

Onslow County

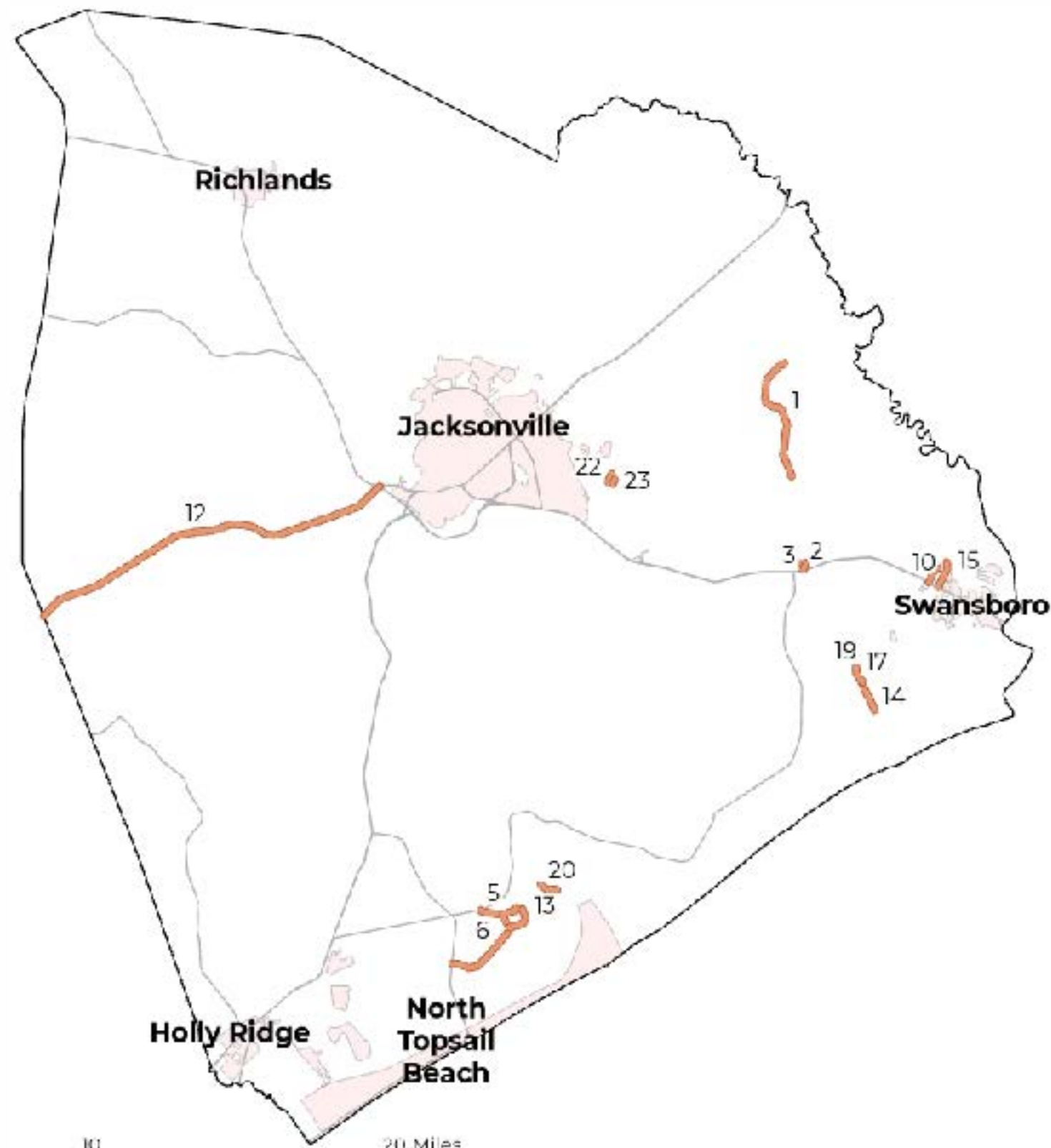
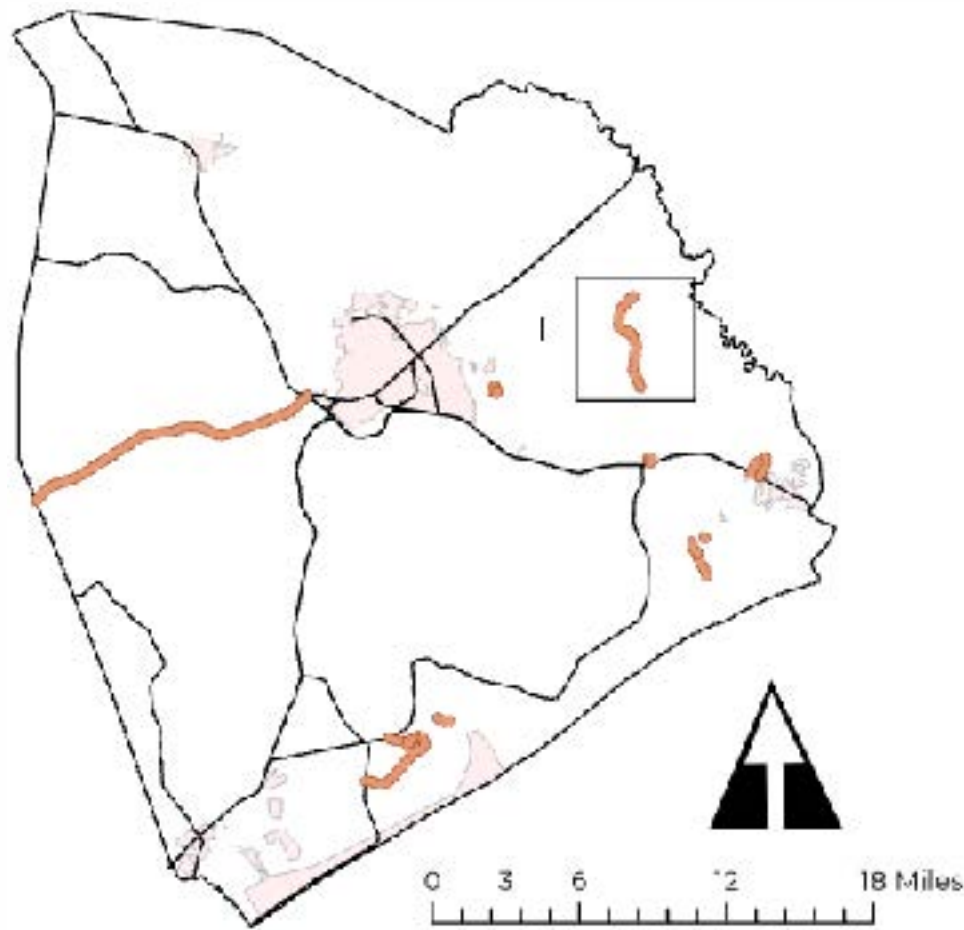


