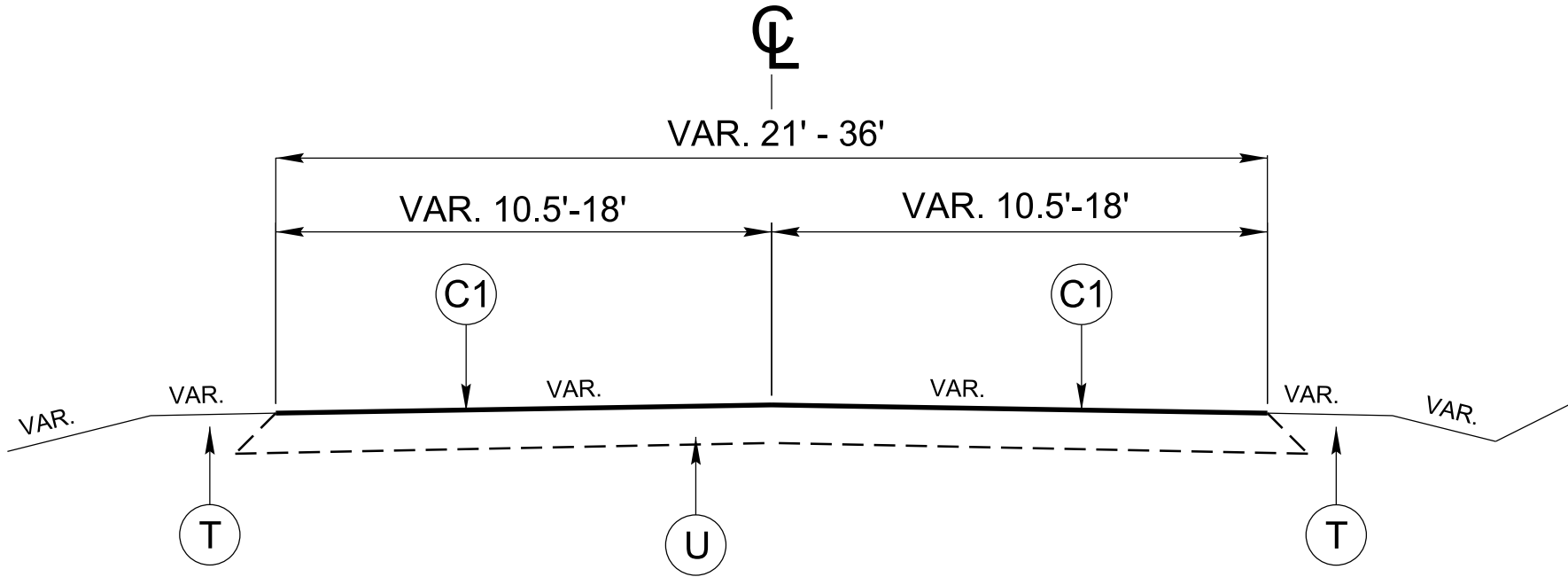


8/17/99  
03-MAR-2025 17:02  
C:\Users\wilkes\OneDrive\Documents\Projects\2025\2025 Asphalt Resurfacing Maps\Wilkes\Primary - DK00412\MicroStation\DK00412.Wilkes\_resurfacing\_typicals.dgn  
ASSISTANT MANAGER

- "PATCHING EXISTING PAVEMENT" HAS BEEN INCLUDED AS A PAY ITEM ON MAPS. PATCHING MAY OR MAY NOT BE NEEDED DEPENDING ON CONDITION OF MAP SURFACE AT TIME THAT PAVING SEASON BEGINS. AREAS TO BE DELINIATED BY THE ENGINEER.
- INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER

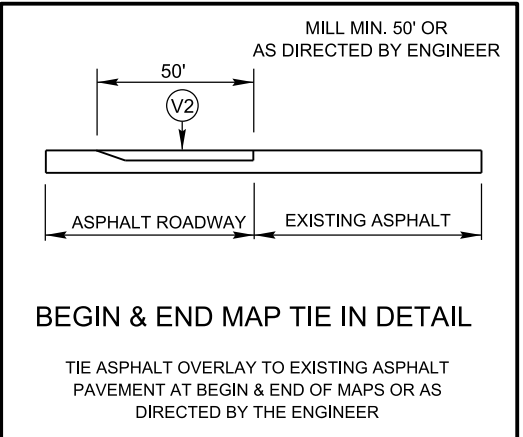
PROJECT REFERENCE NO.	SHEET NO.
DK00412	01

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	INCIDENTAL MILLING (See Tie in Detail)



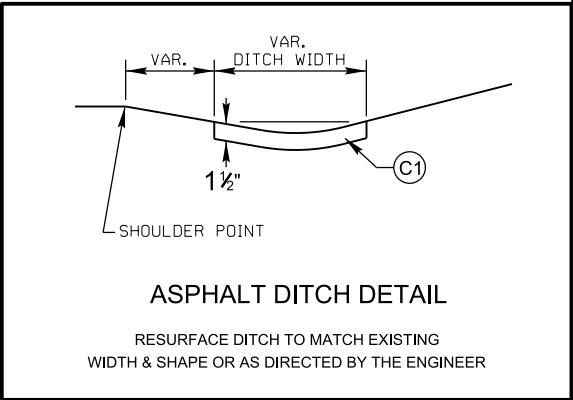
## TYPICAL SECTION NO. 1

- MAP 1 - NC 16 FROM SR 2467 TO ~725' N OF SR 2545  
MAP 2 - NC 16 FROM ~725' N OF SR 2545 TO BEGIN DIV. HWY  
MAP 3 - NC 16 FROM SR 1555 TO (MP 16.02) BEGIN AUX. RT TURN LANE MCES  
MAP 4 - NC 16 FROM (MP 16.02) BEGIN AUX. RT TURN LANE MCES TO END 3-LN SECTION  
\*\*\* MAP 5 - NC 16 FROM (MP 16.47) END 3-LN SECTION TO BR #57



