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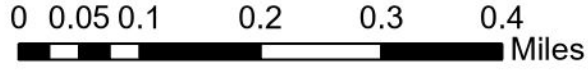
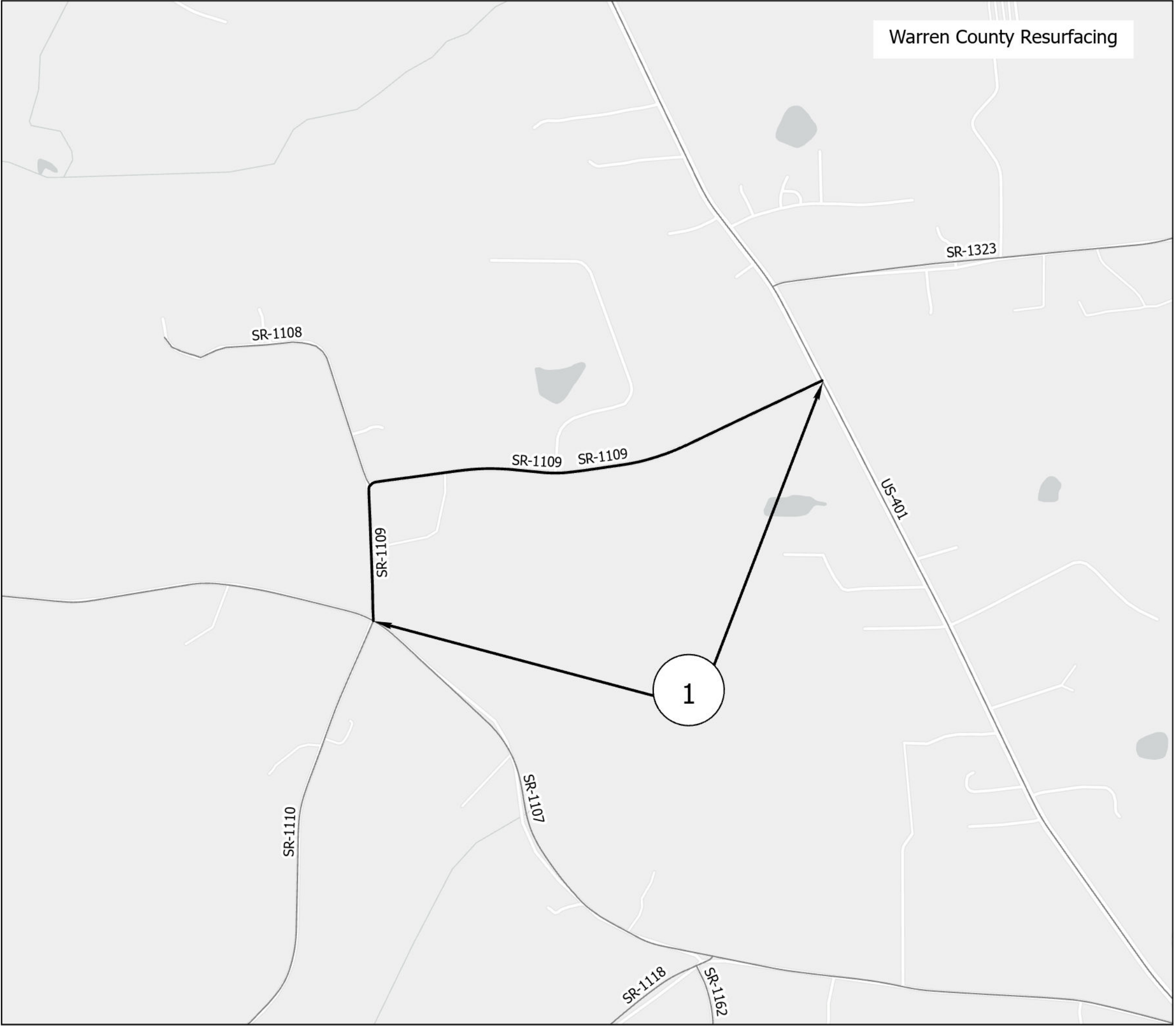
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Warren County Resurfacing

Warren	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.16.20931.1, ETC.	1

Map 1 SR 1109 (Read Road)
From US 158/401 to SR 1107 (Ridgeway
Warrenton Road)
Typical 1



