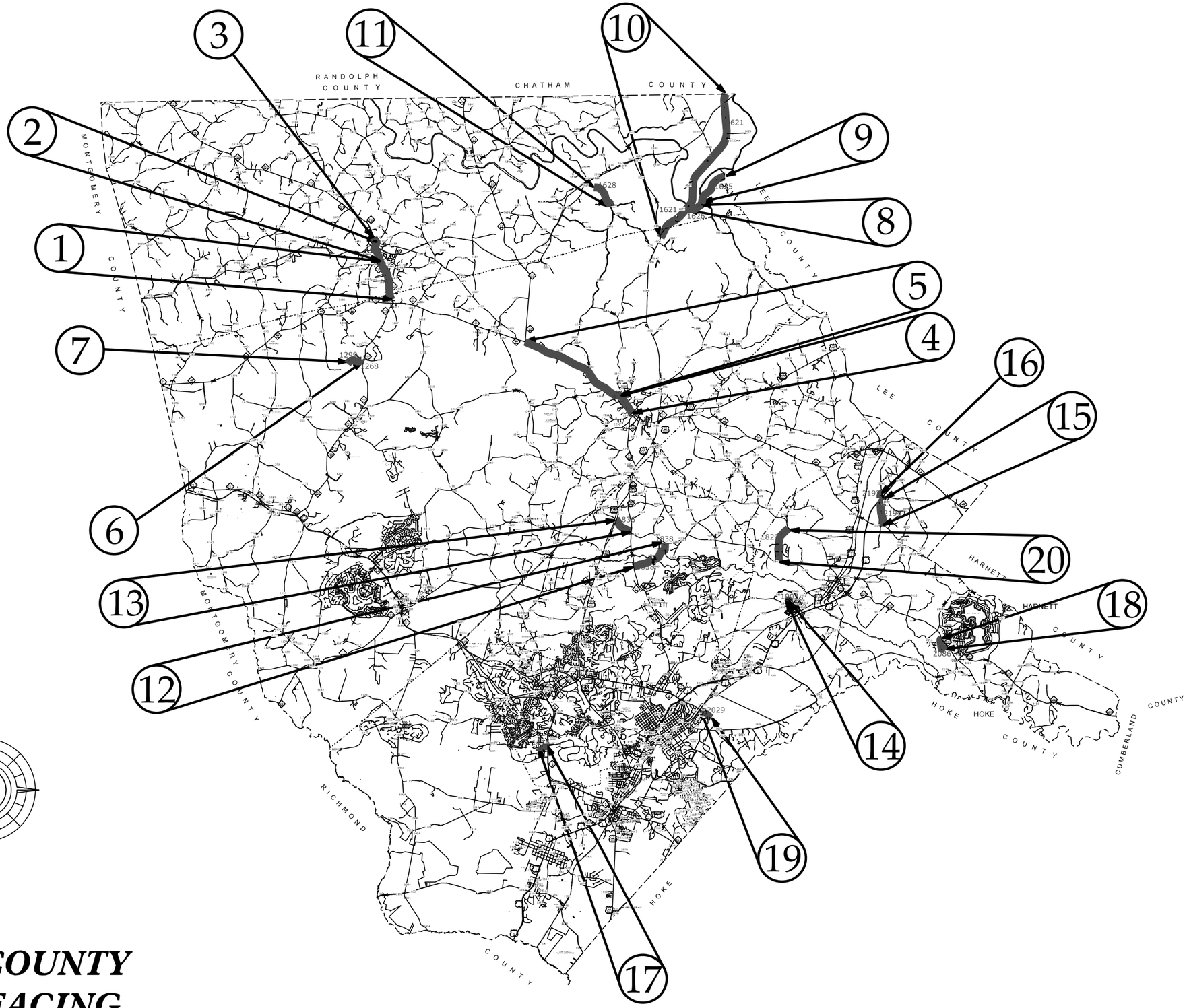
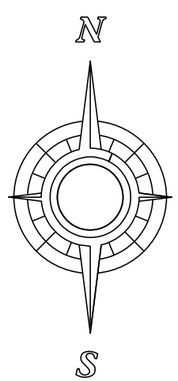
WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	1

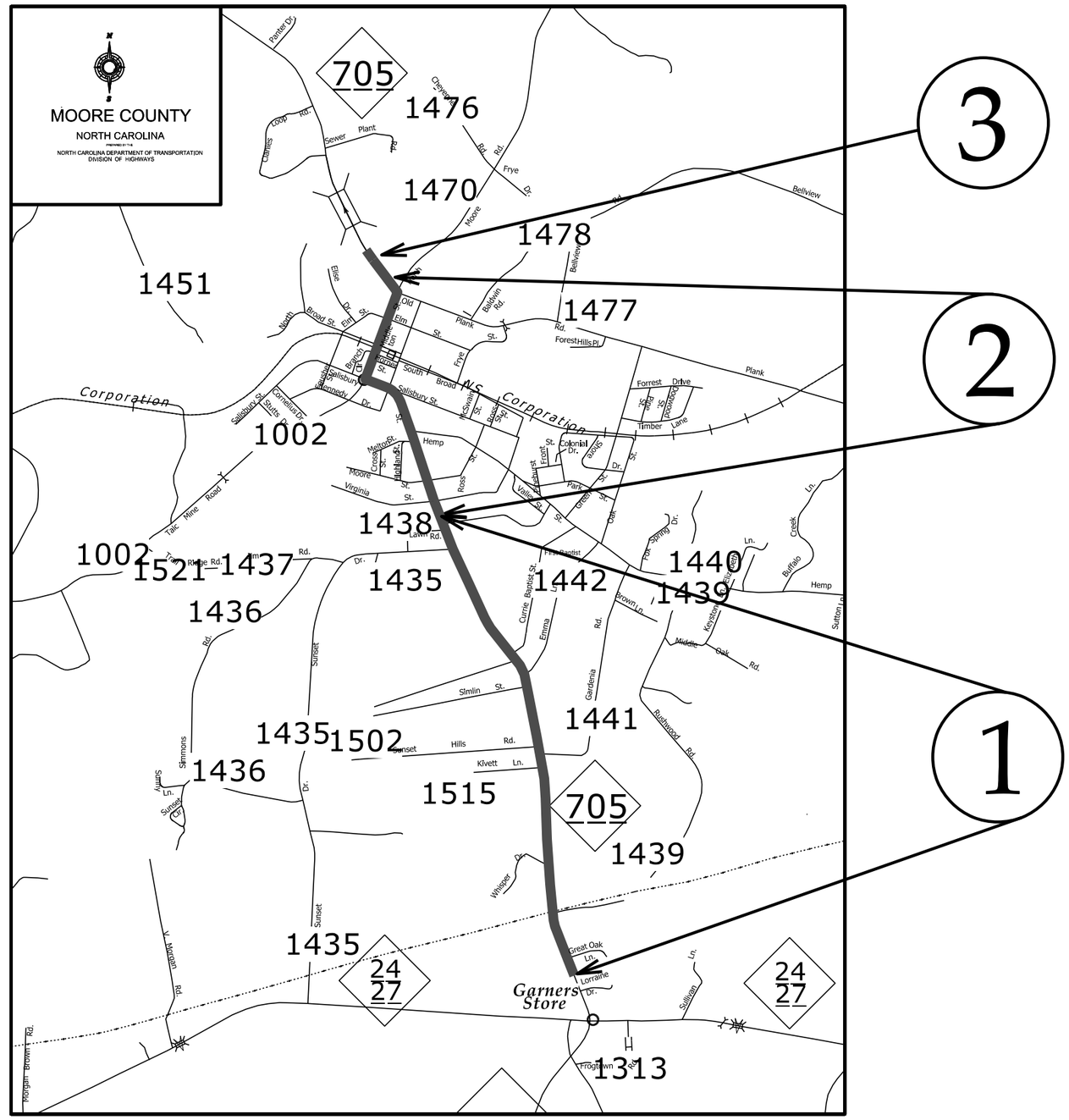




MOORE COUNTY RESURFACING

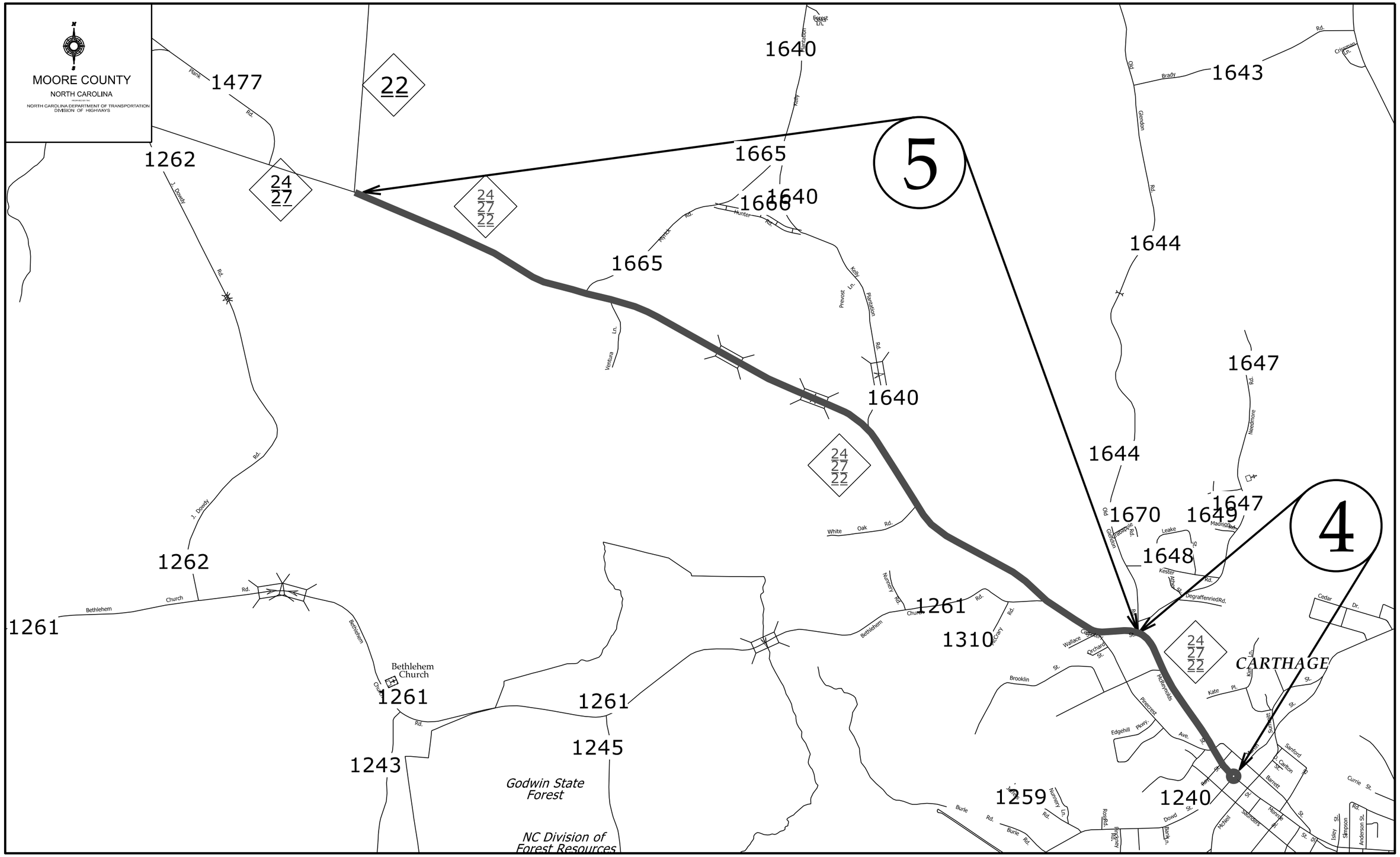
WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	2

