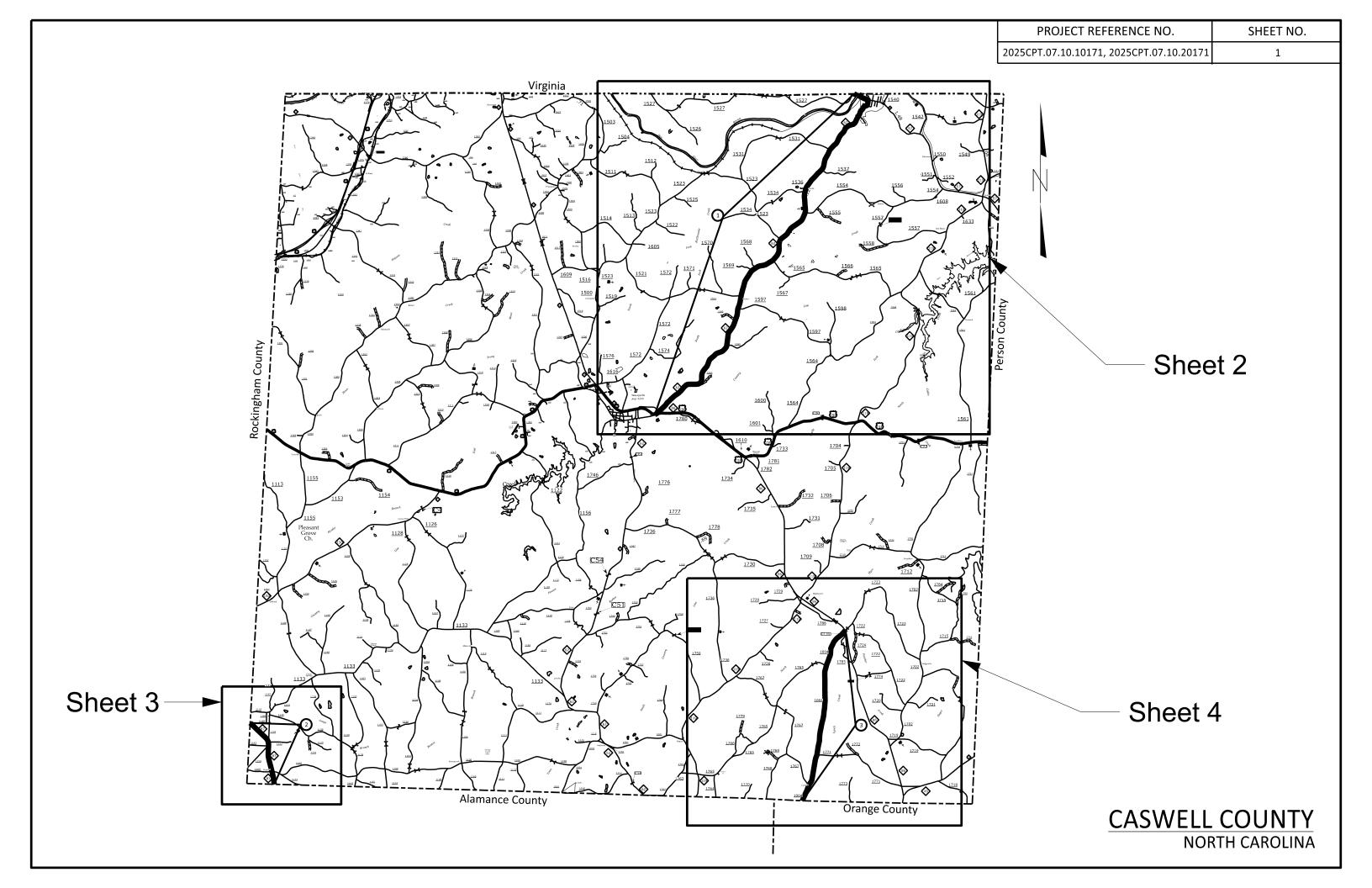
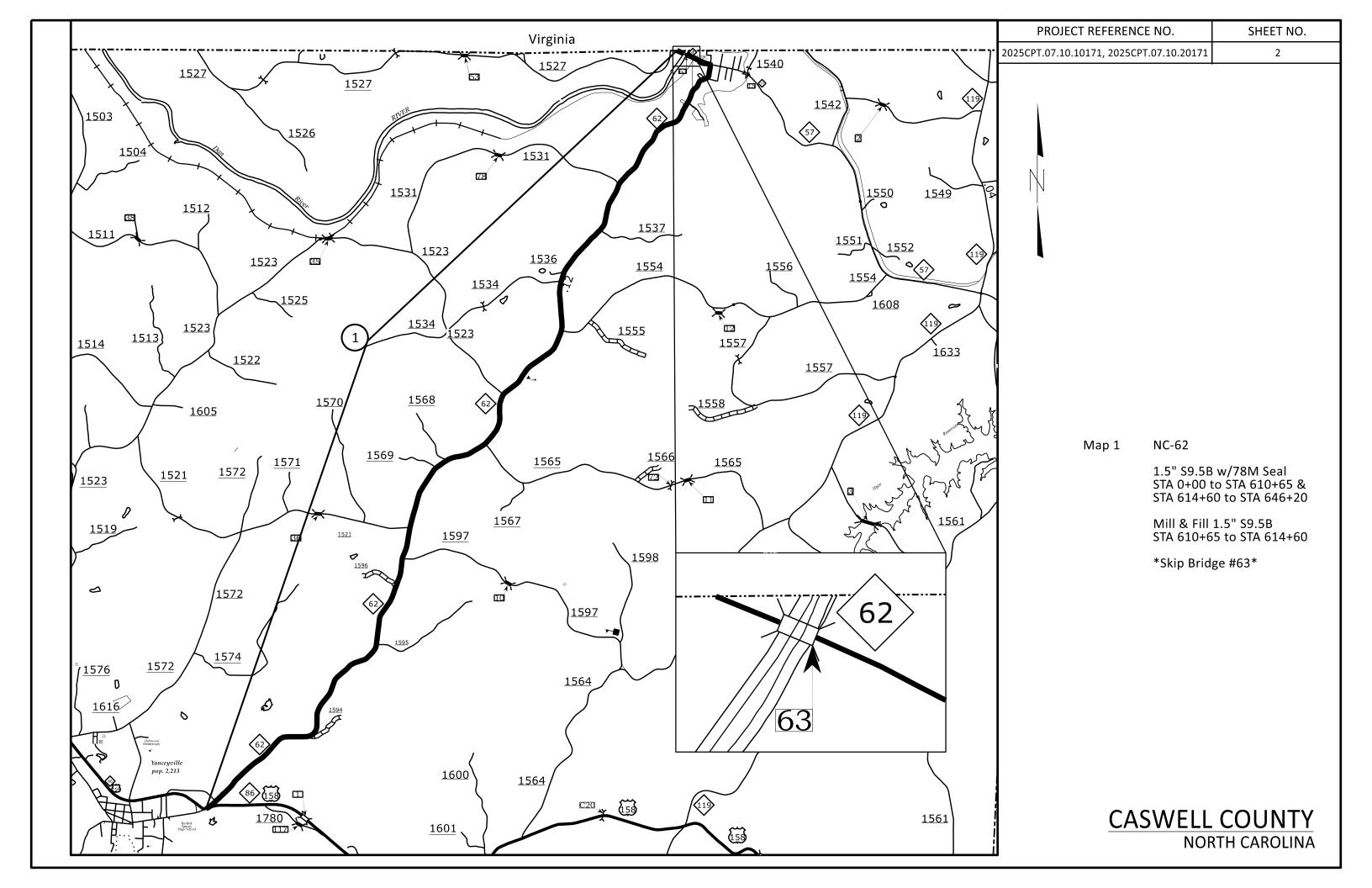
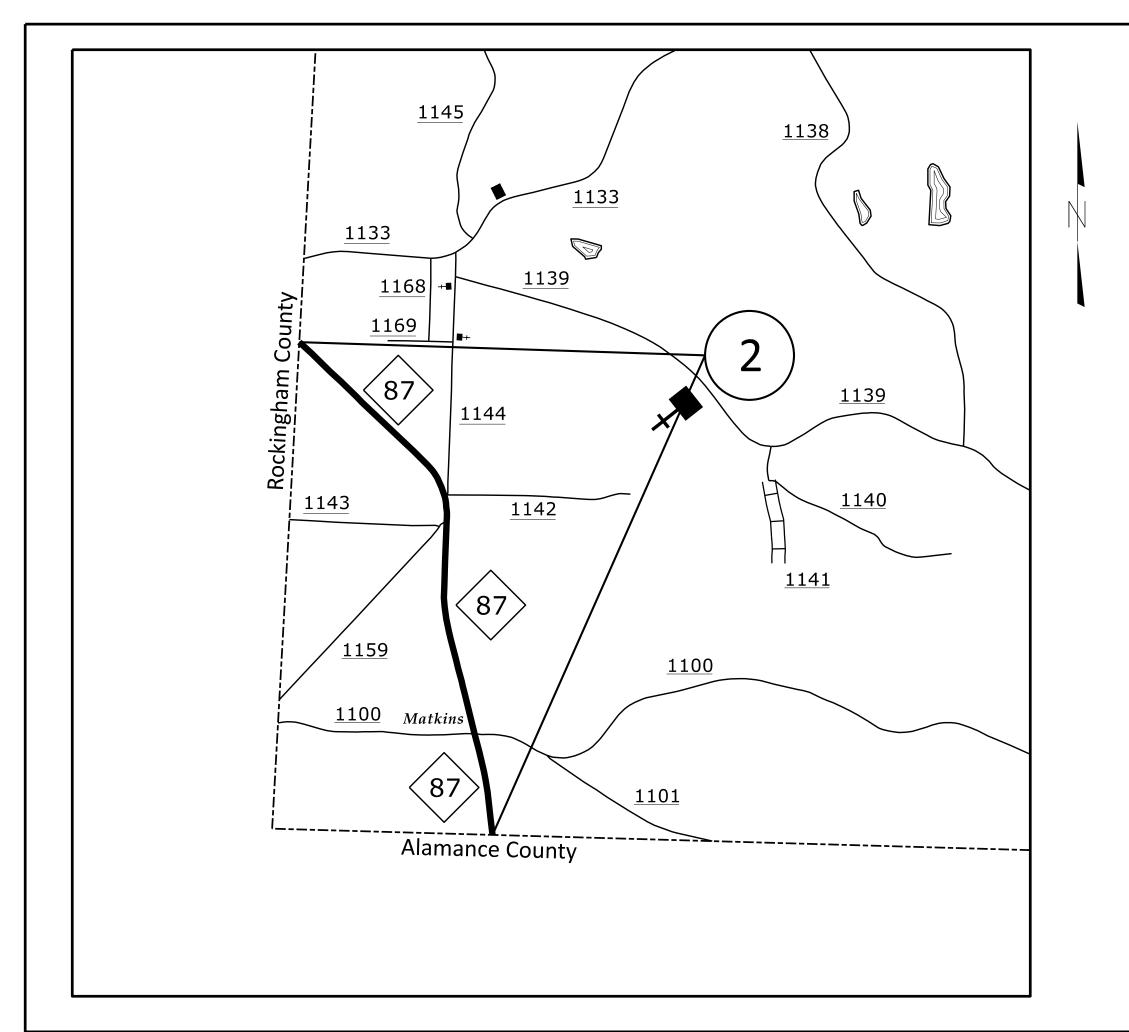
