	JUNCTION BOX (STANDARD SIZE)	INDUCTIVE LOOP SAWCUT		
										MI	FT	TONS	TONS	TONS	EA	EA	EA	EA	LF
2023CPT.06.04.10241.1	Columbus	1	US 701 BUS. - A	FROM GARRELL ST. TO NC 904	1	2	2WU	NO	NO	0.16	70	628	38			2	1	1,200	
		"	"	FROM NC 904 TO END C&G	2	2	2WU	NO	NO	1.00	40	2,198	132	4	12	2			
		"	"	FROM END C&G TO US 701 BYP.	2	2	2WU	NO	NO	0.16	40	341	20					420	
TOTAL FOR MAP NO. 1										1.32		3,167	190	4	12	4	1	1,620	
2023CPT.06.04.10241.1	Columbus	2	NC 904 - A	FROM WCL TABOR CITY TO BEGIN C&G	3	2	2WU	NO	NO	0.39	24	486	30	5					
		"	"	FROM BEGIN C&G TO US 701 BUS.	2	2	2WU	NO	NO	0.79	40	1,712	105	5	4	14			
TOTAL FOR MAP NO. 2										1.18		2,198	135	10	4	14			
2023CPT.06.04.10241.1	Columbus	3	NC 904 - C	FROM US 701 BUS. TO US 701 BYP.	2	2	2WU	NO	NO	0.75	32	1,485	91	5				400	
TOTAL FOR MAP NO. 3										0.75		1,485	91	5				400	
TOTAL FOR PROJ NO. 2023CPT.06.04.10241.1										3.25		6,850	416	15	4	16	18	1	2,020
2023CPT.06.04.20241.1	Columbus	4	SR 1300 - A	FROM US 701 BUS. TO END C&G (BOTH SIDES)	4	2	2WU	NO	NO	0.05	28		6	5				700	
		"	"	FROM TO END C&G (BOTH SIDES) TO END C&G (ONE SIDE)	5	2	2WU	NO	NO	0.08	26		9	5					
		"	"	FROM END C&G (ONE SIDE) TO EIGHTH ST.	6	2	2WU	NO	NO	0.05	23		4	5					
		"	"	FROM EIGHTH ST. TO END C&G	4	2	2WU	NO	NO	0.69	32		84	20	6	11			
TOTAL FOR MAP NO. 4										0.87		103	35		6	11		700	
2023CPT.06.04.20241.1	Columbus	5	SR 1304 - A	FROM WCL TABOR CITY TO BARRY ST.	7	2	2WU	NO	NO	1.48	19		95						
		"	"	FROM BARRY ST. TO NC 904	5	2	2WU	NO	NO	0.16	27		16						
TOTAL FOR MAP NO. 5										1.64		111							
TOTAL FOR PROJ NO. 2023CPT.06.04.20241.1										2.51		214	35		6	11		700	
36248.224	Columbus	6	ANDERSON ST.	FROM HICKMAN RD. TO FOREST AVE.	8	2	2WU	NO	NO	0.21	20		15		4				
TOTAL FOR MAP NO. 6										0.21		15			4				
36248.224	Columbus	7	FOREST DR.	FROM HICKMAN ST. TO ANDERSON ST.	8	2	2WU	NO	NO	0.13	20		10						
TOTAL FOR MAP NO. 7										0.13		10							
36248.224	Columbus	8	GARRELL ST. - A	FROM PIREWAY RD. TO BEGIN C&G	11	2	2WU	NO	NO	0.09	19		6		2				
		"	"	FROM BEGIN C&G TO ANDERSON ST.	9	2	2WU	NO	NO	0.05	33		5		2	3			
TOTAL FOR MAP NO. 8										0.14		11			4	3			
36248.224	Columbus	9	LABON ST.	FROM MCARTHUR ST. TO MCGEE ST.	8	2	2WU	NO	NO	0.05	20		3						
TOTAL FOR MAP NO. 9										0.05		3							
36248.224	Columbus	10	BARRY ST.	N. MAIN ST. TO WALL ST.	8	2	2WU	NO	NO	0.08	20		7			1			
TOTAL FOR MAP NO. 10										0.08		7				1			
36248.224	Columbus	11	W. 6TH ST.	MAIN ST. TO LEWIS ST.	10	2	2WU	NO	NO	0.09	24		7						
TOTAL FOR MAP NO. 11										0.09		7							
36248.224	Columbus	12	WILDLIFE CLUB RD.	FROM TEN MILE RD. TO PUMP STATION RD.	8	2	2WU	NO	NO	0.38	20		25						
TOTAL FOR MAP NO. 12										0.38		25							
TOTAL FOR PROJ NO. 36248.224										1.08		78			8	4			
GRAND TOTAL										6.84		6,850	708	50	4	30	33	1	2,720

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.06.04.10241.1, 2023CPT.06.04.20241.1, 36248.224		

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E	4688000000-E	4720000000-E	4725000000-E								
												WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	THERMO RXR 90 M	THERMO MSG SCHOOL 90 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO HANDICAP 90 M	THERMO STR & RT ARROW 90 M		