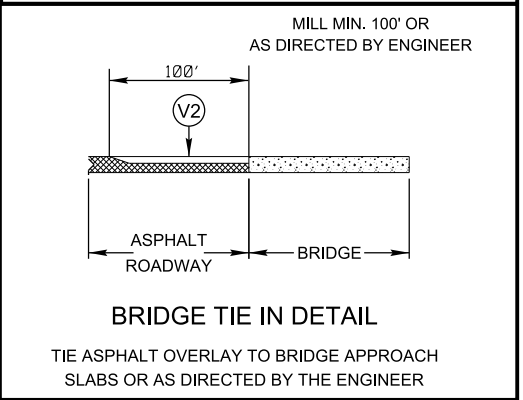
### BEGIN & END MAP TIE IN DETAIL

TIE ASPHALT OVERLAY TO EXISTING ASPHALT PAVEMENT AT BEGIN & END OF MAPS OR AS DIRECTED BY THE ENGINEER



### ASPHALT DITCH DETAIL

RESURFACE DITCH TO MATCH EXISTING WIDTH & SHAPE OR AS DIRECTED BY THE ENGINEER



### BRIDGE TIE IN DETAIL

TIE ASPHALT OVERLAY TO BRIDGE APPROACH SLABS OR AS DIRECTED BY THE ENGINEER

NOTE: TYPICALS ARE NOT TO SCALE

WILKES COUNTY  
PRIMARY ROADS  
2025 ASPHALT RESURFACING

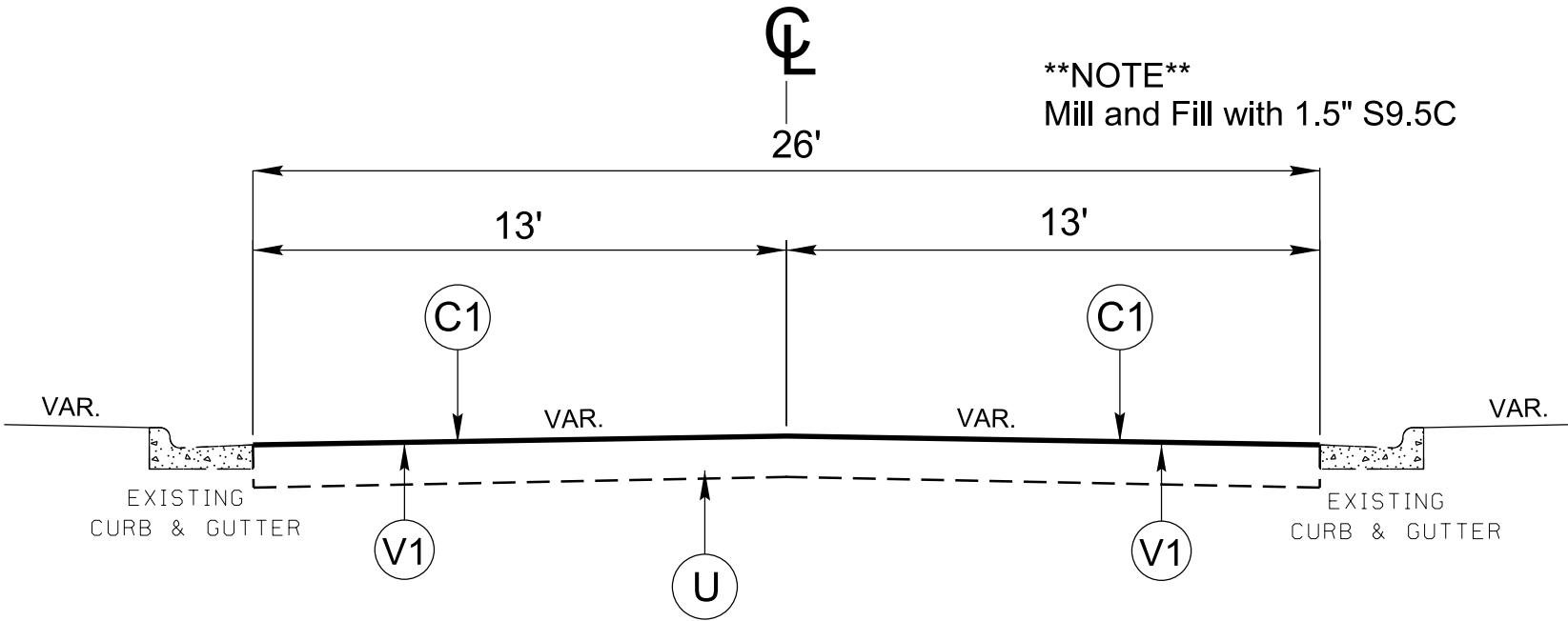
REVISIONS	INIT.	DATE

N.C. DEPARTMENT of TRANSPORTATION  
DIVISION of HIGHWAYS  
DIVISION ELEVEN



SCALE: N/A	DATE: 3/03/2025
PREPARED BY: DLH	
REVIEWED BY:	
REVIEWED BY:	