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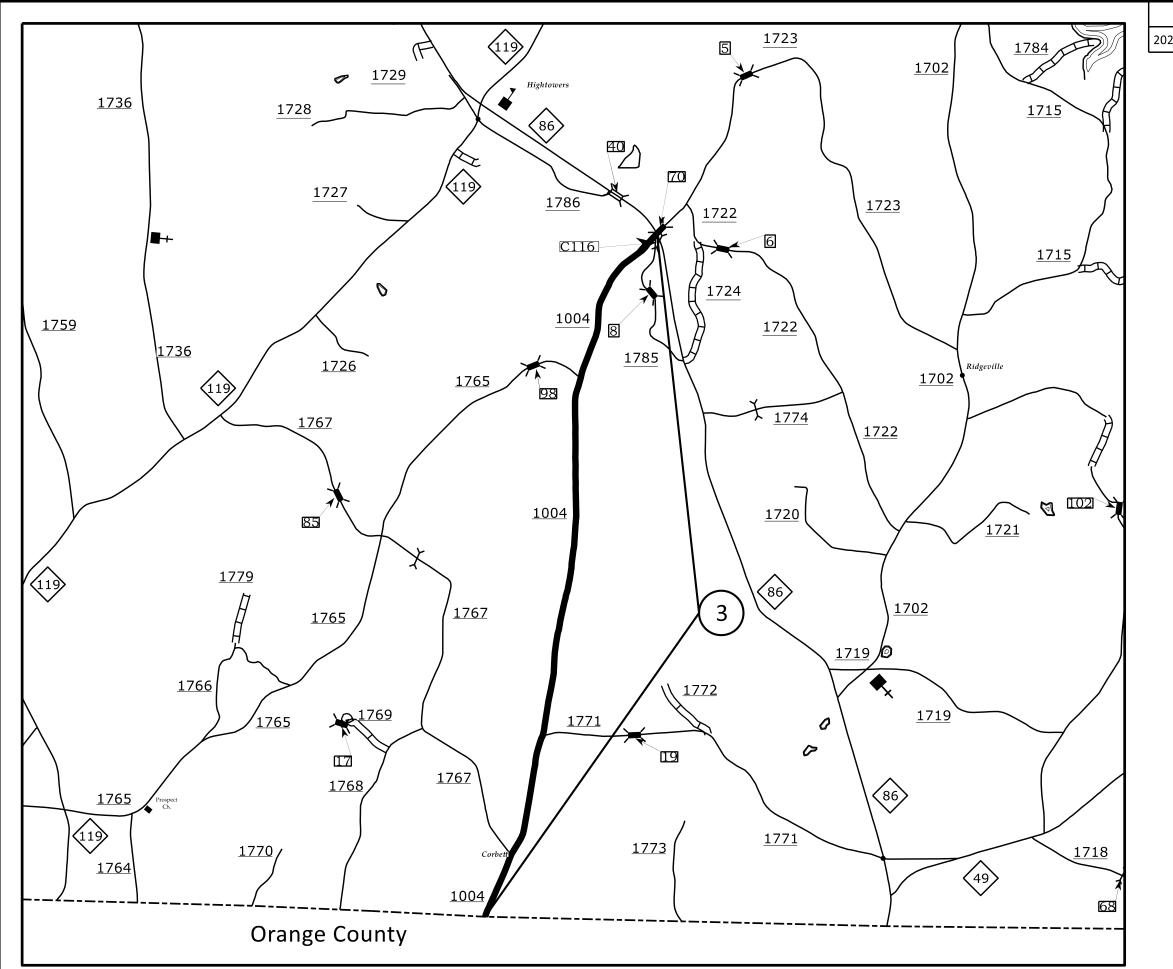


