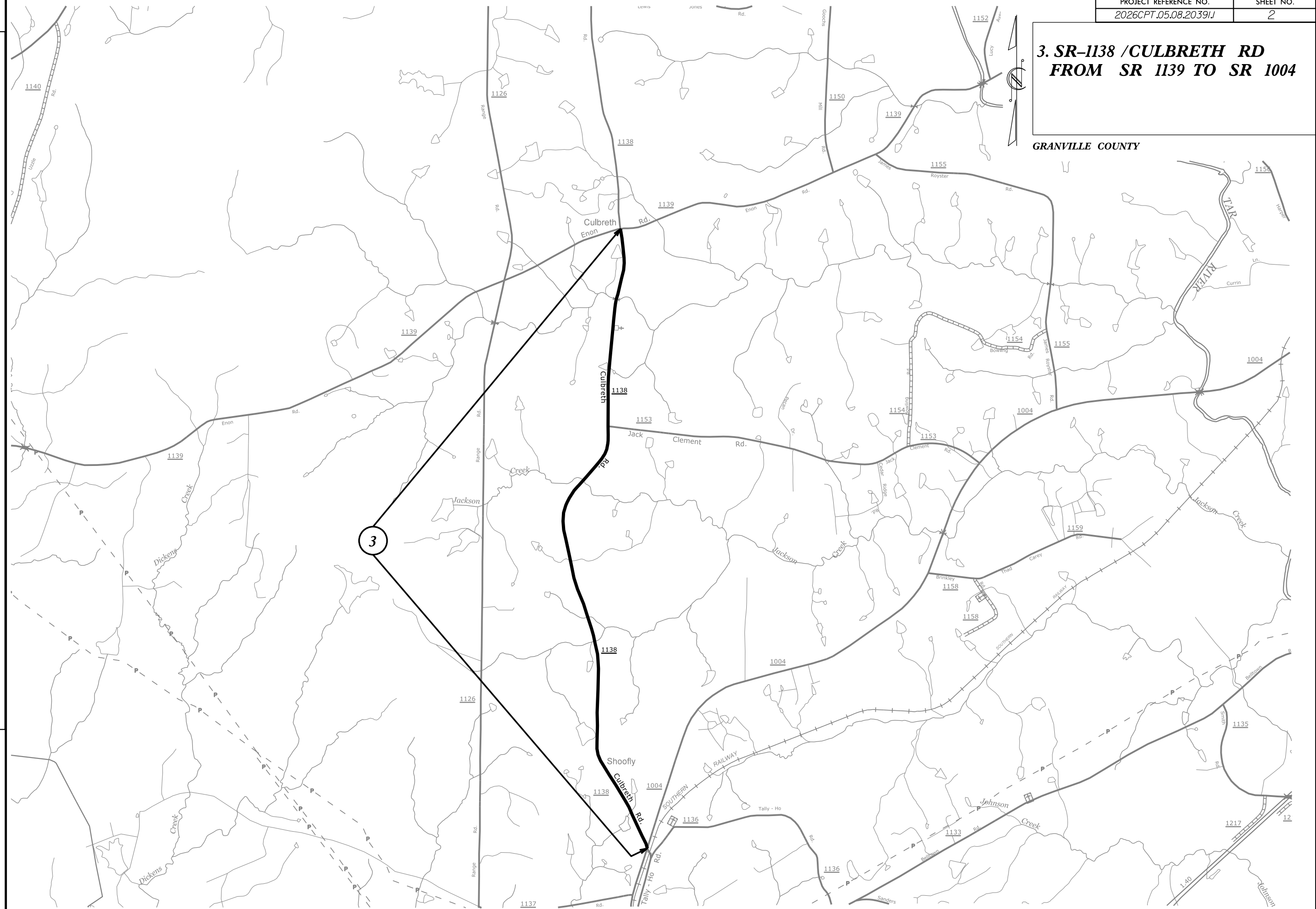


**3. SR-1138 /CULBRETH RD
FROM SR 1139 TO SR 1004**

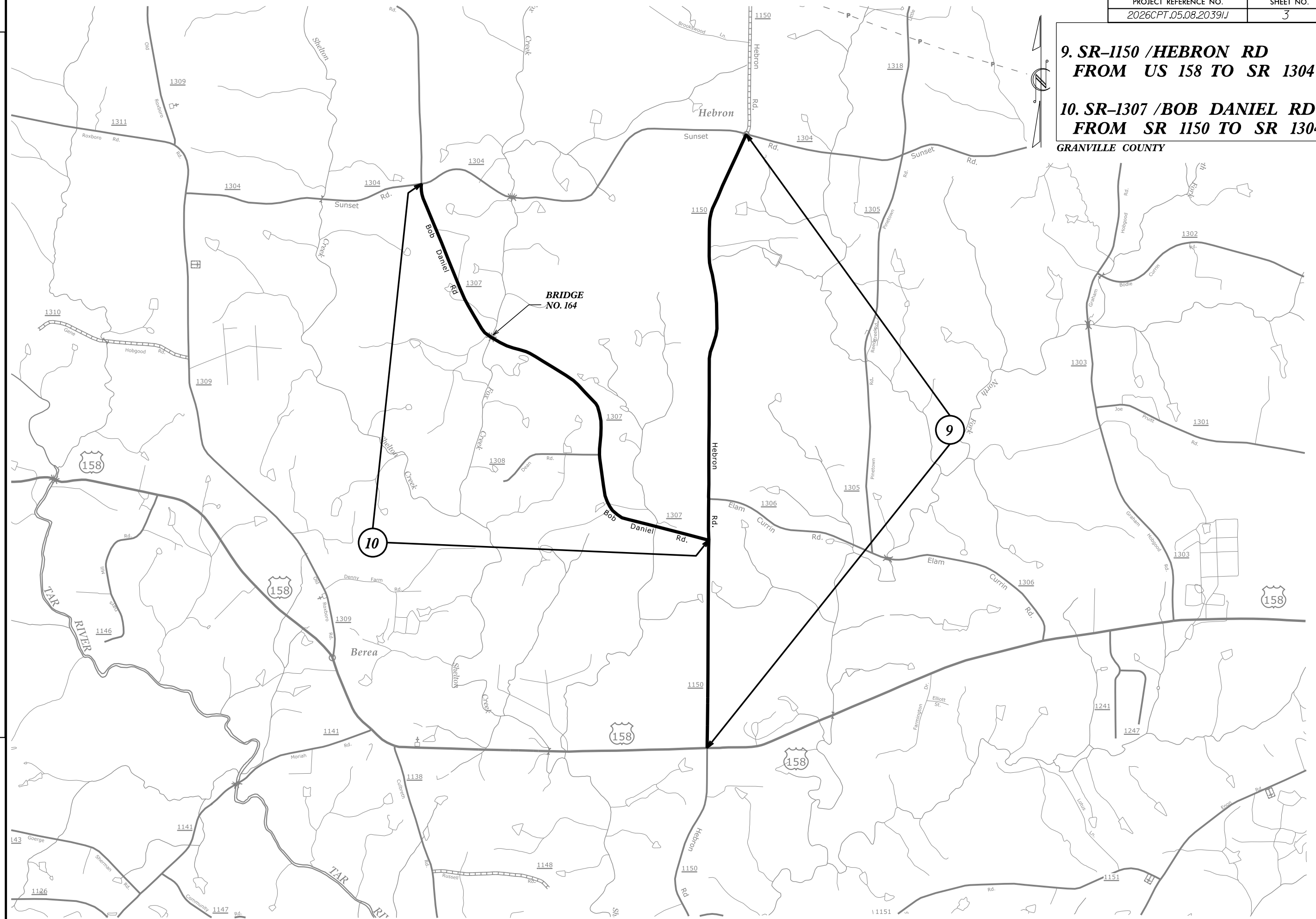
GRANVILLE COUNTY