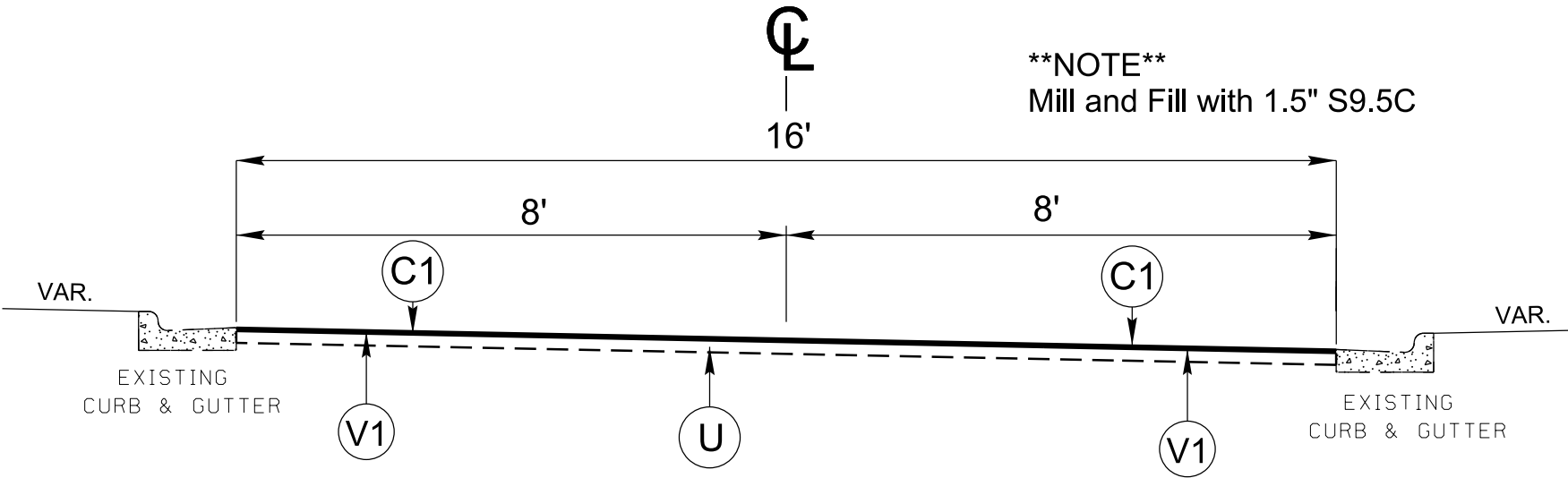
• INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER



**\*\*NOTE\*\***  
Mill and Fill with 1.5" S9.5C

**TYPICAL SECTION NO. 2**

MAP 6 - NC 18 N FROM BR #23 OVER US 421 TO MP 14.66  
MAP 7 - NC 18 S FROM CORPORATION ST (NS- TYSON TRUCK ENT)  
TO BR #23 OVER US 421

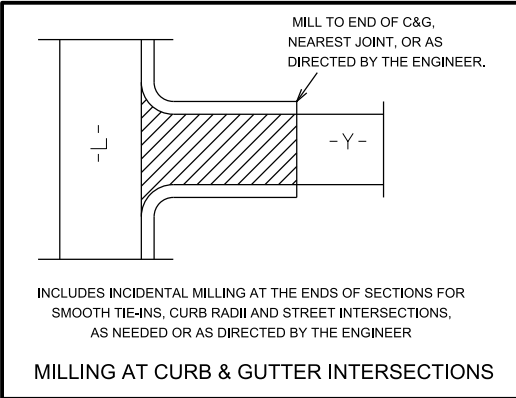


**\*\*NOTE\*\***  
Mill and Fill with 1.5" S9.5C

**TYPICAL SECTION NO. 3**

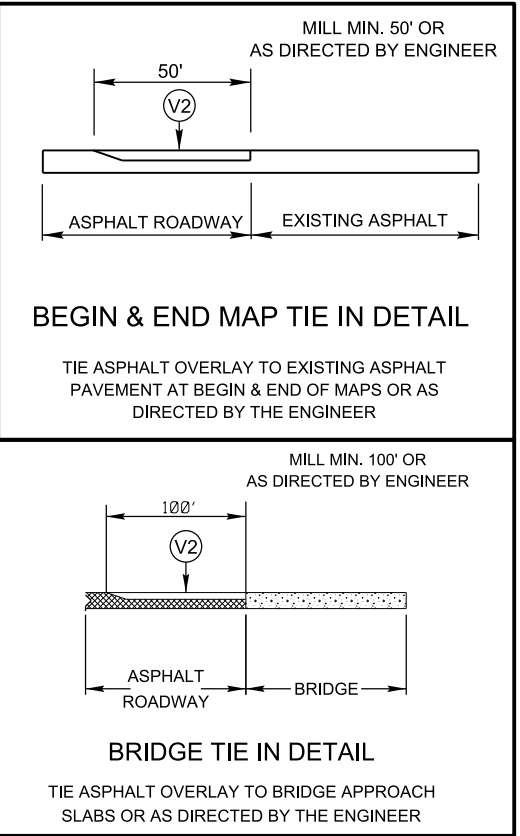
MAP 8 - RMP-2548 OI (ON RAMP) FROM NC 18 SB TO US 421 NB

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	INCIDENTAL MILLING (See Tie in Detail)



INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII AND STREET INTERSECTIONS, AS NEEDED OR AS DIRECTED BY THE ENGINEER

MILLING AT CURB & GUTTER INTERSECTIONS



BEGIN & END MAP TIE IN DETAIL

TIE ASPHALT OVERLAY TO EXISTING ASPHALT PAVEMENT AT BEGIN & END OF MAPS OR AS DIRECTED BY THE ENGINEER

BRIDGE TIE IN DETAIL

TIE ASPHALT OVERLAY TO BRIDGE APPROACH SLABS OR AS DIRECTED BY THE ENGINEER

NOTE: TYPICALS ARE NOT TO SCALE

WILKES COUNTY  
PRIMARY ROADS  
2025 ASPHALT RESURFACING

REVISIONS	INIT.	DATE

N.C. DEPARTMENT of TRANSPORTATION  
DIVISION of HIGHWAYS  
DIVISION ELEVEN



SCALE: N/A	DATE: 3/03/2025
PREPARED BY: DLH	
REVIEWED BY:	
REVIEWED BY:	

**Wilkes County  
DK00412 - 2025  
Map #1 and 2**

Map #1  
NC 16  
From SR 2467  
To ~ 725"N of SR 2545

Map #2  
NC 16  
From ~ 725'N of SR 2545  
To Begin DIV HWY

NCDOT GIS Unit

**Wilkes County  
DK00412 - 2025  
Map #3, 4, and 5**

Map #5  
NC 16  
From End 3-lane section  
To Br #57

Map #4  
NC 16  
From Begin Auxiliary Rt Turn  
Lane  
To End 3-Lane section

Map #3  
NC 16  
From SR 1555  
To Begin Auxiliary Rt Turn Lane

NCDOT GIS Unit

**Wilkes County**  
**DK00412 - 2025**  
**Map #6, 7, and 8**

Map #7  
NC 18 S  
From Corporation St (NS-Tyson Truck Ent)  
To Br #23 Over US 421