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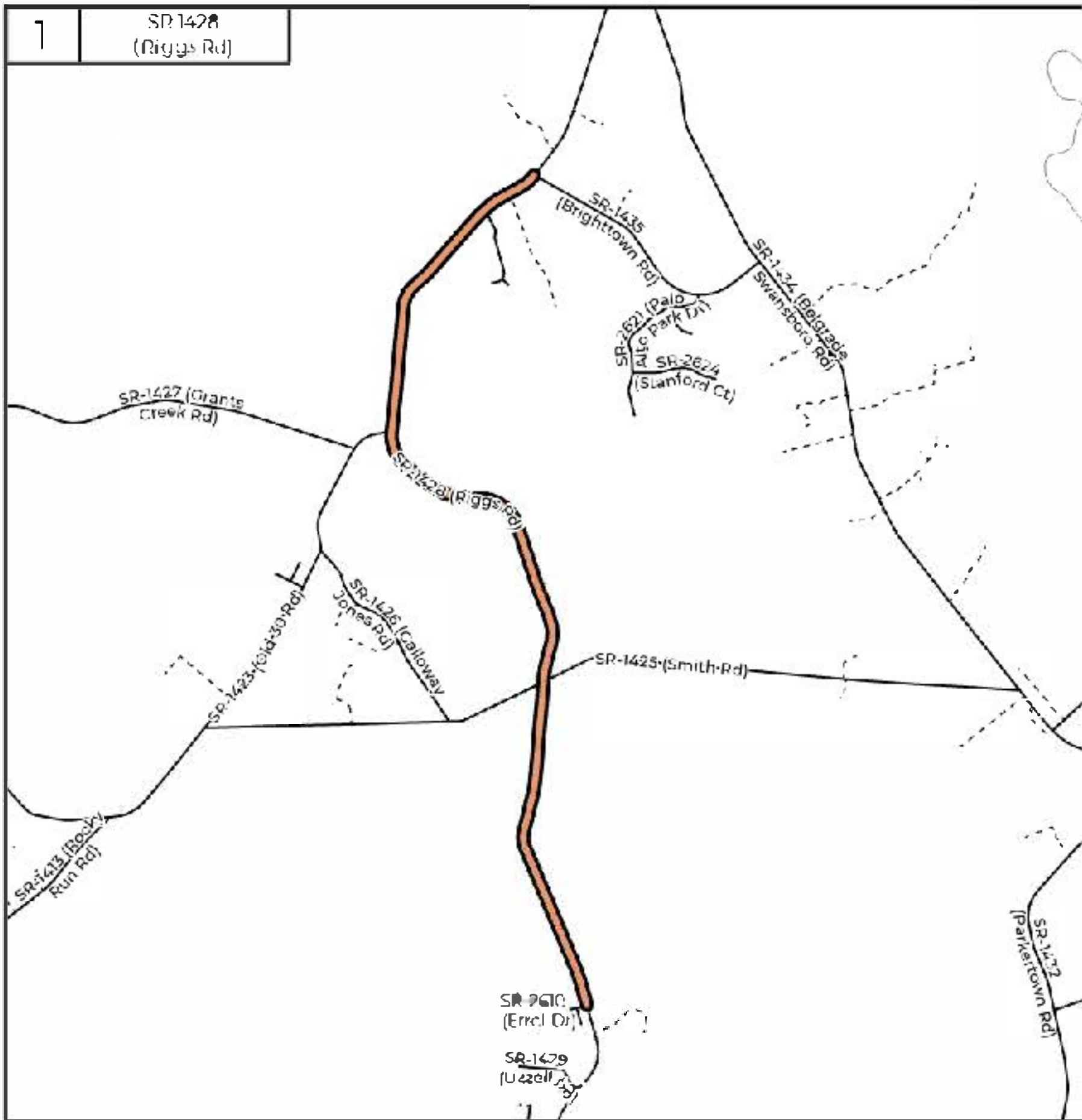
Maps	Sheet No.
1	2
2, 3, 5, 6, and 10	3
12-15, and 17	4
19, 20, 22, and 23	5

