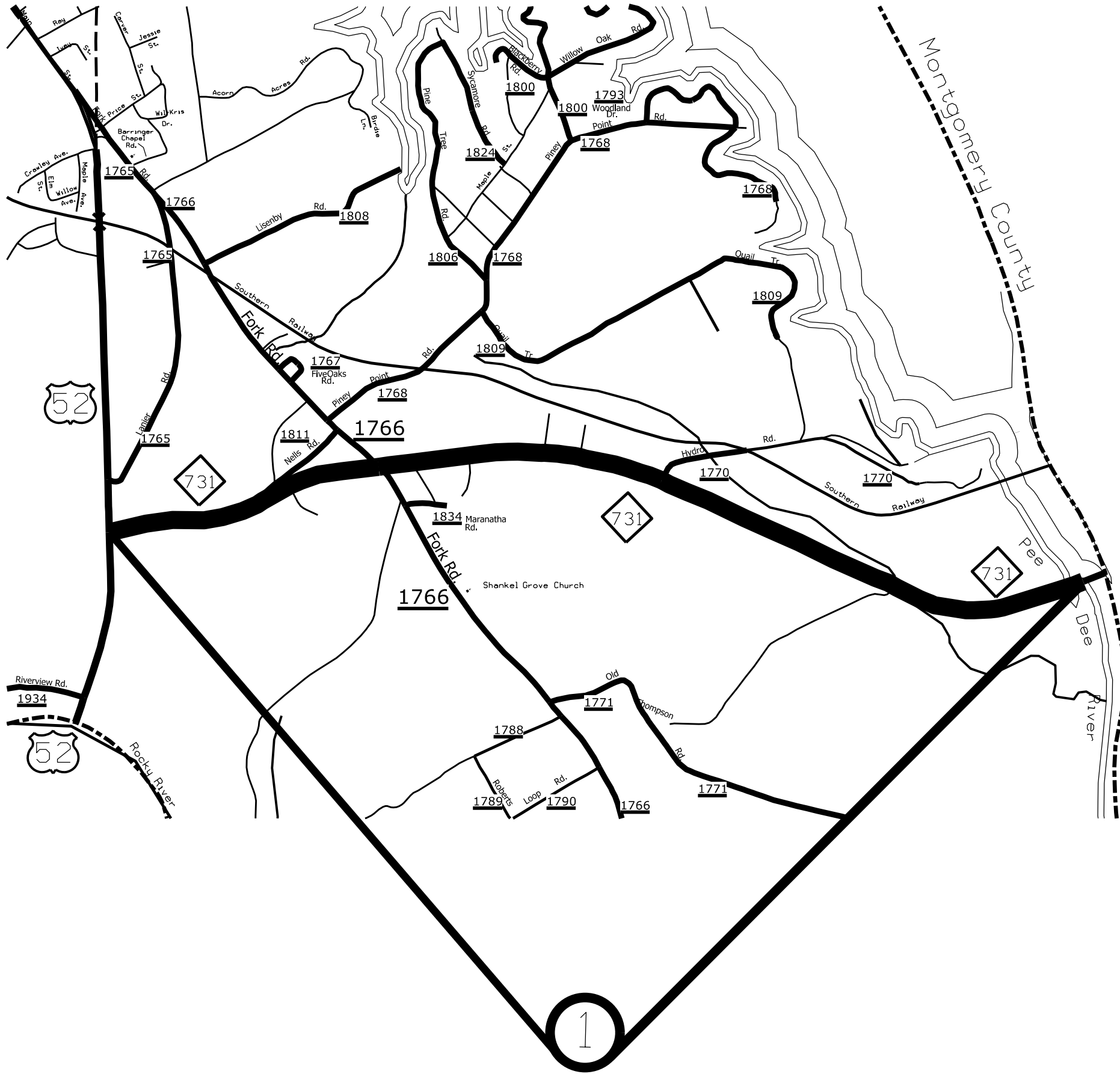




Norwood



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	1	10
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