Map # 8  
On Ramp 2548  
From NC 18 SB  
To US 421 NB On Ramp

Map #6  
NC 18 N  
From Br #23 Over US 421  
To MP 14.66

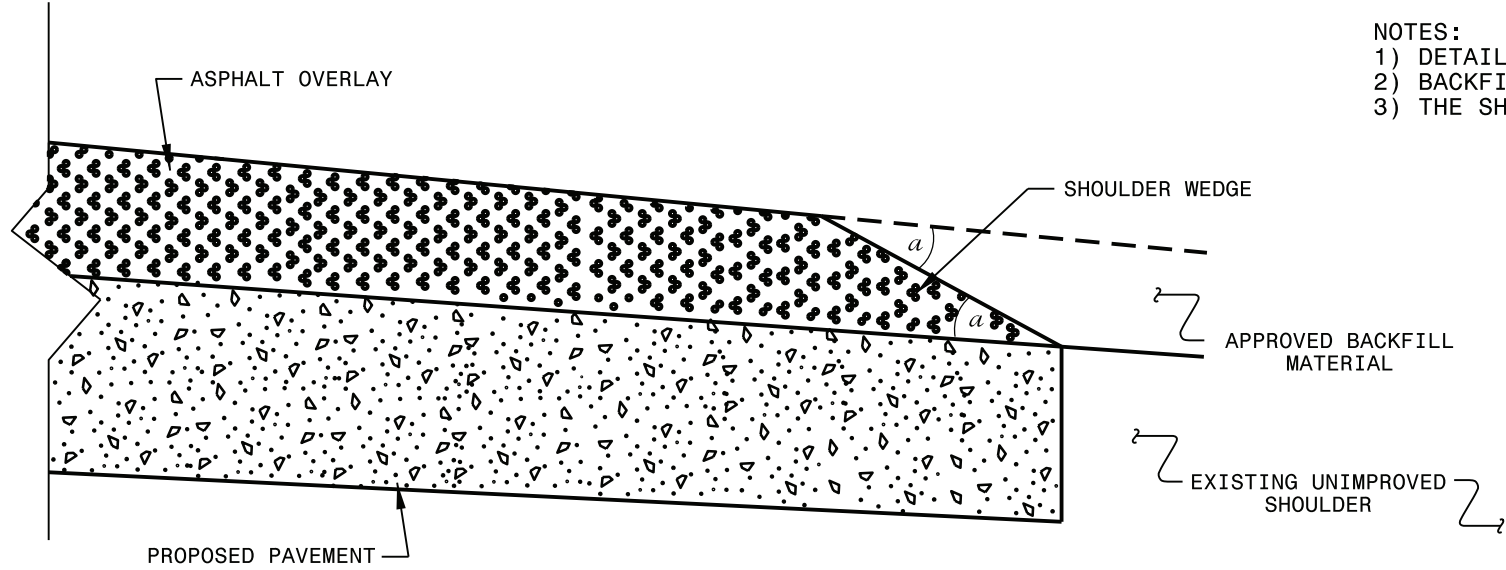


																							PROJECT NO.	SHEET NO.	
																							DK00412	5	
SUMMARY OF QUANTITIES																									
												1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1523000000-E	1575000000-E	1704000000-E	1880000000-E	2830000000-N	2845000000-N	2846000000-N	7324000000-N	7444000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	RESURFACE PAVED DITCH	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	ADJUSTMENT OF OVERSIZED MANHOLES	JUNCTION BOX (STANDARD SIZE)	INDUCTIVE LOOP SAWCUT
								MI	FT			TONS	SMI	TON	SY	SY	TONS	TONS	TONS	TONS	EA	EA	EA	EA	LF
2025CPT.11.09.10971	Wilkes	1	NC-16	FROM SR 2467 TO ±725 FEET NORTH OF SR 2545	1	2	MD	0.24	45	4.93	5.17		0.5	66		250	614	44	157						
2025CPT.11.09.10971	Wilkes	2	NC-16	FROM ±725 FEET NORTH OF SR 2545 TO BEGIN DIVIDED HIGHWAY	1	2	2WU	1.38	30	5.17	6.55	28	2.8	379		667	2,356	162	474						
2025CPT.11.09.10971	Wilkes	3	NC-16	FROM SR 1555 TO MP 16.02/BEGIN AUXILIARY RIGHT TURN LANE MILLERS CREEK ELEMENTARY SCHOOL	1	2	2WU	0.38	24	15.64	16.02	8	0.8	105		133	520	36	120						
2025CPT.11.09.10971	Wilkes	4	NC-16	FROM MP 16.02/BEGIN AUXILIARY RIGHT TURN LANE MILLERS CREEK ELEMENTARY SCHOOL TO END 3-LANE SECTION	1	2	MU	0.45	36	16.02	16.47	9	0.9	124		500	921	65	229				1	750	
2025CPT.11.09.10971	Wilkes	5	NC-16	FROM MP 16.47/END 3-LANE SECTION TO BRIDGE #57	1	2	2WU	3.86	21	16.47	20.33	77	7.7	1,062		1,370	4,621	331	1,177	48					
2025CPT.11.09.10971	Wilkes	6	NC-18 N	FROM BR # 23 OVER US 421 TO .MP 14.66	2	2	2WU	0.27	26	14.39	14.66				4,118	144	400	24		4	10	2			
2025CPT.11.09.10971	Wilkes	7	NC-18 S / S NC HWY 16	FROM CORPORATION STREET (NON SYSTEM) TO BRIDGE #23 OVER US 421	2	2	2WU	0.22	22	22.12	22.34				3,356	289	276	16							
2025CPT.11.09.10971	Wilkes	8	RMP-2548 OI	FROM NC 18 S TO US 421 ON RAMP	3	2	2WU	0.12	16	0	0.12				1,126	89	110	6							
TOTAL FOR PROJ NO. 2025CPT.11.09.10971								6.92				122	12.6	1,736	8,600	3,442	9,818	684	2,157	48	4	10	2	1	750
GRAND TOTAL								6.92				122	12.6	1,736	8,600	3,442	9,818	684	2,157	48	4	10	2	1	750