Onslow County 1



Legend

- Bridge
- State Maintained Road
- ▬ Road Section
- - - Municipality Road

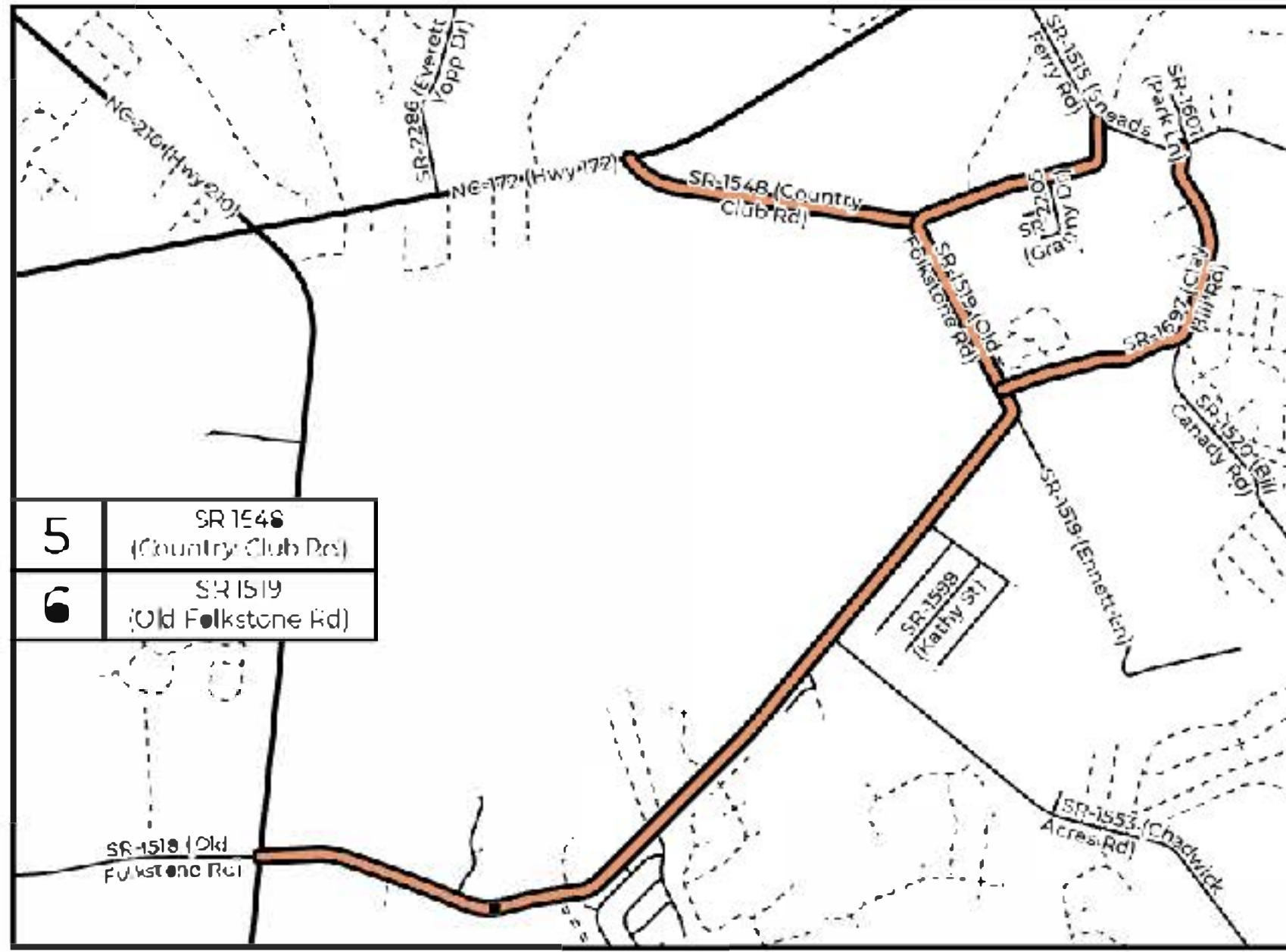
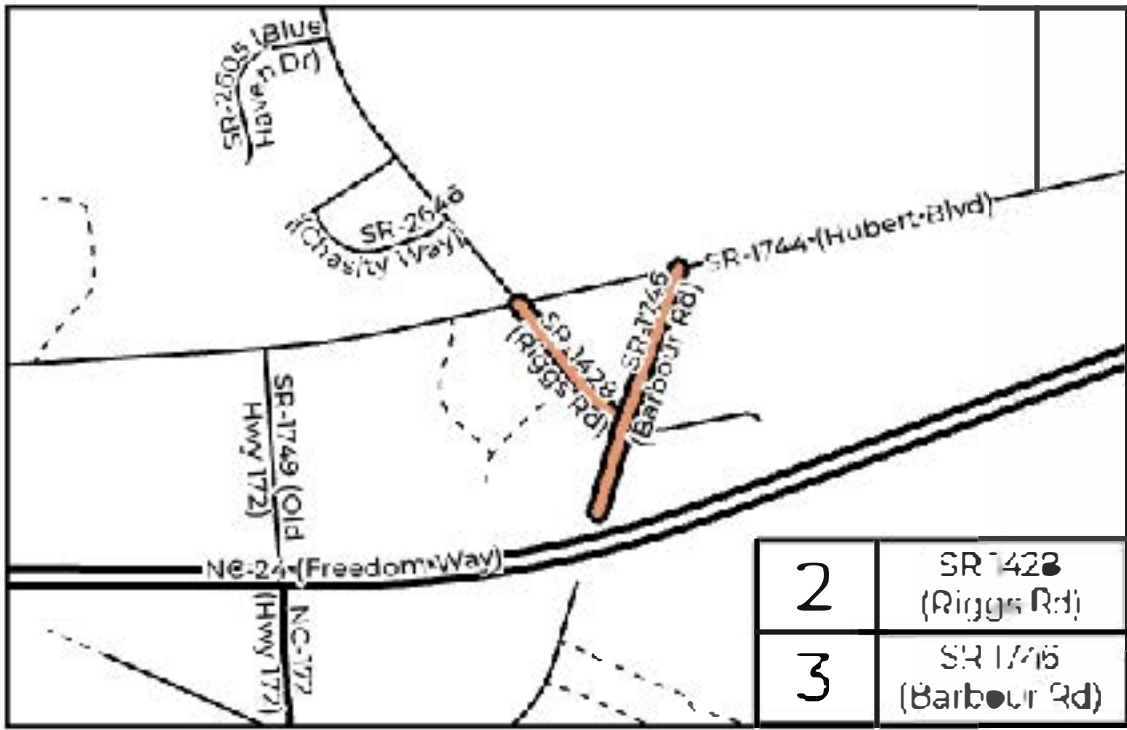
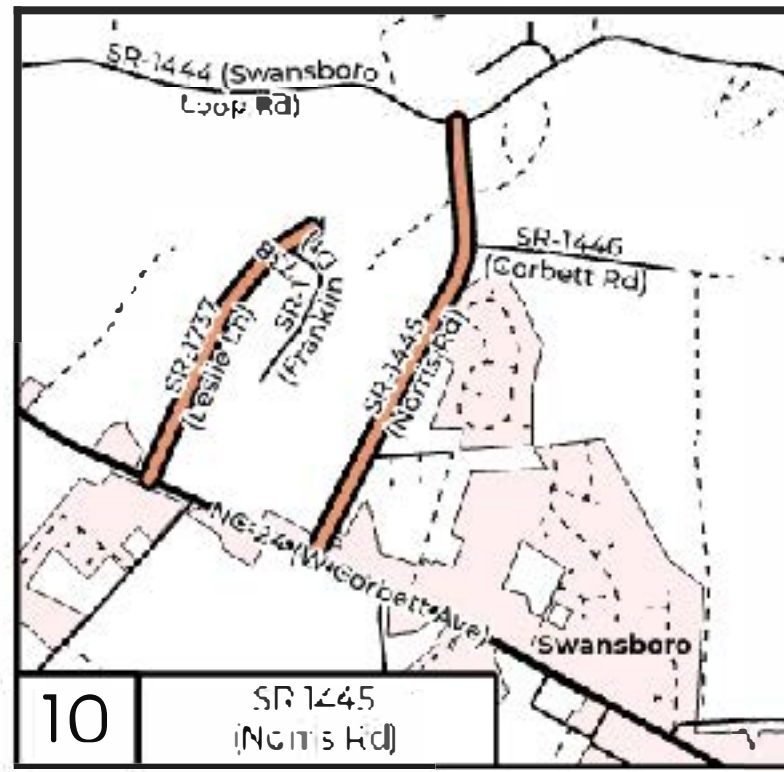
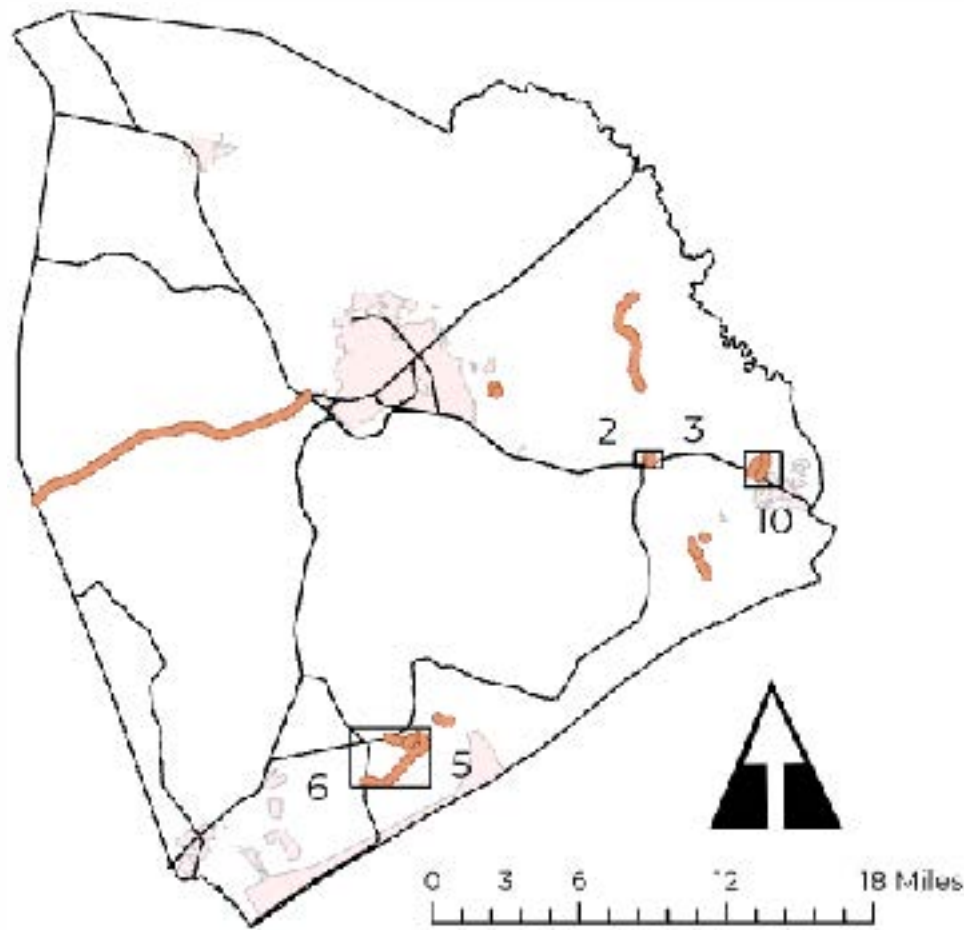