Maps 1, 2 & 3



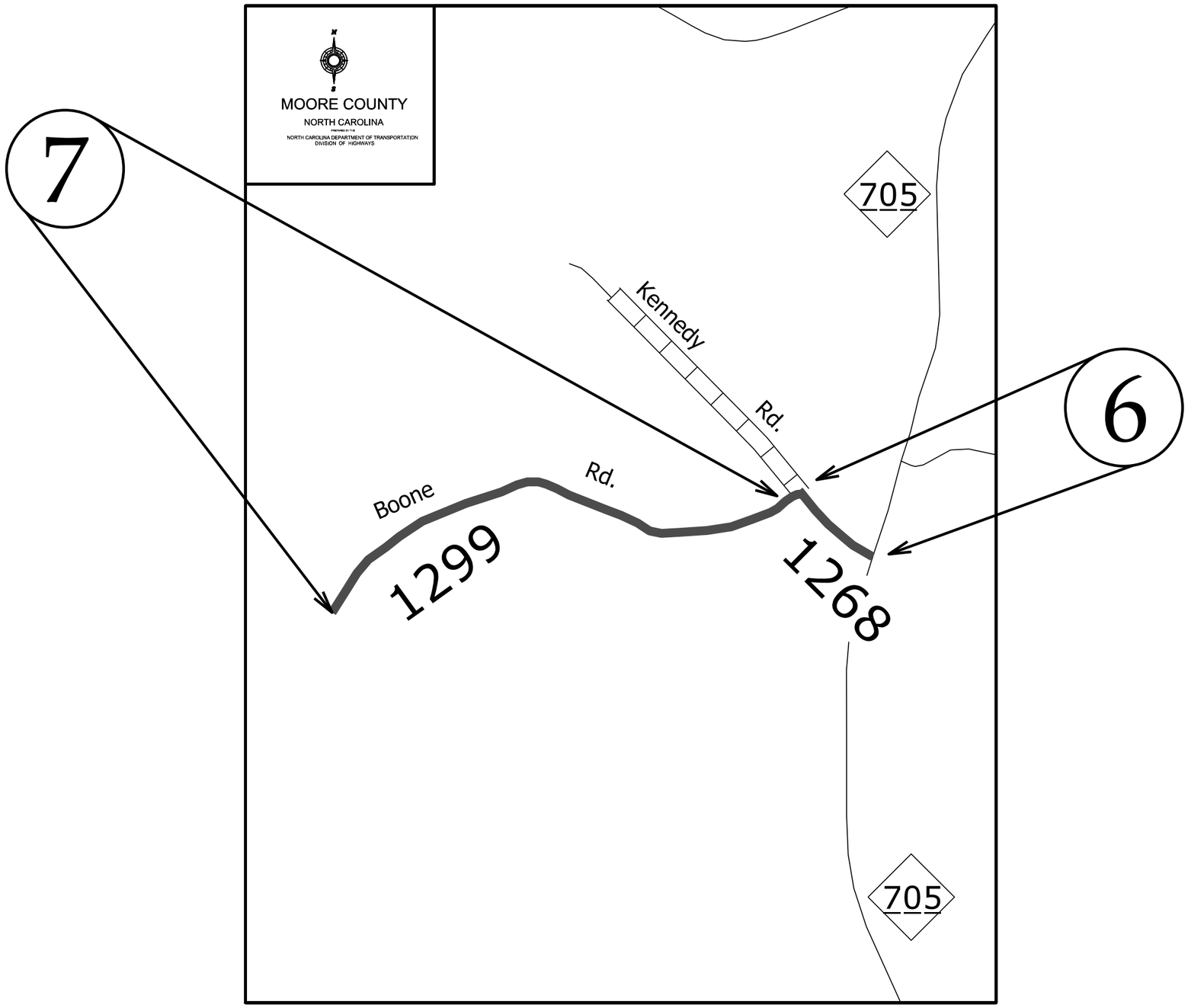
WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	3

Maps 4 & 5



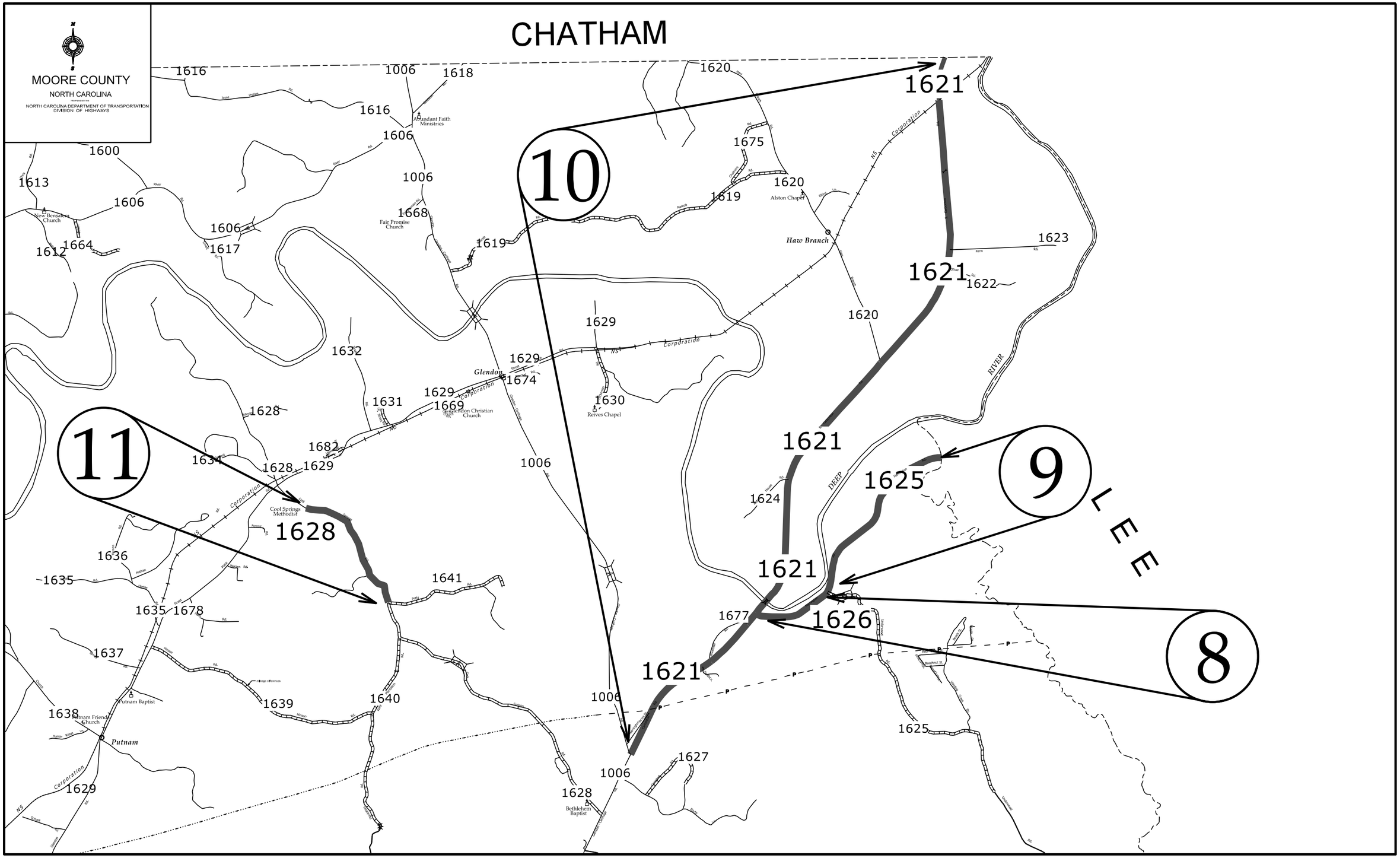
$$$$$$$SYSTIME$$$$$$$
$$$$$$$DGN$$$$$$$
$$$$$$$CLEVNUM$$$$$$$

Maps 6 & 7


MOORE COUNTY
NORTH CAROLINA
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
7
6
705
Kennedy
Rd.
Boone
Rd.
1299
1268
705

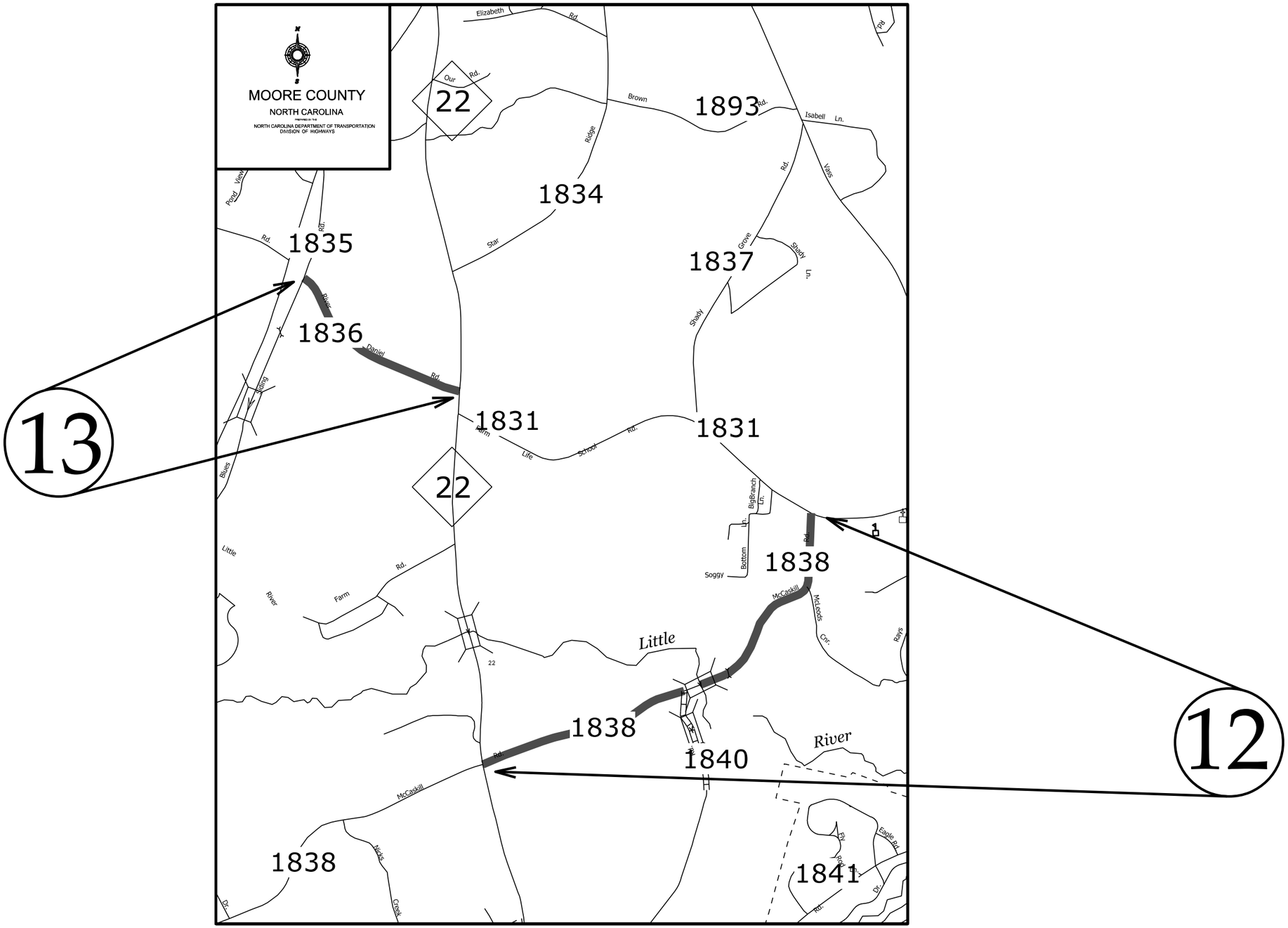
WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	5