**9. SR-1150 /HEBRON RD
FROM US 158 TO SR 1304**

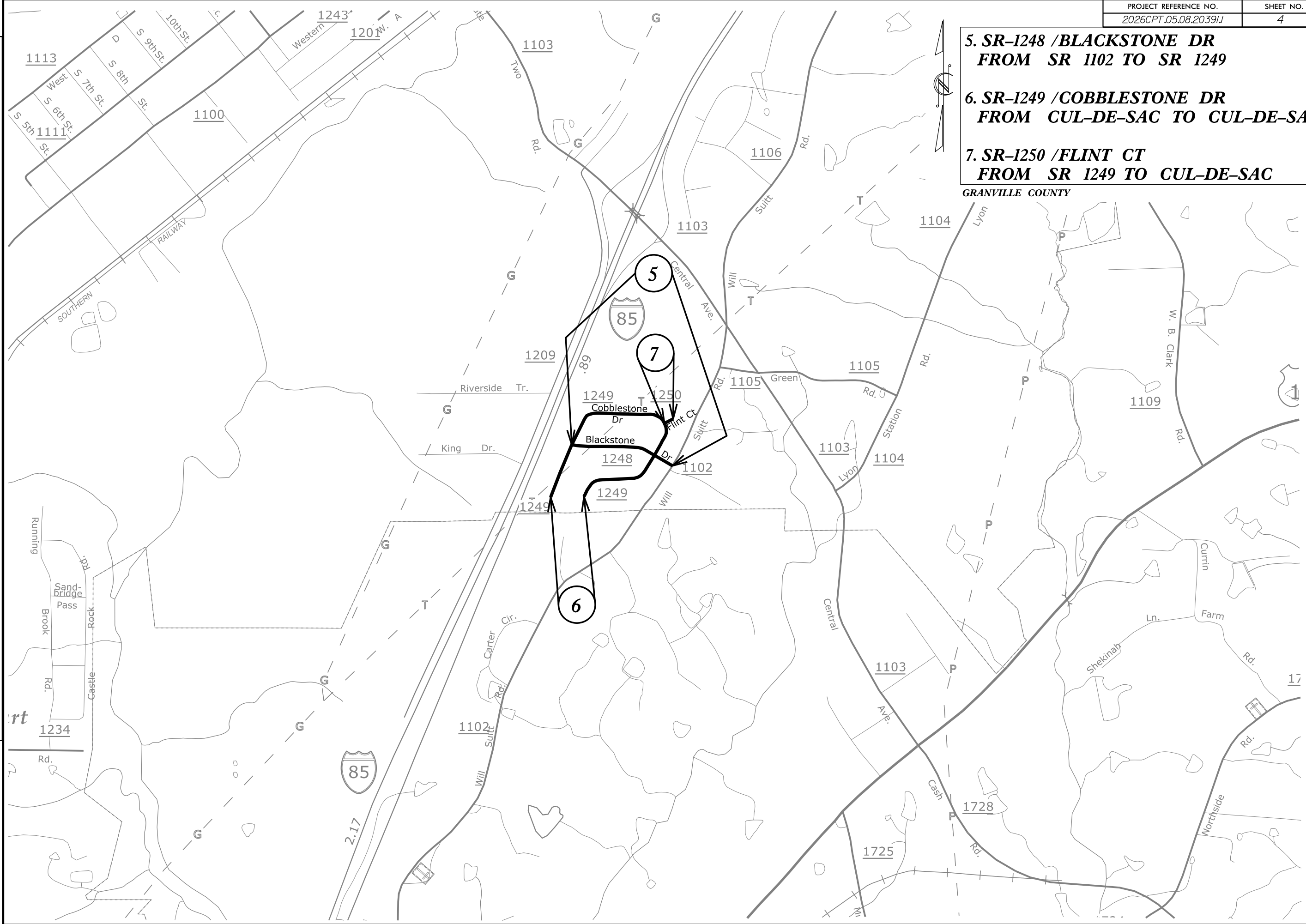
**10. SR-1307 /BOB DANIEL RD
FROM SR 1150 TO SR 1304**