												SF	LS	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA		
MI	FT																								
2023CPT.06.04.10241.1	Columbus	1	US 701 BUS. - A	FROM GARRELL ST. TO NC 904	1	2	2WU	NO	NO	0.16	70	126	1	220	1,650	84			2	2	4				
		"	"	FROM NC 904 TO END C&G	2	2	2WU	NO	NO	1.00	40	126		80	12,765	340	100	2		13	14	1			
		"	"	FROM END C&G TO US 701 BYP.	2	2	2WU	NO	NO	0.16	40	18		1,529	1,900				4	2					
TOTAL FOR MAP NO. 1												1.32		270	1	1,829	16,315	424	100	2		19	18	4	1
2023CPT.06.04.10241.1	Columbus	2	NC 904 - A	FROM WCL TABOR CITY TO BEGIN C&G	3	2	2WU	NO	NO	0.39	24	44		4,360	2,245										
		"	"	FROM BEGIN C&G TO US 701 BUS.	2	2	2WU	NO	NO	0.79	40	161			8,320	88	4								
TOTAL FOR MAP NO. 2												1.18		205		4,360	10,565	88	4						
2023CPT.06.04.10241.1	Columbus	3	NC 904 - C	FROM US 701 BUS. TO US 701 BYP.	2	2	2WU	NO	NO	0.75	32	126			7,690	120									
TOTAL FOR MAP NO. 3												0.75		126		7,690	120								
TOTAL FOR PROJ NO. 2023CPT.06.04.10241.1												3.25		601	1	6,189	34,570	632	100	6		19	18	4	1
														40,759		732		6				42			
2023CPT.06.04.20241.1	Columbus	4	SR 1300 - A	FROM US 701 BUS. TO END C&G (BOTH SIDES)	4	2	2WU	NO	NO	0.05	28	126			528	152				6					
		"	"	FROM TO END C&G (BOTH SIDES) TO END C&G (ONE SIDE)	5	2	2WU	NO	NO	0.08	26	126		425	845										
		"	"	FROM END C&G (ONE SIDE) TO EIGHTH ST.	6	2	2WU	NO	NO	0.05	23	6		528	528										
		"	"	FROM EIGHTH ST. TO END C&G	4	2	2WU	NO	NO	0.69	32	126			7,285					6					
TOTAL FOR MAP NO. 4												0.87		384		953	9,186	152			12				
2023CPT.06.04.20241.1	Columbus	5	SR 1304 - A	FROM WCL TABOR CITY TO BARRY ST.	7	2	2WU	NO	NO	1.48	19	166		15,630	9,864										
		"	"	FROM BARRY ST. TO NC 904	5	2	2WU	NO	NO	0.16	27	18		840	1,680										
TOTAL FOR MAP NO. 5												1.64		184		16,470	11,544								
TOTAL FOR PROJ NO. 2023CPT.06.04.20241.1												2.51		568		17,423	20,730	152		12					
														38,153		152		12							
36248.224	Columbus	6	ANDERSON ST.	FROM HICKMAN RD. TO FOREST AVE.	8	2	2WU	NO	NO	0.21	20	23													
TOTAL FOR MAP NO. 6												0.21		23											
36248.224	Columbus	7	FOREST DR.	FROM HICKMAN ST. TO ANDERSON ST.	8	2	2WU	NO	NO	0.13	20	15													
TOTAL FOR MAP NO. 7												0.13		15											
36248.224	Columbus	8	GARRELL ST. - A	FROM PIREWAY RD. TO BEGIN C&G	11	2	2WU	NO	NO	0.09	19	10													
		"	"	FROM BEGIN C&G TO ANDERSON ST.	9	2	2WU	NO	NO	0.05	33	126													
TOTAL FOR MAP NO. 8												0.14		136											
36248.224	Columbus	9	LABON ST.	FROM MCARTHUR ST. TO MCGEE ST.	8	2	2WU	NO	NO	0.05	20	6													
TOTAL FOR MAP NO. 9												0.05		6											
36248.224	Columbus	10	BARRY ST.	N. MAIN ST. TO WALL ST.	8	2	2WU	NO	NO	0.08	20	9													
TOTAL FOR MAP NO. 10												0.08		9											
36248.224	Columbus	11	W. 6TH ST.	MAIN ST. TO LEWIS ST.	10	2	2WU	NO	NO	0.09	24	10													
TOTAL FOR MAP NO. 11												0.09		10											
36248.224	Columbus	12	WILDLIFE CLUB RD.	FROM TEN MILE RD. TO PUMP STATION RD.	8	2	2WU	NO	NO	0.38	20	43													
TOTAL FOR MAP NO. 12												0.38		43											
TOTAL FOR PROJ NO. 36248.224												1.08		242											
GRAND TOTAL												6.84		1,411	1	23,612	55,300	784	100	6	12	19	18	4	1