PAVEMENT SCHEDULE

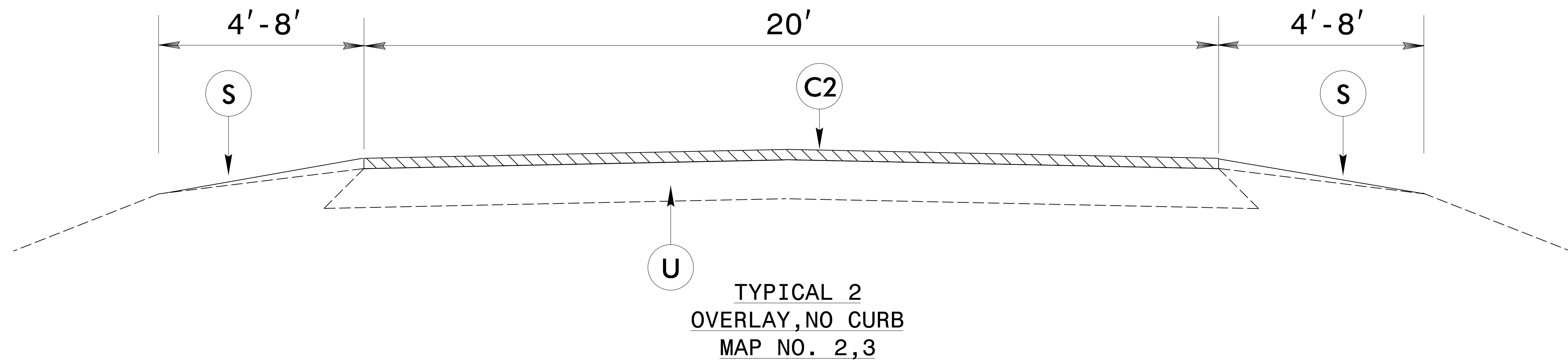
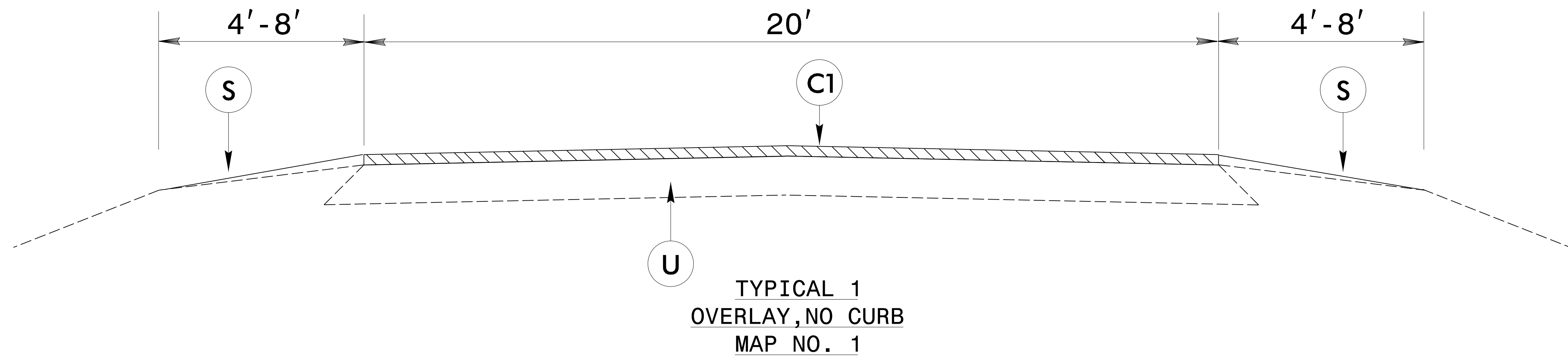
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
S	SHOULDER RECONSTRUCTION, ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.

SHEET NO.

2026CPT.05.16.20931.1,ETC.

3



PAVEMENT SCHEDULE

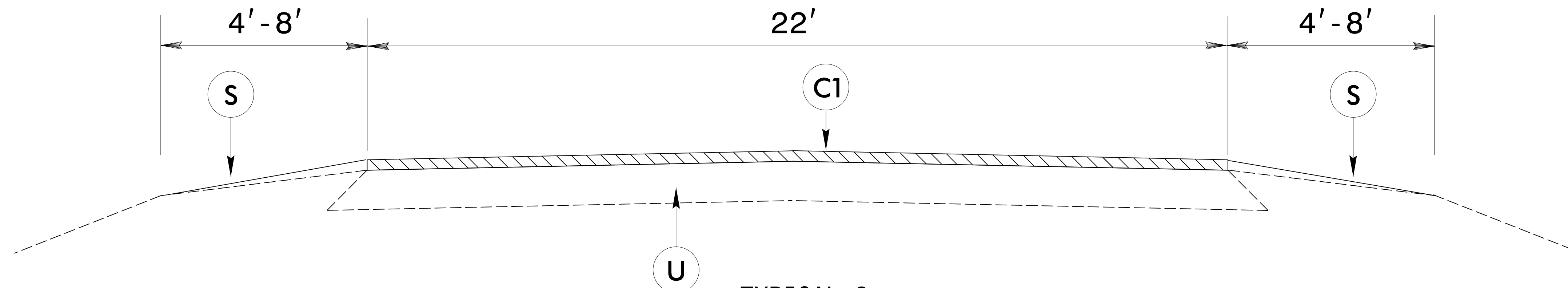
PROJECT REFERENCE NO.