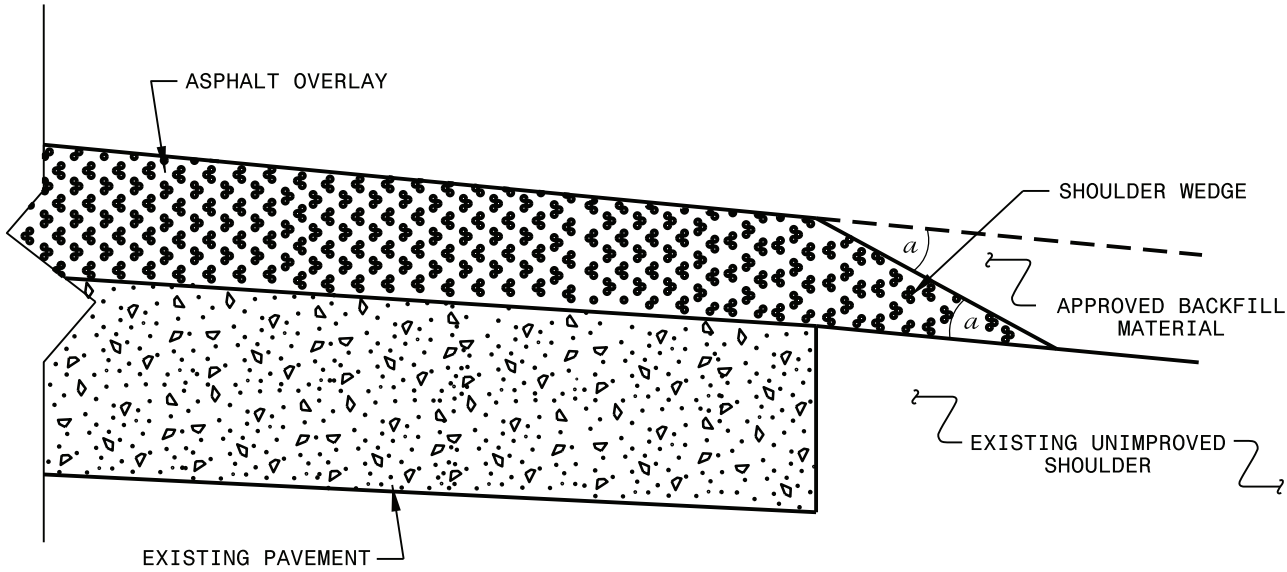
[Mile Posting Map](#)

																				PROJECT NO.		SHEET NO.									
																				DK00412		6									
THERMOPLASTIC AND PAINT QUANTITIES																															
												4413000000-E		4457000000-N		4510000000-N		4700000000-E		4709000000-E		4720000000-E			4725000000-E			4890000000-E		4892000000-N	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	THERMOPLASTIC PAVEMENT MARKING LINES, 12", 90 MIL	THERMOPLASTIC PAVEMENT MARKING LINES, 24", 90 MIL	THERMOPLASTIC MSG "SCHOOL" 90 MIL	THERMOPLASTIC MSG "ONLY" 90 MIL	THERMOPLASTIC RIGHT ARROW, 90 MIL	THERMOPLASTIC LEFT ARROW, 90 MIL	THERMOPLASTIC STRAIGHT ARROW, 90 MIL	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, 4", 65 MIL	POLYCARBONATE H-SHAPED MARKERS								
								MI	FT			SF	LS	HR	LF	LF	EA	EA	EA	EA	EA	LF	EA								
2025CPT.11.09.10971	Wilkes	1	NC-16	FROM SR 2467 TO +725 FEET NORTH OF SR 2545	1	2	MD	0.24	45	4.93	5.17	32	1.00		150				1	1		7,603	32								
2025CPT.11.09.10971	Wilkes	2	NC-16	FROM +725 FEET NORTH OF SR 2545 TO BEGIN DIVIDED HIGHWAY	1	2	2WU	1.38	30	5.17	6.55	144			350					3		29,698	91								
2025CPT.11.09.10971	Wilkes	3	NC-16	FROM SR 1555 TO MP 16.02/BEGIN AUXILIARY RIGHT TURN LANE MILLERS CREEK ELEMENTARY SCHOOL	1	2	2WU	0.38	24	15.64	16.02	32				50	6					8,178	25								
2025CPT.11.09.10971	Wilkes	4	NC-16	FROM MP 16.02/BEGIN AUXILIARY RIGHT TURN LANE MILLERS CREEK ELEMENTARY SCHOOL TO END 3-LANE SECTION	1	2	MU	0.45	36	16.02	16.47	32		40	100	150	6		2	17	4	10,872	59								
2025CPT.11.09.10971	Wilkes	5	NC-16	FROM MP 16.47/END 3-LANE SECTION TO BRIDGE #57	1	2	2WU	3.86	21	16.47	20.33	226										83,067	255								
2025CPT.11.09.10971	Wilkes	6	NC-18 N	FROM BR # 23 OVER US 421 TO .MP 14.66	2	2	2WU	0.27	26	14.39	14.66	36		20						4	2	4,277	18								
2025CPT.11.09.10971	Wilkes	7	NC-18 S / S NC HWY 16	FROM CORPORATION STREET (NON SYSTEM) TO BRIDGE #23 OVER US 421	2	2	2WU	0.22	22	22.12	22.34	36		20				4	3		1	2,323	15								
2025CPT.11.09.10971	Wilkes	8	RMP-2548 OI	FROM NC 18 S TO US 421 ON RAMP	3	2	2WU	0.12	16	0	0.12	36						4	2			634									
TOTAL FOR PROJ NO. 2025CPT.11.09.10971								6.92				574	1.000	80	600	200	12	8	8	25	7	146,652	495								
																	20		40												
GRAND TOTAL								6.92				574	1.000	80	600	200	12	8	8	25	7	146,652	495								
																	20		40												