PROJECT REFERENCE NO.	SHEET NO.				
2025CPT 07 10 10171 2025CPT 07 10 20171	3				

Map 2 NC-87

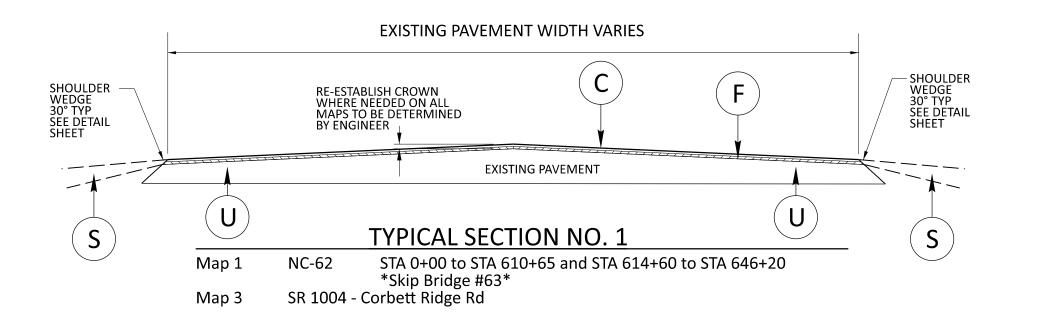
1.5" S9.5B w/67 Seal

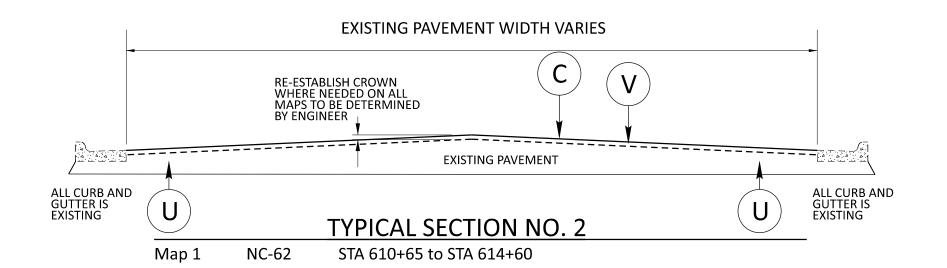
CASWELL COUNTY
NORTH CAROLINA

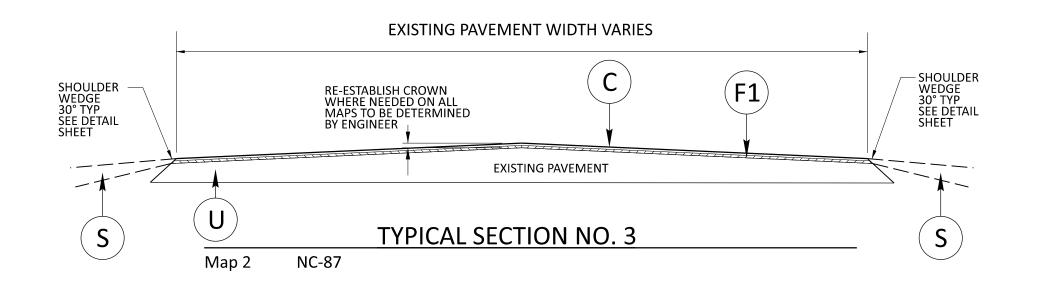


Р	ROJECT REFE	RENCE NO.	SHEET NO.
2025CPT.	07.10.10171, 20	4	
	Мар 3	SR 1004 - Corbe	ett Ridge Rd
	1.5" S9.5B		-
		w, / o seal	









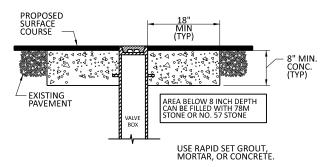
	PAVEMENT SCHEDULE							
С	PROP. APPROX. $1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.							
F	AST MAT COAT, #78M							
F1	AST MAT COAT, #67							
S	SHOULDER RECONSTRUCTION (SEE DETAIL)							
U	EXISTING PAVEMENT							
V	MILL ASPHALT PAVEMENT, 1½" DEPTH							

PROJECT REFERENCE NO.

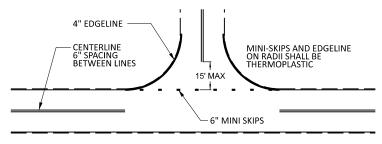
2025CPT.07.10.10171,2025CPT.07.10.20171

SHEET NO.

5

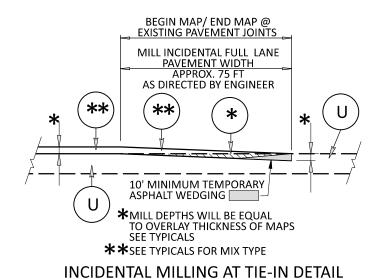


STANDARD CONCRETE ENCASEMENT FOR **VALVE CASTINGS IN PAVEMENT**

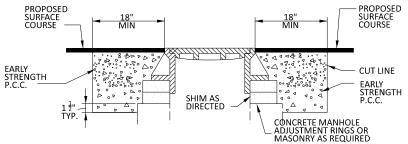


NOTE: MINI SKIPS SHALL BE PLACED ON A 8' CYCLE, CONTAINING A 6' AND 2' SKIP, THE WIDTH OF THE SKIP SHALL BE 6".