SHEET NO.

2026CPT.05.16.20931.1,ETC.

4

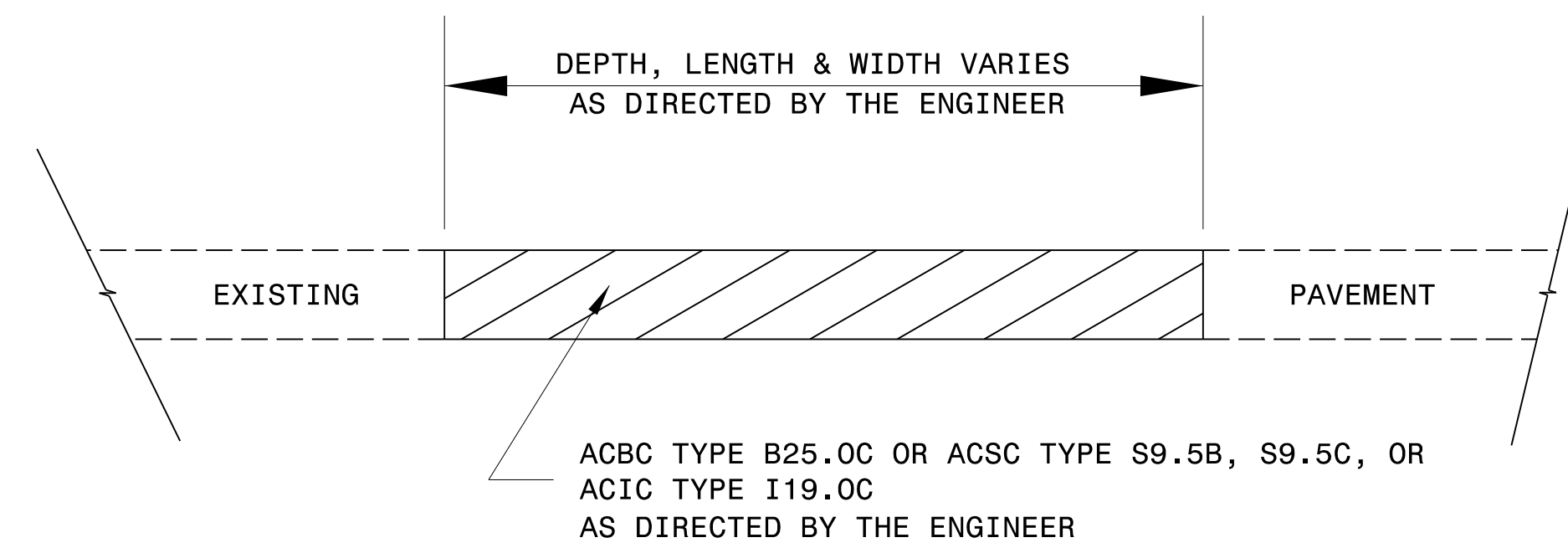
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
S	SHOULDER RECONSTRUCTION, ASB REQUIRED (EXCEPT AT RESIDENTIAL AREAS)
U	EXISTING PAVEMENT