GRANVILLE COUNTY



5. SR-1248 /BLACKSTONE DR
FROM SR 1102 TO SR 1249
6. SR-1249 /COBBLESTONE DR
FROM CUL-DE-SAC TO CUL-DE-SAC
7. SR-1250 /FLINT CT
FROM SR 1249 TO CUL-DE-SAC

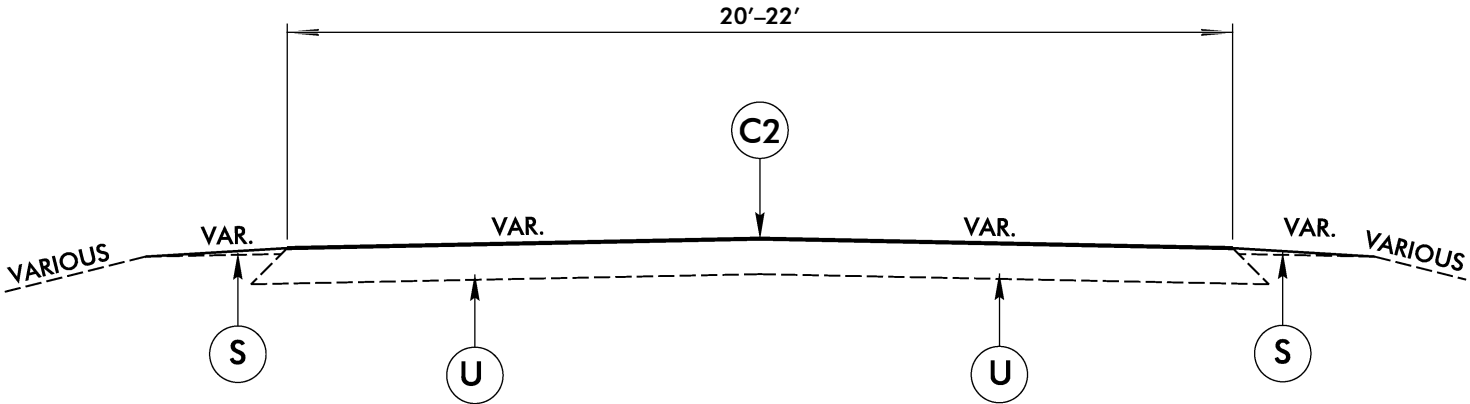
GRANVILLE COUNTY



8/17/99

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
J1	8" AGGREGATE BASE COURSE
N1	GEOTEXTILE FOR SUBGRADE STABILIZATION
P	PRIME COAT
V1	MILLING OF EXISTING ASPHALT PAVEMENT, 9.5"
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.08.2039/I	5



