

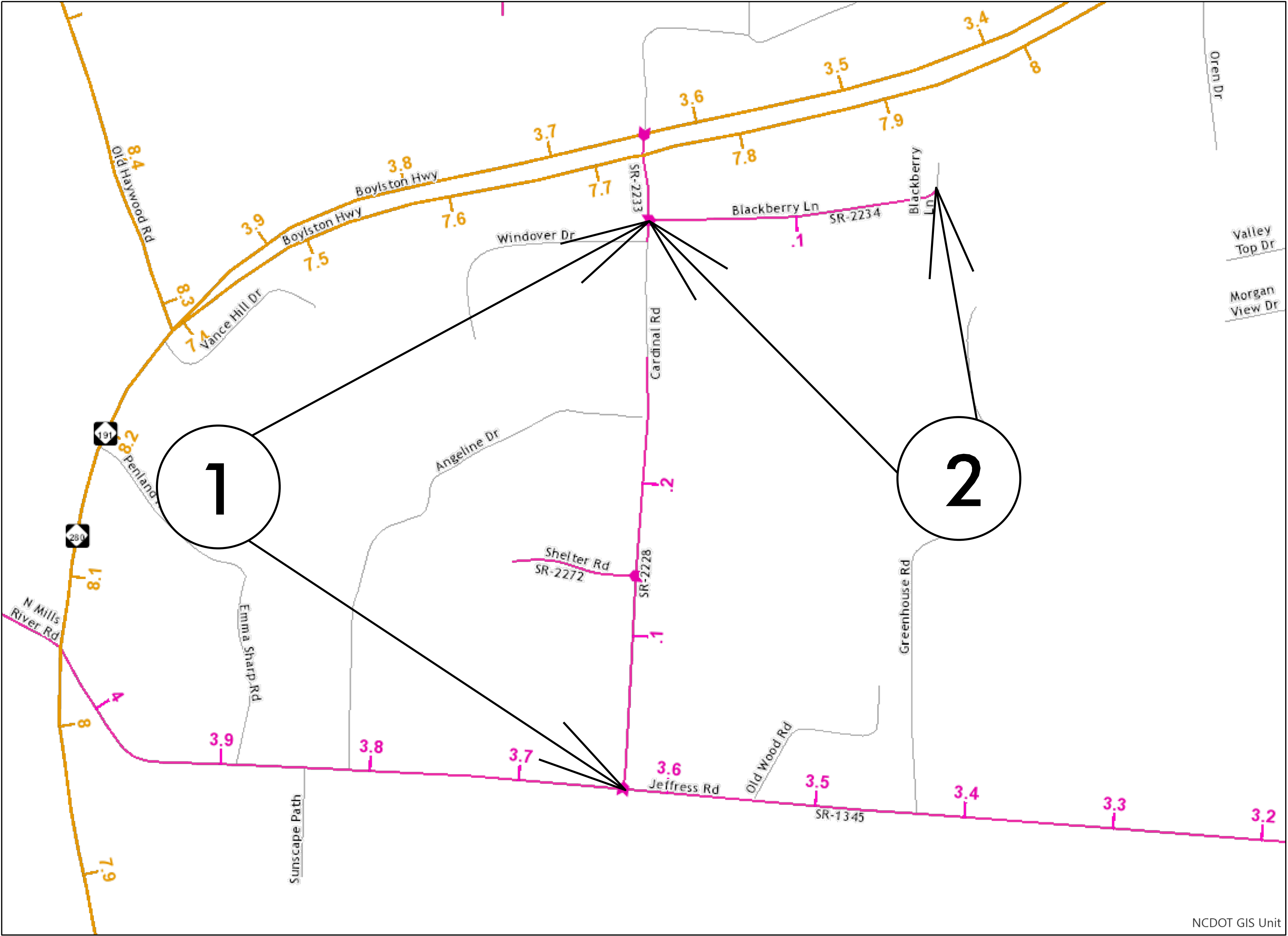
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HENDERSON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.14.08.20451	1	12
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	