TYPICAL 3
OVERLAY, NO CURB
MAP NO. 4

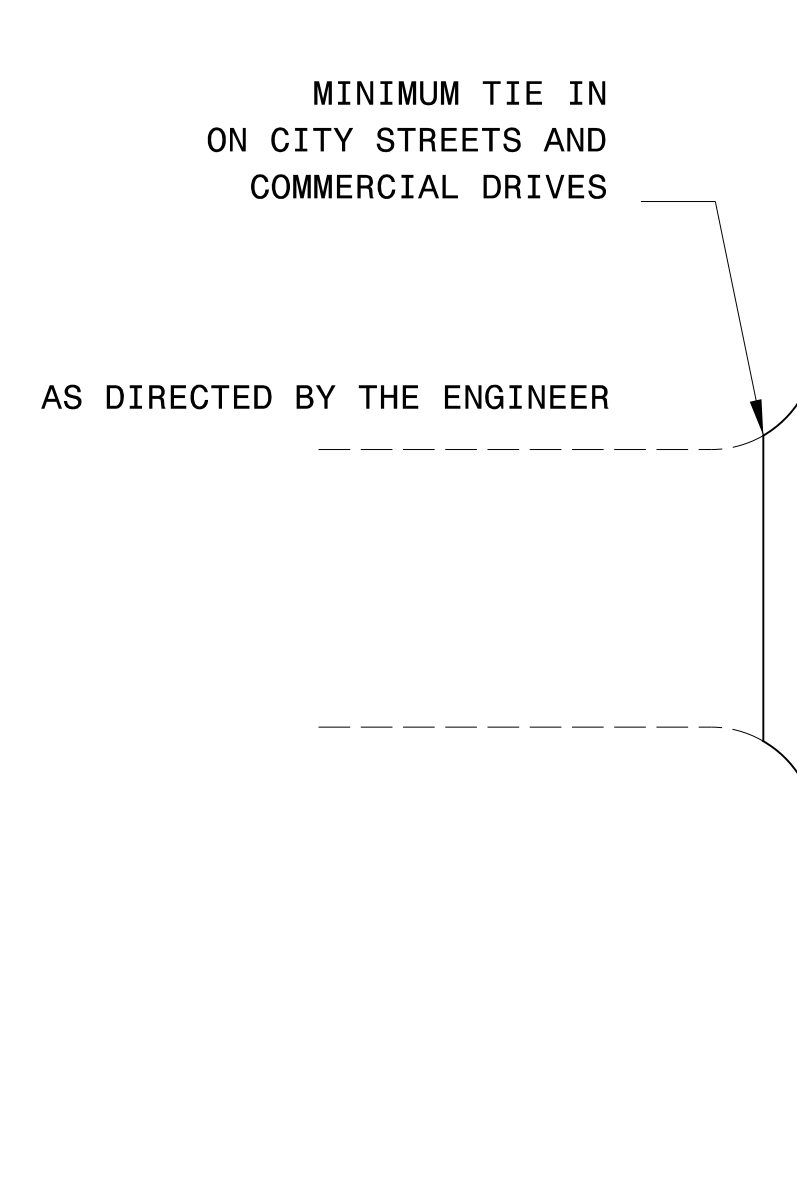
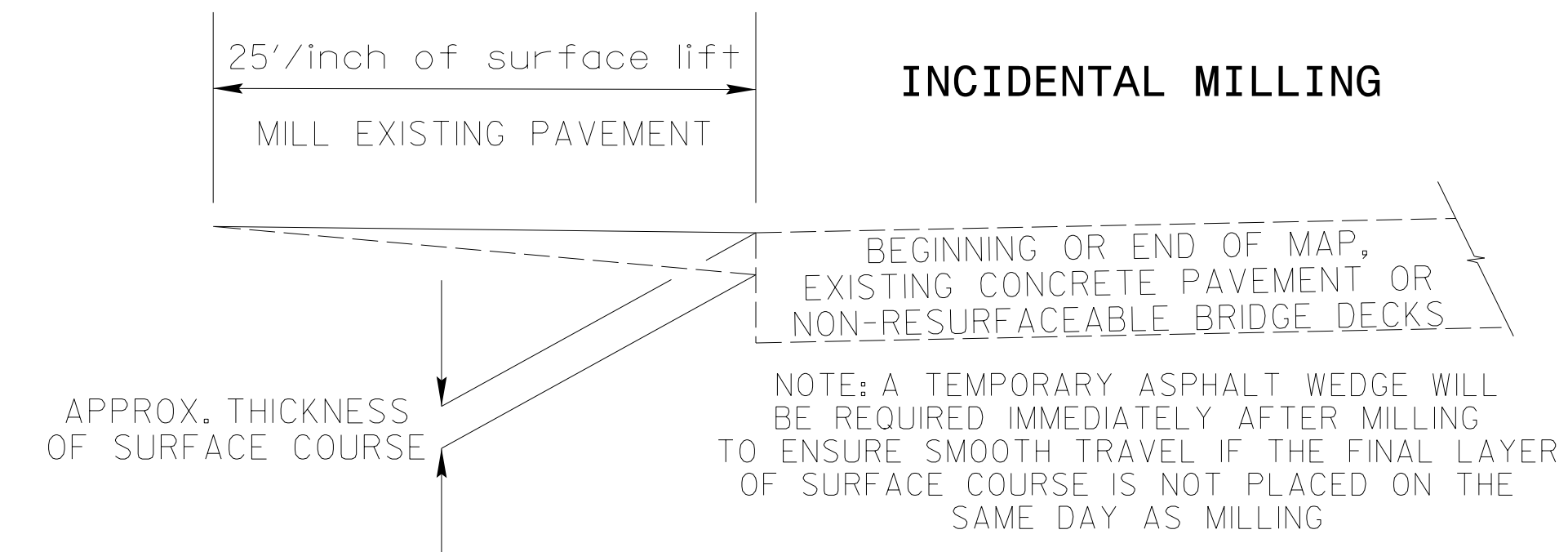
NOTES

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.