STANLY COUNTY

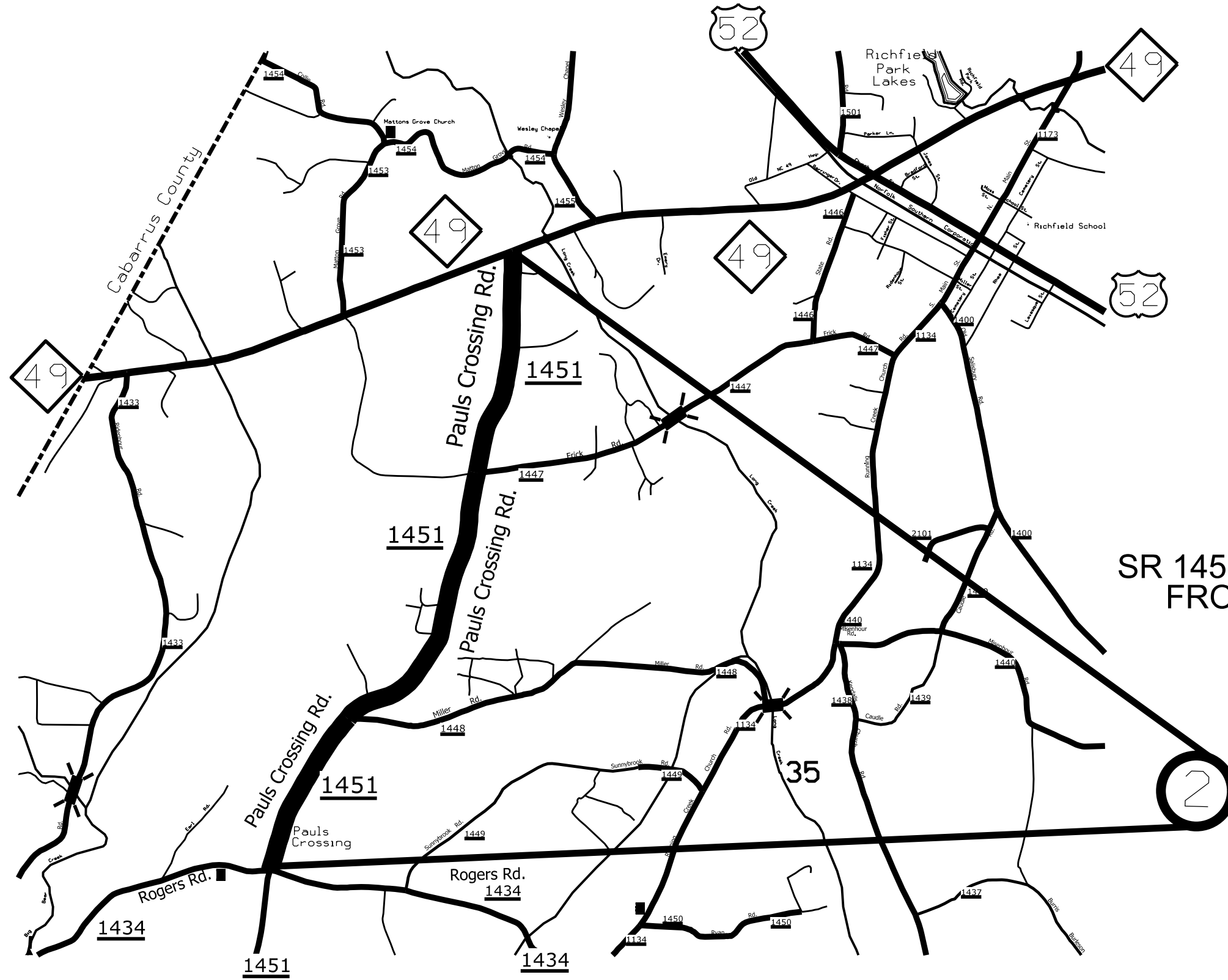
NORTH CAROLINA

PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

MAP #1
NC 731 2.85 MILES
FROM US 52 (MP 0.00)
TO THE COUNTY LINE (MP 2.85)

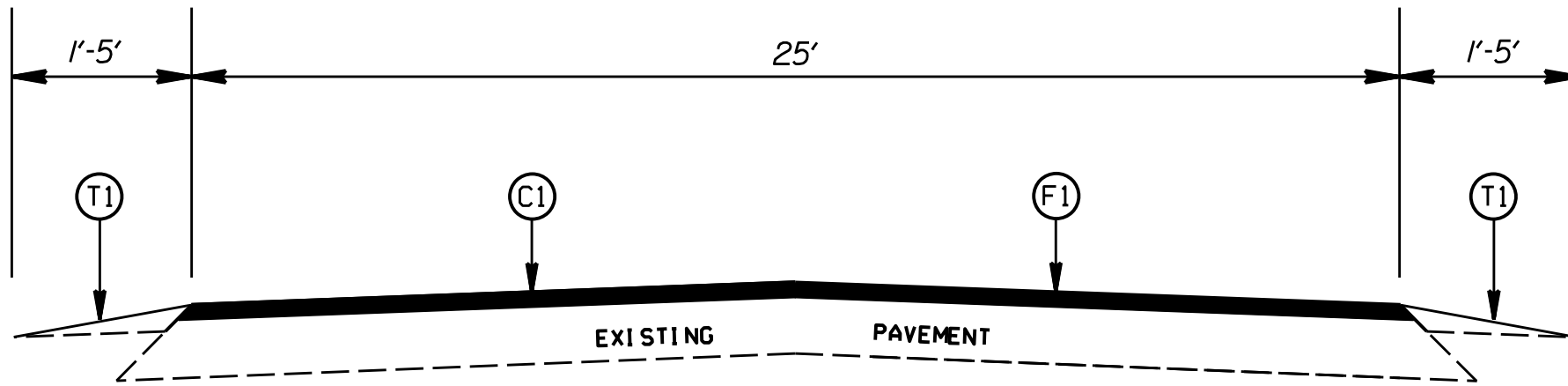
1

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	2	10
F.A. PROJECT NO.			

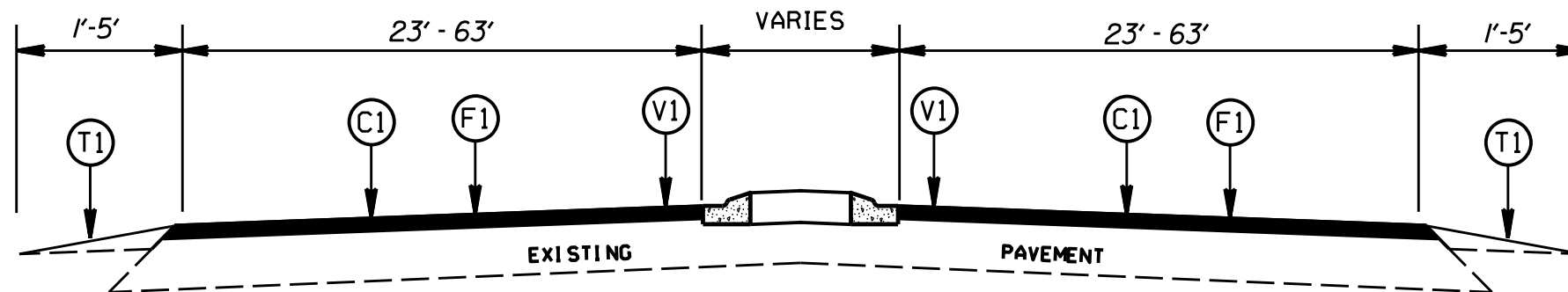


ENLARGED MUNICIPAL AND SUBURBAN AREAS
STANLY COUNTY
NORTH CAROLINA
PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 1

MAP #2
SR 1451 (PAULS CROSSING ROAD) 2.84 MILES
FROM SR 1434 (ROGERS ROAD) (MP 2.07)
TO NC 49 (MP 4.91)

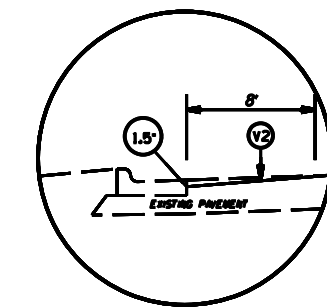


TYPICAL SECTION NO. 1
NC 731

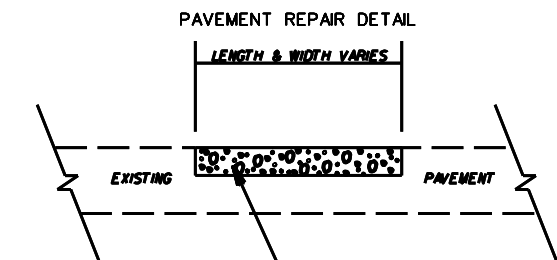


TYPICAL SECTION NO. 2
NC 731

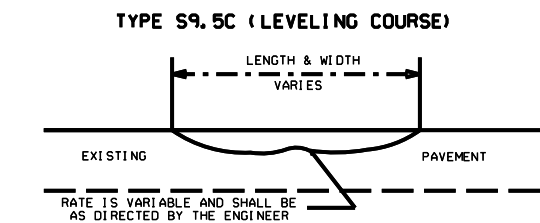
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	3	10
F.A. PROJECT NO.			