Onslow County 2, 3, 5, 6, and 10

PROJECT REFERENCE NO.	SHEET NO
2021C>TC305210672.ETC	3

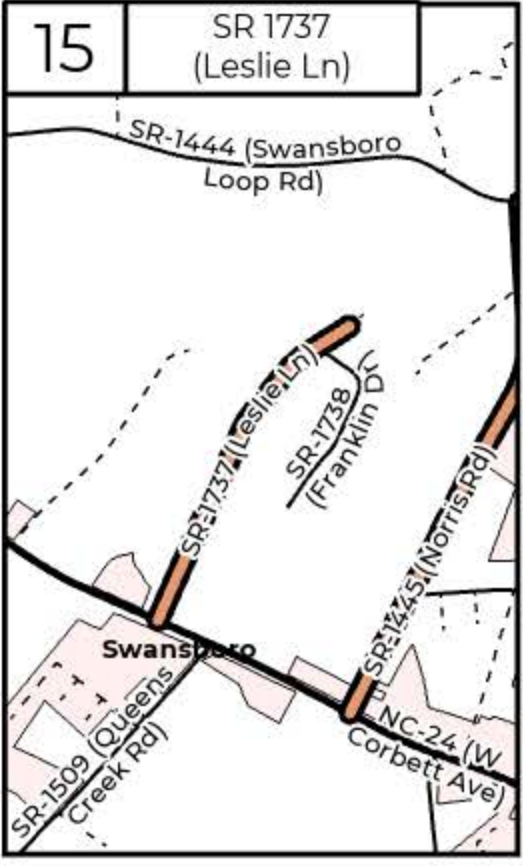
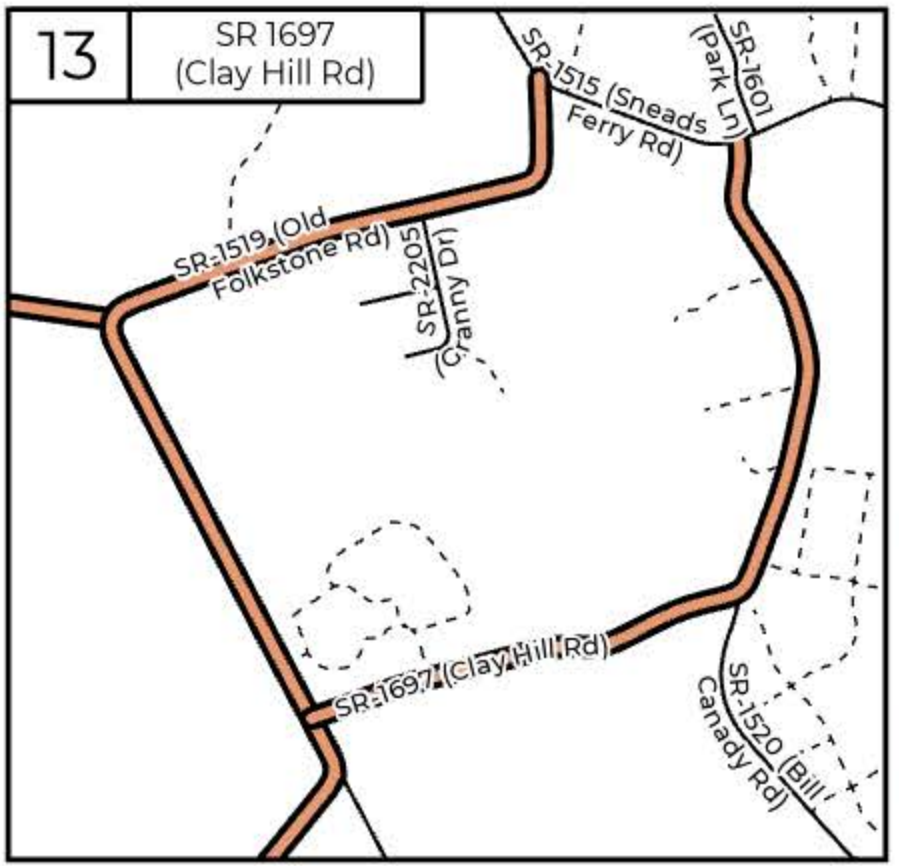