TYPICAL SECTION NO. 1

MAP 1 – SR-1124 /OTHO MANGUM RD

MAP 2 – SR-1125 /JULIAN DANIEL RD

MAP 3 – SR-1138 /CULBRETH RD

MAP 4 – SR-1215 /W LYON STATION RD

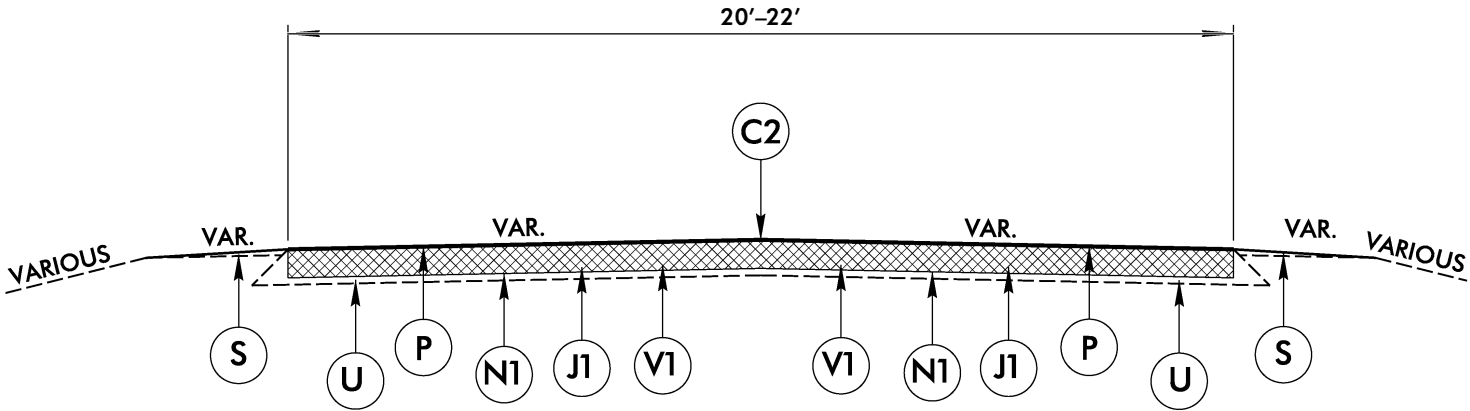
MAP 8 – SR-1636 /MOSS-HAYES RD

NOTE:
MILL 1 1/2" ON MAP 8, BRIDGE NO. 240
AS DIRECTED BY THE ENGINEER
TO RESURFACE AND NOT ADD ANY ADDITIONAL WEIGHT ON THE BRIDGE.
TO BE PAID FOR AS INCIDENTAL MILLING.

8/17/99

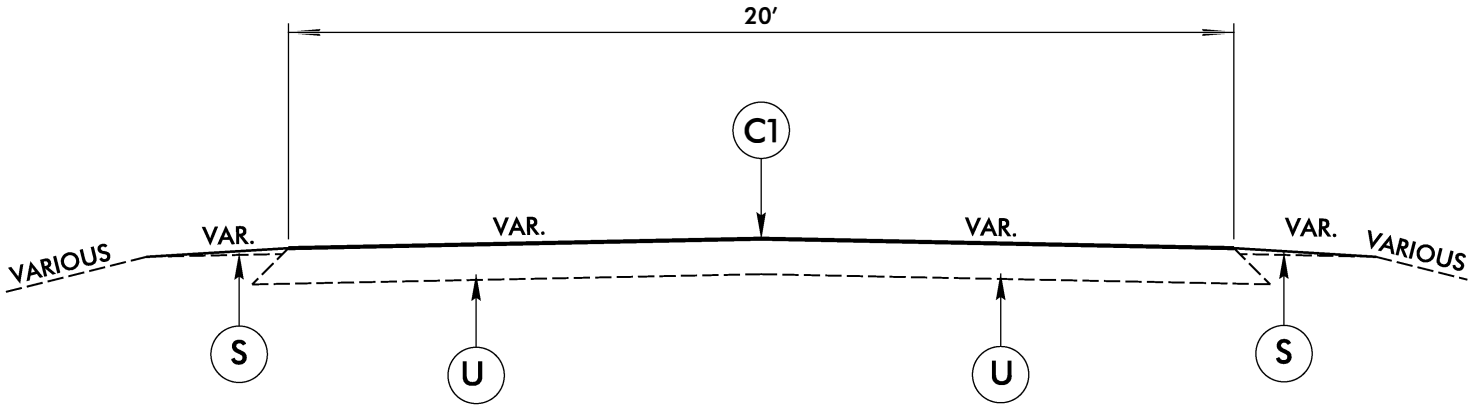
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
J1	8" AGGREGATE BASE COURSE
N1	GEOTEXTILE FOR SUBGRADE STABILIZATION
P	PRIME COAT
V1	MILLING OF EXISTING ASPHALT PAVEMENT, 9.5"
S	SHOULDER RECONSTRUCTION, ASB REQUIRED
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.08.2039/I	6



TYPICAL SECTION NO. 2

- MAP 5 – SR-1248 /BLACKSTONE DR
- MAP 6 – SR-1249 /COBBLESTONE DR
- MAP 7 – SR-1250 /FLINT CT

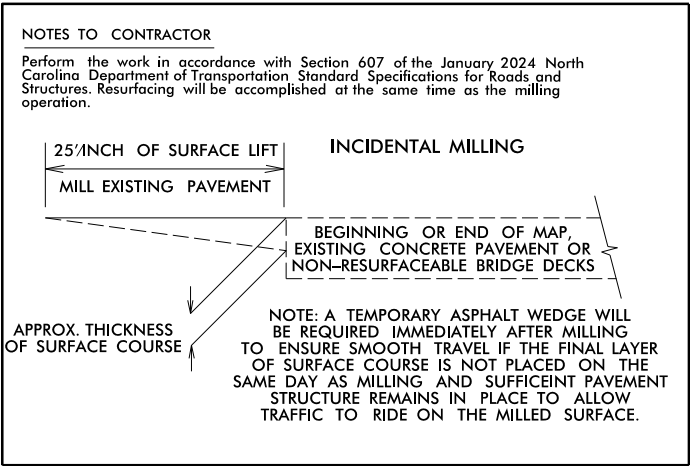
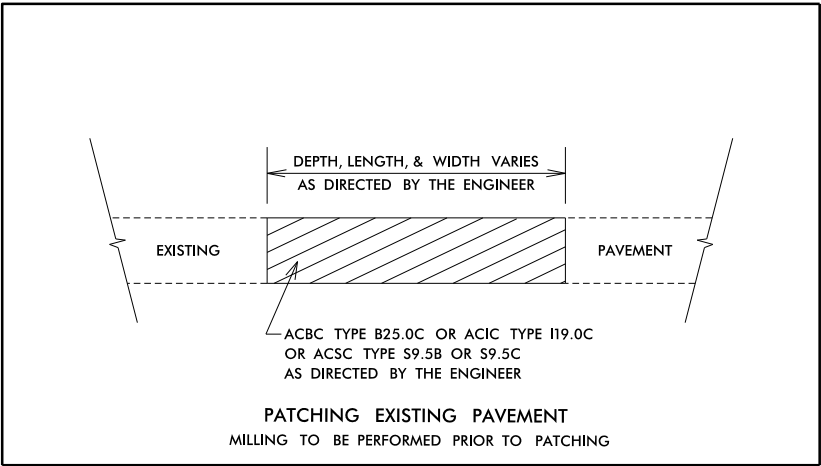