MAP 1



BEG



END

MAP 2



BEG



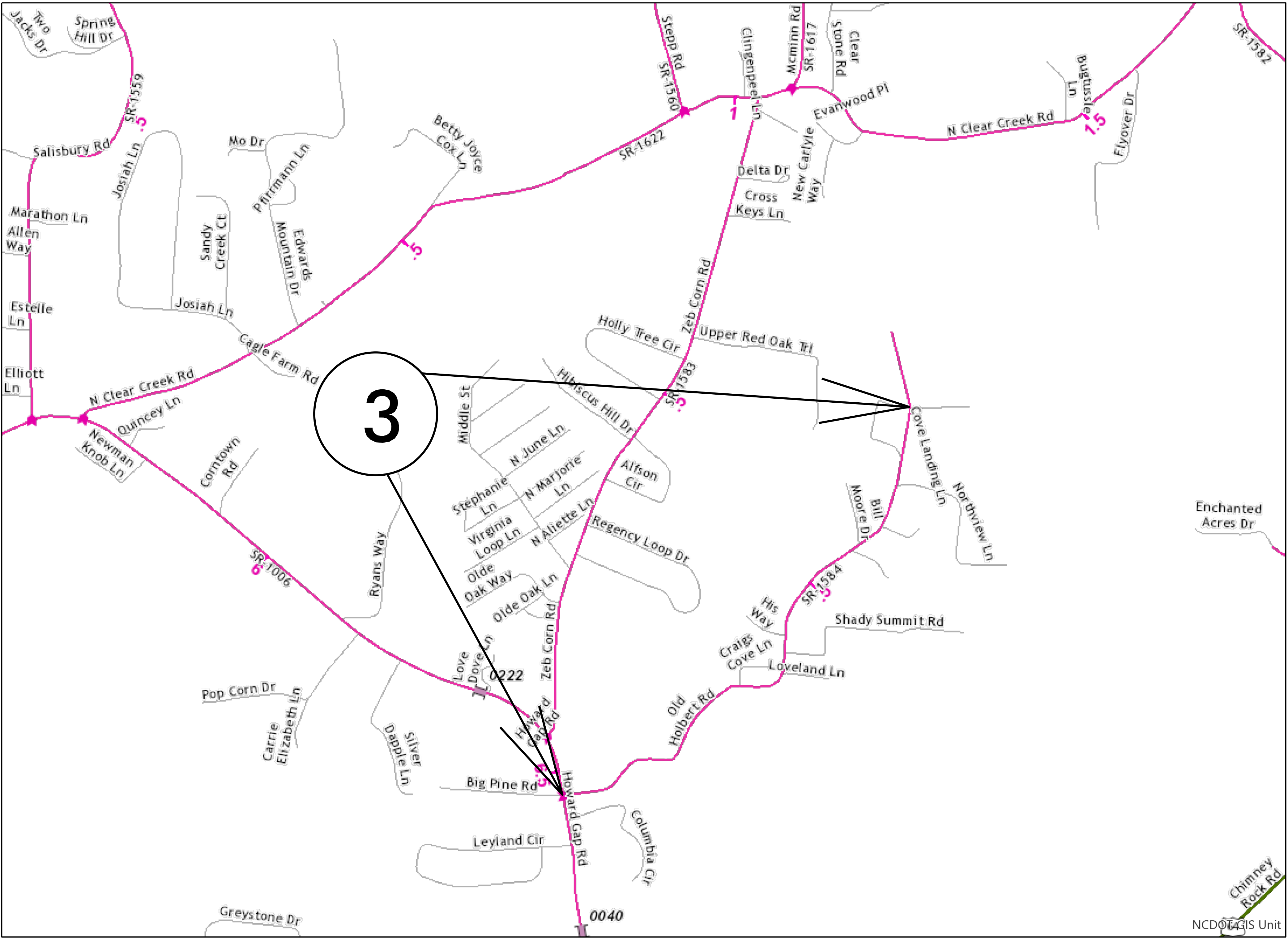
END

09/08/09

CONTRACT: DN01015

HENDERSON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.14.08.20451	2	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	



MAP 3



BEG



END

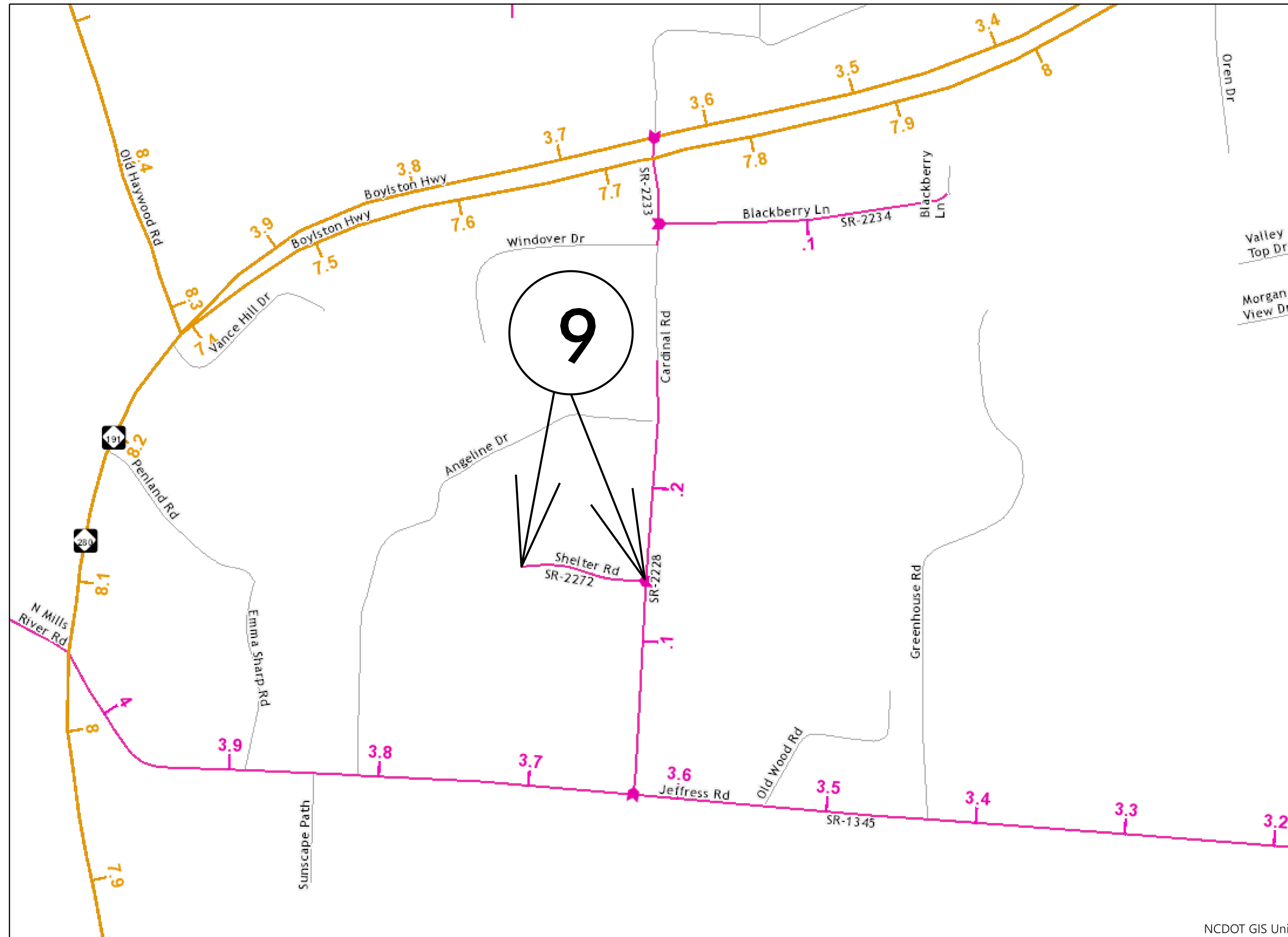
Chimney Rock Rd
NCDOT GIS Unit

09/08/09

CONTRACT: DN01015

HENDERSON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.14.08.20451	7	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	