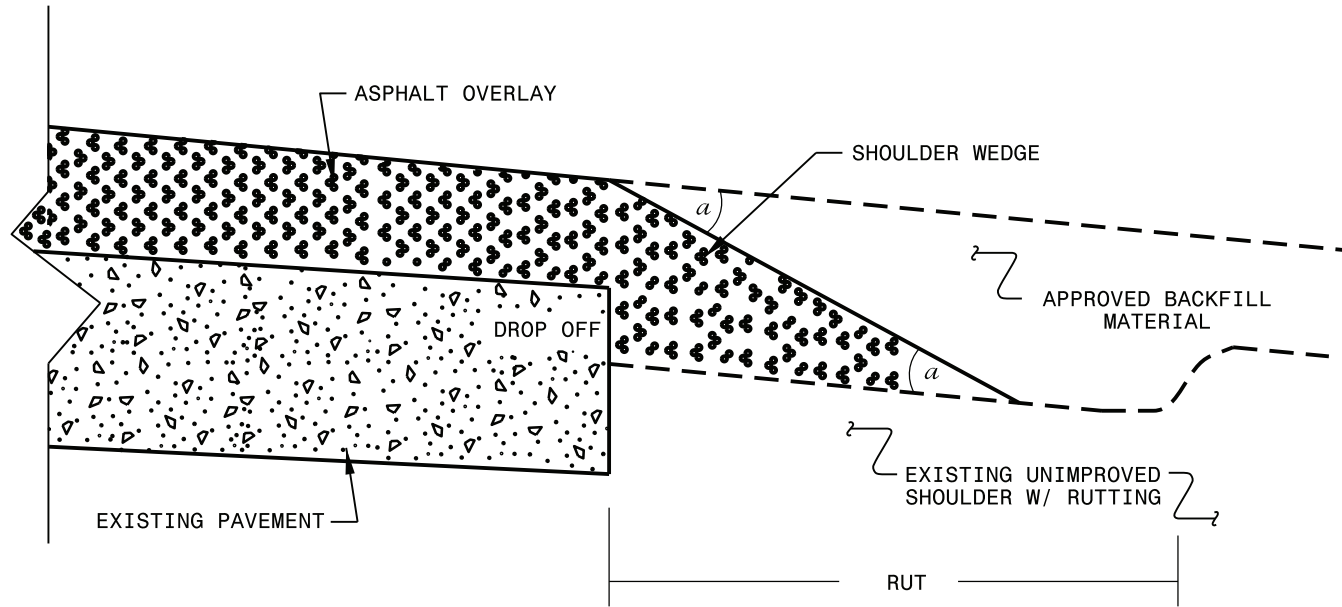
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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°

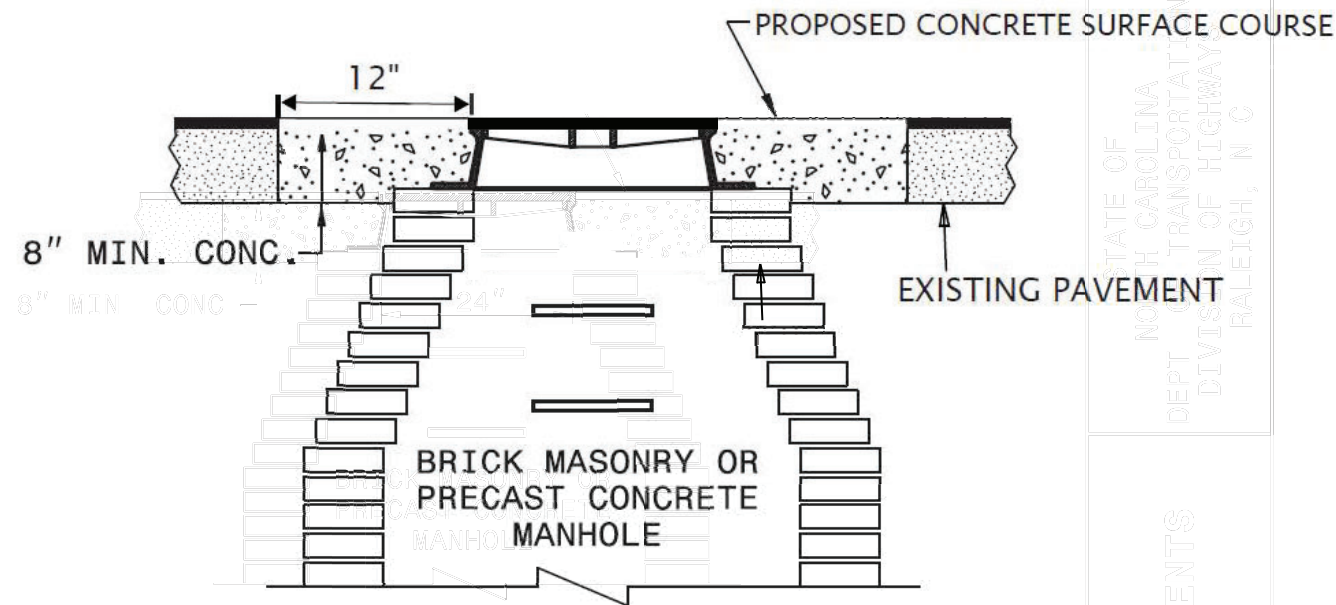
**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE  
DETAILS**