DETAIL FOR PROFILE MILLING (0' TO 1.5')



PAVEMENT REPAIR DETAIL
RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE 195DC SHALL BE PLACED.



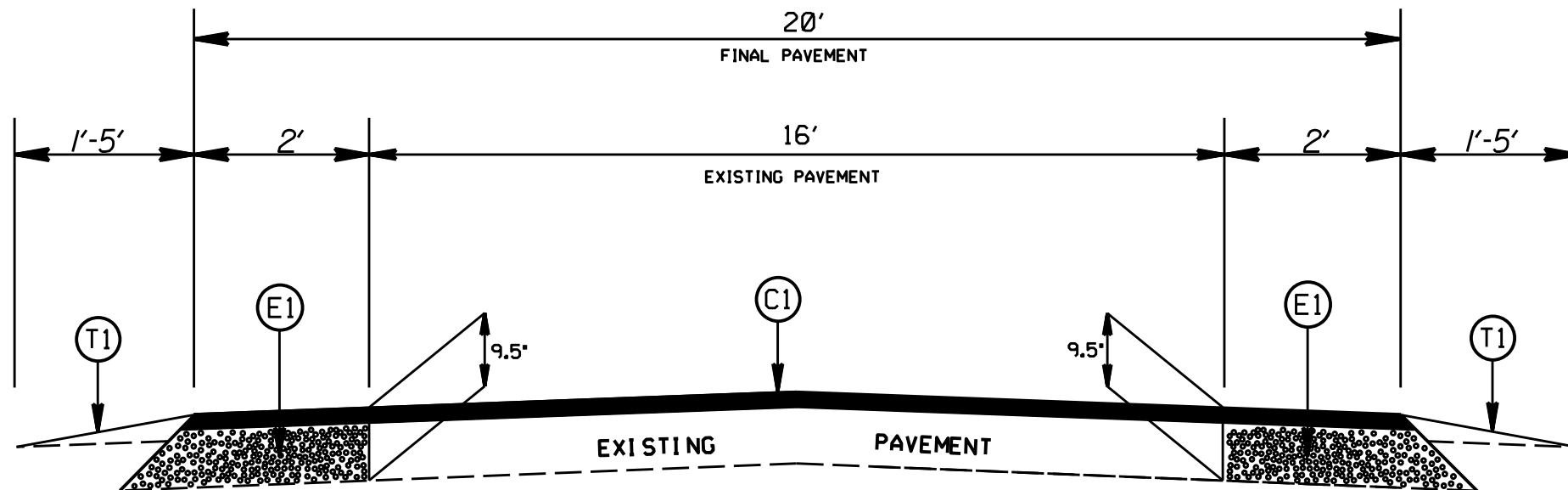
TYPE S9.5C (LEVELING COURSE)
RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE PF 168 LBS. PER SQ. YDS.
E1	PROP. APPROX. 8" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
F1	ASPHALT SURFACE TREATMENT, MATCOAT, #78 STONE
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING OF EXISTING ASPHALT, 0"-1.5" (8' WIDTH)

NOTES:
1. LEVELING COURSE TO BE PLACED AS DIRECTED BY THE ENGINEER

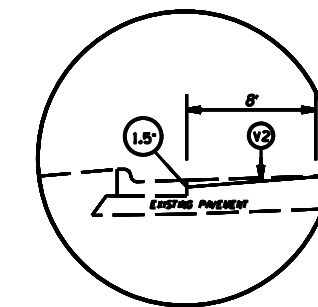
STANLY COUNTY
RESURFACING SPRING 2021

SCALE	-NA-		REVISIONS
DATE	12/20		
DWG. BY	JWH		
DESIGN BY	JWH		
APPROVED			

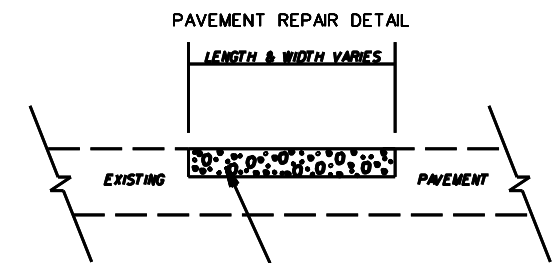


TYPICAL SECTION NO. 3
SR 1451 (PAULS CROSSING ROAD)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	4	10
F.A. PROJECT NO.			

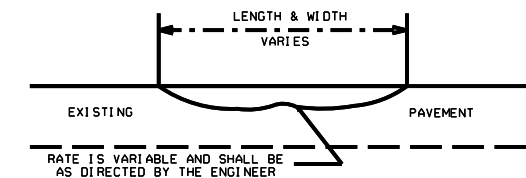


DETAIL FOR PROFILE MILLING (0' TO 1.5')



PAVEMENT REPAIR DETAIL
RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE 190C SHALL BE PLACED.

TYPE S9.5C (LEVELING COURSE)



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.50" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE PF 168 LBS. PER SQ. YDS.
E1	PROP. APPROX. 8" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
F1	ASPHALT SURFACE TREATMENT, MATCOAT, #78 STONE
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING OF EXISTING ASPHALT, 0'-1.5' (8' WIDTH)