TO BE USED AT ALL NON-SIGNALIZED INTERSECTIONS



PROJECT REFERENCE NO. SHEET NO. 2025CPT.07.10.10171,2025CPT.07.10.20171 6



- NOTES:

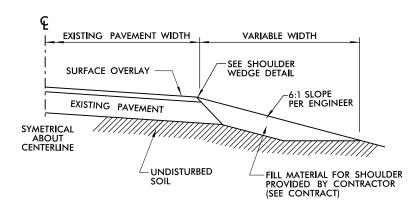
 1. MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.

 2. ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.

 3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT ON ALL SIDES.

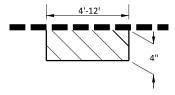
 4. RAPID SET GROUT, MORTAR, OR CONCRETE SHALL BE USED CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.

STANDARD CONCRETE ENCASEMENT FOR MANHOLE CASTINGS IN PAVEMENT



SHOULDER RECONSTRUCTION

* PLACE ASB OR BORROW AS DIRECTED BY THE ENGINEER



PATCH WITH ACSC, ACIC OR ACBC AS DIRECTED BY THE ENGINEER

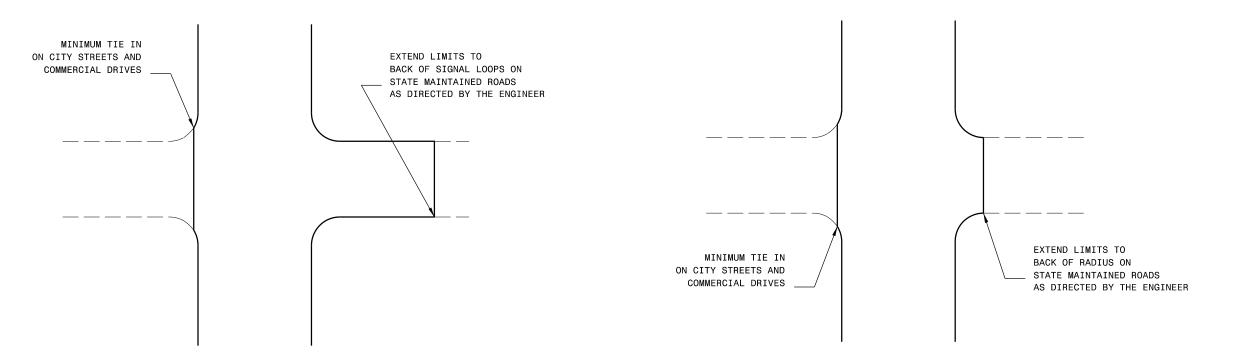
PATCHING EXISTING **PAVEMENT DETAIL**

	PAVEMENT SCHEDULE								
С	PROP. APPROX. $1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.								
F	AST MAT COAT, #78M								
F1	AST MAT COAT, #67								
S	SHOULDER RECONSTRUCTION (SEE DETAIL)								
U	EXISTING PAVEMENT								
V	MILL ASPHALT PAVEMENT, 1½" DEPTH								

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.10.10171,2025CPT.07.10.20171	7

TYPICAL DETAIL OF PROJECT LIMITS AT

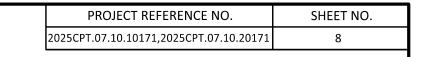
UNSIGNALIZED Y LINES

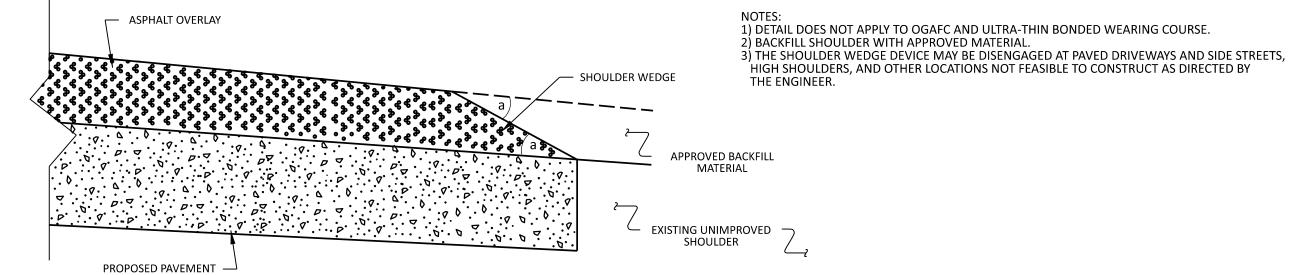


TYPICAL DETAIL OF PROJECT LIMITS AT

SIGNALIZED Y LINES

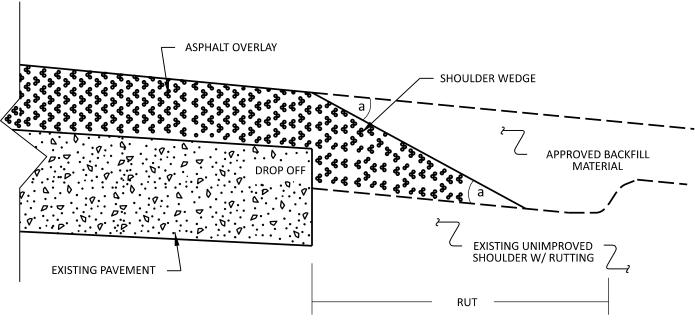
Γ		
	ADDITIONAL INTERSECTIONS (NO	N-TYPICAL)
	Extend paving limits to back of rac	dius
	or loop on the following intersection	ons:
MAP#	STREET NAME	COMMENTS
1	Community Cir	Mill & Fill
1	Holder St	Mill & Fill
1	Broad St	Tie Behind Loop
1	Fairview St	Tie Behind Loop
2	Brown's Chapel Rd	Tie to Back of Radius
2	Brown Rd	Tie to Back of Radius





SHOULDER WEDGE DETAIL

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



ASPHALT OVERLAY SHOULDER WEDGE APPROVED BACKFILL MATERIAL EXISTING UNIMPROVED SHOULDER EXISTING PAVEMENT

SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

- 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	Ξ
MODIFIED BY:		DATE:	10/16/12	Ξ
CHECKED BY:		DATE:		Τ
FILE SPEC ·	s:usr/details/stand/shou	Iderwedgede	etail.dgn	

SHOULDER WEDGE DETAIL

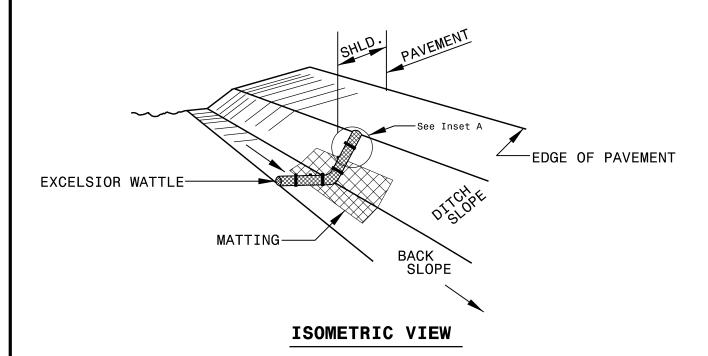
(Resurfacing Adjacent to Rutted Shoulder)