Maps 8, 9, 10 & 11



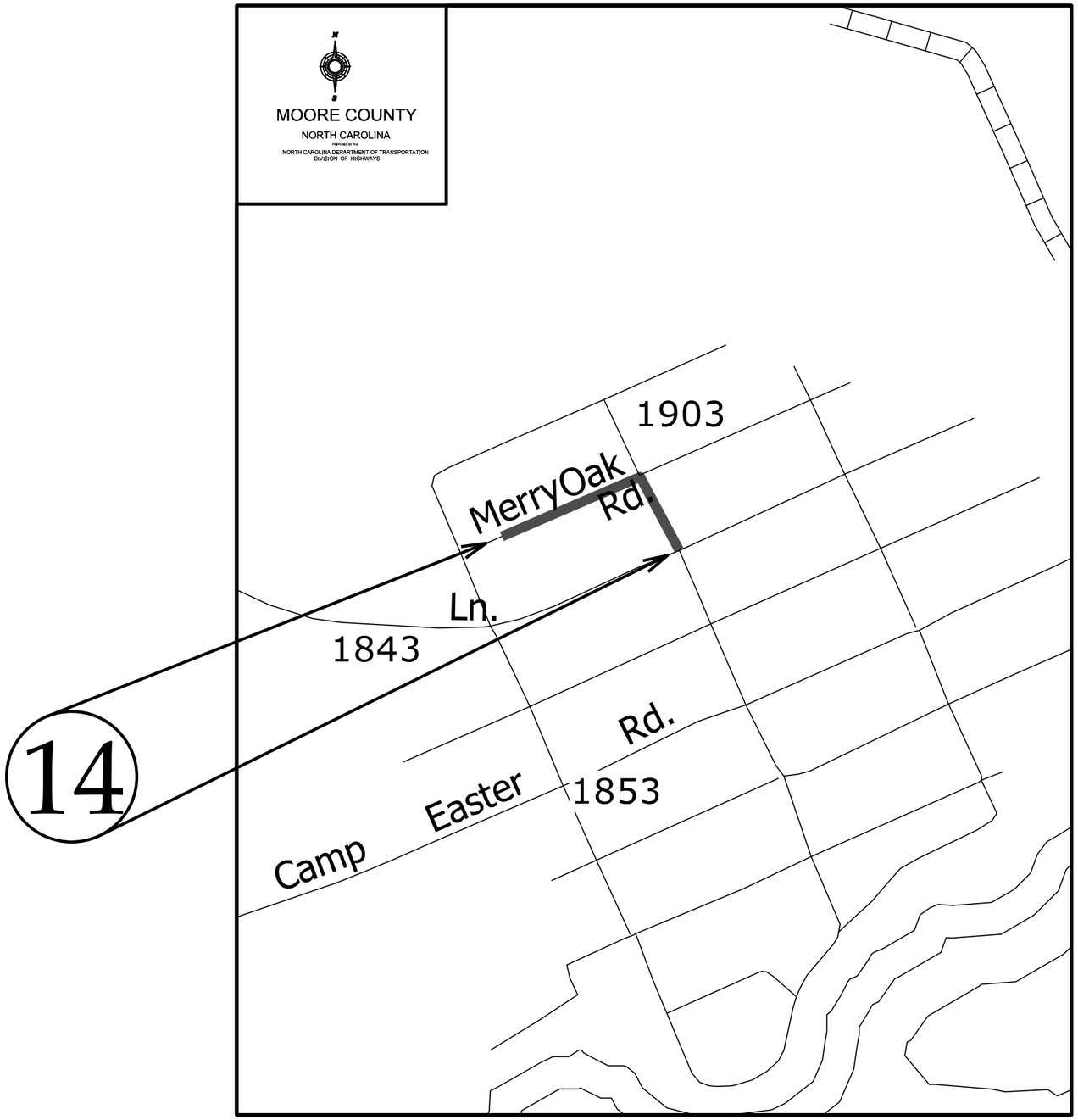
WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	6

Maps 12 & 13



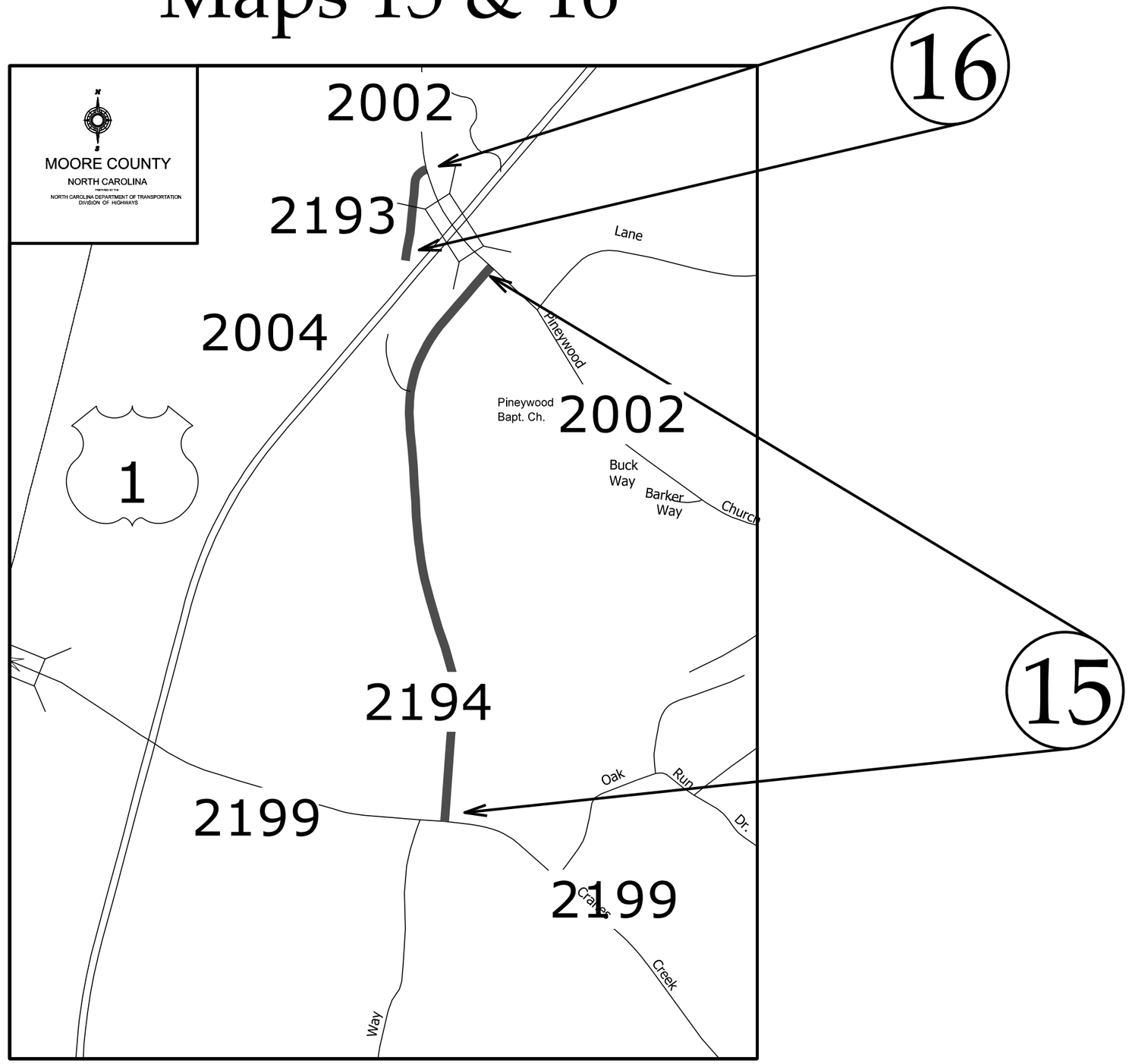
WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	7