NCDOT GIS Unit

MAP 9



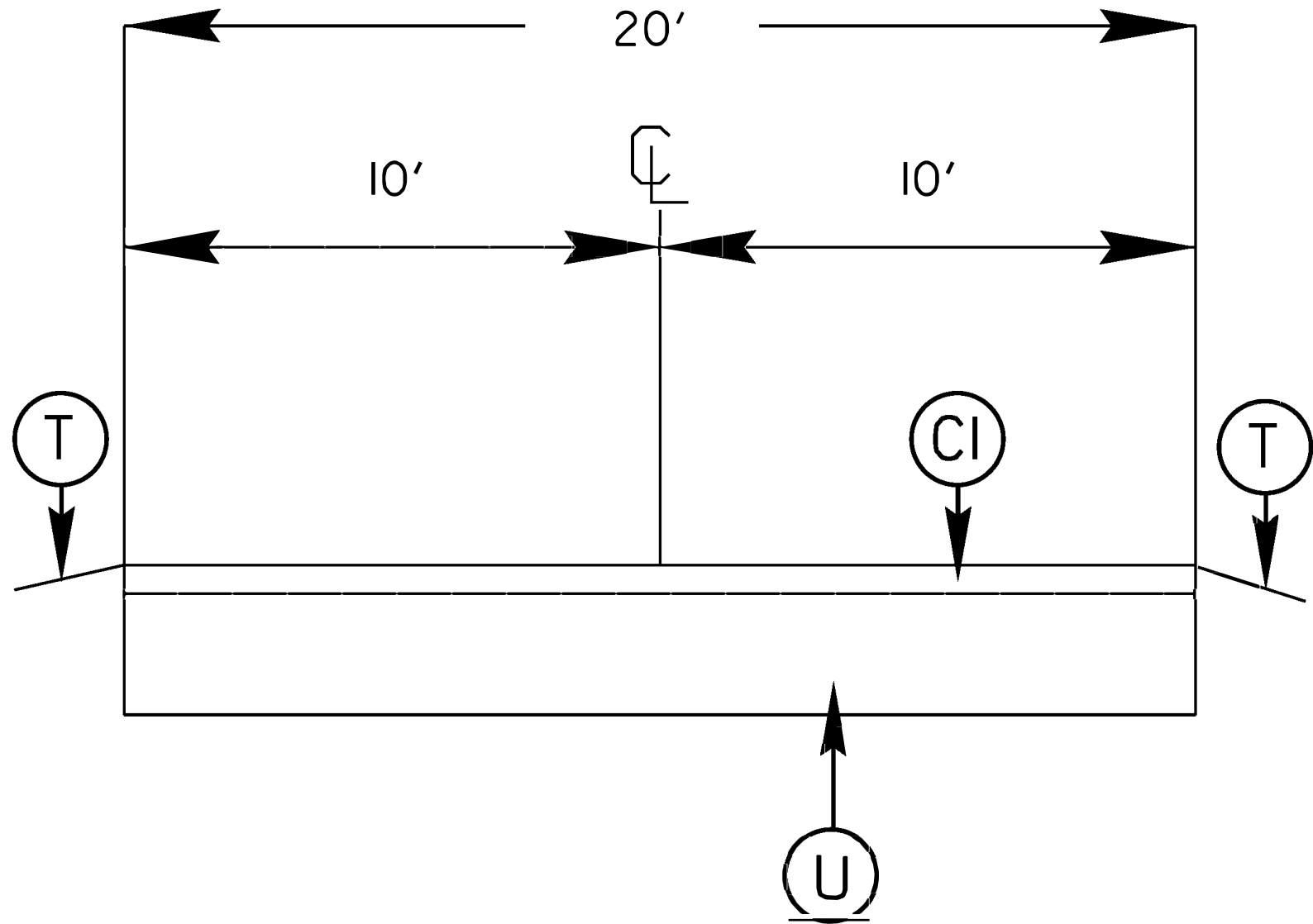
BEG



END

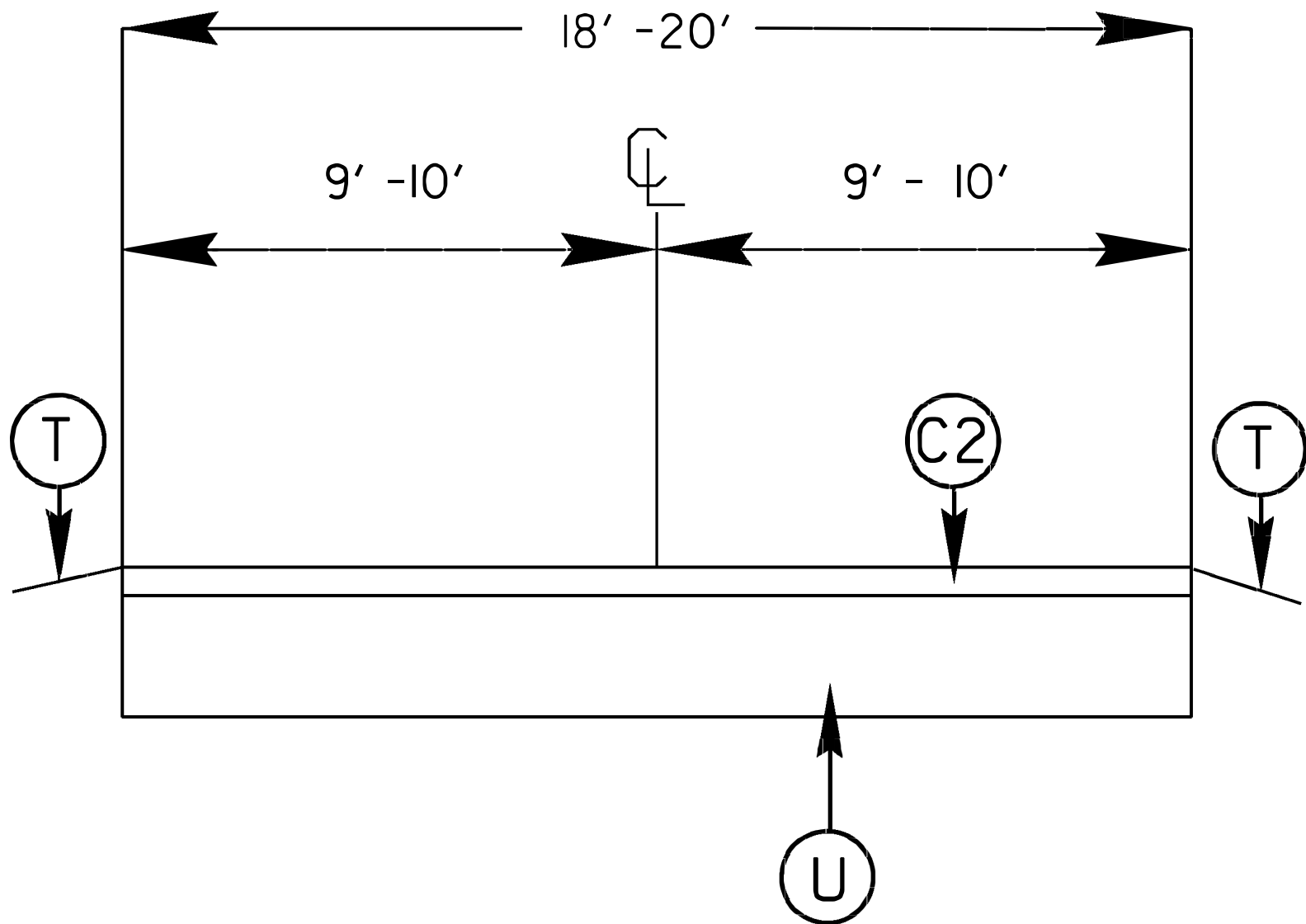
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2023CPT.14.08.20451	8	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