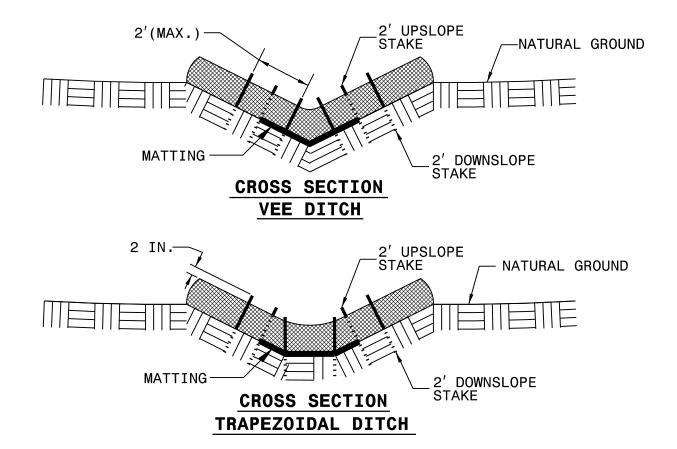
SHEET NO. NOTES: Less than 5' — 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP. 2025CPT.07.10.10171,2025CPT.07.10.20171 9 EROSION CONTROL DETAIL BMP Options: Wattle or Silt Fence < 5' - 10' Undisturbed buffer add BMP Pipe/Culvert < 5' - 10' Undisturbed buffer from < 5' - 10' Undisturbed buffer from jurisdictional feature add BMP Undisturbed Area ditchline, add BMP Undisturbed Area Disturbed Area EOP E0P Jurisdictional Feature Use BMP's if berms, shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed Disturbed Area Disturbed Area EOP EOP < 5' - 10' Undisturbed buffer from inlet, add wattle E0P E0P NOT TO SCALE Wattle Drainage Inlet

PROJECT REFERENCE NO.

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.10.10171,2025CPT.07.10.20171	10

WATTLE DETAIL





NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

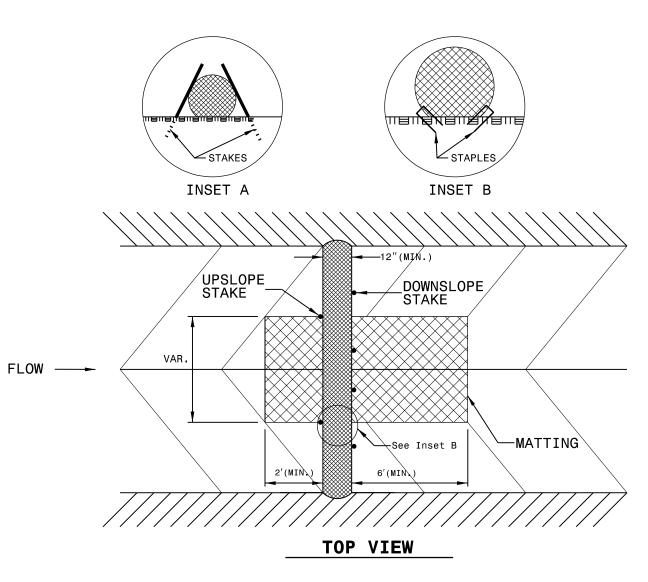
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

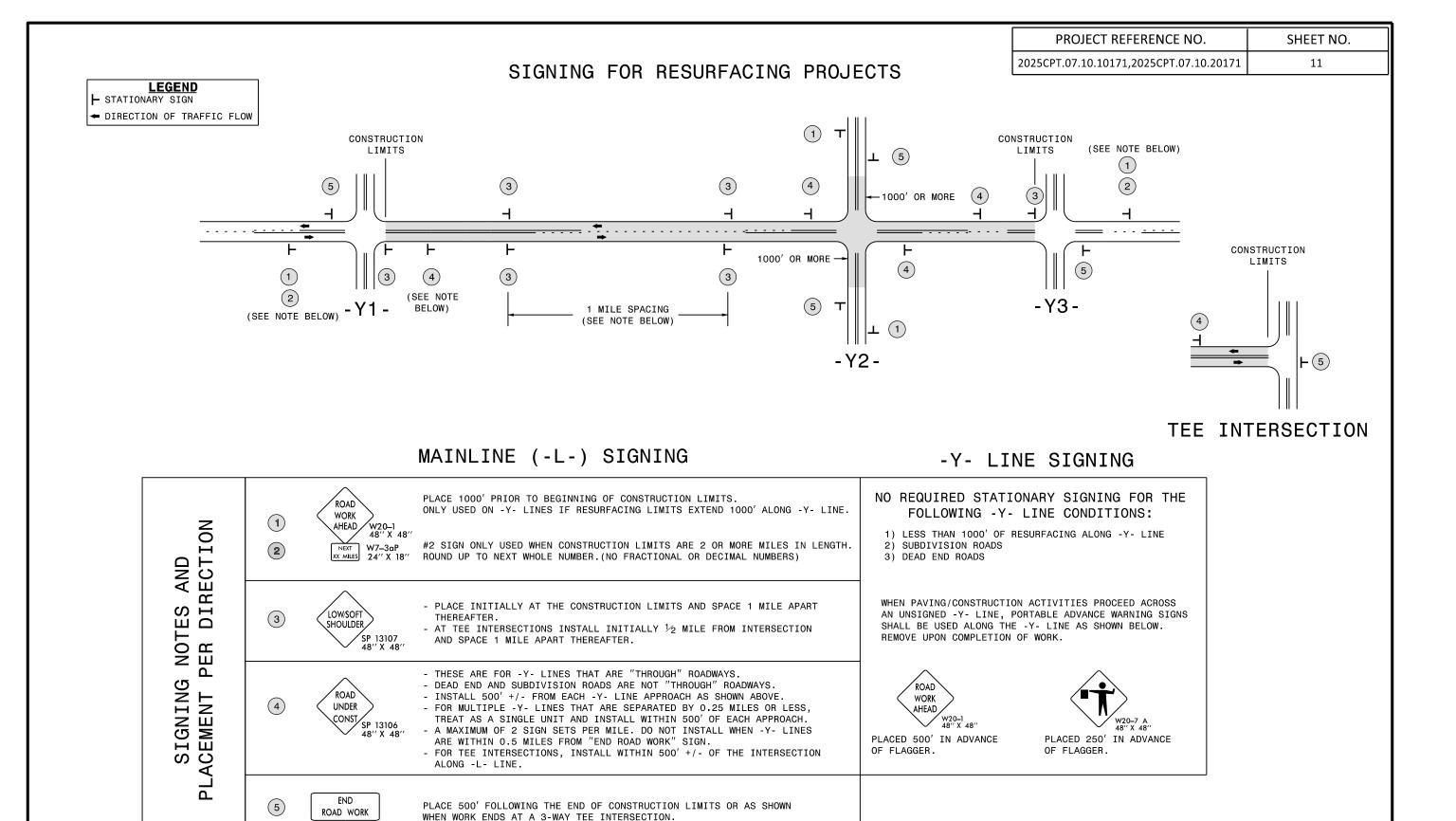
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.