NOTES:
1. LEVELING COURSE TO BE PLACED AS DIRECTED BY THE ENGINEER

STANLY COUNTY
RESURFACING SPRING 2021

SCALE	-NA-		REVISIONS
DATE	12/20		
DWG. BY	JWH		
DESIGN BY	JWH		
APPROVED			

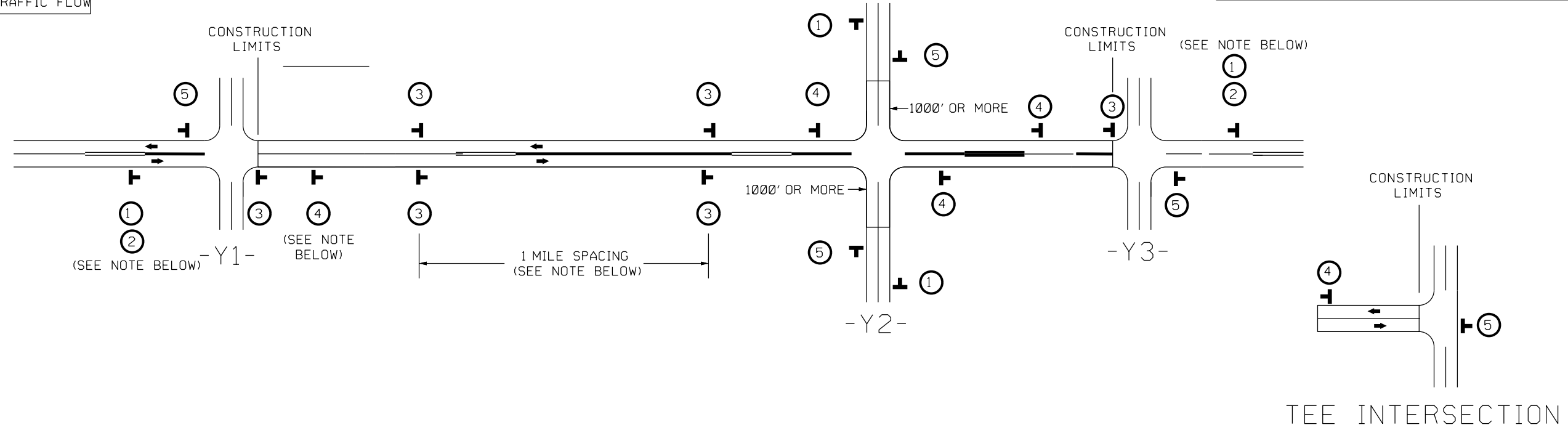
SIGNING FOR RESURFACING PROJECTS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	5	10
F.A. PROJECT NO.			

LEGEND

▬ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<p>① </p> <p>② </p> <p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>*2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <p>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS</p> <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> <p></p> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> <p></p> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p>
	<p>③ </p> <p>- 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.</p>	
	<p>④ </p> <p>- 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.</p>	
	<p>⑤ </p> <p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>	
	<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>	

MAPS LESS THAN 2 MILES

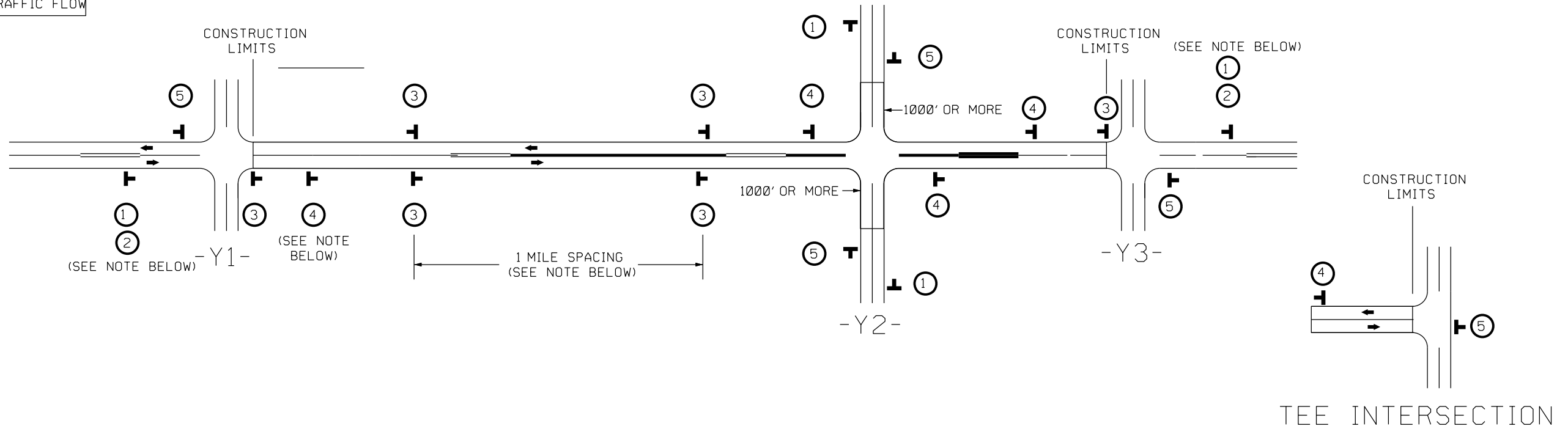
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNING SIGNS.

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

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	6	10
F.A. PROJECT NO.			

SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND	
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

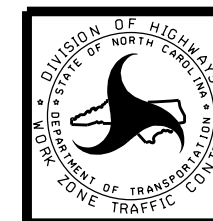
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<p>① W20-1 48" X 48"</p> <p>② W7-3aP 24" X 18"</p> <p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>*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)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <p>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS</p> <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> <p> W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER.</p> <p> W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.</p>
	<p>③ W8-7 48" X 48"</p> <p> SP 48" X 48"</p> <p>- ALTERNATE THE FOLLOWING TWO SIGNS:</p> <p>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT"</p> <p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</p>	
	<p>④ SP 13106 48" X 48"</p> <p>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</p> <p>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</p> <p>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</p> <p>- 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.</p> <p>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p> <p>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</p>	
	<p>⑤ G20-2 A 48" X 24"</p> <p>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.

MAPS LESS THAN 2 MILES

FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.