TYPICAL SECTION NO. 3

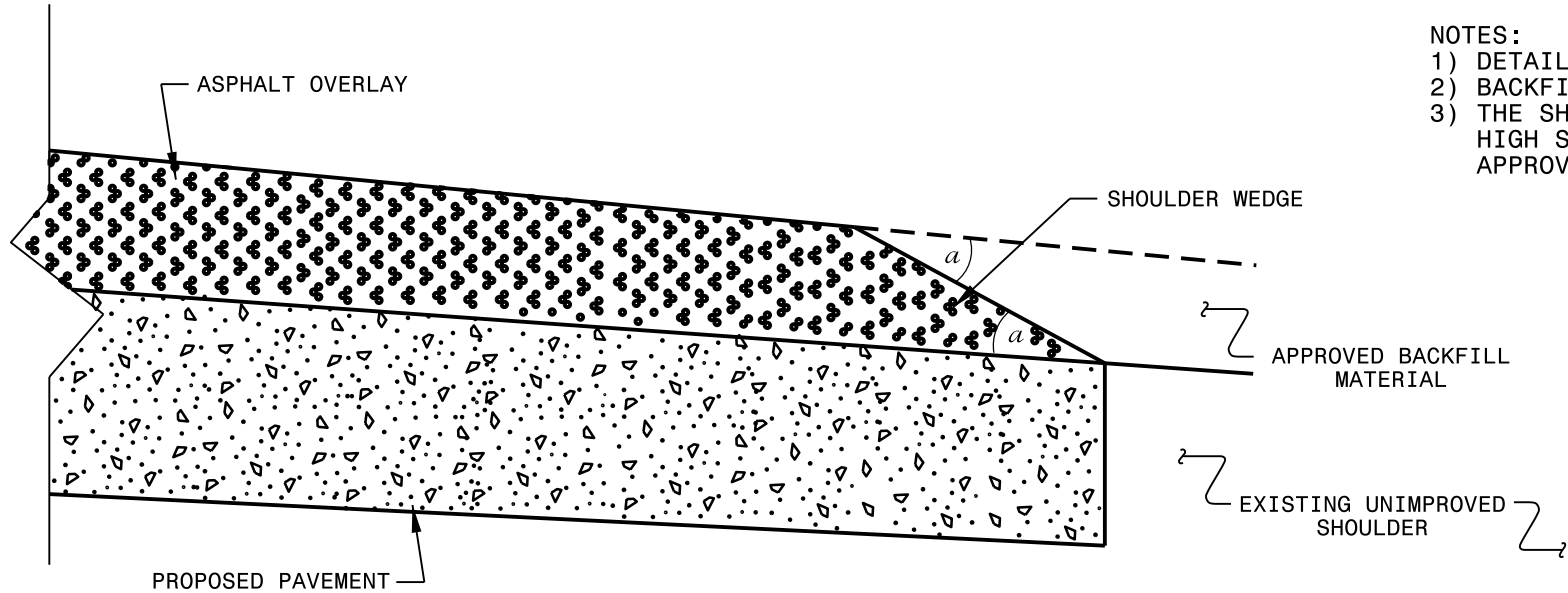
- MAP 9 – SR-1150 /HEBRON RD
- MAP 10 – SR-1307 /BOB DANIEL RD

NOTES

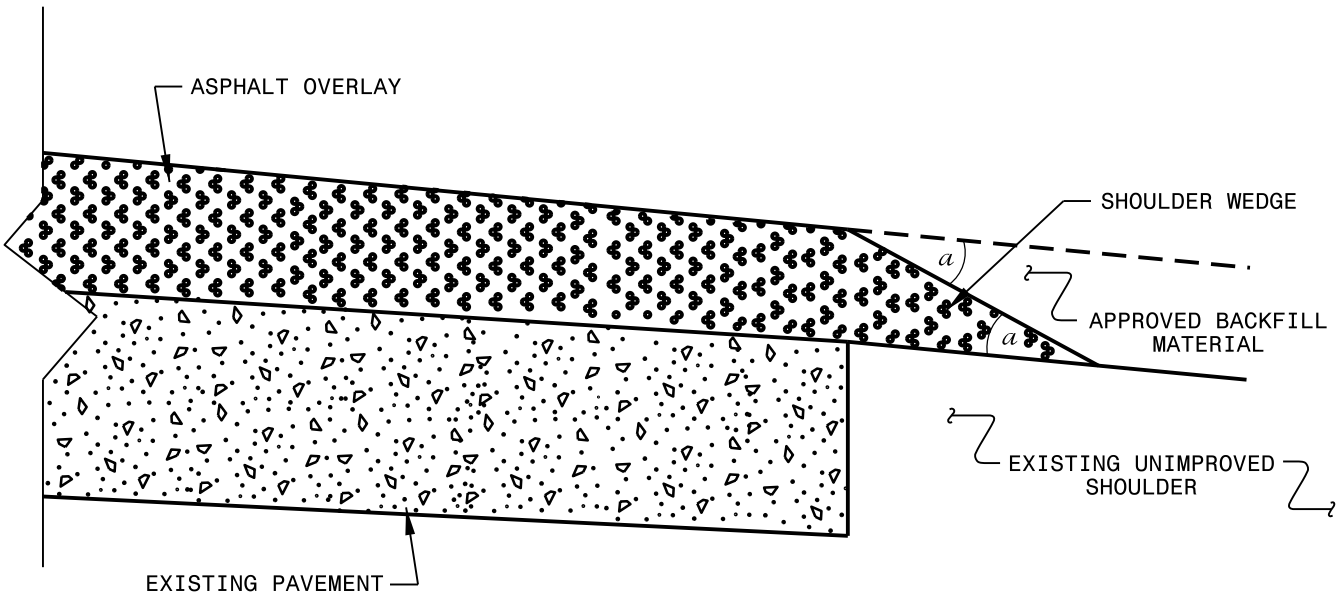
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