Map 14

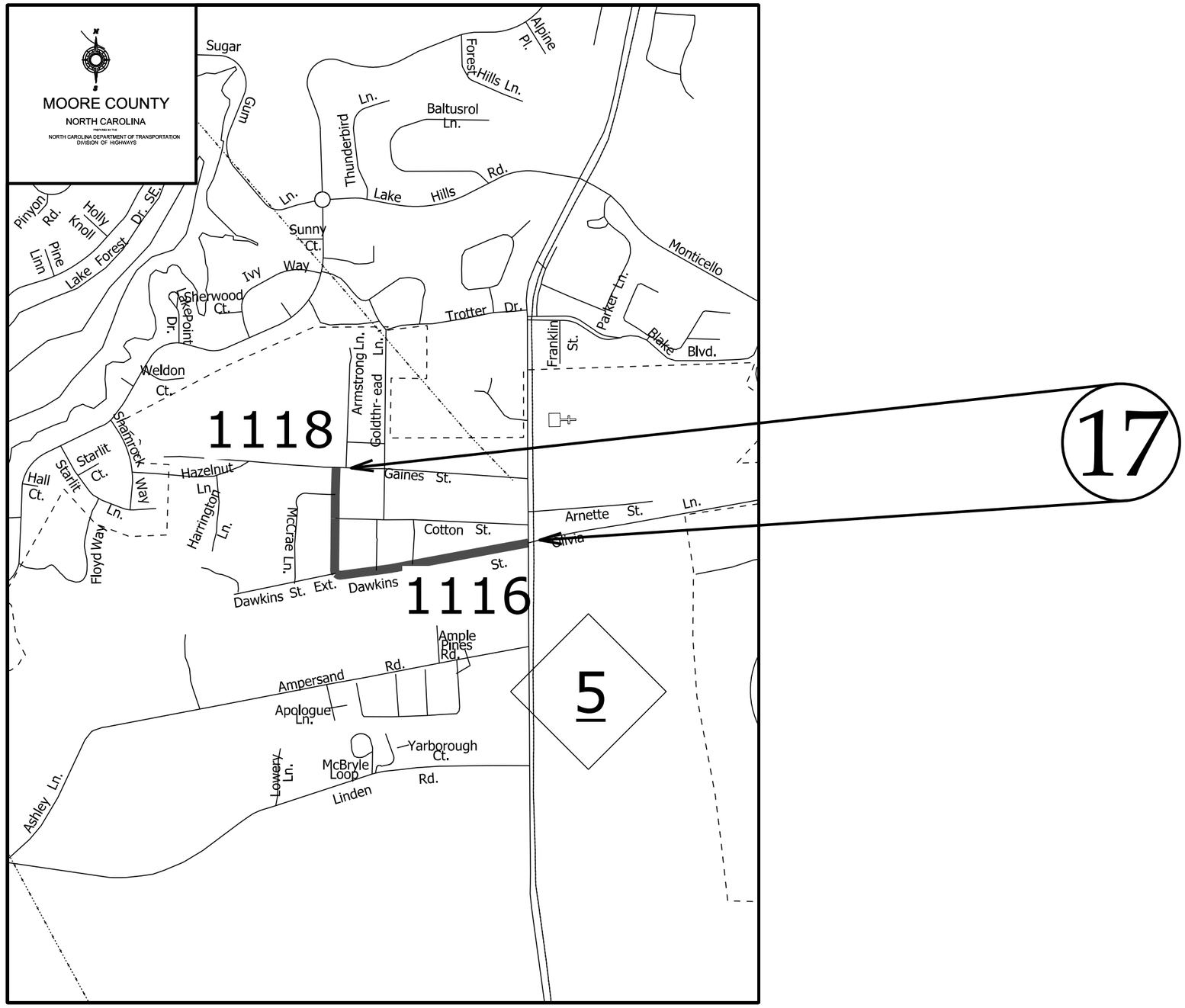


WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	8

Maps 15 & 16

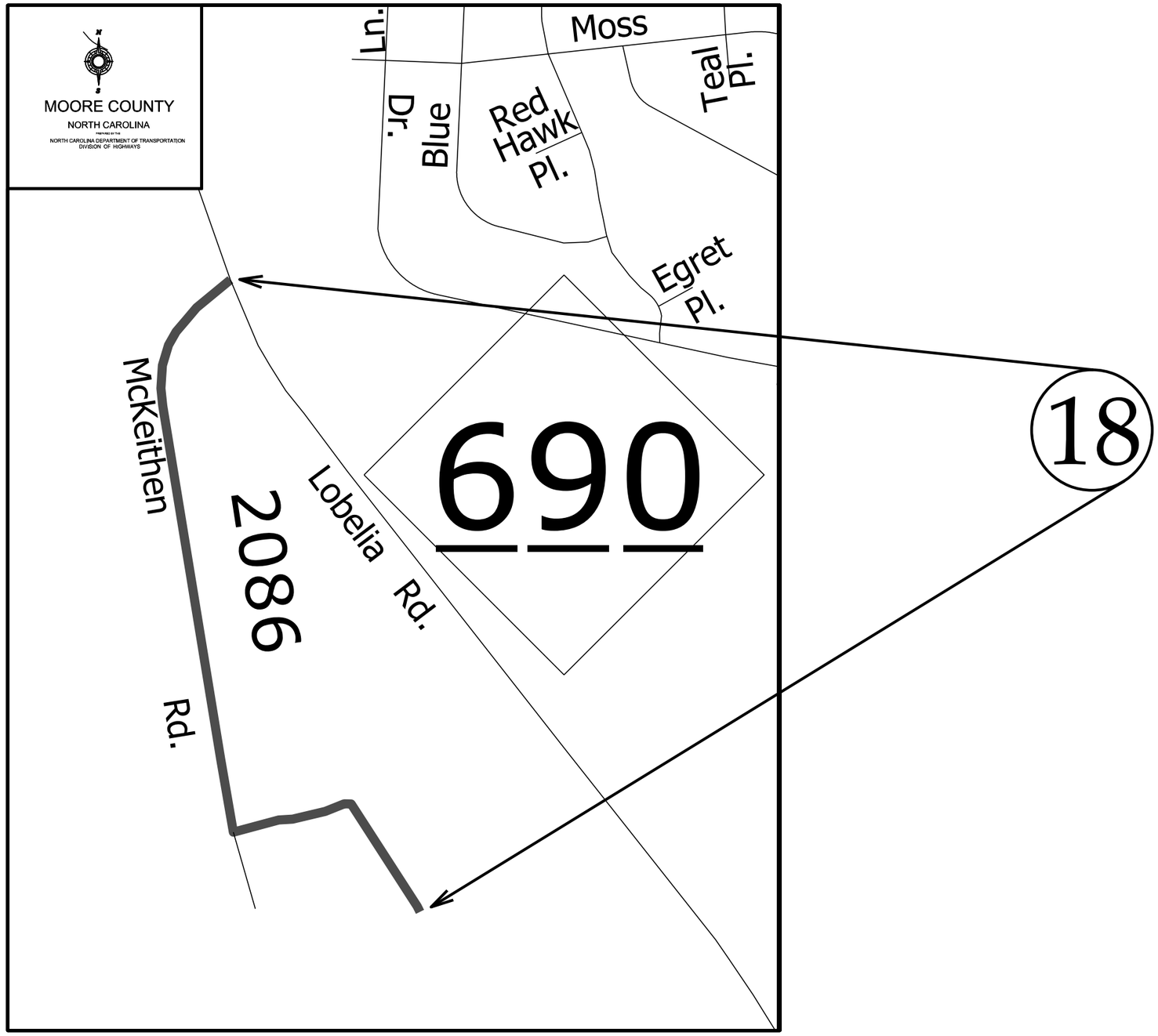


Map 17

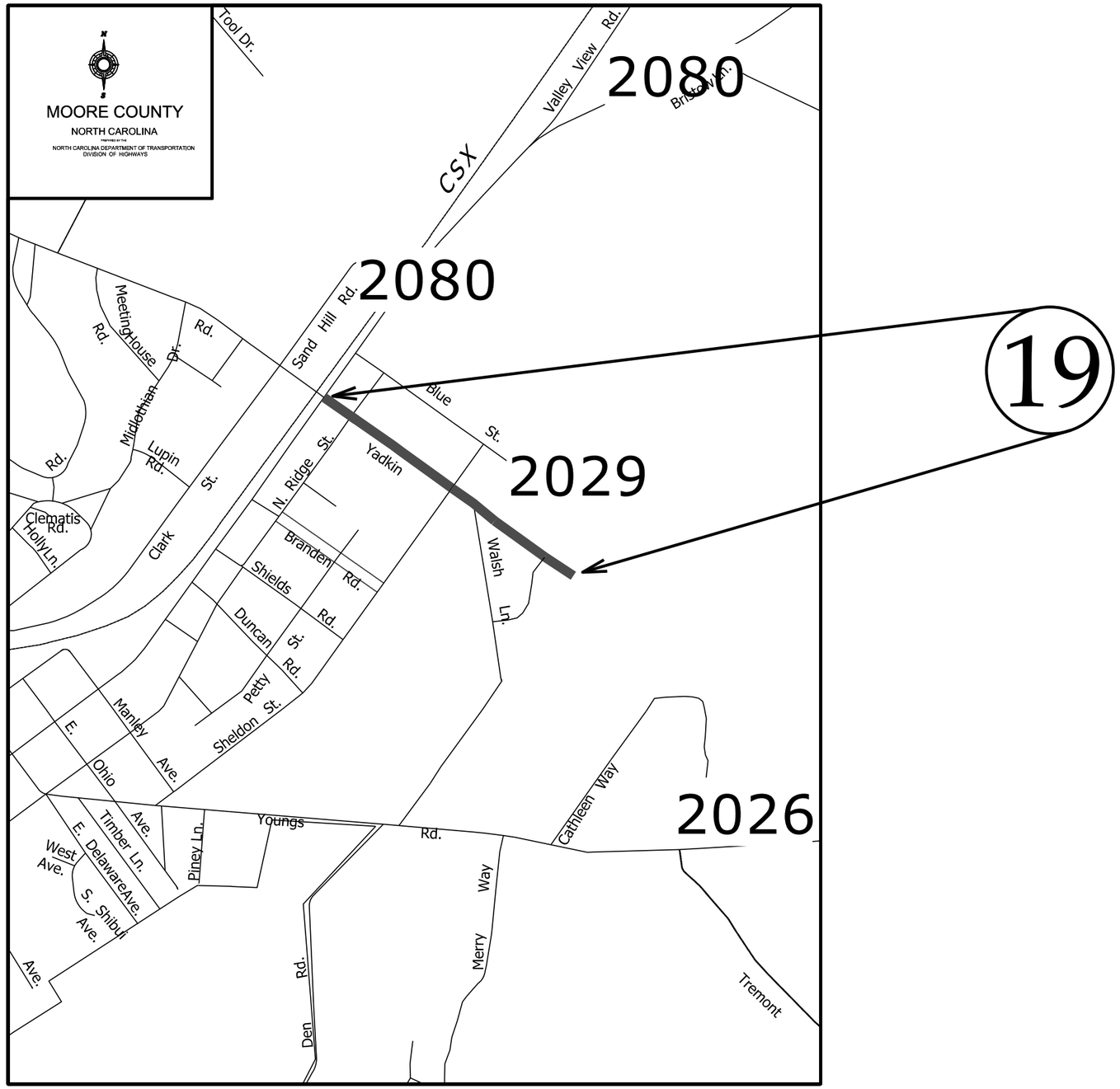

MOORE COUNTY
NORTH CAROLINA
PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
Sugar
Gum
Alpine Pl.
Forest Hills Ln.
Baltusrol Ln.
Thunderbird Ln.
Lake Hills Rd.
Sunny Ct.
Ivy Way
Pinyon Rd.
Holly Knoll
Pine Linn
Lake Forest Dr. SE
Sherwood Ct.
LakePoint Dr.
Trotter Dr.
Monticello
Parker Ln.
Franklin St.
Blake Blvd.
Weldon Ct.
Armstrong Ln.
Goldthr- ead Ln.
1118
17
Shamrock Way
Starlit Ct.
Hall Ct.
Starlit Ln.
Hazelnut Ln.
Gaines St.
Harrington Ln.
McCrae Ln.
Cotton St.
Arnette St.
Ln.
Silvia St.
Floyd Way
Dawkins St. Ext.
Dawkins St.
1116
Ample Pines Rd.
Ampersand Rd.
Apologue Ln.
5
Yarborough Ct.
McBryle Loop
Lowery Ln.
Linden Rd.
Ashley Ln.

WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	10

Map 18

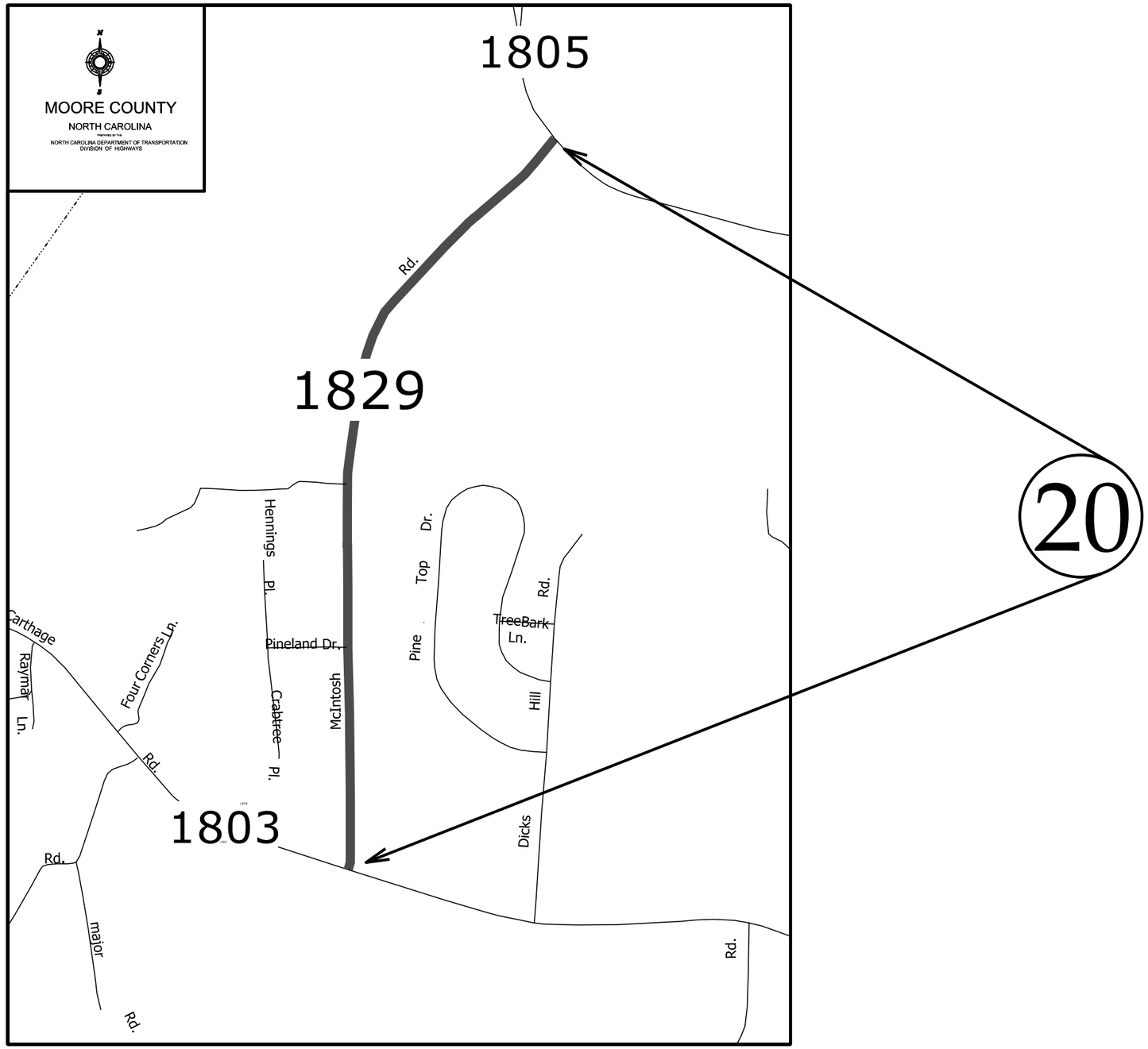


Map 19

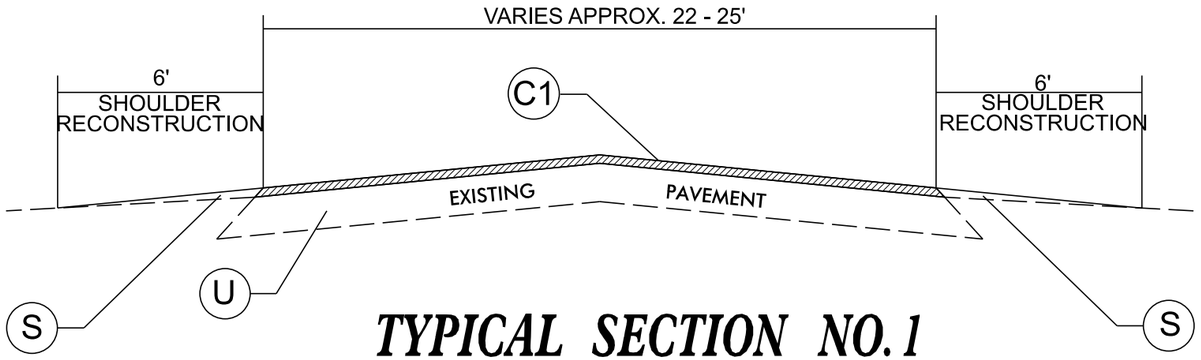

MOORE COUNTY
NORTH CAROLINA
PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
Tool Dr.
Valley View Rd.
2080
Brisson St.
CSX
2080
Sand Hill Rd.
Meetinghouse Dr.
Rd.
Rd.
Midlothian
Blue St.
19
Lupin Rd.
St.
Rd.
N. Ridge St.
Yadkin
2029
Clematis Rd.
Holly Ln.
Clark
Branden Rd.
Shields Rd.
Walsh Ln.
Duncan St.
Petty Rd.
Manley St.
Sheldon St.
E. Ohio Ave.
Ave.
Cathleen Way
2026
Youngs Rd.
Timber Ln.
Piney Ln.
West Ave.
E. Delaware Ave.
S. Shibuh Ave.
Ave.
Den Rd.
Merry Way
Tremont

WBS ELEMENT	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	12

Map 20

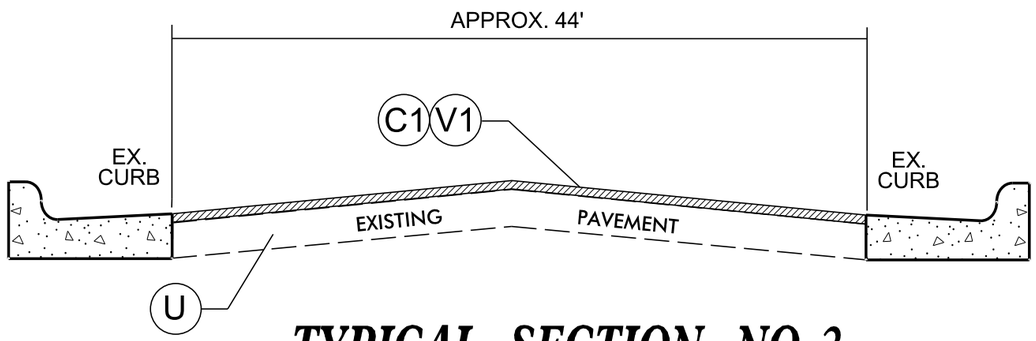


$$$$$$$SYSTIME$$$$
$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$



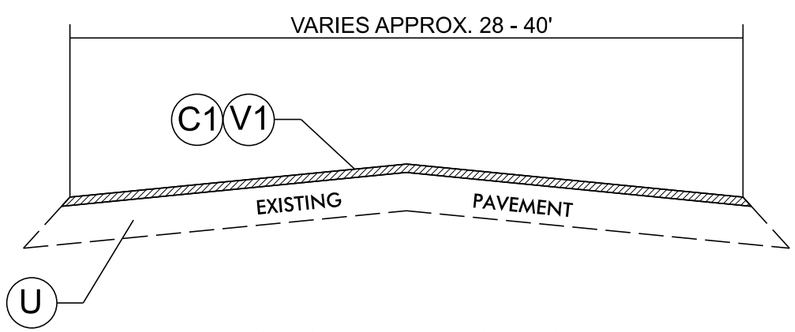
TYPICAL SECTION NO. 1

USE FOR MAPS 1, 3



TYPICAL SECTION NO. 2

USE FOR MAP 2
C&G SECTIONS

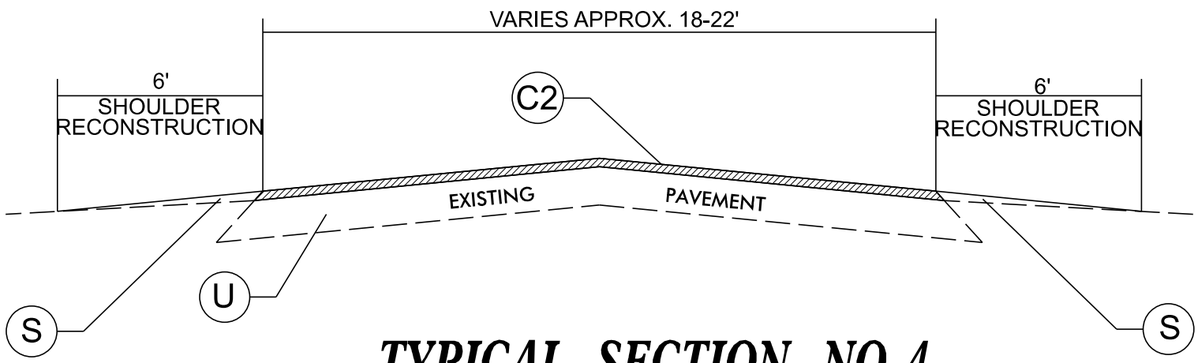


TYPICAL SECTION NO. 3

USE FOR MAP 4–5

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
S	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT.
V1	MILLING 1.5" IN DEPTH



TYPICAL SECTION NO. 4

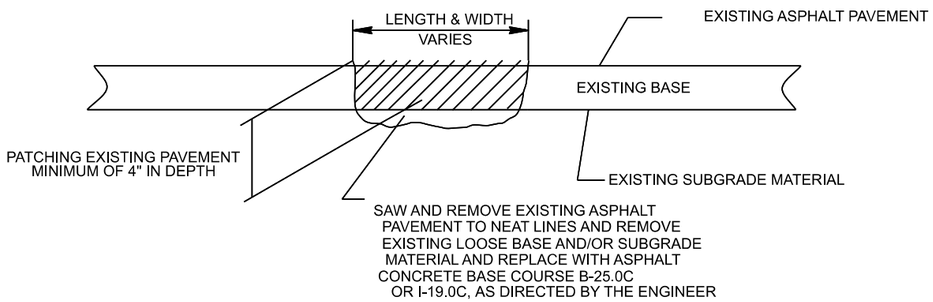
USE FOR MAP 6–20

PAVEMENT SCHEDULE

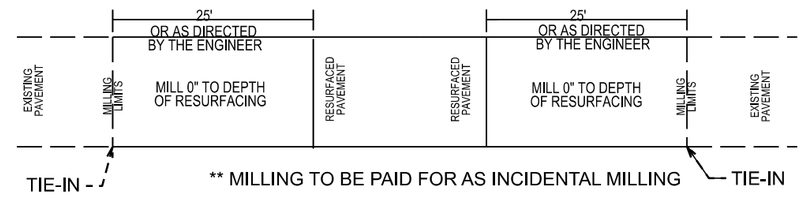
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
S	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT.
V1	MILLING 1.5" IN DEPTH