														78,912		884		18				42			

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	481000000-E		489100000-E			490000000-N			
										LENGTH	WIDTH	4" WHITE PAINT	4" YELLOW PAINT	24" X 90 M WHITE THERMO	4" X 90 M WHITE PARKING LINES	16" X 90 M WHITE THERMO	YELLOW & YELLOW MARKERS	CRYSTAL & RED MARKERS
												LF	LF	LF	LF	LF	EA	EA
2023CPT.06.04.10241.1	Columbus	1	US 701 BUS. - A	FROM GARRELL ST. TO NC 904	1	2	2WU	NO	NO	0.16	70	220	1,650	68	1,185	21	6	
		"	"	FROM NC 904 TO END C&G	2	2	2WU	NO	NO	1.00	40	80	12,765	100		132	6	
		"	"	FROM END C&G TO US 701 BYP.	2	2	2WU	NO	NO	0.16	40	1,529	1,900	40		24		
TOTAL FOR MAP NO. 1										1.32		1,829	16,315	208	1,185	100	177	12
2023CPT.06.04.10241.1	Columbus	2	NC 904 - A	FROM WCL TABOR CITY TO BEGIN C&G	3	2	2WU	NO	NO	0.39	24	4,360	2,245			26		
		"	"	FROM BEGIN C&G TO US 701 BUS.	2	2	2WU	NO	NO	0.79	40		8,320	170	200	104		
TOTAL FOR MAP NO. 2										1.18		4,360	10,565	170	200	130		
2023CPT.06.04.10241.1	Columbus	3	NC 904 - C	FROM US 701 BUS. TO US 701 BYP.	2	2	2WU	NO	NO	0.75	32		7,690	24		96		
TOTAL FOR MAP NO. 3										0.75		7,690	24			96		
TOTAL FOR PROJ NO. 2023CPT.06.04.10241.1										3.25		6,189	34,570	402	1,185	300	403	12
												40,759		1,887		415		
2023CPT.06.04.20241.1	Columbus	4	SR 1300 - A	FROM US 701 BUS. TO END C&G (BOTH SIDES)	4	2	2WU	NO	NO	0.05	28		528	118		7		
		"	"	FROM TO END C&G (BOTH SIDES) TO END C&G (ONE SIDE)	5	2	2WU	NO	NO	0.08	26	425	845			11		
		"	"	FROM END C&G (ONE SIDE) TO EIGHTH ST.	6	2	2WU	NO	NO	0.05	23	528	528			7		
		"	"	FROM EIGHTH ST. TO END C&G	4	2	2WU	NO	NO	0.69	32		7,285	120		92		
TOTAL FOR MAP NO. 4										0.87		953	9,186	238		117		
2023CPT.06.04.20241.1	Columbus	5	SR 1304 - A	FROM WCL TABOR CITY TO BARRY ST.	7	2	2WU	NO	NO	1.48	19	15,630	9,864			124		
		"	"	FROM BARRY ST. TO NC 904	5	2	2WU	NO	NO	0.16	27	840	1,680	12		21		
TOTAL FOR MAP NO. 5										1.64		16,470	11,544	12		145		
TOTAL FOR PROJ NO. 2023CPT.06.04.20241.1										2.51		17,423	20,730	250		262		
												38,153		250		262		
36248.224	Columbus	6	ANDERSON ST.	FROM HICKMAN RD. TO FOREST AVE.	8	2	2WU	NO	NO	0.21	20							
TOTAL FOR MAP NO. 6										0.21								
36248.224	Columbus	7	FOREST DR.	FROM HICKMAN ST. TO ANDERSON ST.	8	2	2WU	NO	NO	0.13	20							
TOTAL FOR MAP NO. 7										0.13								
36248.224	Columbus	8	GARRELL ST. - A	FROM PIREWAY RD. TO BEGIN C&G	11	2	2WU	NO	NO	0.09	19							
		"	"	FROM BEGIN C&G TO ANDERSON ST.	9	2	2WU	NO	NO	0.05	33							
TOTAL FOR MAP NO. 8										0.14								
36248.224	Columbus	9	LABON ST.	FROM MCARTHUR ST. TO MCGEE ST.	8	2	2WU	NO	NO	0.05	20							
TOTAL FOR MAP NO. 9										0.05								
36248.224	Columbus	10	BARRY ST.	N. MAIN ST. TO WALL ST.	8	2	2WU	NO	NO	0.08	20							
TOTAL FOR MAP NO. 10										0.08								
36248.224	Columbus	11	W. 6TH ST.	MAIN ST. TO LEWIS ST.	10	2	2WU	NO	NO	0.09	24							
TOTAL FOR MAP NO. 11										0.09								
36248.224	Columbus	12	WILDLIFE CLUB RD.	FROM TEN MILE RD. TO PUMP STATION RD.	8	2	2WU	NO	NO	0.38	20							
TOTAL FOR MAP NO. 12										0.38								
TOTAL FOR PROJ NO. 36248.224										1.08								
GRAND TOTAL										6.84		23,612	55,300	652	1,185	300	665	12
												78,912		2,137		677		