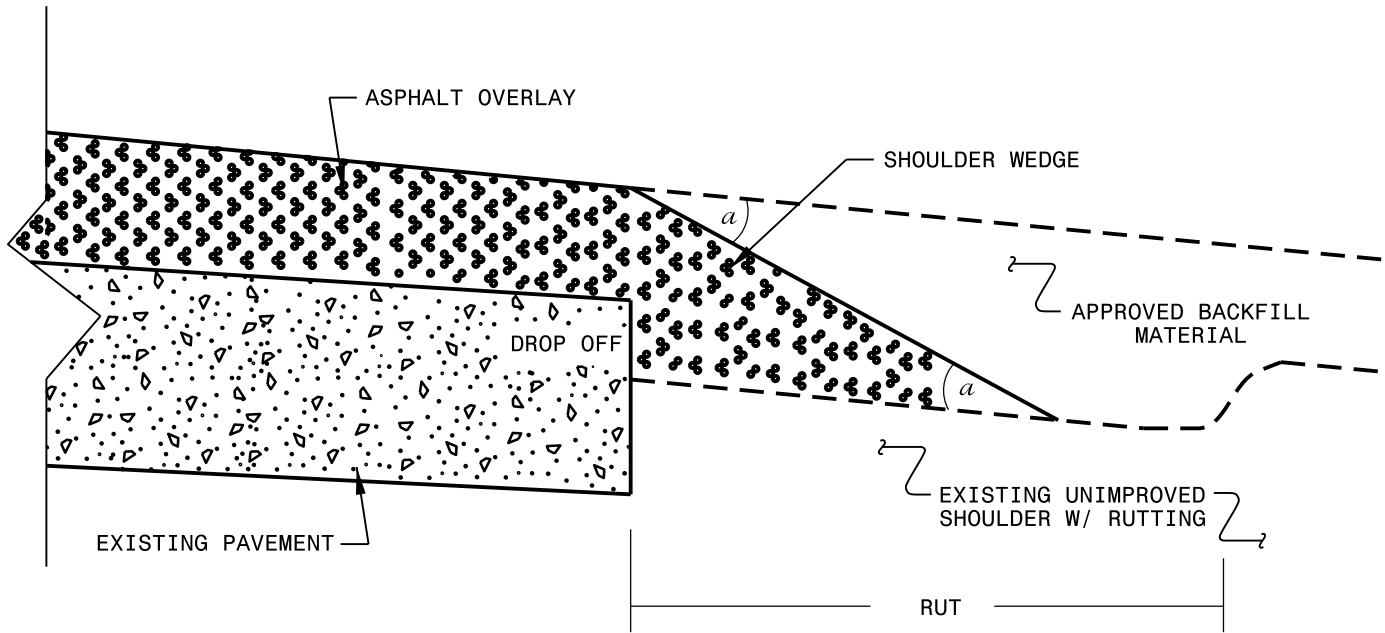
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ Widening or
with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)

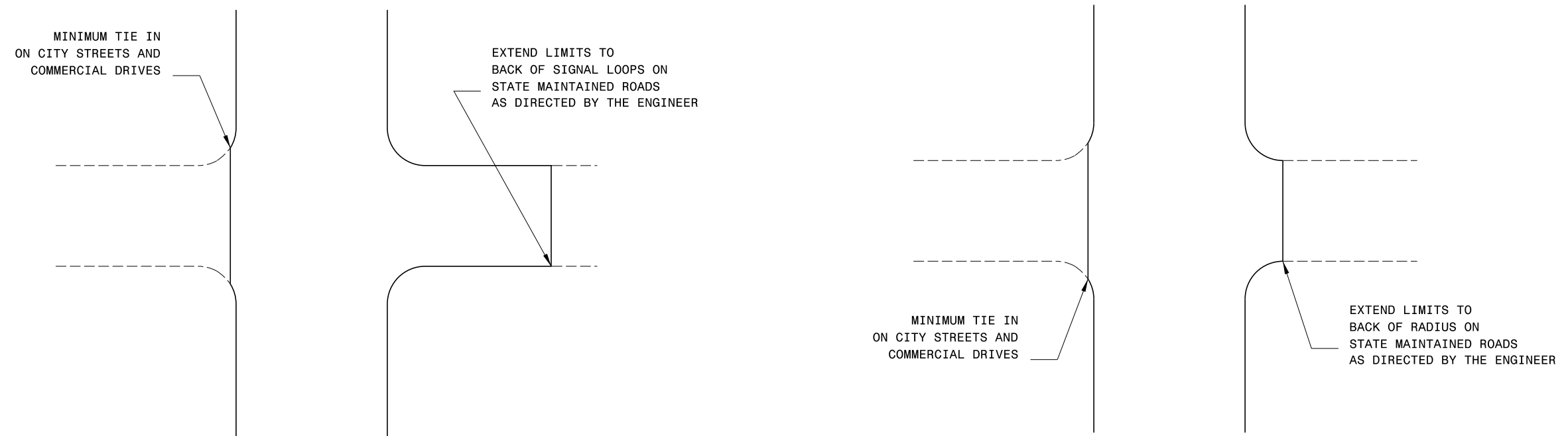


SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- 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.: s:\usr\details\stand\shoulderwedgedetail.dgn	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)