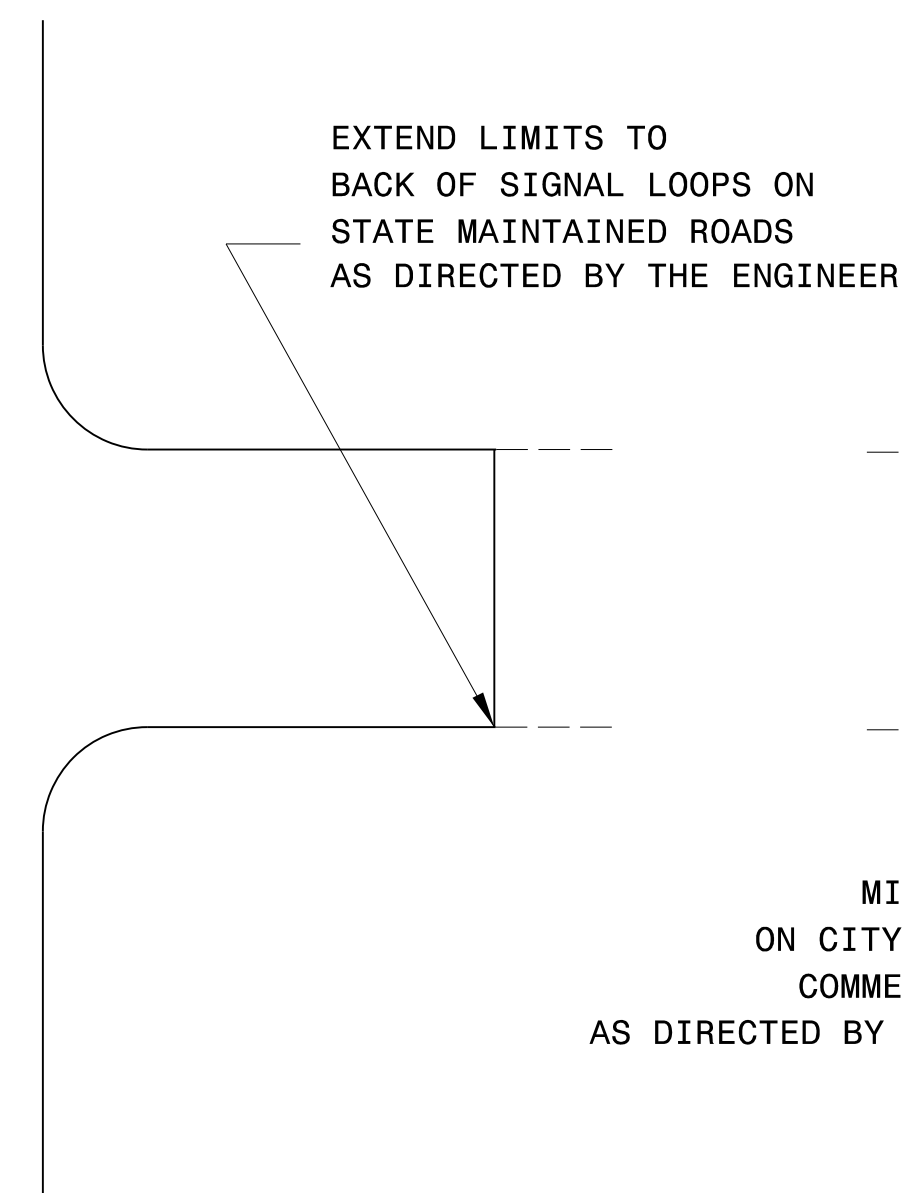


PATCHING EXISTING PAVEMENT

MILLING TO BE PERFORMED PRIOR TO PATCHING



DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES AS DIRECTED BY THE ENGINEER

DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

EXTEND LIMITS TO BACK OF RADIUS ON STATE MAINTAINED ROADS AS DIRECTED BY THE ENGINEER

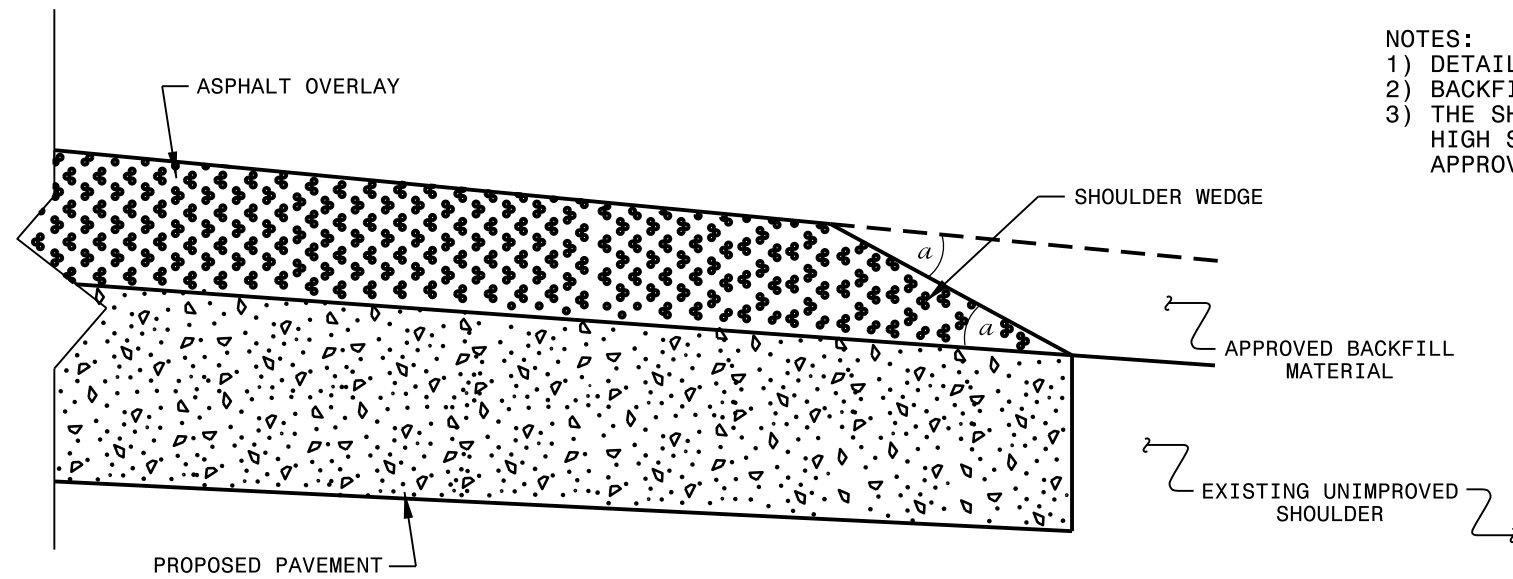
ADDITIONAL INTERSECTIONS (NON-TYPICAL)

Extend paving limits to back of radius
or loop on the following intersections:

MAP#	STREET NAME	COMMENTS
N/A		

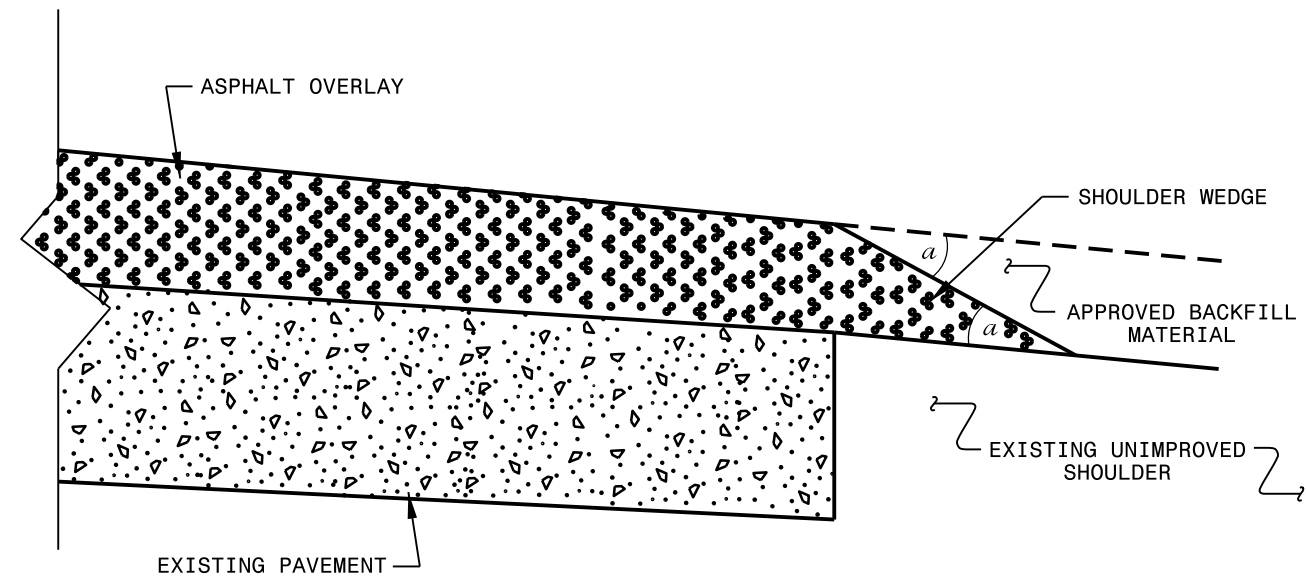
NOTES:

- 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.