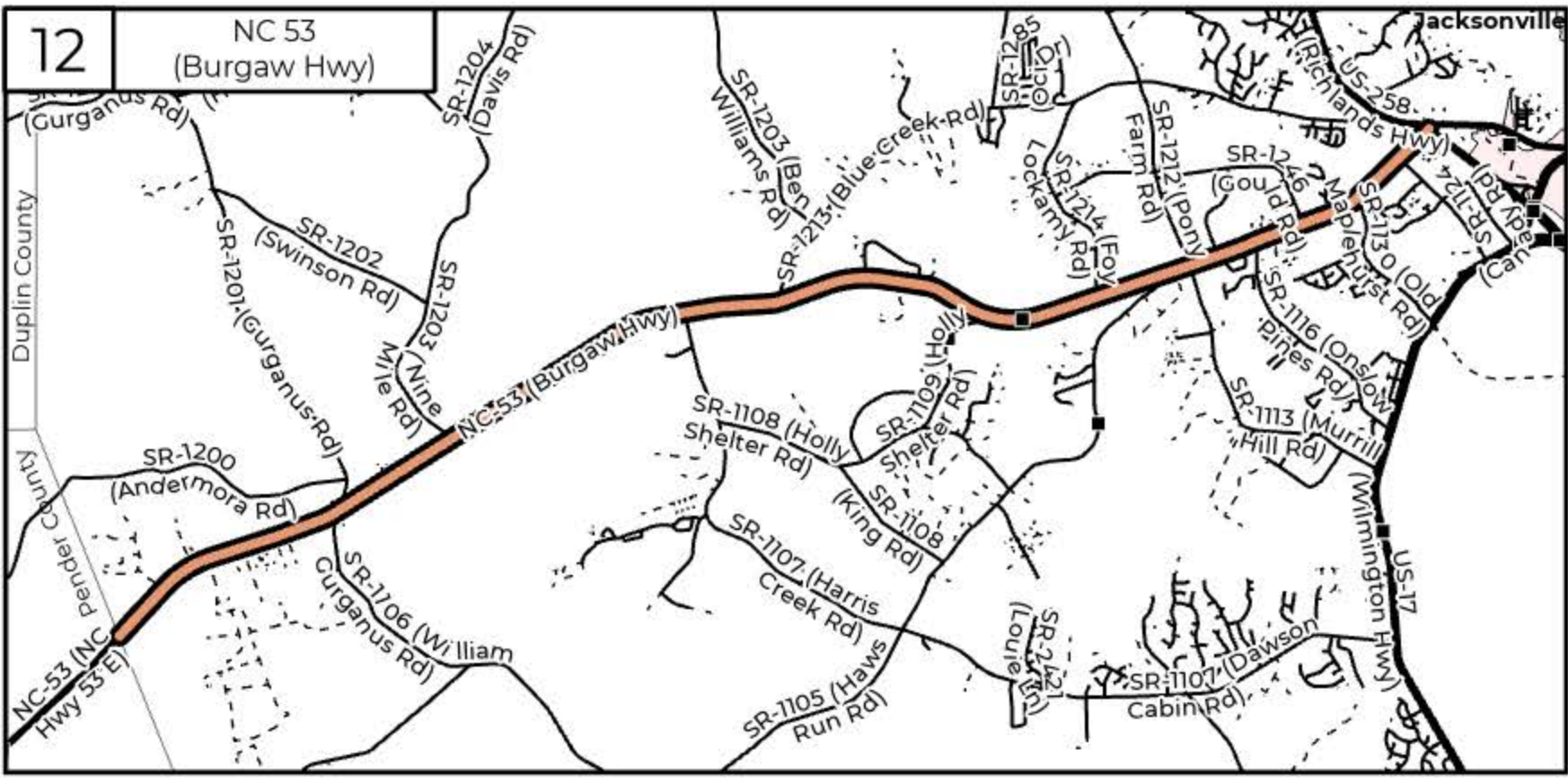
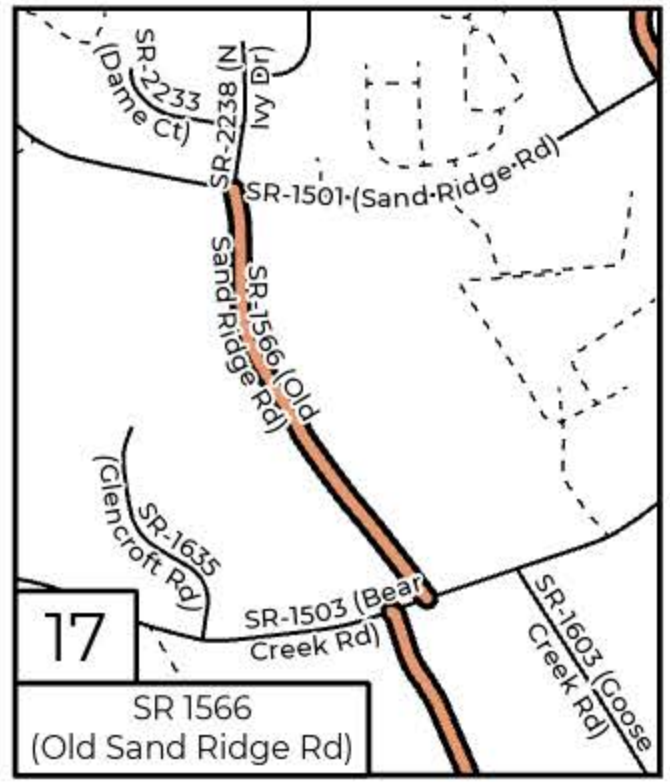
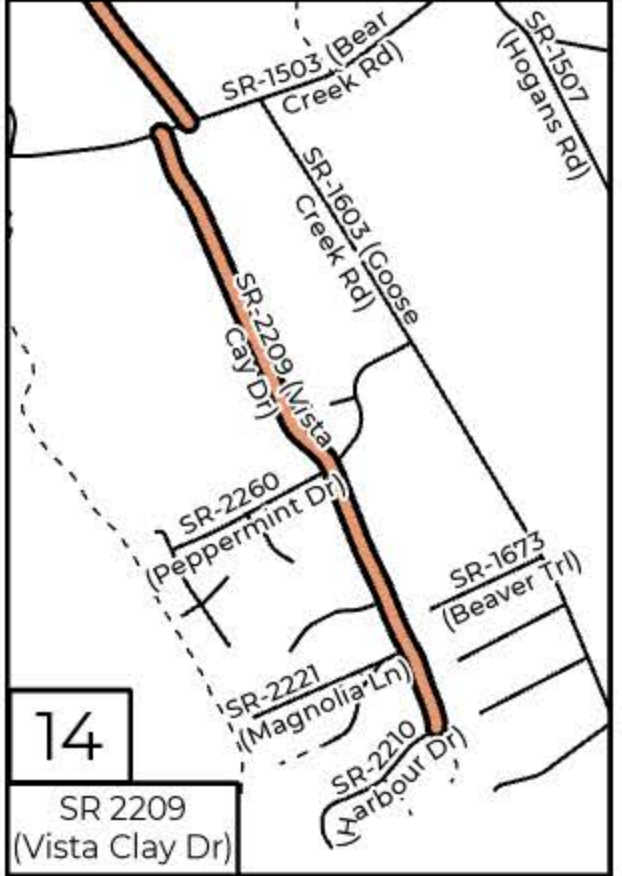
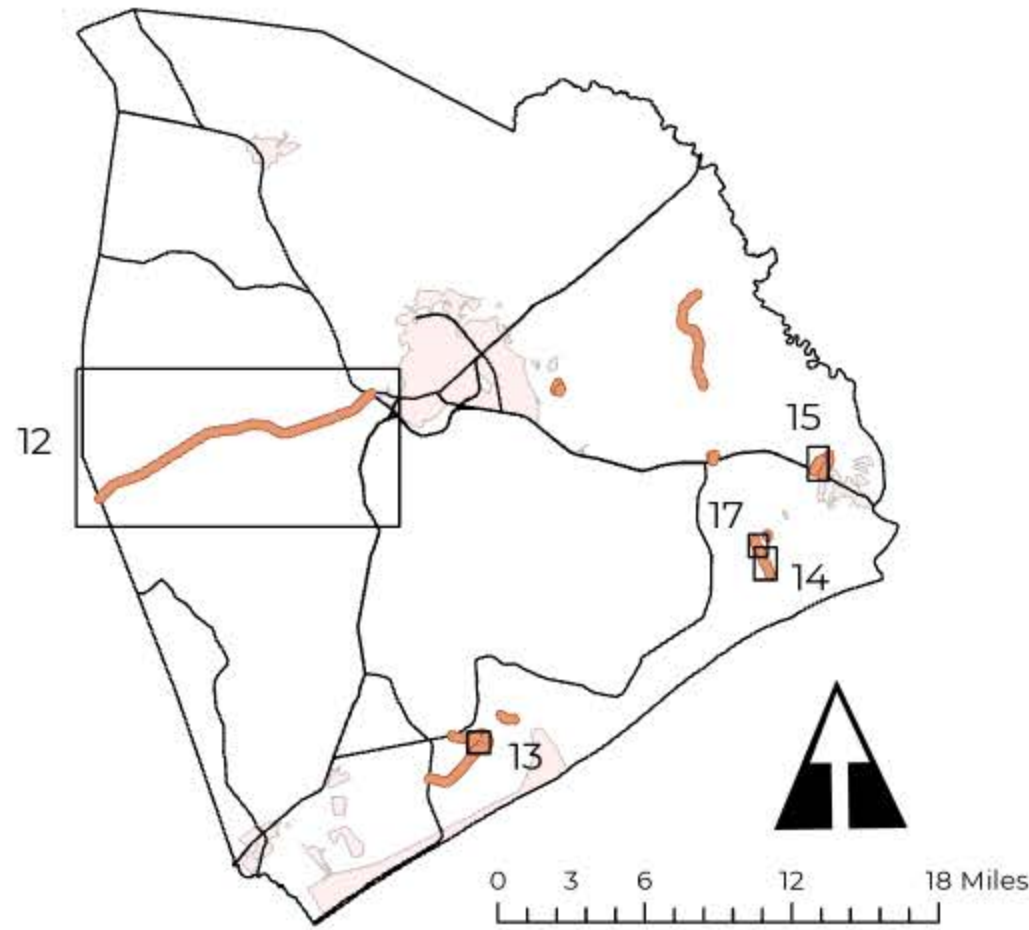
Legend