TYPICAL 1

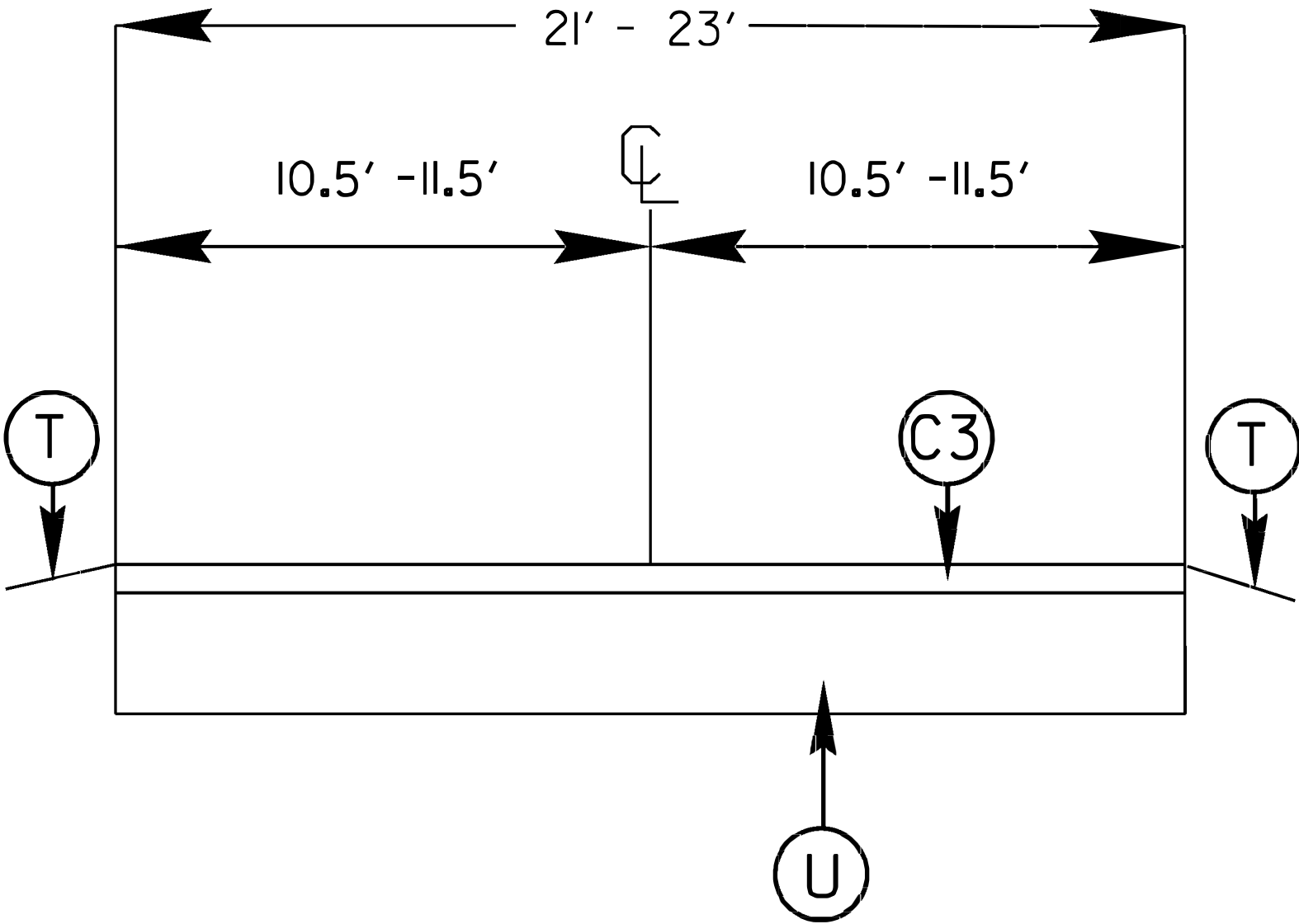


SURFACING SCHEDULE	
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, (LEVELING) TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, (LEVELING) TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF TWO
C3	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 140 LBS. PER SQ. YD.
C4	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLED ASPHALT PAVEMENT 1 1/2" IN DEPTH IN DISTRESSED AREAS AS DIRECTED BY PROJECT ENGINEER