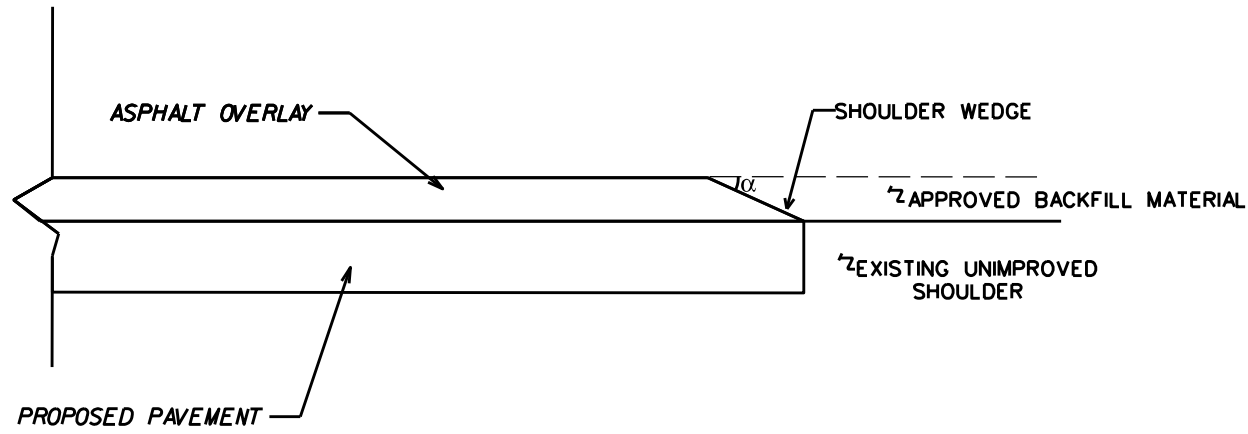


ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

NOTES:

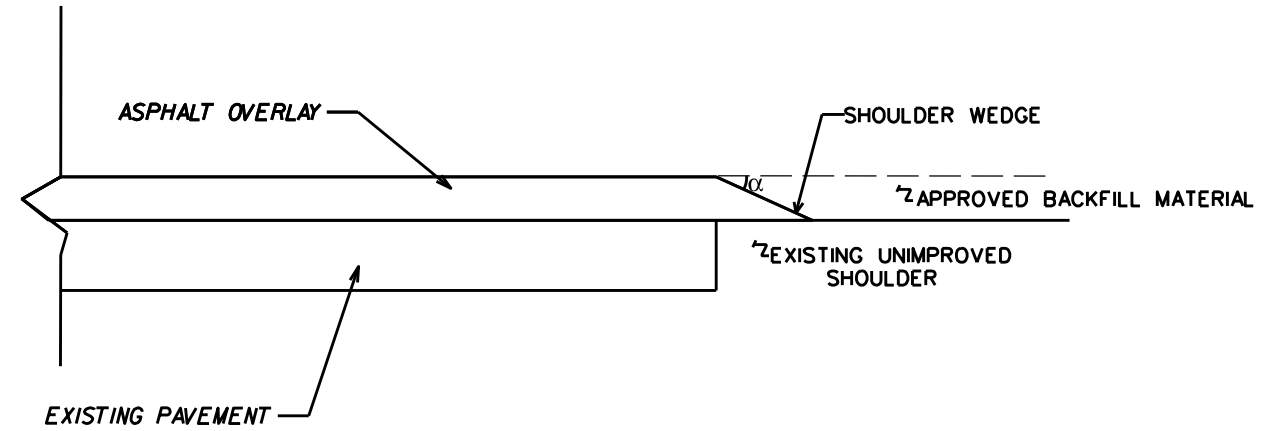
- 1) DETAIL DOES NOT APPLY TO OGAFCC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	7	10
F.A. PROJECT NO.			



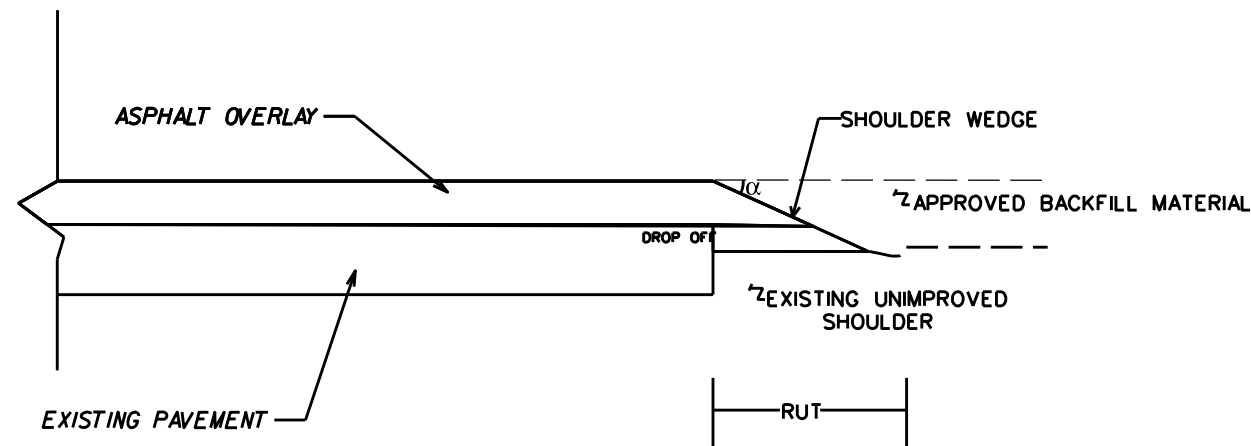
SHOULDER WEDGE DETAIL

(RESURFACING PROJECTS W/ WIDENING OR WITH EXISTING PAVED SHOILDER HAVING NO DROPOFFS)



SHOULDER WEDGE DETAIL

(RESURFACING PROJECTS W/ NO WIDENING)



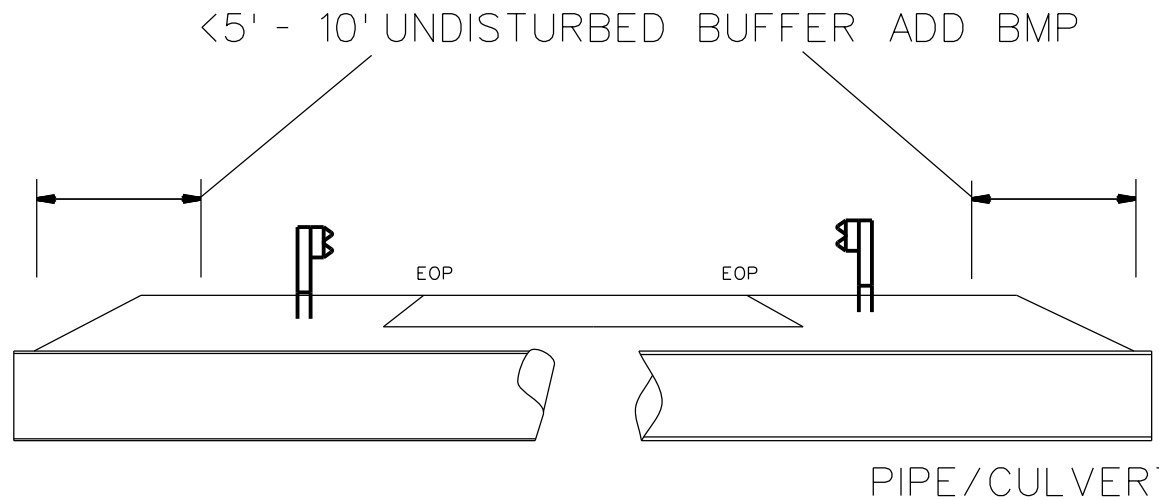
SHOULDER WEDGE DETAIL
(RESURFACING ADJACENT TO RUTTED SHOULDER)