- Bridge
- State Maintained Road
- Road Closure
- - - Municipal Road

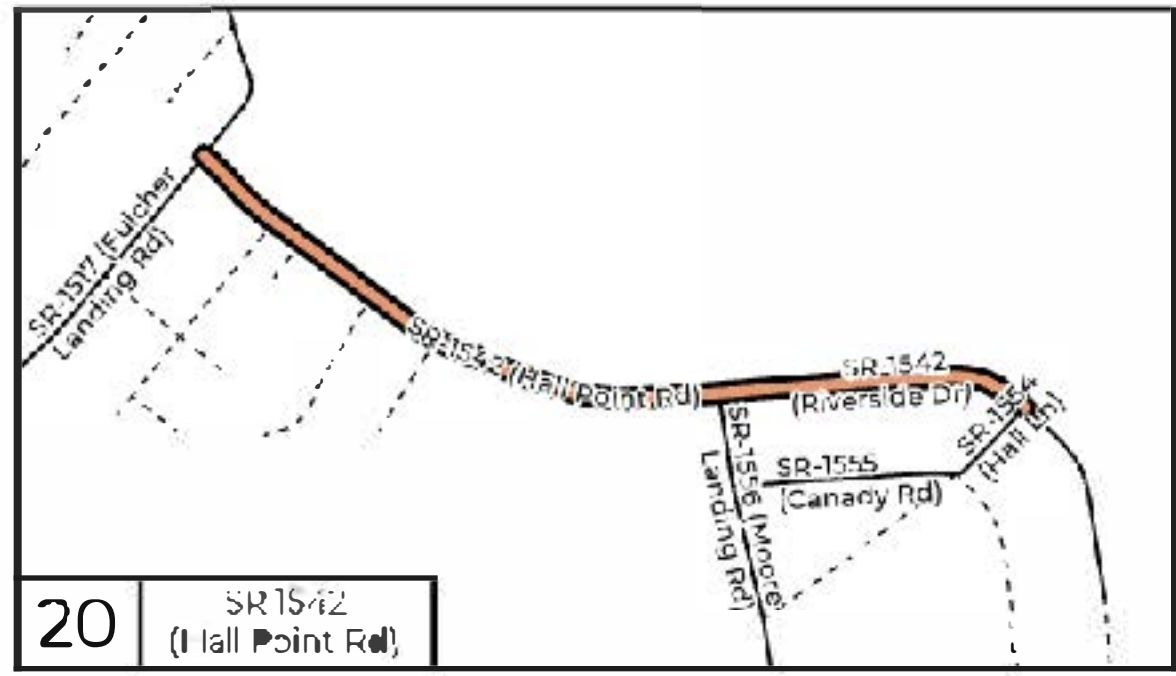
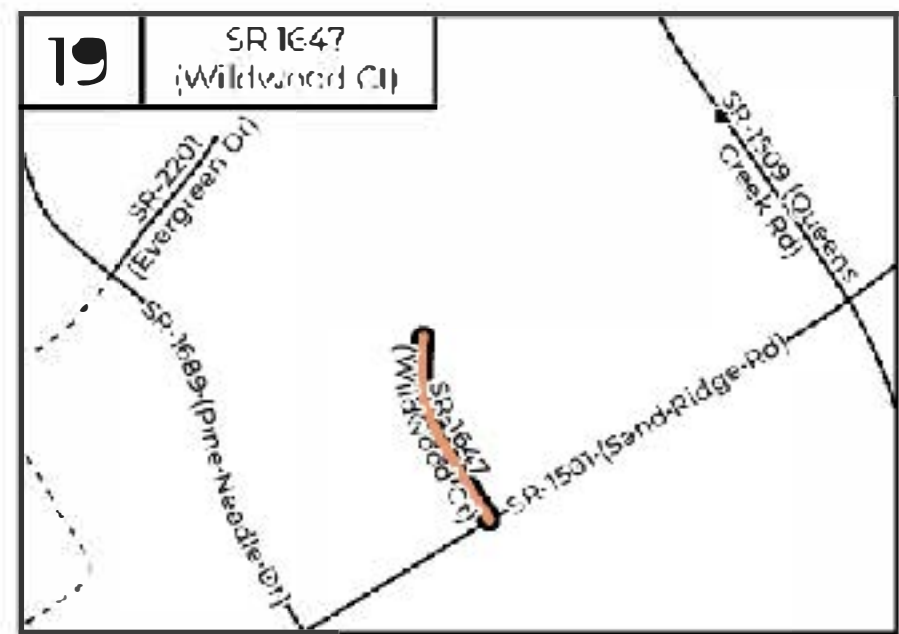
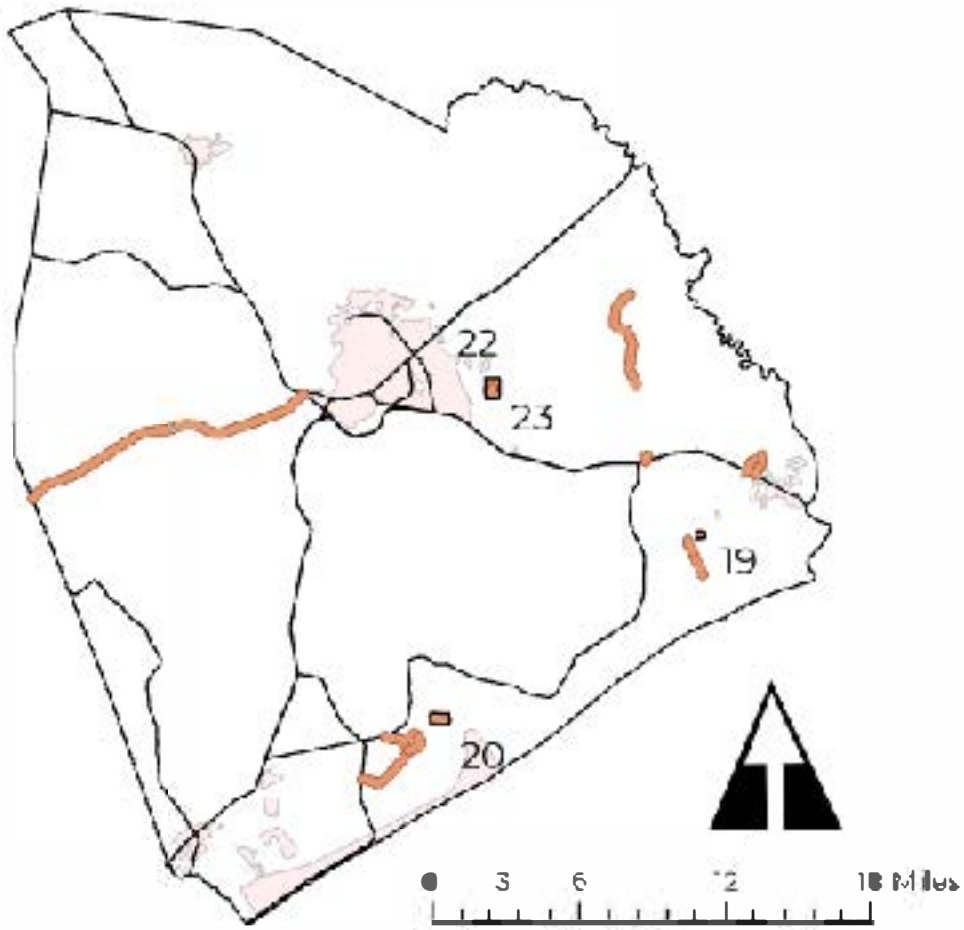