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

[illegible]

SUMMARY OF QUANTITIES

REVISIONS

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		WIDTH	0196000000-E	1121000000-E	1220000000-E	1245000000-E	1260000000-E	1275000000-E	1297000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2830000000-N
								MI	FT		GEOTEXTILE FOR SUBGRADE STABILIZATION	AGGREGATE BASE COURSE	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTI ON	AGGREGATE SHOULDER BORROW	PRIME COAT	9.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, \$9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJUST MANHOLES
2026CPT.05.08.20391.1	Granville	1	SR-1124 / OTHO MANGUM RD	FROM SR 1215 TO SR 1004	1	2	2WU	1.887	20		SY	TONS	TONS	SMI	TON	GAL	SY	SY	TONS	TON	TONS	EA
TOTAL FOR MAP NO. 1								1.887					95	3.78	350			250	1,889	153	626	
2026CPT.05.08.20391.1	Granville	2	SR-1125 / JULIAN DANIEL RD	FROM SR 1004 TO SR 1124	1	2	2WU	0.963	20				48	1.92	178			84	974	70	141	
TOTAL FOR MAP NO. 2								0.963					48	1.92	178			84	974	70	141	
2026CPT.05.08.20391.1	Granville	3	SR-1138 / CULBRETH RD	FROM SR 1139 TO SR 1004	1	2	2WU	3.501	20				175	7.00	647			65	3,541	230		
TOTAL FOR MAP NO. 3								3.501					175	7.00	647			65	3,541	230		
2026CPT.05.08.20391.1	Granville	4	SR-1215 / W LYON STATION RD	FROM NC 56 TO SR 1127	1	2	2WU	2.403	22				120	4.80	444			440	2,474	161	4	1
TOTAL FOR MAP NO. 4								2.403					120	4.80	444			440	2,474	161	4	1
2026CPT.05.08.20391.1	Granville	5	SR-1248 / BLACKSTONE DR	FROM SR 1102 TO SR 1249	2	2	2WU	0.288	20		3,302.00	1,487	15	0.58	54	1,156	2,833	470	287	19		1
TOTAL FOR MAP NO. 5								0.288			3,302.00	1,487	15	0.58	54	1,156	2,833	470	287	19		1
2026CPT.05.08.20391.1	Granville	6	SR-1249 / COBBLESTONE DR	FROM CUL-DE-SAC TO CUL-DE-SAC	2	2	2WU	0.811	20		10,112.00	4,553	41	1.62	150	354	10,112		876	57		
TOTAL FOR MAP NO. 6								0.811			10,112.00	4,553	41	1.62	150	354	10,112		876	57		
2026CPT.05.08.20391.1	Granville	7	SR-1250 / FLINT CT	FROM SR 1249 TO CUL-DE-SAC	2	2	2WU	0.031	20		579.00	261	2	0.06	6	203	579		51	3		
TOTAL FOR MAP NO. 7								0.031			579.00	261	2	0.06	6	203	579		51	3		
2026CPT.05.08.20391.1	Granville	8	SR-1636 / MOSS-HAYES RD	FROM NC 56 TO SR 1638	1	2	2WU	1.520	20				76	3.03	280			469	1,511	99	7	
TOTAL FOR MAP NO. 8								1.520					76	3.03	280			469	1,511	99	7	
2026CPT.05.08.20391.1	Granville	9	SR-1150 / HEBRON RD	FROM US 158 TO SR 1304	3	2	2WU	3.300	20				166	6.62	612			398	2,820	185	25	
TOTAL FOR MAP NO. 9								3.300					166	6.62	612			398	2,820	185	25	
2026CPT.05.08.20391.1	Granville	10	SR-1307 / BOB DANIEL RD	FROM SR 1150 TO SR 1304	3	2	2WU	2.700	20				134	5.34	494			363	2,251	148	39	
TOTAL FOR MAP NO. 10								2.700					134	5.34	494			363	2,251	148	39	
TOTAL FOR PROJ NO. 2026CPT.05.08.20391.1								17.404			13,993.00	6,301	872	34.75	3,215	1,713	13,524	2,539	16,674	1,125	842	2
GRAND TOTAL								17.404			13,993.00	6,301	872	34.75	3,215	1,713	13,524	2,539	16,674	1,125	842	2