G20-2 A 48" X 24"

START OF CONTRACT WORK.

ADVANCE WARNINGS SIGNS.

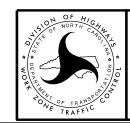
MAPS LESS

THAN 2 MILES

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

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 WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING

DI DI STATE OF
NORTH CAROLINA
I. OF TRANSPORTATION
VISION OF HIGHWAYS
RALEIGH, N.C.

П Ш CUT ENGL HSI H DUC **TANDARD**

(FOR 9 Ш DRAW ING EC FOR .ING) 9

SHEET 1 OF 1

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NOTES

- -OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
- -MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
- -WIRE LOOPS CONNECTED TO THE SAME DETECTOR IN SERIES.
- -LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS.
- -USE A SERIES OF ONE INCH PIECES OF BACKER ROD SPACED ONE FOOT APART ALONG THE ENTIRE LENGTH OF THE FEEDER SLOT AND LOOP SAW SLOT.
- -CONSULT LOOP SEALANT MANUFACTURER TO DETERMINE CURING TIME REQUIRED PRIOR TO MILLING.
- -REFER TO STANDARD DRAWING 1725.01 SHEETS 2 AND 3 FOR ADDITIONAL REQUIREMENTS.

SAW SLOT DEPTH CHART ASSUMING 2" MILLING DEPTH

DEPTH	MAX NO. OF WIRE LAYERS										
(IN)	2	3	4	5	6						
SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0						
MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0						