$\alpha = 30$ DEGREES

SHOULDER WEDGE DETAILS			
SCALE	1/4"		REVISIONS
DATE	2/18		
DWG. BY	JAB		
DESIGN BY	JAB		
APPROVED	JAB		

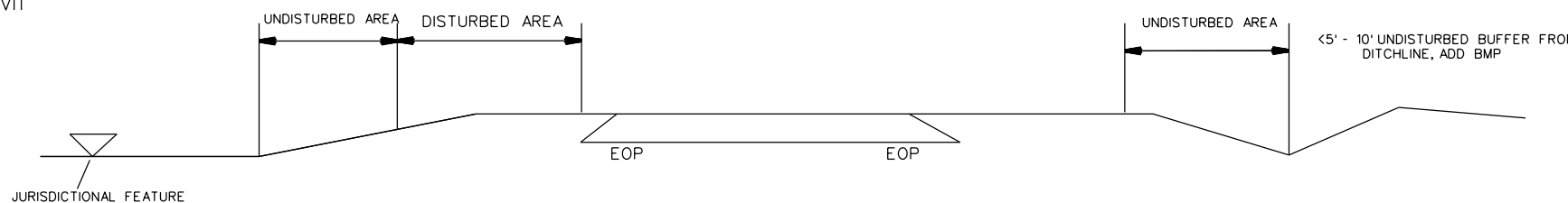
NOTES: LESS THAN 5' - 10' UNDISTURBED BUFFER FROM ROW, DITCHLINE, WATER FEATURE, OR DRAINAGE INLET, ADD BMP.

BMP OPTIONS: WATTLE OR SILT FENCE

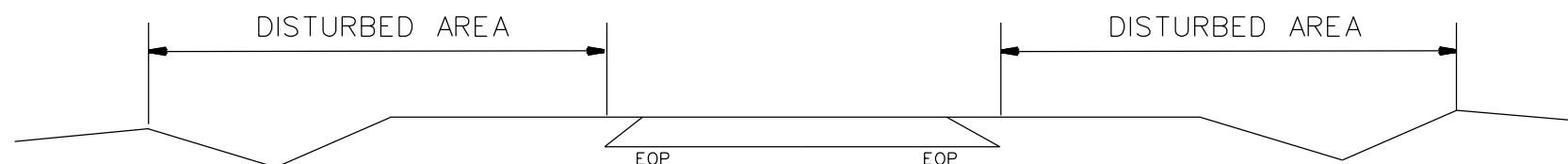


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.10.10841 2021CPT.10.10.20841	8	10
F.A. PROJECT NO.			