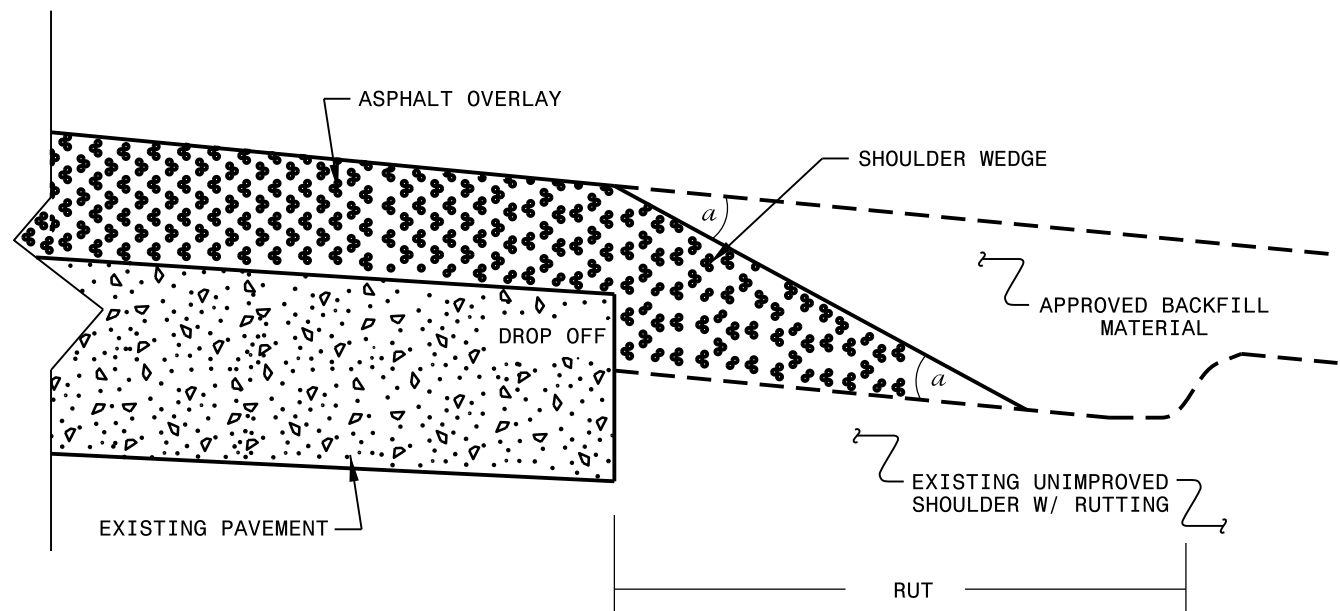
SHOULDER WEDGE DETAIL

(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.: szusr/details/stand/shoulderwedgedetail.dgn		

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.05.16.20931.1, ETC.	8	10

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEG N MP	END MP	1220000000-E	1245000000-E	1260000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E
												INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTI ON	AGGREGATE SHOULDER BORROW	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
												TONS	SMI	TON	SY	TONS	TON	TONS
2026CPT.05.16.20931.1	Warren	1	SR-1109 / READ RD		1	2	2WD	0.980	20	####	####	49	1.68	181	63	709	46	
TOTAL FOR MAP NO. 1								0.980				49	1.68	181	63	709	46	
2026CPT.05.16.20931.1	Warren	2	SR-1306 / ROBINSON FERRY RD / FIVE WISE FORKS RD		2	2	2WD	7.950	20	####	####	397	15.30	1,469	56	6,898	452	70
TOTAL FOR MAP NO. 2								7.950				397	15.30	1,469	56	6,898	452	70
2026CPT.05.16.20931.1	Warren	3	SR-1314 / WAVIELY THOMPSON RD		2	2	2WD	4.100	20	####	####	205	7.82	758	60	3,763	319	1,548
TOTAL FOR MAP NO. 3								4.100				205	7.82	758	60	3,763	319	1,548
TOTAL FOR PROJ NO. 2026CPT.05.16.20931.1								13.030				651	24.80	2,408	179	11,370	817	1,618
2026CPT.05.16.20932.1	Warren	4	SR-1322 / COOKS CHAPEL RD		3	2	2WD	0.880	22	####	####	44	1.70	163	117	697	47	26
TOTAL FOR MAP NO. 4								0.880				44	1.70	163	117	697	47	26
TOTAL FOR PROJ NO. 2026CPT.05.16.20932.1								0.880				44	1.70	163	117	697	47	26
GRAND TOTAL								13.910				695	26.50	2,571	296	12,067	864	1,644