LOOP WIRE TWISTING METHOD

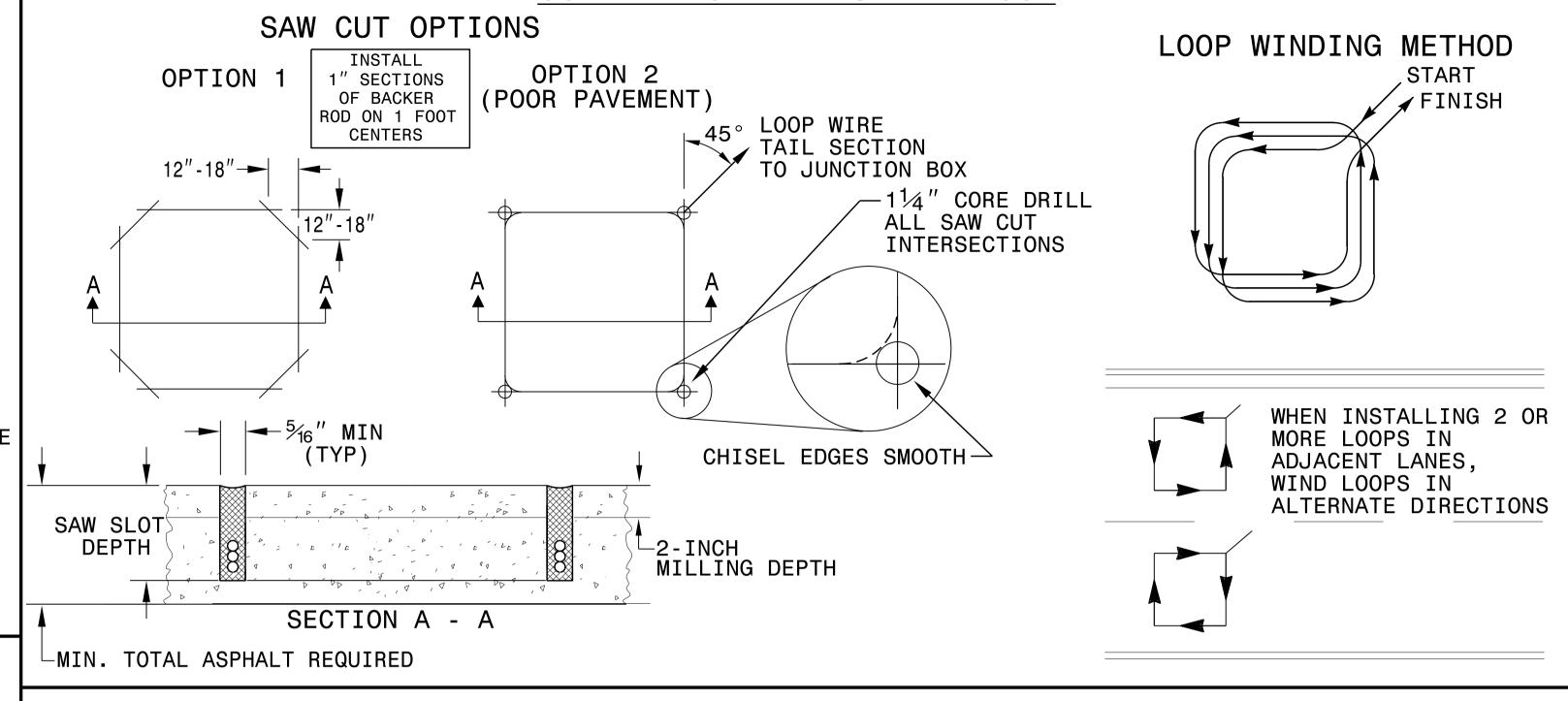
INCORRECT WAY TO TWIST WIRE



CORRECT WAY TO TWIST WIRE

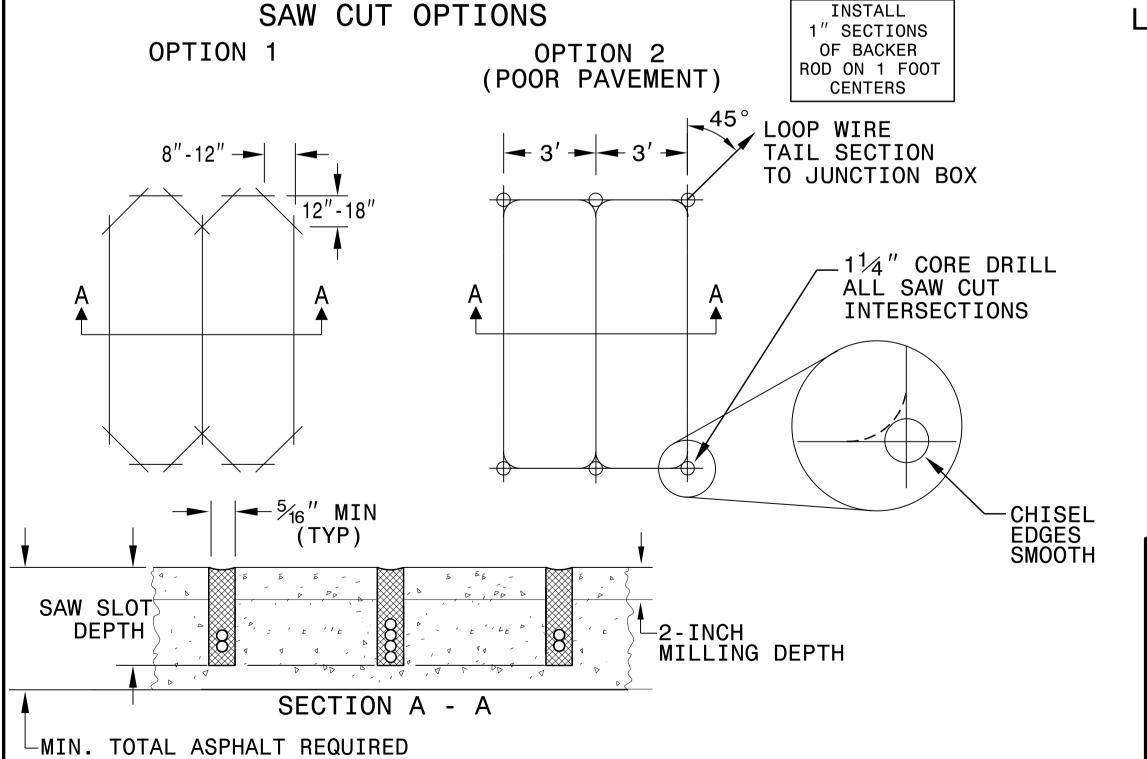


CONVENTIONAL 4-SIDED LOOP

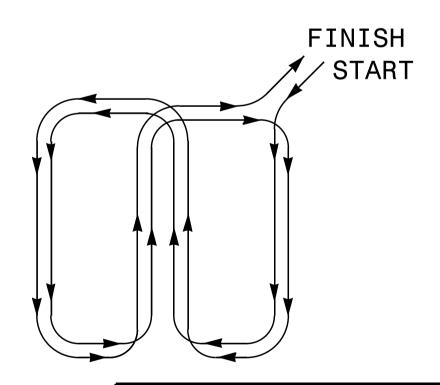




INSTALL

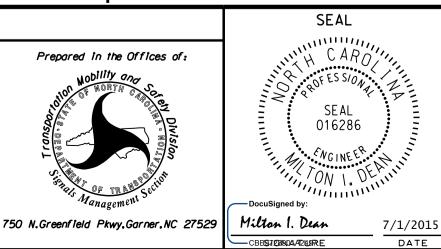


LOOP WINDING METHOD



REVISIONS

I. REMOVED TWISTING NOTES FROM TAIL SECT. TO JUNCTION BOX. 2/26/08 MWH 2. REVISED SECTION A - A DETAILS. 6/29/I5 JTP



OF

DEE

PROJECT REFERENCE 2025CPT.07.10.10171 2025CPT.07.10.20171

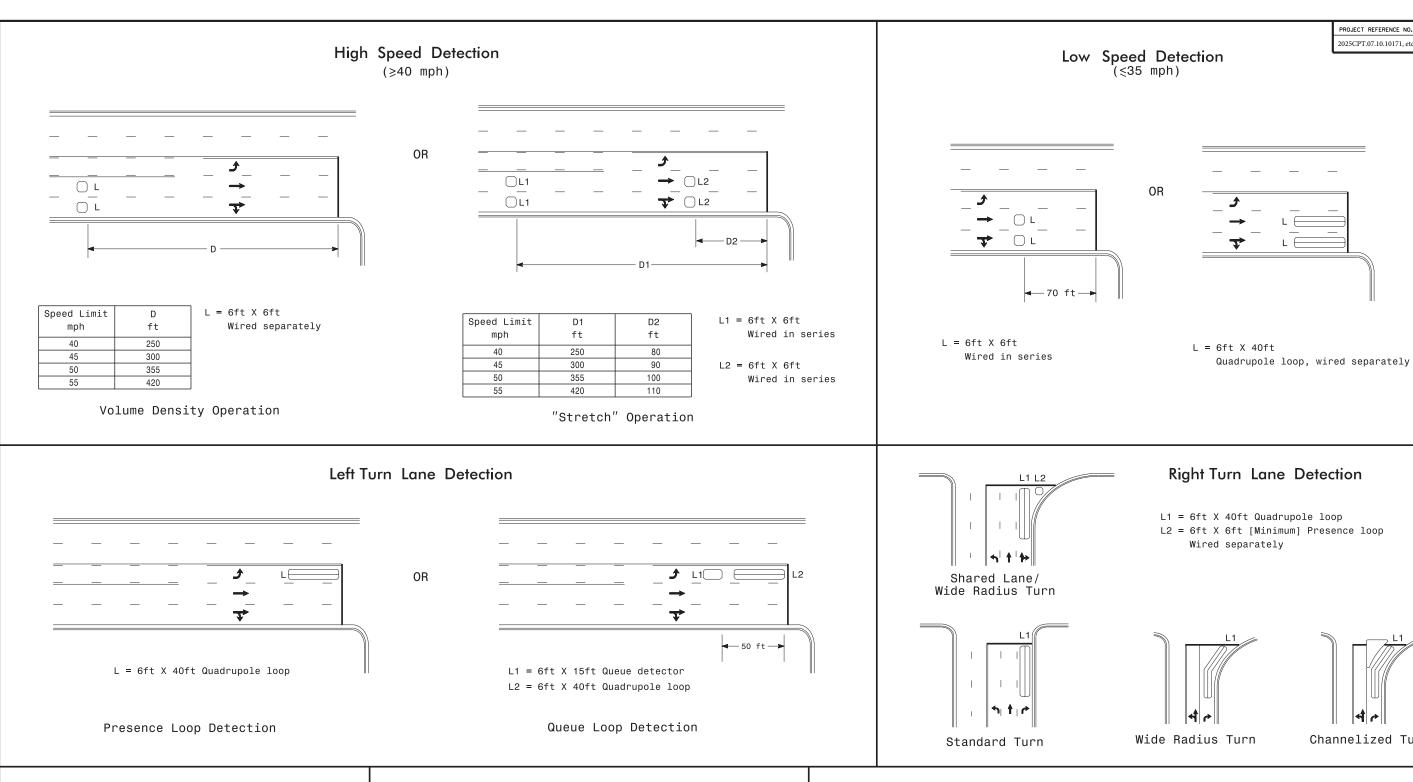
SHEET No.