SUMMARY OF QUANTITIES

REVISIONS

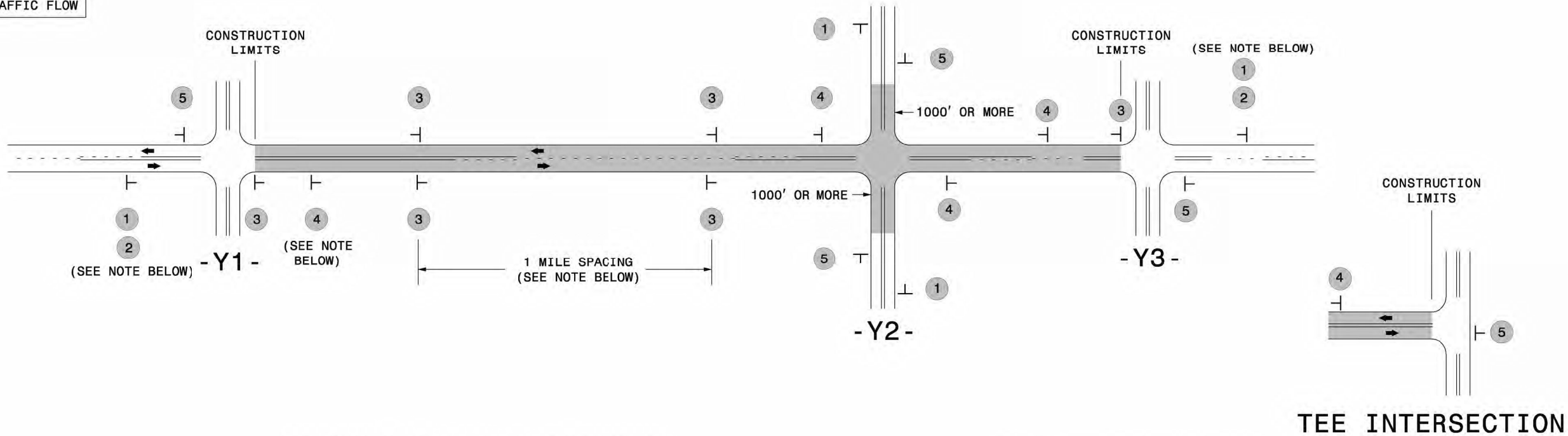
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E		4704000000-E	4709000000-E	4720000000-E		
								MI	FT	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	16" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO MSG RXR 90 M	THERMO MSG STOP 90 M	THERMO MSG AHEAD 90 M
2026CPT.05.08.20391.1	Granville	1	SR-1124 / OTHO MANGUM RD	FROM SR 1215 TO SR 1004	1	2	2WU	1.887	20	212	0.1086	21,750	21,620	100	70	4	EA	EA
TOTAL FOR MAP NO. 1								1.887		212	0.1086	21,750	21,620	100	70	4		
2026CPT.05.08.20391.1	Granville	2	SR-1125 / JULIAN DANIEL RD	FROM SR 1004 TO SR 1124	1	2	2WU	0.963	20	103	0.0552	11,100	10,960					
TOTAL FOR MAP NO. 2								0.963		103	0.0552	11,100	10,960					
2026CPT.05.08.20391.1	Granville	3	SR-1138 / CULBRETH RD	FROM SR 1139 TO SR 1004	1	2	2WU	3.501	20	392	0.2011	40,110	40,110					
TOTAL FOR MAP NO. 3								3.501		392	0.2011	40,110	40,110					
2026CPT.05.08.20391.1	Granville	4	SR-1215 / W LYON STATION RD	FROM NC 56 TO SR 1127	1	2	2WU	2.403	22	269	0.1379	25,520	25,460	100	80	4		
TOTAL FOR MAP NO. 4								2.403		269	0.1379	25,520	25,460	100	80	4		
2026CPT.05.08.20391.1	Granville	5	SR-1248 / BLACKSTONE DR	FROM SR 1102 TO SR 1249	2	2	2WU	0.288	20	32	0.0167							
TOTAL FOR MAP NO. 5								0.288		32	0.0167							
2026CPT.05.08.20391.1	Granville	6	SR-1249 / COBBLESTONE DR	FROM CUL-DE-SAC TO CUL-DE-SAC	2	2	2WU	0.811	20	91	0.0466							
TOTAL FOR MAP NO. 6								0.811		91	0.0466							
2026CPT.05.08.20391.1	Granville	7	SR-1250 / FLINT CT	FROM SR 1249 TO CUL-DE-SAC	2	2	2WU	0.031	20	3	0.0017							
TOTAL FOR MAP NO. 7								0.031		3	0.0017							
2026CPT.05.08.20391.1	Granville	8	SR-1636 / MOSS-HAYES RD	FROM NC 56 TO SR 1638	1	2	2WU	1.52	20	170	0.0874	17,280	17,270				4	5
TOTAL FOR MAP NO. 8								1.52		170	0.0874	17,280	17,270				4	5
2026CPT.05.08.20391.1	Granville	9	SR-1150 / HEBRON RD	FROM US 158 TO SR 1304	3	2	2WU	3.3	20	370	0.1897	38,170	38,140					
TOTAL FOR MAP NO. 9								3.3		370	0.1897	38,170	38,140					
2026CPT.05.08.20391.1	Granville	10	SR-1307 / BOB DANIEL RD	FROM SR 1150 TO SR 1304	3	2	2WU	2.7	20	302	0.1552	30,730	30,710					
TOTAL FOR MAP NO. 10								2.7		302	0.155	30,730	30,710					
TOTAL FOR PROJ NO. 2026CPT.05.08.20391.1								17.404		1,949	1.000	184,660	184,270	200	150	8	4	5
															368,930			
GRAND TOTAL								17.404		1,949	1.000	184,660	184,270	200	150	8	4	5
															368,930			

SIGNING FOR RESURFACING PROJECTS

LEGEND

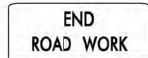
STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1  W20-1 48" X 48" 2  W7-3aP 24" X 18" 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)	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.  W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER.  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.
	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.	
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