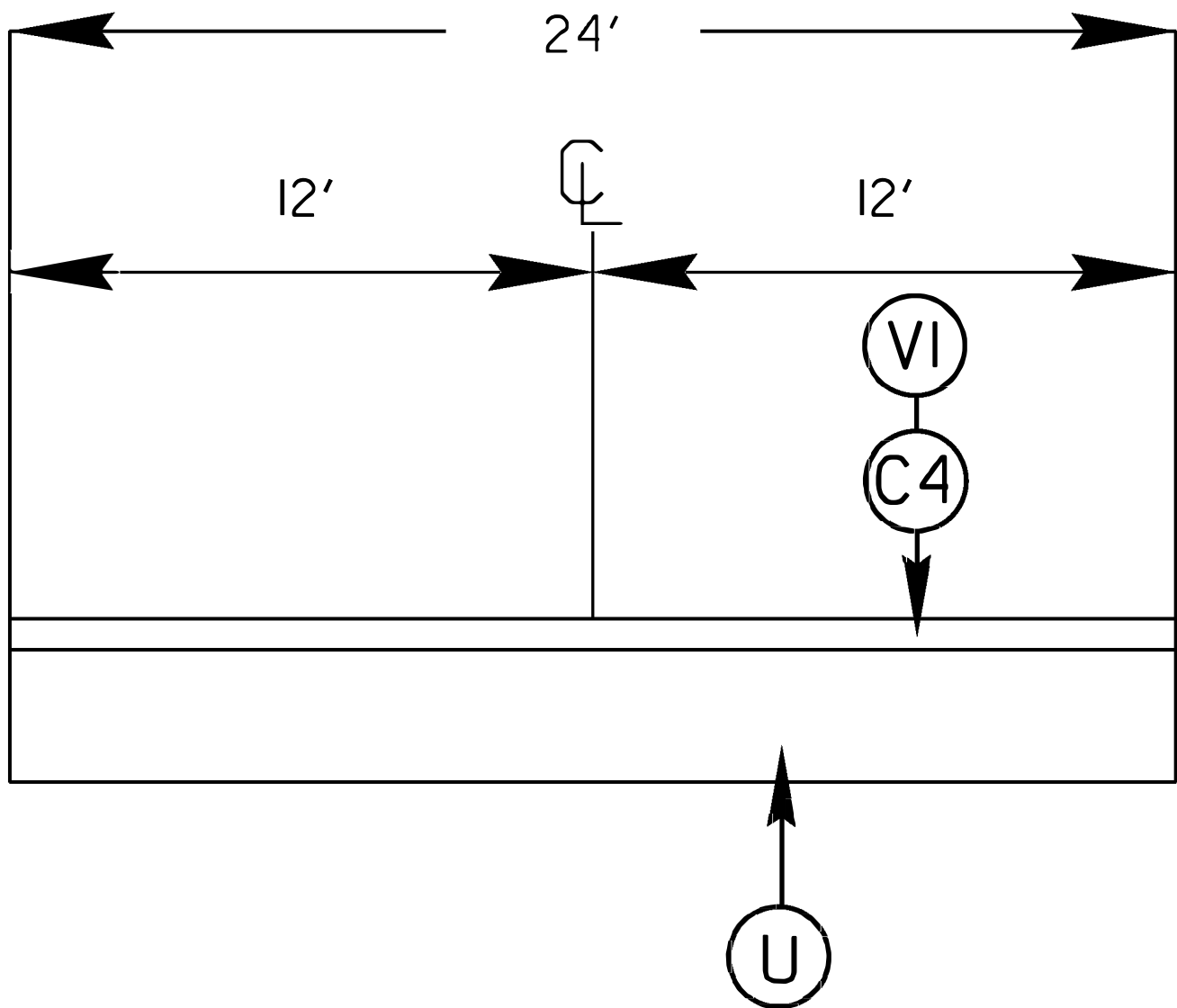
TYPICAL 2



TYPICAL 3



TYPICAL 4

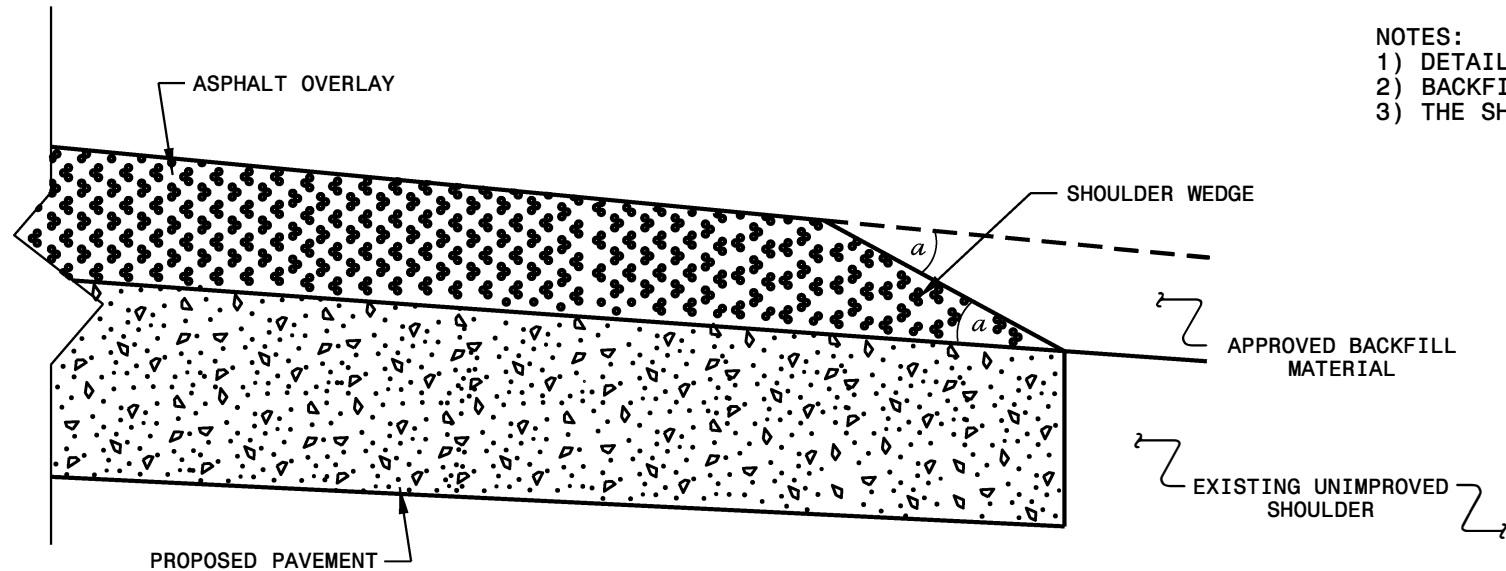


PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.14.08.20451	9	

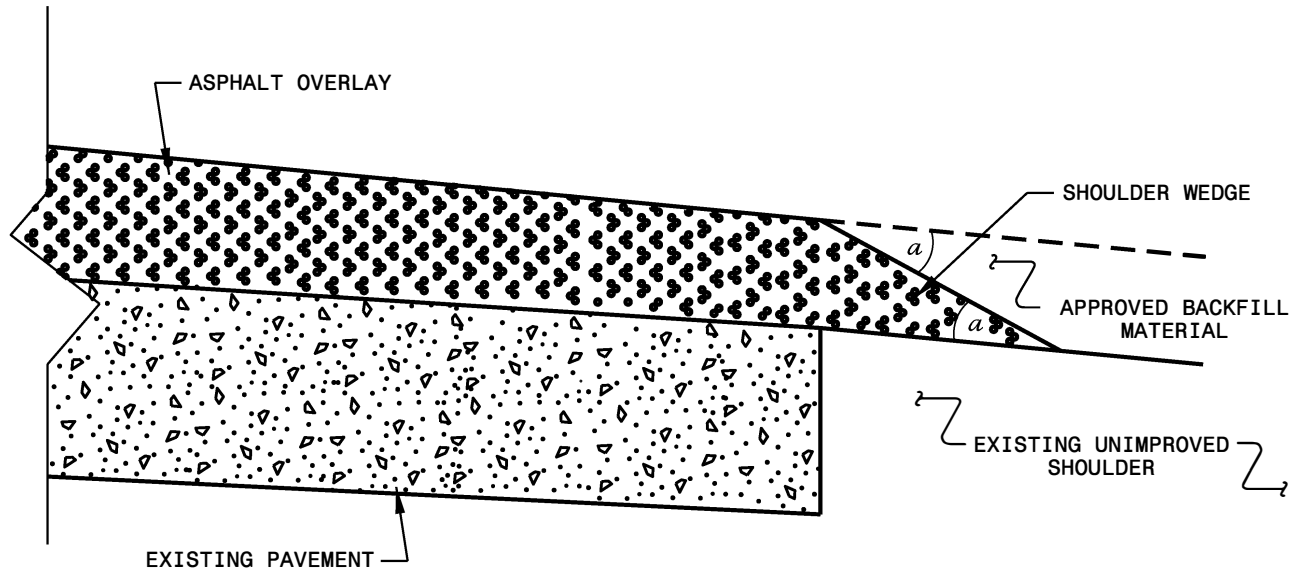
Bridge Table								
Map #	Route No.	Road Name	Structure No.	