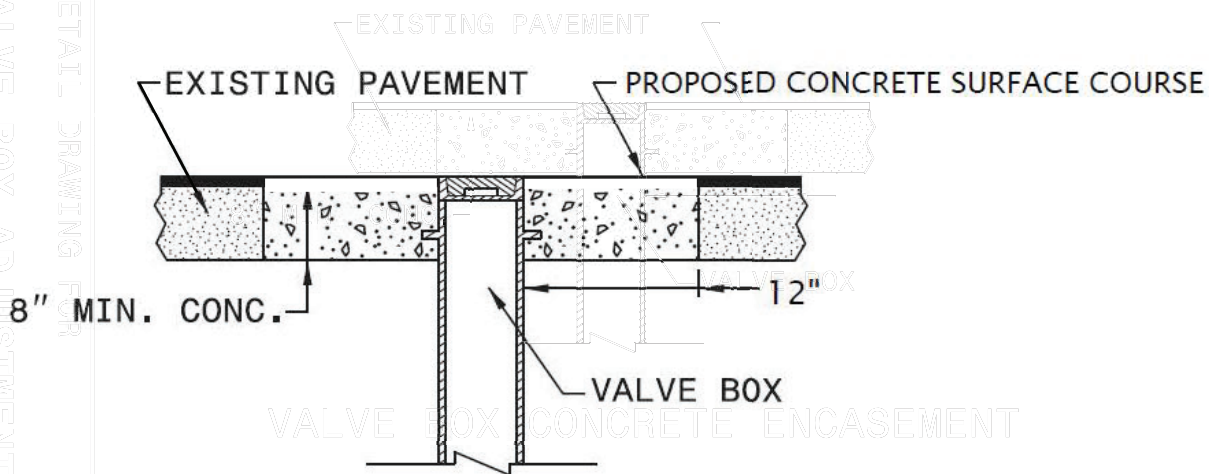
ORIGINAL BY: T.SPELL DATE: 7-19-11  
MODIFIED BY: DATE: 10/16/12  
CHECKED BY: DATE:  
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn

GENERAL NOTES:

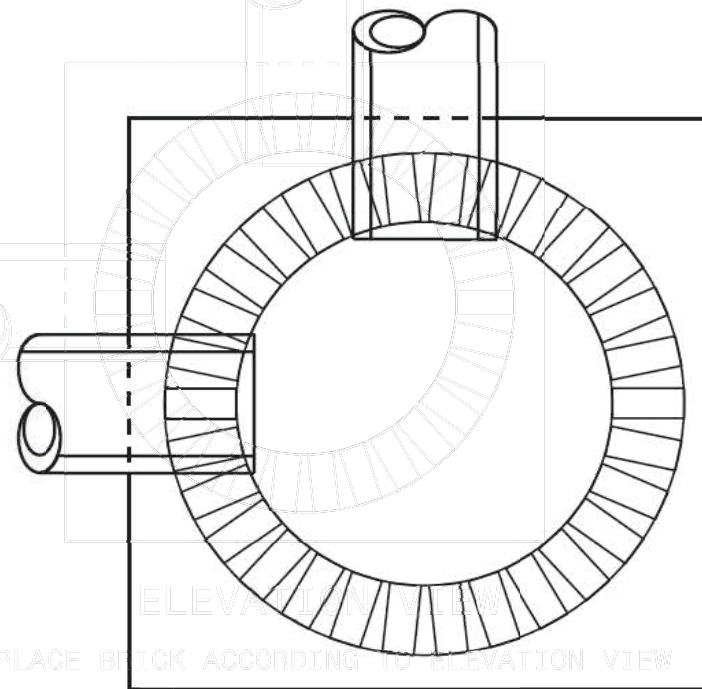
1. USE RAPID SET DYED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT RECTANGULAR EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES. NO OVERSAW CUTS ALLOWED IN CORNERS.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS 1/2" +/- 1/8"