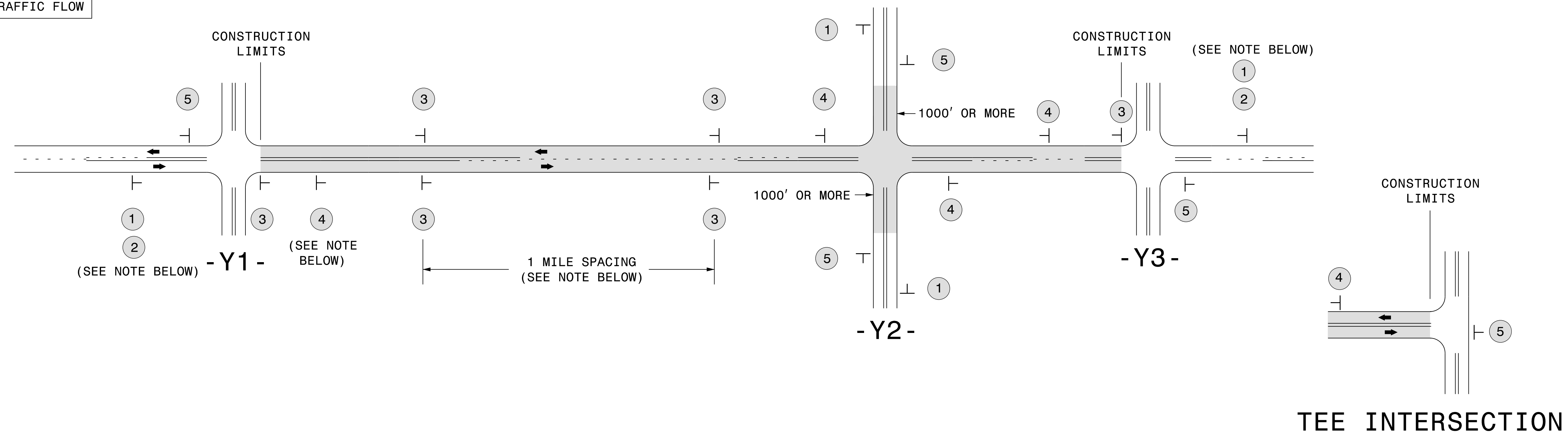
PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.05.16.20931.1, ETC.	9	10

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4685000000-E	4709000000-E	4720000000-E		
												WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	24" X 90 M WHITE THERMO	THERMO MSG AHEAD 90 M	THERMO MSG STOP 90 M
												MI	LS	LF	LF	LF	EA	EA
2026CPT.05.16.20931.1	Warren	1	SR-1109 / READ RD		1	2	2WD	0.98	20	0	0.98	110	0.07	10,296	8,226	20	10	16
TOTAL FOR MAP NO. 1							0.98					110	0.07	10,296	8,226	20	10	16
2026CPT.05.16.20931.1	Warren	2	SR-1306 / ROBINSON FERRY RD / FIVE WISE FORKS RD		2	2	2WD	7.95	20	0	7.95	890	0.57	82,392	75,858			
TOTAL FOR MAP NO. 2							7.95					890	0.57	82,392	75,858			
2026CPT.05.16.20931.1	Warren	3	SR-1314 / WAVIELY THOMPSON RD		2	2	2WD	4.1	20	0	4.1	460	0.30	42,947	42,124			
TOTAL FOR MAP NO. 3							4.1					460	0.30	42,947	42,124			
TOTAL FOR PROJ NO. 2026CPT.05.16.20931.1							13.03					1,460	0.94	135,635	126,208	20	10	16
													261,843		26			
2026CPT.05.16.20932.1	Warren	4	SR-1322 / COOKS CHAPEL RD		3	2	2WD	0.88	22	0	0.88	99	0.06	9,292	6,688			
TOTAL FOR MAP NO. 4							0.88					99	0.060	9,292	6,688			
TOTAL FOR PROJ NO. 2026CPT.05.16.20932.1							0.88					99	0.060	9,292	6,688			
													15,980					

SIGNING FOR RESURFACING PROJECTS

LEGEND
 ┆ STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

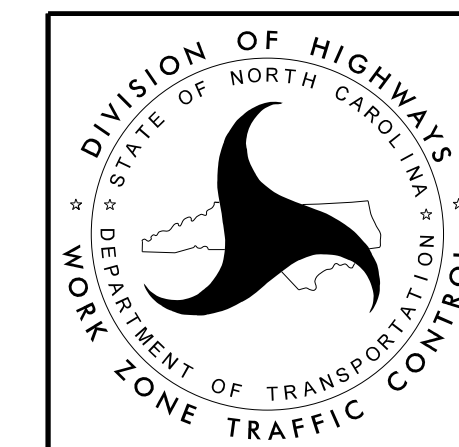


MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1		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, PORTABLE ADVANCE WARNING 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" 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		#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		- 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		- 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		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	
<p>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.</p>				
<p>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.</p>				

MAPS LESS THAN 2 MILES



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