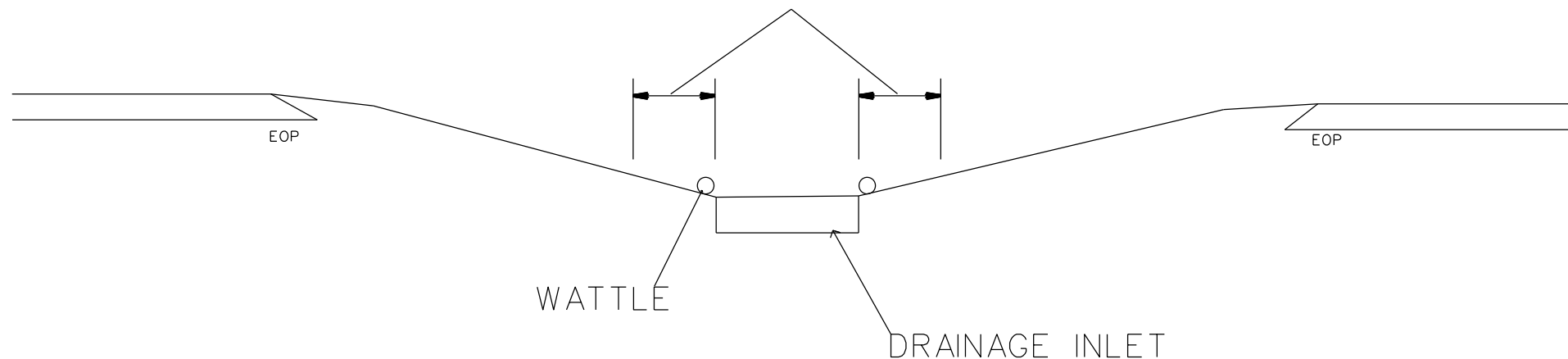
<5' - 10' UNDISTURBED BUFFER FROM JURISDICTIONAL FEATURE
ADD BMP



USE BMP'S IF SHOULDERS AND/OR FRONTSLOPES AND/OR DITCHLINE AND/OR BACKSLOPES ARE DISTURBED



<5' - 10' UNDISTURBED BUFFER FROM INLET, ADD WATTLE



EROSION CONTROL DETAIL

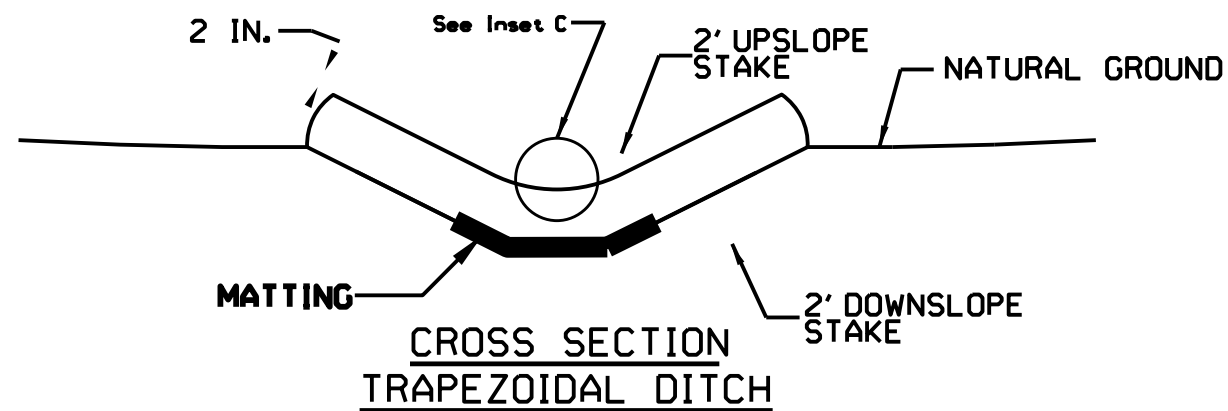
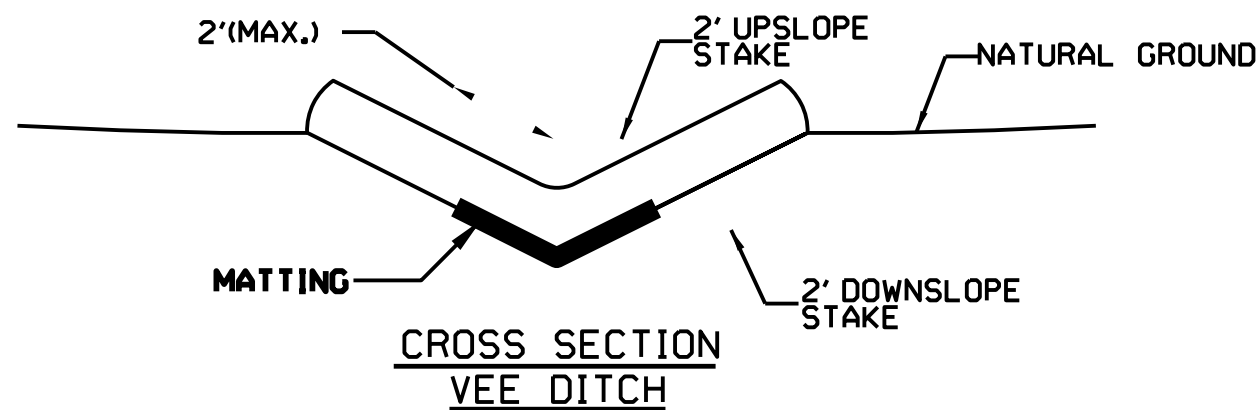
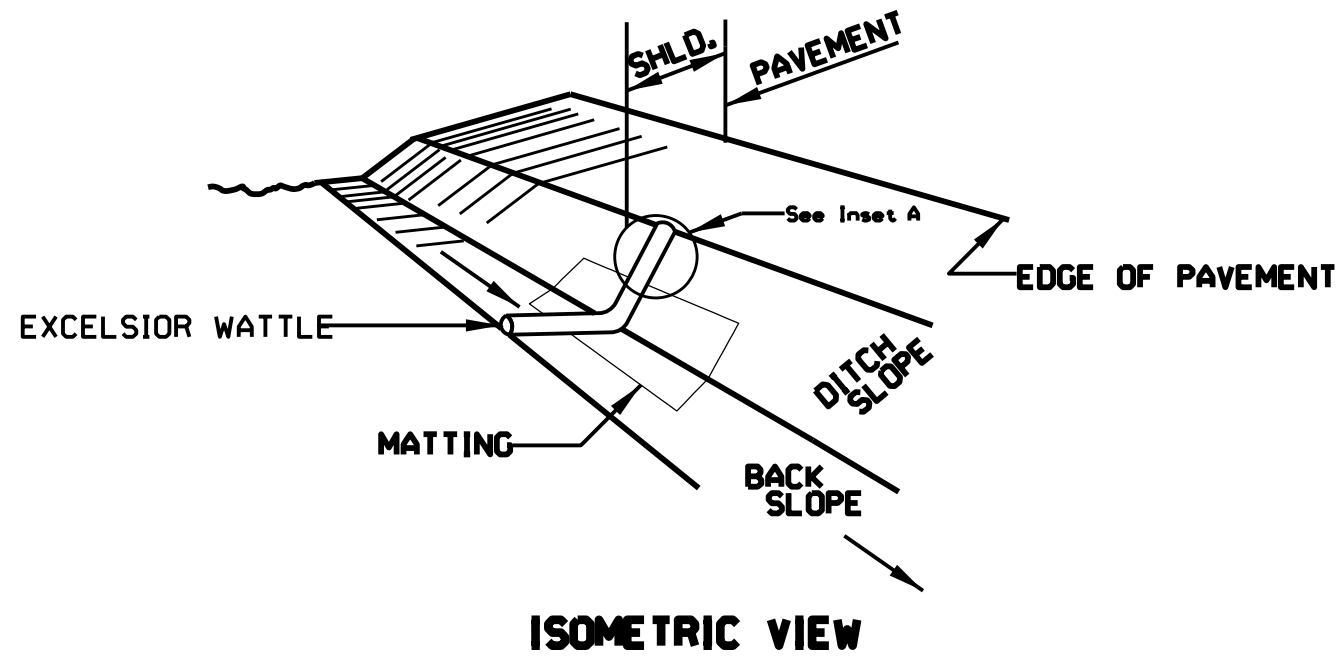
SCALE	-NA-
DATE	2/18
DWG. BY	JAB
DESIGN BY	JAB
APPROVED	JAB



REVISIONS

WATTLE WITH POLYACRYLAMIDE DETAIL

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT-10.10.10841 2021CPT-10.10.20841	9	10
F.A. PROJECT NO.			