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT

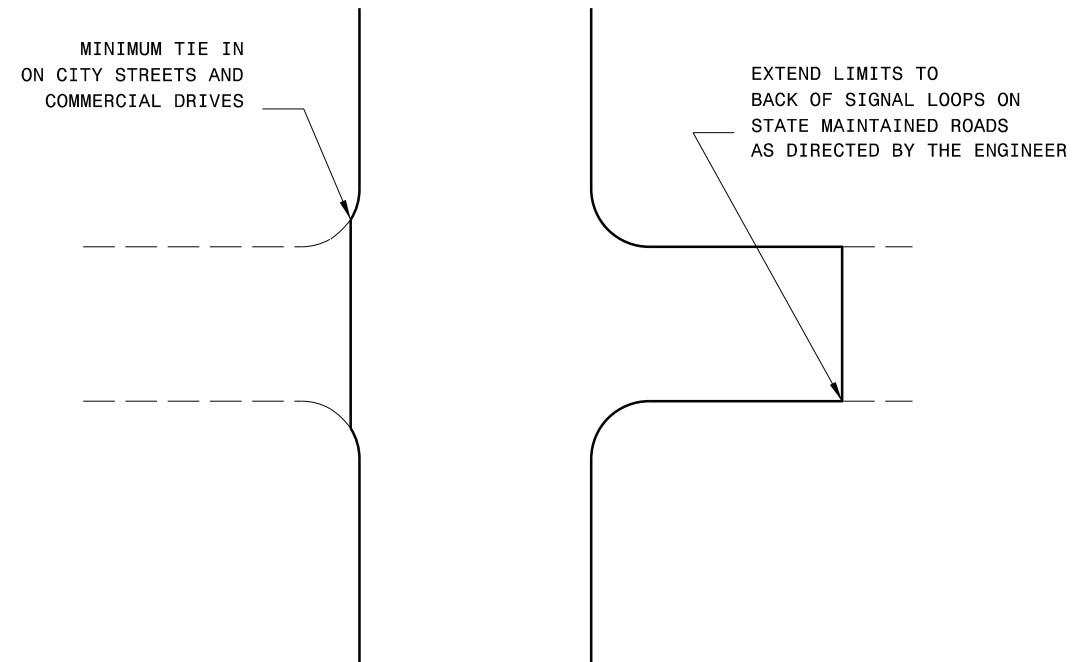


ELEVATION VIEW

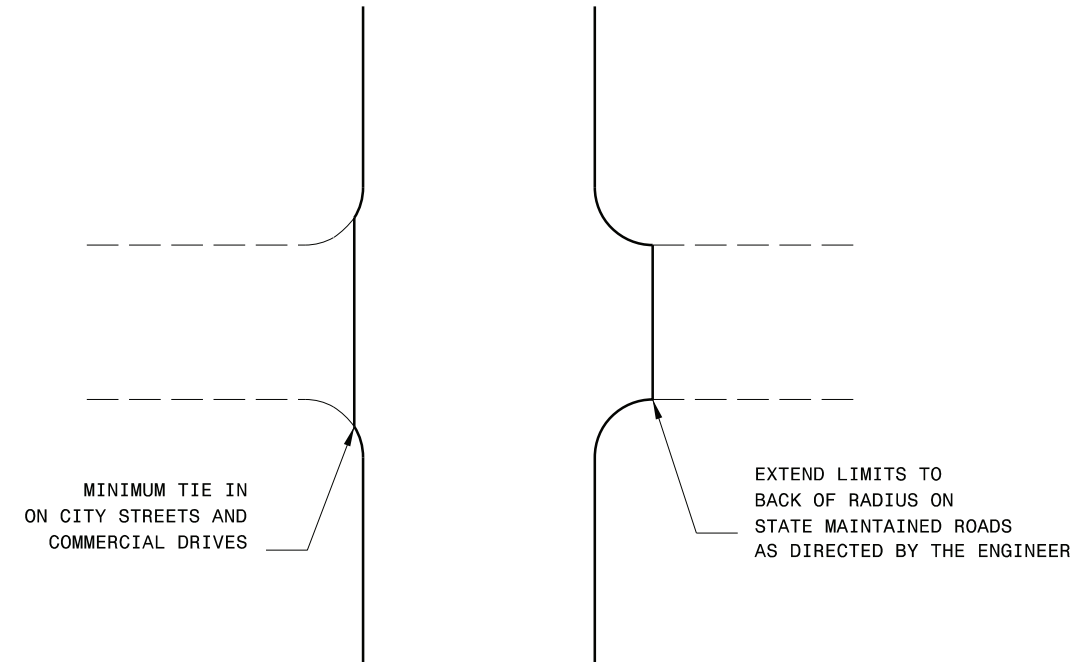
PLACE BRICK ACCORDING TO ELEVATION VIEW

SHEET 1 OF 1  
840D55

SHEET 1 OF 1  
840D55



TYPICAL DETAIL OF PROJECT LIMITS AT  
SIGNALIZED Y LINES



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

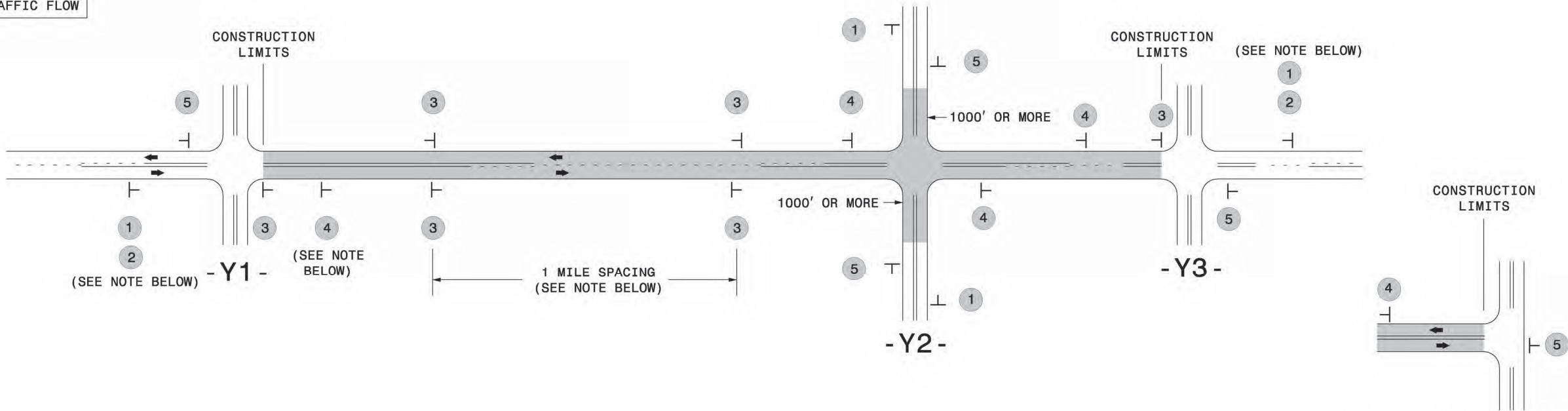
[illegible]

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<div><div>1</div><div><div><div>ROAD WORK AHEAD</div><div>W20-1 48" X 48"</div><div><div>NEXT XX MILES</div><div>W7-3aP 24" X 18"</div></div></div></div><div>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</div><div>#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)</div></div>	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><div><div><div>ROAD WORK AHEAD</div><div>W20-1 48" X 48"</div></div><div>PLACED 500' IN ADVANCE OF FLAGGER.</div></div><div><div><div><div><div></div><div></div></div><div>W20-7 A 48" X 48"</div></div><div>PLACED 250' IN ADVANCE OF FLAGGER.</div></div></div></div>
	<div><div>3</div><div><div><div>LOW/SOFT SHOULDER</div><div>SP 13107 48" X 48"</div></div></div><div>- 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.</div></div>	
	<div><div>4</div><div><div><div>ROAD UNDER CONST</div><div>SP 13106 48" X 48"</div></div></div><div>- 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.</div></div>	
	<div><div>5</div><div><div><div>END ROAD WORK</div><div>G20-2 A 48" X 24"</div></div></div><div>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</div></div>	
	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.	
LESS 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