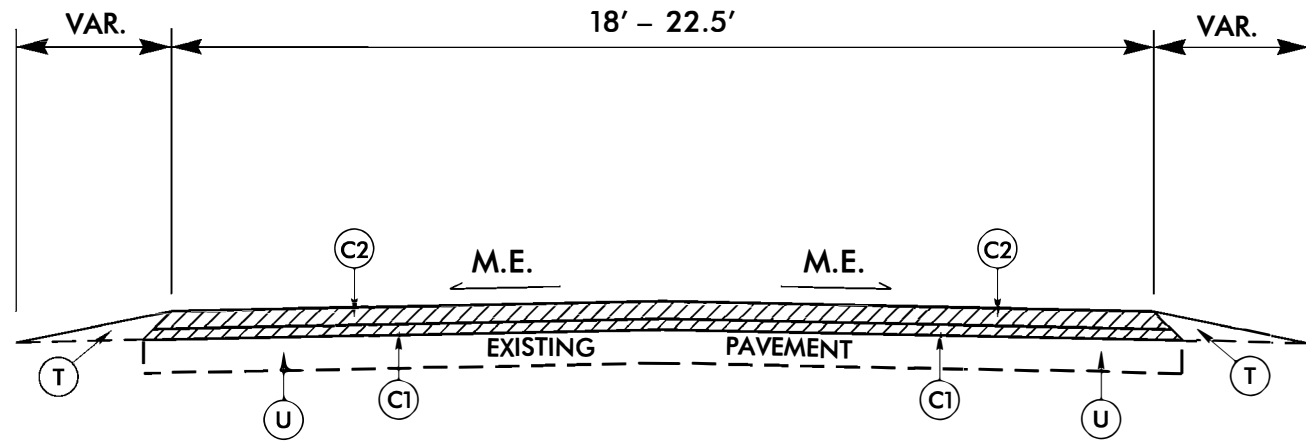
Onslow County 12-15, and 17

PROJECT REFERENCE NO. 2021CPT.03.05.20671, ETC.	SHEET NO. 4
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Onslow County 19, 20, 22, and 23





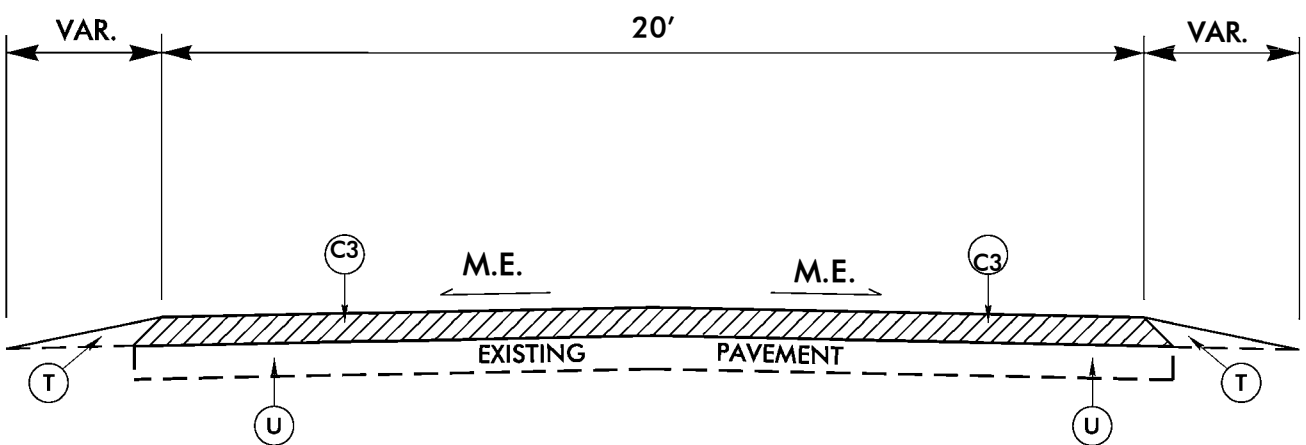
TYPICAL SECTION NO. 1

MAP NO. 1
SR 1428 (RIGGS RD.)
MP 1.12 - MP 5.51

MAP NO. 6
SR 1519 (OLD FOLKSTONE RD.)
MP 0.00 - MP 3.75
NO ASPHALT WORK BRIDGE #182

MAP NO. 10
SR 1445 (NORRIS RD.)
MP 0.00 - MP 0.90

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD.
C2	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
C3	PROP. APPROX. 3" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD. IN EACH OF TWO LAYERS.
C4	PROP. APPROX. 1" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD.
T	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1½" DEPTH



TYPICAL SECTION NO. 2

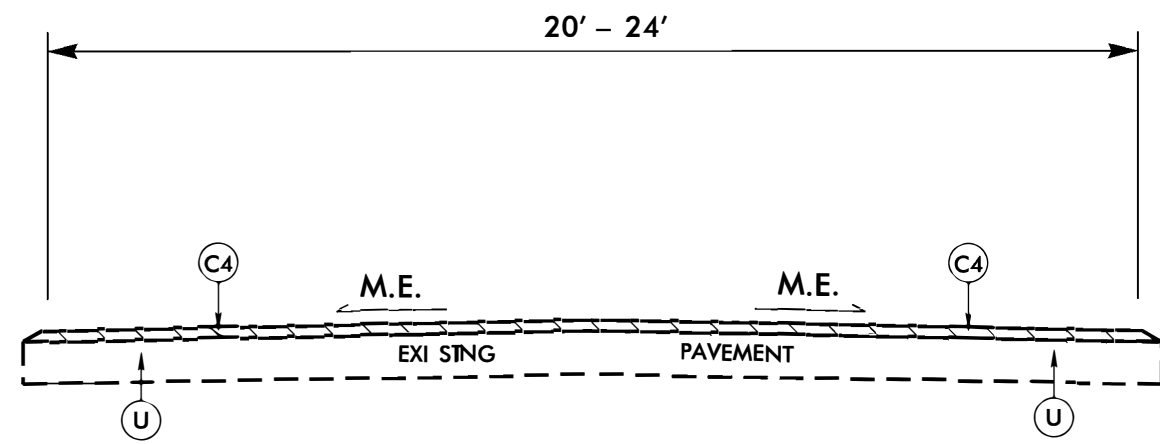
MAP NO. 2
SR 1428 (RIGGS RD.)
MP 8.64 - MP 8.79

MAP NO. 3
SR 1746 (BARBOUR RD.)
MP 0.00 - MP 0.25

REVISIONS

9-10-2020 17:09
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REVISIONS
 28-SEP-2020 14:47
 S:\Shared\NCFE\2021 Resurfacing_Trace & Bridge\Drawings\Typicals\Drawings - Typical.dgn



TYPICAL SECTION NO. 4

PAVEMENT SCHEDULE	
C2	1½" S9.5B
C4	1" S4.75A
T	EARTH MATERIAL SHOULDER RECONST.
U	EXISTING PAVEMENT
V1	MILLING 1½" DEPTH

MAP NO. 13
 SR 1697 (CLAY HILL RD.)
 MP 0.00 – MP 0.99

MAP NO. 17
 SR 1566 (OLD SANDRIDGE RD.)
 MP 0.00 – MP 0.55

MAP NO. 14
 SR 2209 (VISTA CLAY DR.)
 MP 0.00 – MP 1.01

MAP NO. 15
 SR 1737 (LESLIE LN.)
 MP 0.00 – MP 0.58

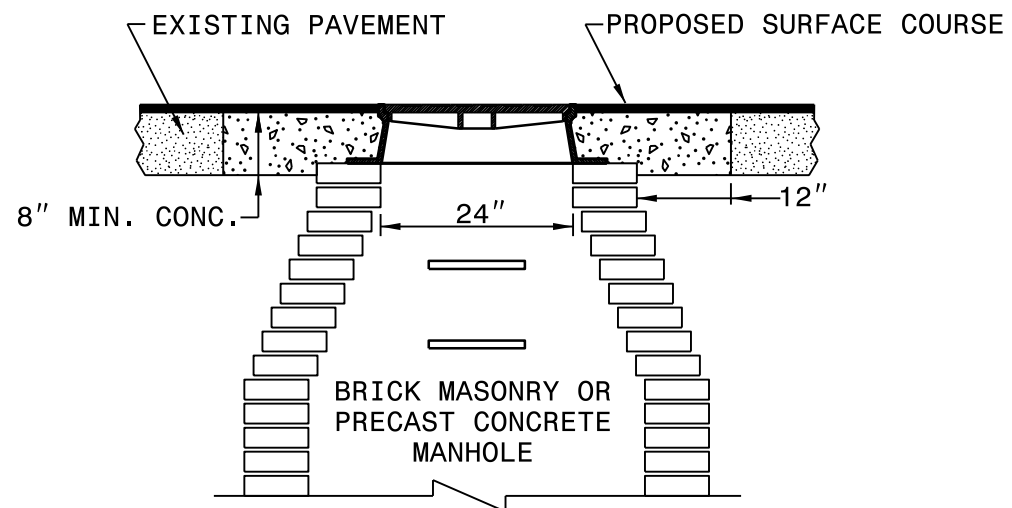
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