DETAILS

DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING

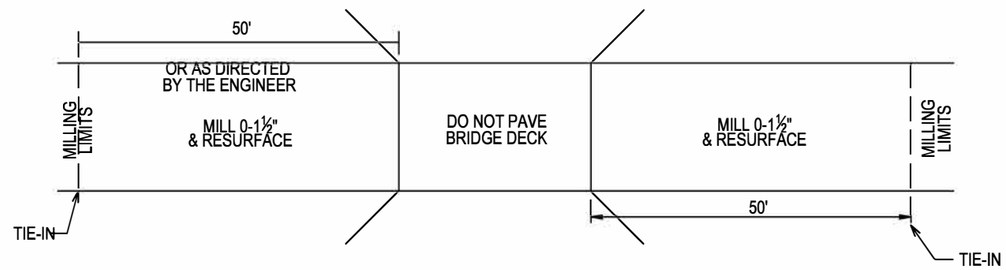


PAVEMENT TIE-IN DETAIL



$$$$$$$$SYSTIME$$$$$
$$$$$$$$

BRIDGE DETAILS



* MILLING FOR APPROACHES SHALL BE
PAID FOR UNDER INCIDENTAL MILLING

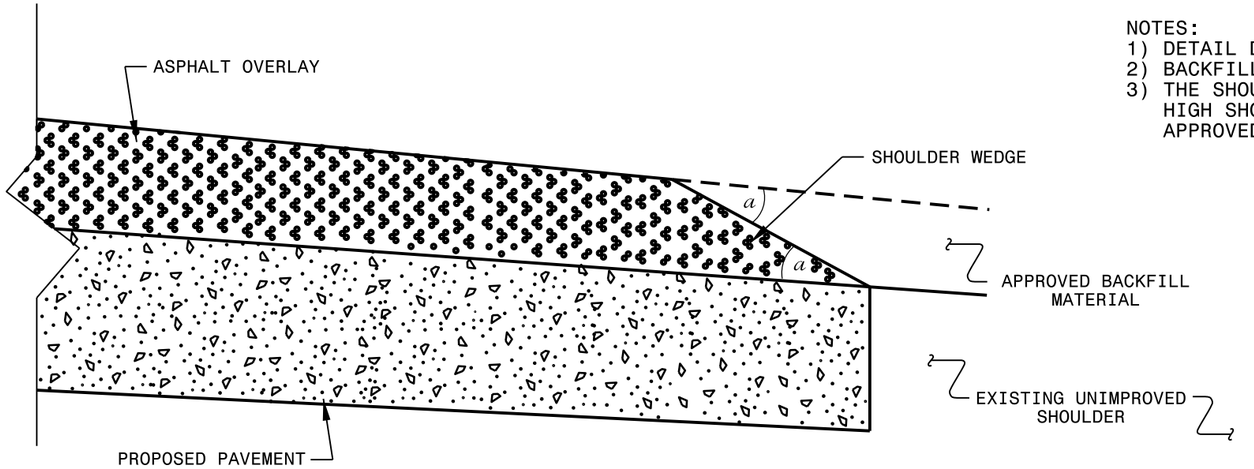
BRIDGE DRAWING FOR
MAP #5 24/27 BRIDGE # 43 & SR1838 BRIDGE #39

BRIDGE NOTES:

BRIDGES #40 & #54 ON NC 24W RECEIVE 1.5" MILL & FILL.

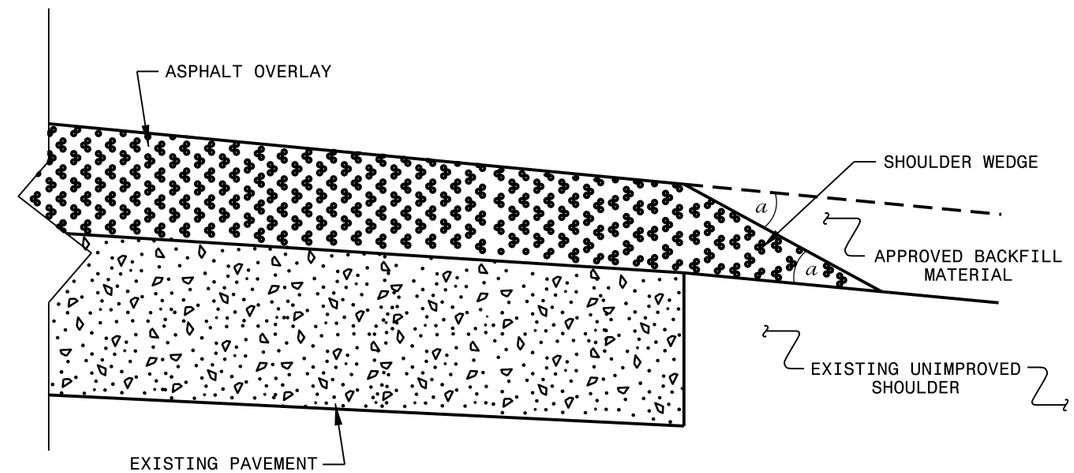
DO NOT FILL IN DRAIN HOLES WHEN RESURFACING.

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, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



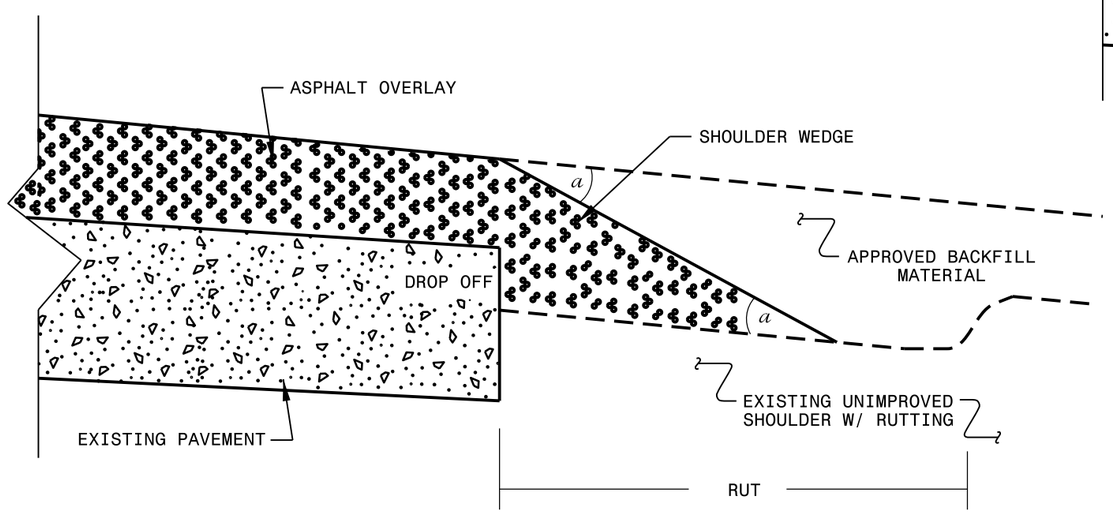
SHOULDER WEDGE DETAIL

(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°

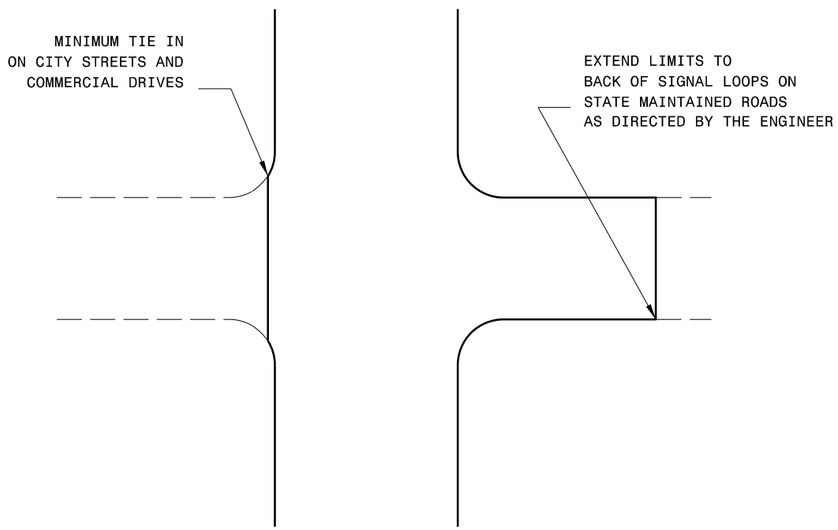
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

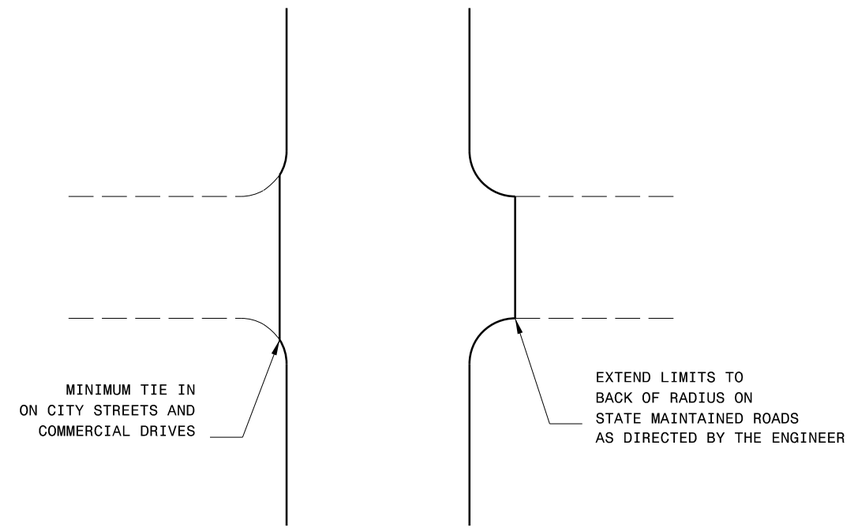
SHOULDER WEDGE DETAILS

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

$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$DGNFILE$$$$



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:

MAP#	STREET NAME	COMMENTS

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.08.02.10631.1,	19	
2026CPT.08.02.20631.1		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	1245000000-E SHOULDER RECONSTRUCTION	1260000000-E AGGREGATE SHOULDER BORROW	1297000000-E 1.5" MILLING	1330000000-E INCIDENTAL MILLING	1519000000-E SURFACE COURSE, S9.5B	1523000000-E SURFACE COURSE, S9.5C	1575000000-E ASPHALT BINDER FOR PLANT MIX	1704000000-E PATCHING EXISTING PAVEMENT	2830000000-N ADJUST MANHOLES	2845000000-N ADJUST METER OR VALVE BOX	5255000000-N PORTABLE LIGHTING	7444000000-E INDUCTIVE LOOP SAWCUT
								MI	FT			SMI	TON	SY	SY	TONS	TONS	TONS	TONS	EA	EA	LS	LF
2026CPT.08.02.10631.1	Moore	1	NC-705	FROM MP 9.363 EXT PVMT JNT TO MP 10.888 NEW PVMT JNT AT C&G	1	2		1.525	22	9.363	10.888	3.00	450.00		815		1,746	107	94				
TOTAL FOR MAP NO. 1								**1.525**				**3.00**	**450.00**		**815**		**1,746**	**107**	**94**				
2026CPT.08.02.10631.1	Moore	2	NC-705	FROM MP 10.88 NEW PVMT JNT AT C&G TO MP 11.777 END OF C&G NEW PVT JNT	2	2		0.897	44	10.88	11.777			2,370	2,365		2,146	132	110	15	16	*	1,900
TOTAL FOR MAP NO. 2								**0.897**						**2,370**	**2,365**		**2,146**	**132**	**110**	**15**	**16**		**1,900**
2026CPT.08.02.10631.1	Moore	3	NC-705	FROM MP 11.777 END OF C&G AND NEW PVT JOINT TO SOUTH SIDE OF APPROACH APRON ON BRIDGE OVER BEAR CREEK TO MP 11.955	1	2		0.178	25	11.777	11.955	0.36	50.00		140		238	14	5	2		*	
TOTAL FOR MAP NO. 3								**0.178**				**0.36**	**50.00**		**140**		**238**	**14**	**5**	**2**			
2026CPT.08.02.10631.1	Moore	4	NC-24 W	TRAFFIC CIRCLE TO SR 1644 (OLD GLENDON RD)	3	2		0.89	40	11.535	12.425			20,498	100		1,901	113	20	20	5		
TOTAL FOR MAP NO. 4								**0.89**						**20,498**	**100**		**1,901**	**113**	**20**	**20**	**5**		
2026CPT.08.02.10631.1	Moore	5	NC-24 W	FROM SR 1644 (OLD GLENDON RD) TO MP 16.538 JUST EAST OF HWY 22 INTERSECTION	3	2		4.173	28	12.365	16.538			68,549	1,815		6,246	376	165				
TOTAL FOR MAP NO. 5								**4.173**						**68,549**	**1,815**		**6,246**	**376**	**165**				
TOTAL FOR PROJ NO. 2026CPT.08.02.10631.1								**7.663**				**3.36**	**500.00**	**91,417**	**5,235**		**12,277**	**742**	**394**	**37**	**21**	**1**	**1,900**
2026CPT.08.02.20631.1	Moore	6	SR-1268 / KENNEDY RD	FROM NC HWY 705 TO PVT JNT	4	2		0.113	22	0	0.113	0.22	40.00		65	126		8	4				
TOTAL FOR MAP NO. 6								**0.113**				**0.22**	**40.00**		**65**	**126**		**8**	**4**				
2026CPT.08.02.20631.1	Moore	7	SR-1299 / BOONE RD	FROM SR 1268 (KENNEDY RD) TO DEAD END	4	2		0.57	22	0	0.57	1.14	175.00			638		42	15				
TOTAL FOR MAP NO. 7								**0.57**				**1.14**	**175.00**			**638**		**42**	**15**				
2026CPT.08.02.20631.1	Moore	8	SR-1626 / HARRINGTON RD	FROM SR 1625 (UNDERWOOD RD) TO SR 1621 (S. CARBONTON RD)	4	2		0.61	20	0	0.61	1.25	210.00			620		41	12				
TOTAL FOR MAP NO. 8								**0.61**				**1.25**	**210.00**			**620**		**41**	**12**				
2026CPT.08.02.20631.1	Moore	9	SR-1625 / HARRINGTON RD	FROM SR 1626 HARRINGTON RD TO LEE COUNTY OVER BIG GOVERNOR CRK	4	2		1.545	22	7.035	8.58	3.09	500.00		125	1,728		114	30				
TOTAL FOR MAP NO. 9								**1.545**				**3.09**	**500.00**		**125**	**1,728**		**114**	**30**				
2026CPT.08.02.20631.1	Moore	10	SR-1621 / S CARBONTON RD	FROM PVT JOINT AT SR 1006 (GLENDON-CARTHAGE RD) TO PVT JOINT AT CHATHAM COUNTY LINE	4	2		6.253	22	0.022	6.275	12.50	1,900.00		1,375	7,068		466	130				
TOTAL FOR MAP NO. 10								**6.253**				**12.50**	**1,900.00**		**1,375**	**7,068**		**466**	**130**				
2026CPT.08.02.20631.1	Moore	11	SR-1628 / COOL SPRINGS RD	FROM SR 1641 PETTY RD TO EXT. PVT JOINT AT MP 3.54 OF SR 1628 COOL SPRINGS RD	4	2		1.05	22	2.49	3.54	2.10	315.00		65	1,186		79	30				
TOTAL FOR MAP NO. 11								**1.05**				**2.10**	**315.00**		**65**	**1,186**		**79**	**30**				
2026CPT.08.02.20631.1	Moore	12	SR-1838 / MCCASKILL RD	FROM PVT JOINT AT HWY 22 TO SR 1831 (FARM LIFE SCHOOL RD)	4	2		1.625	22	1.825	3.45	3.25	475.00		370	1,835		121	30				
TOTAL FOR MAP NO. 12								**1.625**				**3.25**	**475.00**		**370**	**1,835**		**121**	**30**				
2026CPT.08.02.20631.1	Moore	13	SR-1836 / RIVER DANIEL RD	FROM SR 1835 (BLUES SIDING RD) TO HWY 22	4	2		0.72	22	0	0.72	1.44	225.00		125	805		53	20				
TOTAL FOR MAP NO. 13								**0.72**				**1.44**	**225.00**		**125**	**805**		**53**	**20**				
2026CPT.08.02.20631.1	Moore	14	SR-1903 / MERRY OAK RD	FROM SR 1843 (AIRPORT RD) TO END OF PAVEMENT	4	2		0.16	18	0	0.16	0.32	50.00		50	150		10	5				
TOTAL FOR MAP NO. 14								**0.16**				**0.32**	**50.00**		**50**	**150**		**10**	**5**				
2026CPT.08.02.20631.1	Moore	15	SR-2194 / L COOPER RD	FROM SR 2199 (CRANES CREEK RD) TO SR 2002 (PINEYWOOD CHURCH RD)	4	2		1.07	22	0	1.07	2.14	320.00		125	1,207		80	25				
TOTAL FOR MAP NO. 15								**1.07**				**2.14**	**320.00**		**125**	**1,207**		**80**	**25**				
2026CPT.08.02.20631.1	Moore	16	SR-2193 / SAMUEL MEDLIN LN	FROM DEAD END TO SR 2002 (PINEYWOOD CHURCH RD)	4	2		0.18	20	0	0.18	0.36	60.00		65	183		12	7				
TOTAL FOR MAP NO. 16								**0.18**				**0.36**	**60.00**		**65**	**183**		**12**	**7**				
2026CPT.08.02.20631.1	Moore	17	SR-1116 / DAWKINS ST	FROM NC 5 TO SR 1118 (GAINES ST)	4	2		0.55	20	0	0.55	1.10	160.00		170	573		38	10				
TOTAL FOR MAP NO. 17								**0.55**				**1.10**	**160.00**		**170**	**573**		**38**	**10**				
2026CPT.08.02.20631.1	Moore	18	SR-2086 / MCKEITHEN RD	FROM HWY 690 TO DEAD END	4	2		0.42	20	0	0.42	1.20	175.00		60	427		29	18				
TOTAL FOR MAP NO. 18								**0.42**				**1.20**	**175.00**		**60**	**427**		**29**	**18**				
2026CPT.08.02.20631.1	Moore	19	SR-2029 / YADKIN RD	FROM END OF MAINTENANCE TO MP 0.357 SR 2080 (N. MAY ST)	4	2		0.357	19	0	0.357	0.70			250	359		24	7				
TOTAL FOR MAP NO. 19								**0.357**				**0.70**			**250**	**359**		**24**	**7**				
2026CPT.08.02.20631.1	Moore	20	SR-1829 / MCINTOSH RD	FROM SR 1803 (VASS-CARTHAGE RD) TO SR 1805 (UNION CHURCH RD)	4	2		1.41	18	0	1.41	2.82	420.00		115	1,290		84					
TOTAL FOR MAP NO. 20								**1.41**				**2.82**	**420.00**		**115**	**1,290**		**84**					
TOTAL FOR PROJ NO. 2026CPT.08.02.20631.1								**16.633**				**33.63**	**5,025.00**		**2,960**	**18,195**		**1,201**	**343**				
GRAND TOTAL								**24.296**				**36.99**	**5,525.00**	**91,417**	**8,195**	**18,195**	**12,277**	**1,943**	**737**	**37**	**21**	**1**	**1,900**

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.08.02.10631	20	
2026CPT.08.02.20631		