STATE OF
NORTH CAROLINA
EPT. OF TRANSPORTA
DIVISION OF HIGHWA
RALEIGH, N.C. 00

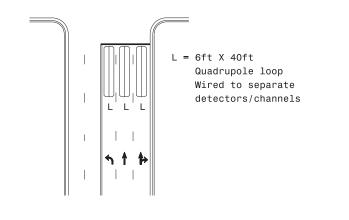
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ING) FOR DRAWING Ш́Н DE IOR STANDARD Ш **_ LLATION** 200 IND INSTA ISH ENGL FOR

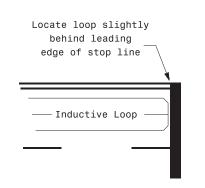
SHEET







Presence Loop Placement at Stop Lines



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

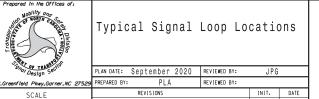
N/A

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



LIAZION P. Galloway

Channelized Turn

PROJECT REFERENCE NO. 2025CPT.07.10.10171, etc. RUMBLE

STRIPS

WITH

EXISTING

SIGNING

FOR

1-13 STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. SHEET NO. 14

DEPT

SIGNING

EXISTING

WITH

PS

TWO-LANE, JMBLE STRIF

RUMBLE

THERMOPLASTIC

TWO-WAY

FOR

DRAWING

ENGLISH DETAIL

RUMBLE STRIPS SPACED 5' ON CENTER RUMBLE STRIPS SPACED 2' ON CENTER 50' NOTE 3 22' 175' 50' 175′ 22' NOTE 3 RUMBLE STRIPS SPACED 5' ON CENTER RUMBLE STRIPS SPACED 2' ON CENTER

GENERAL NOTES:

ALL RUMBLE STRIPS SHALL BE CENTERED IN THE LANE AND SHALL BE 2 FEET LESS THAN THE WIDTH OF THE TRAVEL LANE

(SEE NOTE 3)

- RUMBLE STRIPS SHALL BE PLACED USING 4" x 240 MIL WHITE THERMOPLASTIC PAVEMENT MARKING MATERIAL. 2-
- 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.

SHEET 1 OF 1

SHEET 1 OF 1

PROJECT NO.	SHEET NO.	TOTAL NO.				
2025CPT.07.10.10171,	15	16				
2025CPT.07.10.20171	15	10				

SUMMARY OF QUANTITIES

								0106000000-E	1220000000-E	1245000000-E	1260000000-E	129700000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	1775000000-E	1775500000-E	1838000000-E	2845000000-N	6000000000-E	6071010000-E	6084000000-E	7990000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	BORROW EXCAVATION	INCIDENTAL STONE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MAT COAT, #78M STONE	ASPHALT SURFACE TREATMENT, MAT COAT, #67 STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	ADJUSTMENT OF METER BOXES OR VALVE BOXES	TEMPORARY SILT FENCE	WATTLE	SEEDING & MULCHING	INDUCTIVE LOOP SAW CUT (DEEP CUT)
							MI	CY	TONS	SMI	TON	SY	SY	TONS	TON	TON	SY	SY	GAL	EA	LF	LF	AC	LF
2025CPT.07.10.10171	Caswell	1	NC-62	FROM US-158 TO VIRGINIA STATE LINE	1,2	2	12.24	241	585	24.11	684	1,037	867	16,037	1,062	416	169,771		56,025	3	4,895	490	0.88	652
	TOTAL	FOR MAP N	NO. 1				12.24	241	585	24.11	684	1,037	867	16,037	1,062	416	169,771		56,025	3	4,895	490	0.88	652
2025CPT.07.10.10171	Caswell	2	NC-87	FROM ALAMANCE COUNTY LINE TO ROCKINGHAM COUNTY LINE	3	2	2.02	41	180	4.07	115		421	3,014	196			30,684	11,660		813	81	0.15	
	TOTAL	FOR MAP N	NO. 2				2.02	41	180	4.07	115		421	3,014	196			30,684	11,660		813	81	0.15	
TOTAL F	OR PROJ N	O. 2025C	PT.07.10.10171				14.26	282	765	28.18	799	1,037	1,288	19,051	1,258	416	169,771	30,684	67,685	3	5,708	571	1.03	652
2025CPT.07.10.20171	Caswell	3	SR-1004 / CORBETT RIDGE RD	FROM ORANGE COUNTY LINE TO NC-86	1	2	5.23	105	225	10.45	296		433	5,891	384	25	63,410		20,925		2,090	209	0.38	
			5.23	105	225	10.45	296		433	5,891	384	25	63,410		20,925		2,090		0.38					
TOTAL F	TOTAL FOR PROJ NO. 2025CPT.07.10.20171						5.23	105	225	10.45	296		433	5,891	384	25	63,410		20,925		2,090		0.38	
	GR	AND TOTA					19.49	387	990	38.63	1,095	1,037	1,721	24,942	1,642	441	233,181	30,684	88,610	3	7,798	780	1.41	652

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

PROJECT NO.	SHEET NO.	TOTAL NO.				
2025CPT.07.10.10171,	16	16				
2025CPT.07.10.20171	10	10				

THERMOPLASTIC AND PAINT QUANTITIES

					4413000000-E	4457000000-N	- 468500000-E		4687000000-E	4688000000-E		4700000000-E 4709000000-E		4720000000-E		4725000000-E	4895000000-N			
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" X 240 MILS WHITE THERMO	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	12" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO MSG STOP 90 M	THERMO MSG AHEAD 90 M	THERMO RT ARROW 90 M	POLYCARBONATE H-SHAPED MARKERS YELLOW/YELLOW
							MI	SF	LS	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA
2025CPT.07.10.10171	Caswell	1	NC-62	FROM US-158 TO VIRGINIA STATE LINE	1,2	2	12.24	1,371	0.65				132,000	117,000		110				830
TOTAL FOR MAP NO. 1					12.24	1,371	0.65				132,000	117,000		110				830		
2025CPT.07.10.10171	Caswell	2	NC-87	FROM ALAMANCE COUNTY LINE TO ROCKINGHAM COUNTY LINE	3	2	2.02	228	0.12			450	23,000	19,000	90	65	24	10	1	160
	TOTAL F	OR MAP	NO. 2				2.02	228	0.12			450	23,000	19,000	90	65	24	10	1	160
TOTAL FOR PROJ NO. 2025CPT.07.10.10171						14.26	1,599	0.77			450	155,000	136,000	90	175	24	10	1	990	
TOTAL	ON I NOT N	J. 20230	71 1.07.10.101/1										291	,000			3	34		
2025CPT.07.10.20171	Caswell	3	SR-1004 / CORBETT RIDGE RD	FROM ORANGE COUNTY LINE TO NC-86	1	2	5.23	585	0.23	56,000	39,000		100							
TOTAL FOR MAP NO. 3			_	_	5.23	585	0.23	56,000	39,000		100									
TOTAL FOR PROJ NO. 2025CPT.07.10.20171						5.23	585	0.23	56,000	39,000		100								
									95,	000		10	00							
			•																	
	GRA	AND TOTA					19.49	2,184	1.00	56,000	39,000	450	155,100		90	175	24	10	1	990
3.4.1.2.1.3.1.2									95,0	000		291	,100			3	34			

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.