Posted SV (Tons)	Posted TTST (Tons)	Bridge Milling	Bridge Approach Milling	Pave Across Bridge
*8	SR 1586	S. MILLS GAP	36	21	28	No	No	Yes

* Repairs and Shoring Will Be Completed By State Forces. Notify Project Engineer 14 days prior to beginning Work

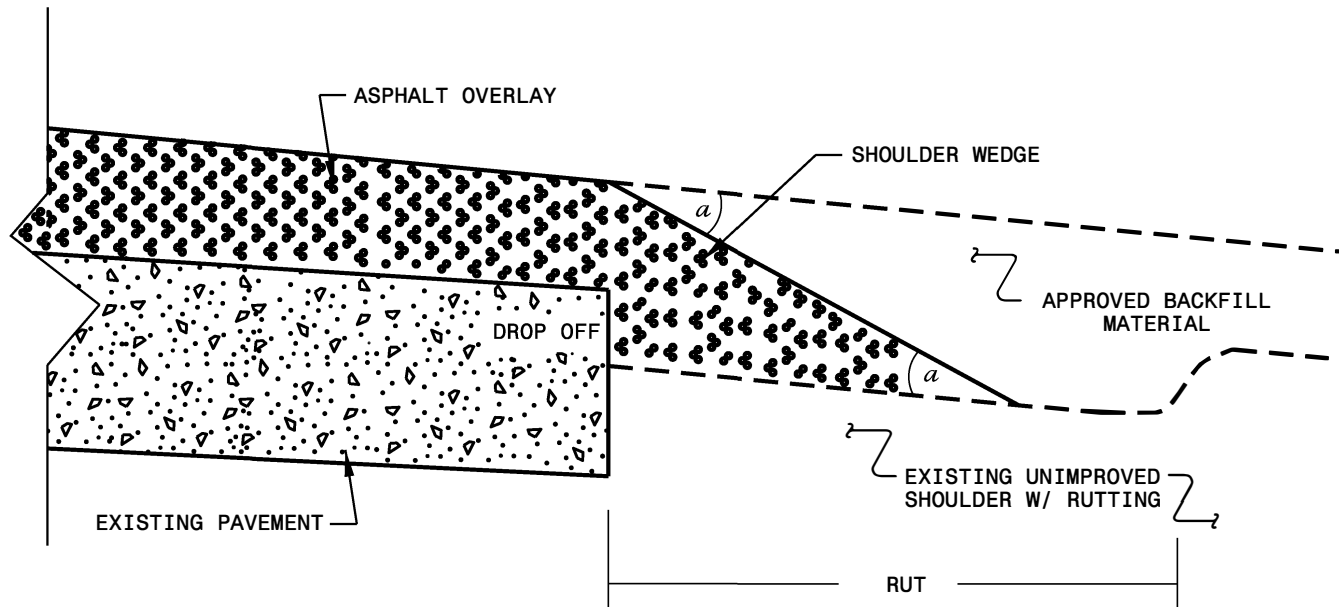
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)