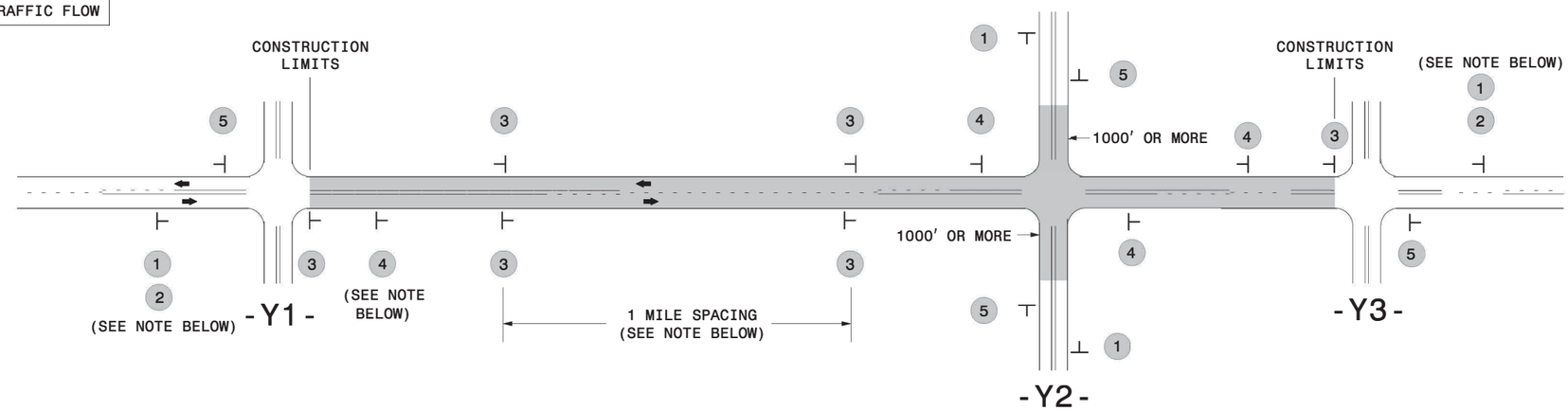
THERMOPLASTIC AND PAINT QUANTITIES

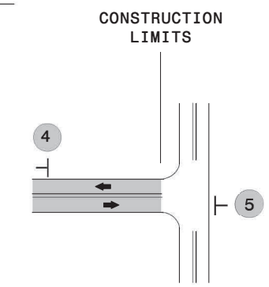
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL	4510000000-N LAW ENFORCEMENT	4688000000-E 6" X 90 M YELLOW THERMO	4688000000-E 6" X 90 M WHITE THERMO	4700000000-E 12" X 90 M WHITE THERMO	4704000000-E 16" X 90 M WHITE THERMO	4709000000-E 24" X 90 M WHITE THERMO	4810000000-E 4" WHITE PAINT	4810000000-E 4" YELLOW PAINT	4830000000-E 16" WHITE PAINT	4835000000-E 24" WHITE PAINT	4840000000-N PAINT MSG RXR	4845000000-N PAINT RT ARROW	4845000000-N PAINT STR & LT ARROW	4845000000-N PAINT STR & RT ARROW
								MI	FT			SF	LS	HR	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA
2026CPT.08.02.10631.1	Moore	1	NC-705	FROM MP 9.363 EXT PVMT JNT TO MP 10.888 NEW PVMT JNT AT C&G	1	2		1.525	22	9.363	10.888	175			17,000	16,500											
TOTAL FOR MAP NO. 1								**1.525**				**175**			**17,000**	**16,500**											
2026CPT.08.02.10631.1	Moore	2	NC-705	FROM MP 10.88 NEW PVMT JNT AT C&G TO MP 11.777 END OF C&G NEW PVT JNT	2	2		0.897	44	10.88	11.777	101		80	11,000	14,500	1,200	75	300					4	2	1	2
TOTAL FOR MAP NO. 2								**0.897**				**101**		**80**	**11,000**	**14,500**	**1,200**	**75**	**300**					**4**	**2**	**1**	**2**
2026CPT.08.02.10631.1	Moore	3	NC-705	FROM MP 11.777 END OF C&G AND NEW PVT JOINT TO SOUTH SIDE OF APPROACH APRON ON BRIDGE OVER BEAR CREEK TO MP 11.955	1	2		0.178	25	11.777	11.955	21	*		2,000	2,000											
TOTAL FOR MAP NO. 3								**0.178**				**21**			**2,000**	**2,000**											
2026CPT.08.02.10631.1	Moore	4	NC-24 W	TRAFFIC CIRCLE TO SR 1644 (OLD GLENDON RD)	3	2		0.89	40	11.535	12.425	105			9,350	10,120											
TOTAL FOR MAP NO. 4								**0.89**				**105**			**9,350**	**10,120**											
2026CPT.08.02.10631.1	Moore	5	NC-24 W	FROM SR 1644 (OLD GLENDON RD) TO MP 16.538 JUST EAST OF HWY 22 INTERSECTION	3	2		4.173	28	12.365	16.538	470			44,500	44,901											
TOTAL FOR MAP NO. 5								**4.173**				**470**			**44,500**	**44,901**											
TOTAL FOR PROJ NO. 2026CPT.08.02.10631.1								**7.663**				**872**		**80**	**83,850**	**88,021**	**1,200**	**75**	**300**					**4**	**2**	**1**	**2**
															171,871										**5**		
2026CPT.08.02.20631.1	Moore	6	SR-1268 / KENNEDY RD	FROM NC HWY 705 TO PVT JN1	4	2		0.113	22	0	0.113	15															
TOTAL FOR MAP NO. 6								**0.113**				**15**															
2026CPT.08.02.20631.1	Moore	7	SR-1299 / BOONE RD	FROM SR 1268 (KENNEDY RD) TO DEAD END	4	2		0.57	22	0	0.57	65															
TOTAL FOR MAP NO. 7								**0.57**				**65**															
2026CPT.08.02.20631.1	Moore	8	SR-1626 / HARRINGTON RD	FROM SR 1625 (UNDERWOOD RD) TO SR 1621 (S. CARBONTON RD)	4	2		0.61	20	0	0.61	70								13,127	12,750						
TOTAL FOR MAP NO. 8								**0.61**				**70**								**13,127**	**12,750**						
2026CPT.08.02.20631.1	Moore	9	SR-1625 / HARRINGTON RD	FROM SR 1626 HARRINGTON RD TO LEE COUNTY OVER BIG GOVERNOR CRK	4	2		1.545	22	7.035	8.58	180								33,248	33,000						
TOTAL FOR MAP NO. 9								**1.545**				**180**								**33,248**	**33,000**						
2026CPT.08.02.20631.1	Moore	10	SR-1621 / S CARBONTON RD	FROM PVT JOINT AT SR 1006 (GLENDON-CARTHAGE RD) TO PVT JOINT AT CHATHAM COUNTY LINE	4	2		6.253	22	0.022	6.275	700								134,565	134,025	100	50	4			
TOTAL FOR MAP NO. 10								**6.253**				**700**								**134,565**	**134,025**	**100**	**50**	**4**			
2026CPT.08.02.20631.1	Moore	11	SR-1628 / COOL SPRINGS RD	FROM SR 1641 PETTY RD TO EXT. PVT JOINT AT MP 3.54 OF SR 1628 COOL SPRINGS RD	4	2		1.05	22	2.49	3.54	120								22,596	23,000						
TOTAL FOR MAP NO. 11								**1.05**				**120**								**22,596**	**23,000**						
2026CPT.08.02.20631.1	Moore	12	SR-1838 / MCCASKILL RD	FROM PVT JOINT AT HWY 22 TO SR 1831 (FARM LIFE SCHOOL RD)	4	2		1.625	22	1.825	3.45	185								34,970	35,000						
TOTAL FOR MAP NO. 12								**1.625**				**185**								**34,970**	**35,000**						
2026CPT.08.02.20631.1	Moore	13	SR-1836 / RIVER DANIEL RD	FROM SR 1835 (BLUES SIDING RD) TO HWY 22	4	2		0.72	22	0	0.72	80	*							15,494	15,500						
TOTAL FOR MAP NO. 13								**0.72**				**80**								**15,494**	**15,500**						
2026CPT.08.02.20631.1	Moore	14	SR-1903 / MERRY OAK RD	FROM SR 1843 (AIRPORT RD) TO END OF PAVEMENT	4	2		0.16	18	0	0.16	20															
TOTAL FOR MAP NO. 14								**0.16**				**20**															
2026CPT.08.02.20631.1	Moore	15	SR-2194 / L COOPER RD	FROM SR 2199 (CRANES CREEK RD) TO SR 2002 (PINEYWOOD CHURCH RD)	4	2		1.07	22	0	1.07	125								23,026	23,000						
TOTAL FOR MAP NO. 15								**1.07**				**125**								**23,026**	**23,000**						
2026CPT.08.02.20631.1	Moore	16	SR-2193 / SAMUEL MEDLIN LN	FROM DEAD END TO SR 2002 (PINEYWOOD CHURCH RD)	4	2		0.18	20	0	0.18	20								3,874	3,850						
TOTAL FOR MAP NO. 16								**0.18**				**20**								**3,874**	**3,850**						
2026CPT.08.02.20631.1	Moore	17	SR-1116 / DAWKINS ST	FROM NC 5 TO SR 1118 (GAINES ST	4	2		0.55	20	0	0.55	65															
TOTAL FOR MAP NO. 17								**0.55**				**65**															
2026CPT.08.02.20631.1	Moore	18	SR-2086 / MCKEITHEN RD	FROM HWY 690 TO DEAD END	4	2		0.42	20	0	0.42	50															
TOTAL FOR MAP NO. 18								**0.42**				**50**															
2026CPT.08.02.20631.1	Moore	19	SR-2029 / YADKIN RD	FROM END OF MAINTENANCE TO MP 0.357 SR 2080 (N. MAY ST)	4	2		0.357	19	0	0.357	40															
TOTAL FOR MAP NO. 19								**0.357**				**40**															
2026CPT.08.02.20631.1	Moore	20	SR-1829 / MCINTOSH RD	FROM SR 1803 (VASS-CARTHAGE RD) TO SR 1805 (UNION CHURCH RD)	4	2		1.41	18	0	1.41	160								30,343	30,000						
TOTAL FOR MAP NO. 20								**1.41**				**160**								**30,343**	**30,000**						
TOTAL FOR PROJ NO. 2026CPT.08.02.20631.1								**16.633**				**1,895**								**311,243**	**310,125**	**100**	**50**	**4**			
																				621,368							
GRAND TOTAL								**24.296**				**2,767**	**1.000**	**80**	**83,850**	**88,021**	**1,200**	**75**	**300**	**311,243**	**310,125**	**100**	**50**	**8**	**2**	**1**	**2**
															171,871					**621,368**					**5**		

PROJ. REFERENCE NO.	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	TMP-1

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ← DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1	ROAD WORK AHEAD 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.
2	NEXT XX MILES 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	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 ½ 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.

-Y- LINE SIGNING

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.

W20-7 A
48″ X 48″
PLACED 250′ IN ADVANCE OF FLAGGER.

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.

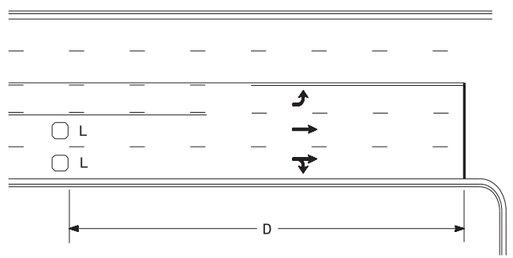
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

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

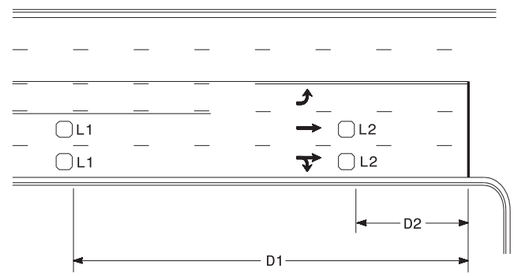
5/15/2017
S:\TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kedds

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.08.02.10631 2026CPT.08.02.20631	SIG-1

High Speed Detection
(≥40 mph)



OR



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

L = 6ft X 6ft
Wired separately

Volume Density Operation

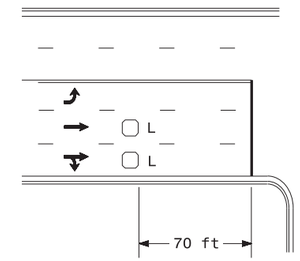
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

"Stretch" Operation

Low Speed Detection
(≤35 mph)



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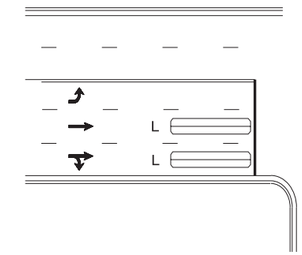
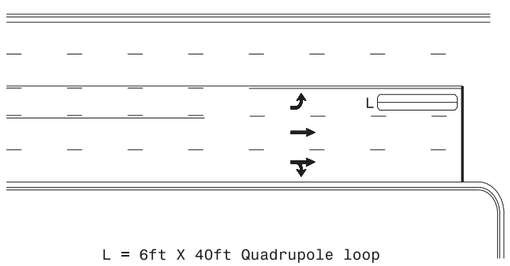


L = 6ft X 6ft
Wired in series

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

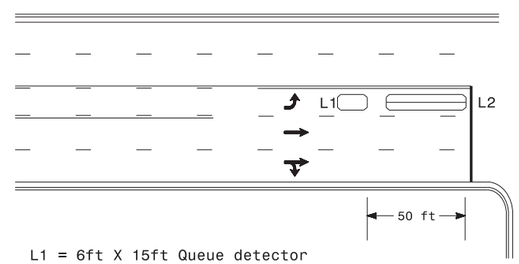
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

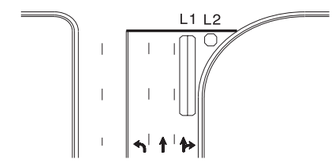
OR



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

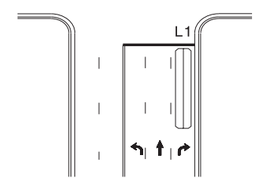
Queue Loop Detection

Right Turn Lane Detection

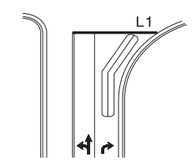


Shared Lane/
Wide Radius Turn

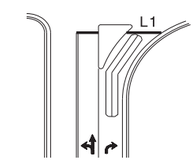
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

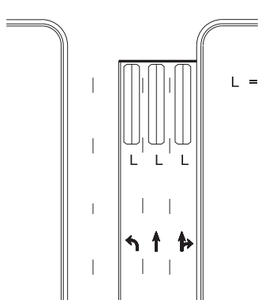


Wide Radius Turn



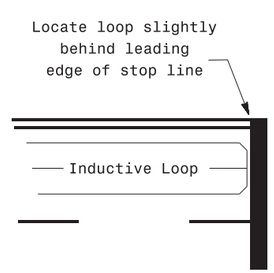
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



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

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE
N/A

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

Jason P. Galloway 9/8/2020
DATE

SIG. INVENTORY NO.

08-SEP-2020 11:54
S:\ITS&SU\ITS Signals\Signal Design Section\Eastern Region\Loop Typicals\loop typicals2015.dgn
jgalloway