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

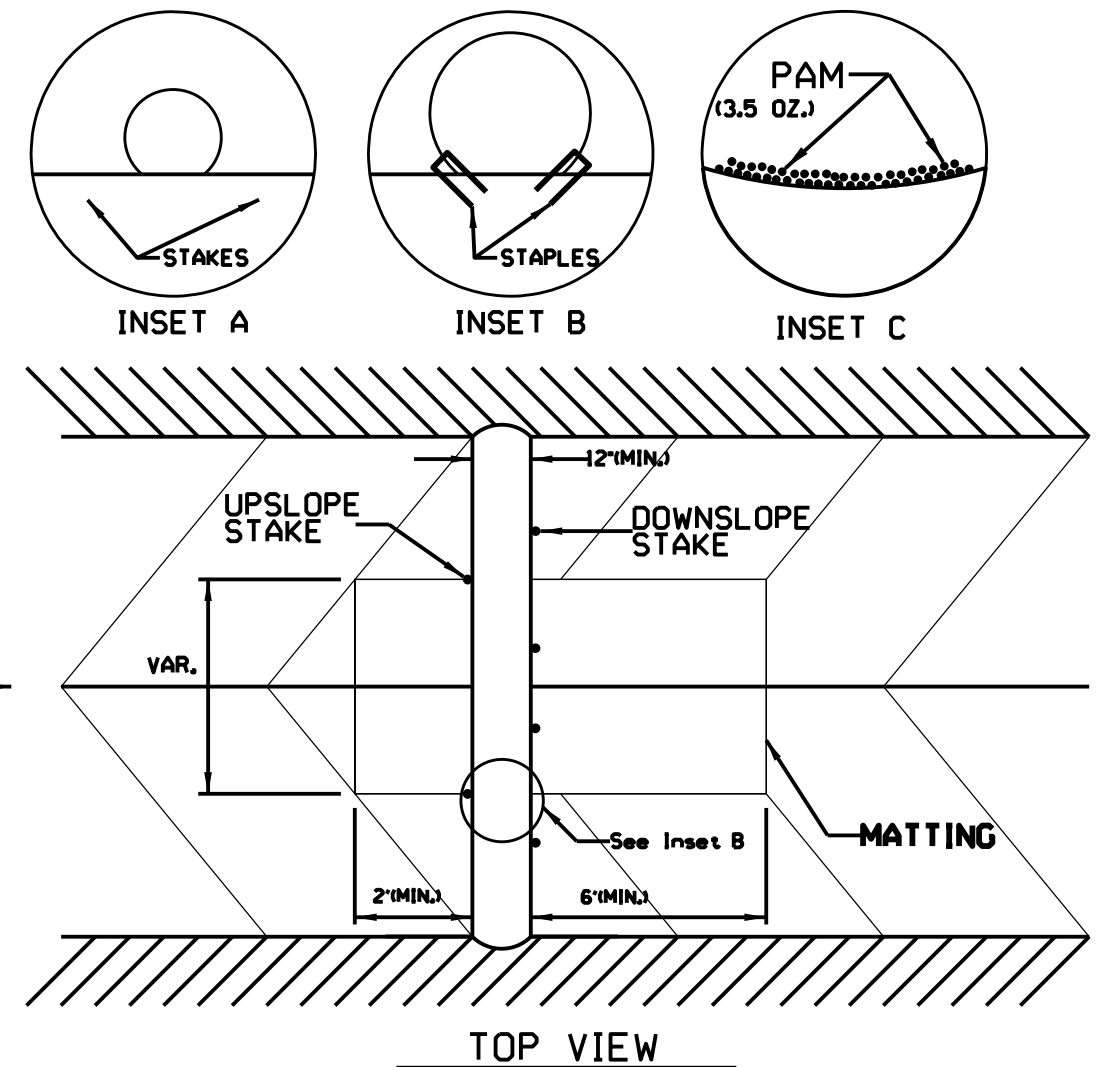
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.10.10.10841, 2021CPT.10.10.20841	10	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	0106000000-E	1220000000-E	1245000000-E	1308000000-E	1330000000-E	1491000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1775000000-E	1838000000-E	1838500000-N	2612000000-E	2845000000-N	6071010000-E	6071020000-E	
												BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	0.0" TO 1.5" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	6" DRIVEWAYS	ADJ. OF METER OR VALVE BOX	WATTLE	POLYACRYLAMIDE (PAM)	
										MI	FT	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	GAL	WK	SY	EA	LF	LB	
2021CPT.10.10.10841	Stanly	1	NC 731	FROM THE PAVEMENT JOINT AT US 52 (MP 0.0) TO COUNTY LINE (MP 2.85)		1,2	2		NO	NO	2.85	23	325	190	5.70	380	1,000		4,275	700	302	1,000	45,073	11,270	1.00	36		100	1
TOTAL FOR MAP NO. 1												325	190	5.70	380	1,000	4,275	700	302	1,000	45,073	11,270	1.00	36		100	1		
TOTAL FOR PROJ NO. 2021CPT.10.10.10841												325	190	5.70	380	1,000	4,275	700	302	1,000	45,073	11,270	1.00	36		100	1		
2021CPT.10.10.20841	Stanly	2	SR 1451 - PAULS CROSSING ROAD	FROM SR 1434 (ROGERS ROAD) (MP 2.07) TO NC 49 (MP 4.91)		3	2		NO	NO	2.84	20	300	150	5.68		500	3,300	3,300	994	411	1,300					5	200	1
TOTAL FOR MAP NO. 2												300	150	5.68		500	3,300	3,300	994	411	1,300					5	200	1	
TOTAL FOR PROJ NO. 2021CPT.10.10.20841												300	150	5.68		500	3,300	3,300	994	411	1,300					5	200	1	
GRAND TOTAL											625	340	11.38	380	1,500	3,300	7,575	1,694	713	2,300	45,073	11,270	1.00	36	5	300	2		

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E		4810000000-E		4835000000-E	4891000000-E	4895000000-N		
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" WHITE PAINT	4" YELLOW PAINT	24" WHITE PAINT	24" X 90 M WHITE THERMO	NON-CAST IRON SNOWPLOWABLE MARKER		
										SF	LS	LF	LF	LF	LF	LF	EA			
2021CPT.10.10.10841	Stanly	1	NC 731	FROM THE PAVEMENT JOINT AT US 52 (MP 0.0) TO COUNTY LINE (MP 2.85)		1,2	2	2.85	23	320.0	0.50	31,300	22,600				120	200		
TOTAL FOR MAP NO. 1											320.0	0.50	31,300	22,600			120	200		
TOTAL FOR PROJ NO. 2021CPT.10.10.10841											320.0	0.50	31,300	22,600			120	200		
											53,900									
2021CPT.10.10.20841	Stanly	2	SR 1451 - PAULS CROSSING ROAD	FROM SR 1434 (ROGERS ROAD) (MP 2.07) TO NC 49 (MP 4.91)		3	2	2.84	20	320.0	0.50			62,000	59,500	22				
TOTAL FOR MAP NO. 2											320	1			62,000	59,500	22			
TOTAL FOR PROJ NO. 2021CPT.10.10.20841											320	1			62,000	59,500	22			
											121,500									
GRAND TOTAL											640	1	31,300	22,600	62,000	59,500	22	120	200	
											53,900								121,500	