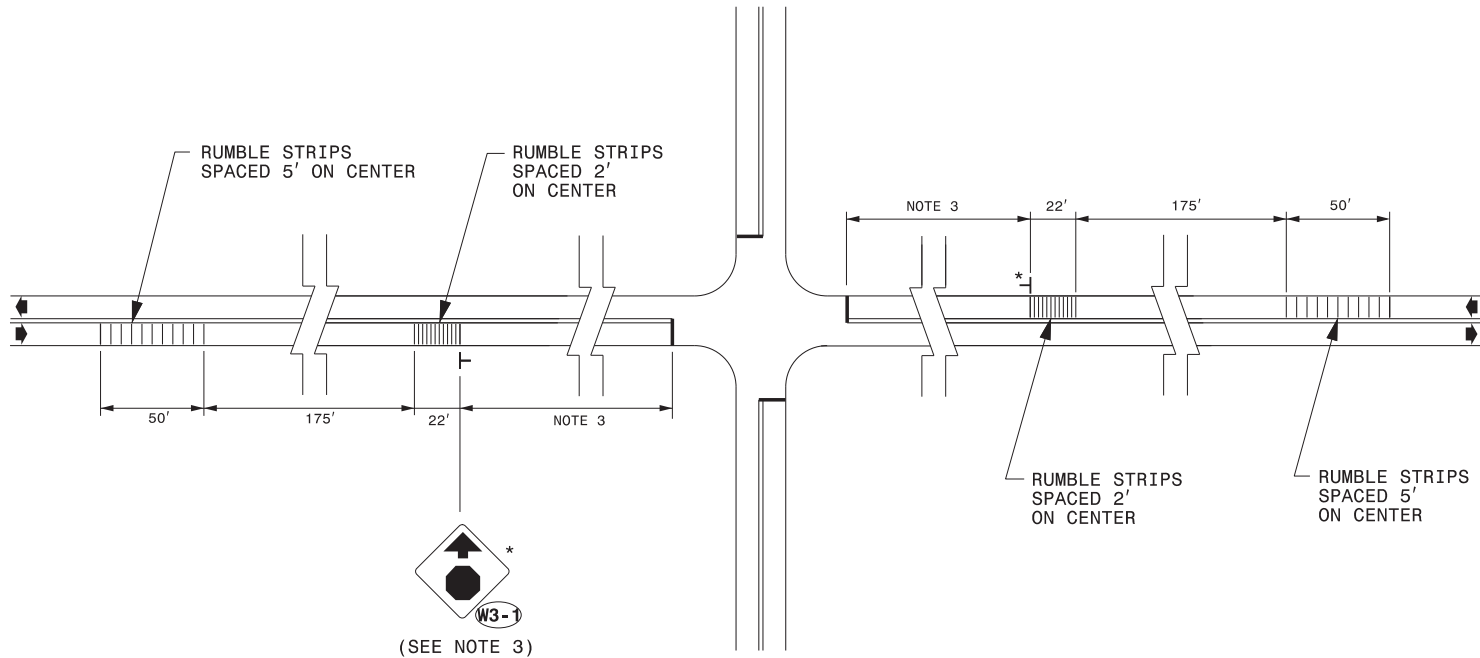


SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- 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\det\std\stand\shoulderwed\detail.dwg			

ENGLISH DETAIL DRAWING FOR
**TWO-LANE, TWO-WAY THERMOPLASTIC
RUMBLE STRIPS WITH EXISTING SIGNING**



GENERAL NOTES:

- 1- ALL RUMBLE STRIPS SHALL BE CENTERED IN THE LANE AND SHALL BE 2 FEET LESS THAN THE WIDTH OF THE TRAVEL LANE
- 2- RUMBLE STRIPS SHALL BE PLACED USING 4" x 240 MIL WHITE THERMOPLASTIC PAVEMENT MARKING MATERIAL.
- 3- PLACEMENT OF FIRST SET OF RUMBLE STRIPS CLOSEST TO THE STOP BAR SHALL BE LOCATED IN CONJUNCTION WITH EXISTING STOP-AHEAD (W3-1) SIGN. FOR SECOND SET, FOLLOW DISTANCE AS SHOWN ABOVE.

ENGLISH DETAIL DRAWING FOR
**TWO-LANE, TWO-WAY THERMOPLASTIC
RUMBLE STRIPS WITH EXISTING SIGNING**

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.14.08.20451	10	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0264000000-E	1297000000-E	1330000000-E	1520000000-E	1523000000-E	1575000000-E	1704000000-E	2815000000-N	2830000000-N	2845000000-N	7456000000-E
												SHOULDER RECONSTRUCTION	1½" MILLING	INCIDENTAL MILLING	LEVELING COURSE, \$9.5B	SURFACE COURSE, \$9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJ. OF DROP INLET	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	LEAD-IN CABLE (14-2)
2023CPT.14.08.20451	Henderson	1	SR-2228 / CARDINAL RD	CARDINAL RD	1	2	2WU	NO	NO	0.4	20	SMI	SY	SY	TONS	TONS	TONS	TONS	EA	EA	EA	LF
TOTAL FOR MAP NO. 1										0.4		0.80			428		55	552				
2023CPT.14.08.20451	Henderson	2	SR-2234 / BLACKBERRY LN	FROM SR 2233 TO EOM	2	2	2WU	NO	NO	0.21	18	0.42			166		20	189				
TOTAL FOR MAP NO. 2										0.21		0.42			166		20	189				
2023CPT.14.08.20451	Henderson	3	SR-1584 / OLD HOLBERT RD	FROM SR 1006 TO EOM	2	2	2WU	NO	NO	0.79	20	1.58			669		75	623				
TOTAL FOR MAP NO. 3										0.79		1.58			669		75	623				
2023CPT.14.08.20451	Henderson	4	SR-1783 / RIDGE RD	FROM SR 1736 TO SR 1902	3	2	2WU	NO	NO	2.92	23	2.92		240		3,215	203	220				
TOTAL FOR MAP NO. 4										2.92		2.92		240		3,215	203	220				
2023CPT.14.08.20451	Henderson	5	SR-1602 /SUGAR LOAF	SR 1709 TO SR 1717	3	2	2WU	NO	NO	2.51	21	0.25		625		1,778	112	113				
TOTAL FOR MAP NO. 5										2.51		0.25		625		1,778	112	113				
2023CPT.14.08.20451	Henderson	6	SR-1602 / GILLIAM MTN RD	FROM SR 1717 TO SR 1710	3	2	2WU	NO	NO	1.53	22	0.25		125		1,637	110	239				
TOTAL FOR MAP NO. 6										1.53		0.25		125		1,637	110	239				
2023CPT.14.08.20451	Henderson	7	SR-1171 / WILLOW RD	FROM SR 1137 TO SR 1127	4	2	2WU	NO	NO	1.86	24		26,190			2,488	154	101	10	23	23	250
TOTAL FOR MAP NO. 7										1.86			26,190			2,488	154	101	10	23	23	250
2023CPT.14.08.20451	Henderson	8	SR-1586 / S MILLS GAP RD	FROM SR 1574 TO US 64	2	2	2WU	NO	NO	2.43	20	4.86			2,116		145	72				
TOTAL FOR MAP NO. 8										2.43		4.86			2,116		145	72				
2023CPT.14.08.20451	Henderson	9	SR-2272 / SHELTER RD	FROM SR 2278 TO EOM	2	2	2WU	NO	NO	0.08	18				71		5					
TOTAL FOR MAP NO. 9										0.08					71		5					
TOTAL FOR PROJ NO. 2023CPT.14.08.20451										12.73		11.08	26,190	990	3,450	9,118	879	2,109	10	23	23	250
GRAND TOTAL										12.73		11.08	26,190	990	3,450	9,118	879	2,109	10	23	23	250

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.14.08.20451	12	

THERMOPLASTIC AND PAINT QUANTITIES

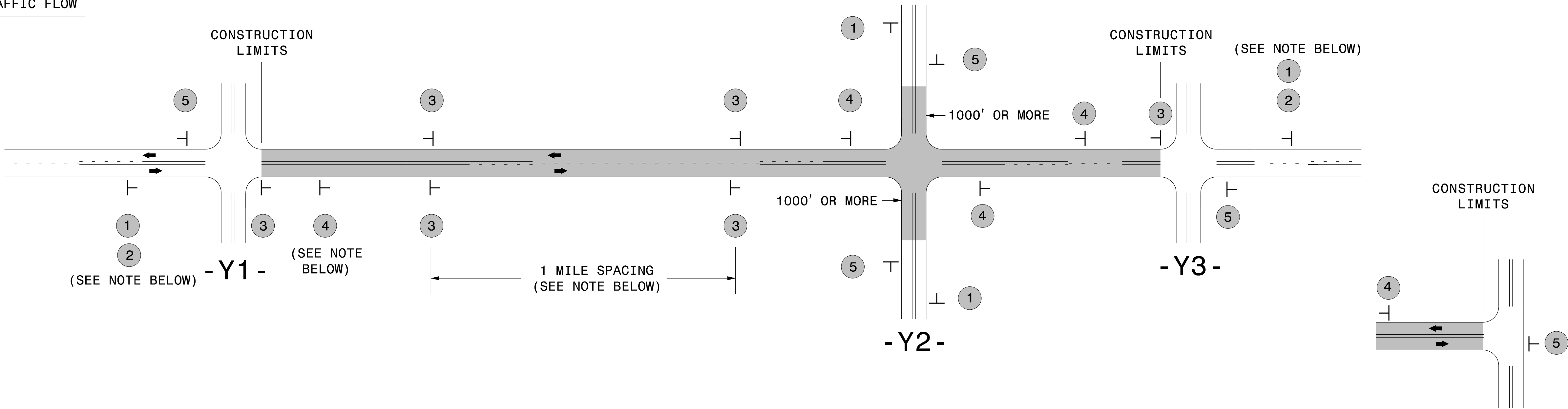
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL	4685000000-E		4687000000-E THERMOPLASTIC PAVEMENT MARKING LINES (4", 240 MILS)	4709000000-E THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	4720000000-E THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	4810000000-E		4850000000-E 4" LINE REMOVAL	4905100000-N NON-CAST IRON SNOWPLOWA BLE PAVEMENT MARKER
								MI	FT	SF	LS	LF	LF	LF	LF	EA	LF	LF	LF	EA
2023CPT.14.08.20451	Henderson	1	SR-2228 / CARDINAL RD	CARDINAL RD	1	2	2WU	0.4	20	45	1						16,880	16,880		
TOTAL FOR MAP NO. 1								0.4		45	1						16,880	16,880		
2023CPT.14.08.20451	Henderson	2	SR-2234 / BLACKBERRY LN	FROM SR 2233 TO EOM	2	2	2WU	0.21	18	24							4,436	4,436		
TOTAL FOR MAP NO. 2								0.21		24							4,436	4,436		
2023CPT.14.08.20451	Henderson	3	SR-1584 / OLD HOLBERT RD	FROM SR 1006 TO EOM	2	2	2WU	0.79	20	88							16,688	16,688		
TOTAL FOR MAP NO. 3								0.79		88							16,688	16,688		
2023CPT.14.08.20451	Henderson	4	SR-1783 / RIDGE RD	FROM SR 1736 TO SR 1902	3	2	2WU	2.92	23			31,436	30,836	460.00	80	12			460	
TOTAL FOR MAP NO. 4								2.92				31,436	30,836	460	80	12			460	
2023CPT.14.08.20451	Henderson	5	SR-1602 /SUGAR LOAF	SR 1709 TO SR 1717	3	2	2WU	2.51	21	282							55,040	55,040		
TOTAL FOR MAP NO. 5								2.51		282							55,040	55,040		
2023CPT.14.08.20451	Henderson	6	SR-1602 / GILLIAM MTN RD	FROM SR 1717 TO SR 1710	3	2	2WU	1.53	22	172		16,160	16,160							
TOTAL FOR MAP NO. 6								1.53		172		16,160	16,160							
2023CPT.14.08.20451	Henderson	7	SR-1171 / WILLOW RD	FROM SR 1137 TO SR 1127	4	2	2WU	1.86	24	208		19,642	19,642							123
TOTAL FOR MAP NO. 7								1.86		208		19,642	19,642							123
2023CPT.14.08.20451	Henderson	8	SR-1586 / S MILLS GAP RD	FROM SR 1574 TO US 64	2	2	2WU	2.43	20	274		19,642	19,642		55					
TOTAL FOR MAP NO. 8								2.43		274		19,642	19,642		55					
2023CPT.14.08.20451	Henderson	9	SR-2272 / SHELTER RD	FROM SR 2278 TO EOM	2	2	2WU	0.08	18											
TOTAL FOR MAP NO. 9								0.08												
TOTAL FOR PROJ NO. 2023CPT.14.08.20451										1,093	1	86,880	86,280	460	135	12	93,044	93,044	460	123
												173,160					186,088			
GRAND TOTAL								12.73		1,093	1	86,880	86,280	460	135	12	93,044	93,044	460	123
												173,160					186,088			

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

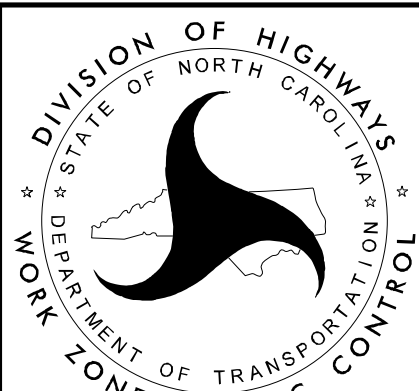
DIRECTION OF TRAFFIC FLOW

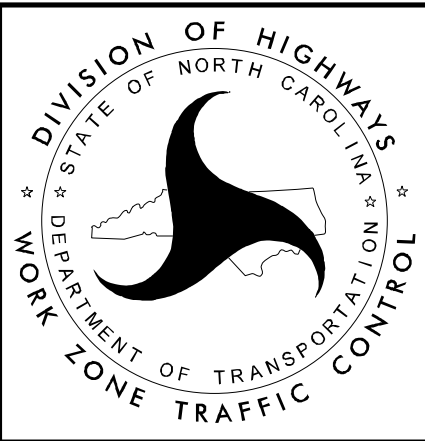


TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 ROAD WORK AHEAD W20-1 48" X 48" NEXT XX MILES 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. ROAD WORK AHEAD W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. ROAD WORK AHEAD W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.
	3 LOW/SOFT SHOULDER 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 ROAD UNDER CONST 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 END ROAD WORK 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.	DIVISION OF HIGHWAYS * * * * * OFFICE OF NORTH CAROLINA * * * * * DEPARTMENT OF TRANSPORTATION * * * * * WORK ZONE * * * * * TRAFFIC CONTROL  AD



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