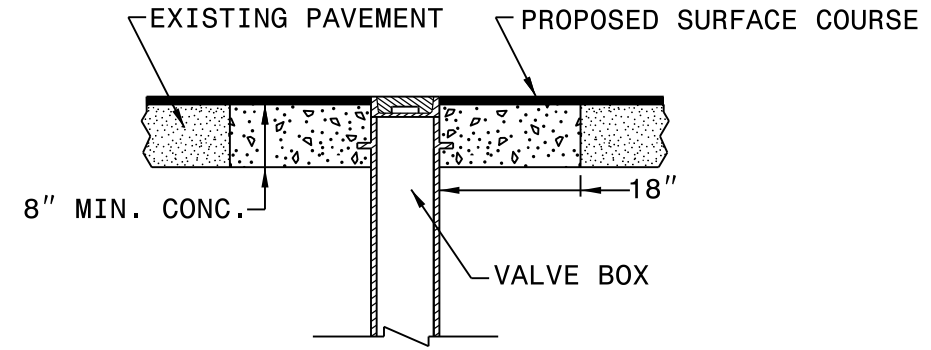
SHEET 1 OF 1
840D55

GENERAL NOTES:

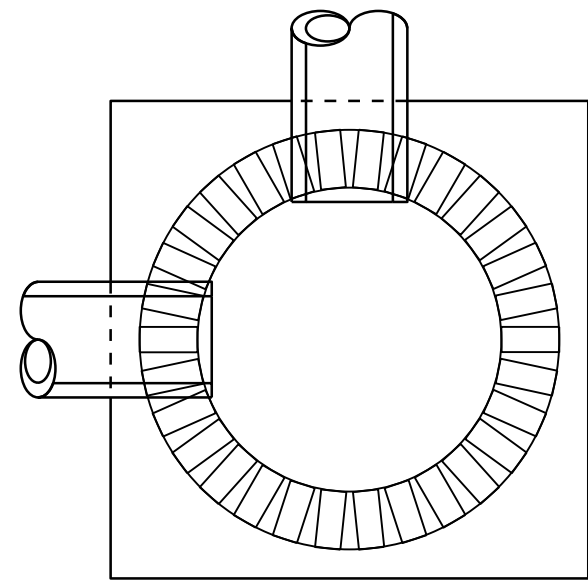
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS $\frac{1}{2}$ " \pm $\frac{1}{8}$ "
7. CONSTRUCT AN ASPHALT RAMP IN ACCORDANCE WITH SECTION 858-3 OF THE 2018 STANDARD SPECIFICATIONS.



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

SHEET 1 OF 1
840D55

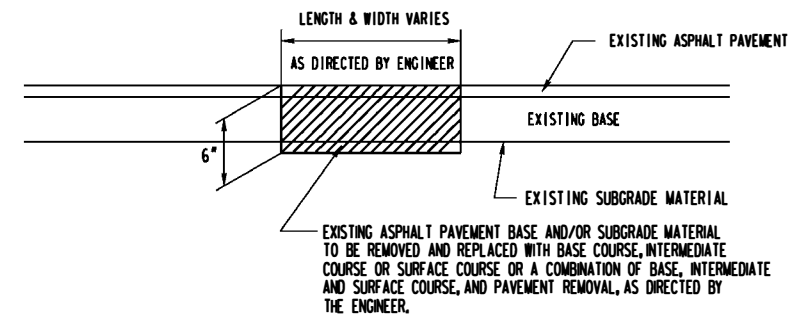
ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

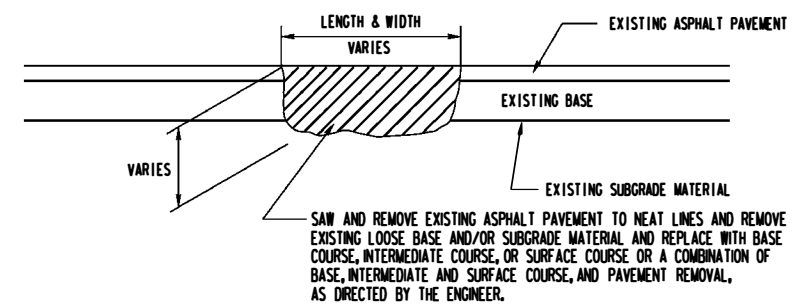
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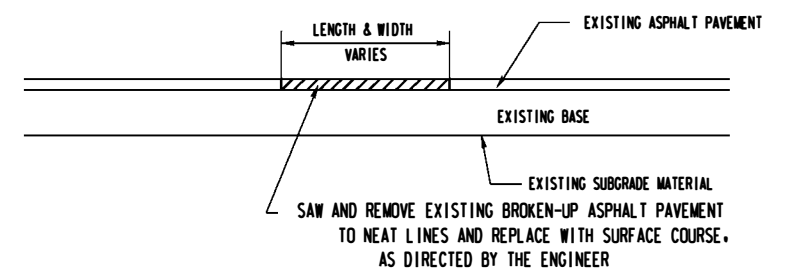
DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



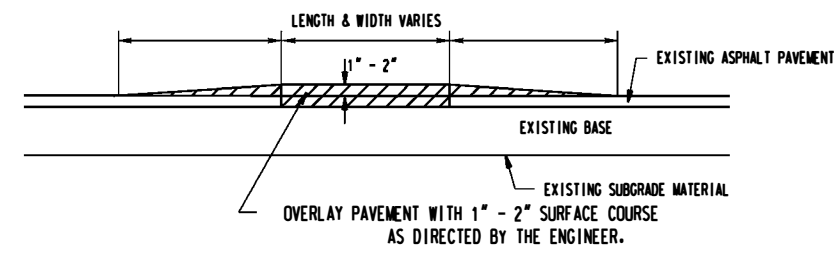
DETAIL NO. 1



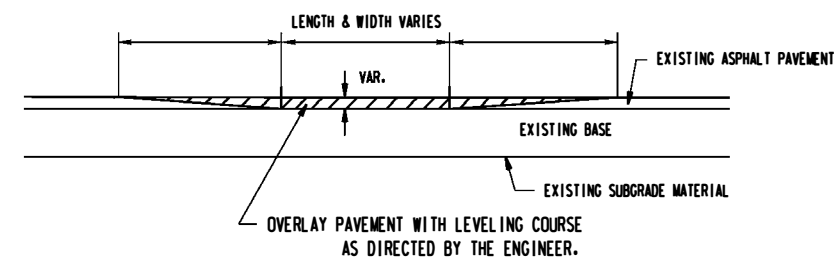
DETAIL NO. 2



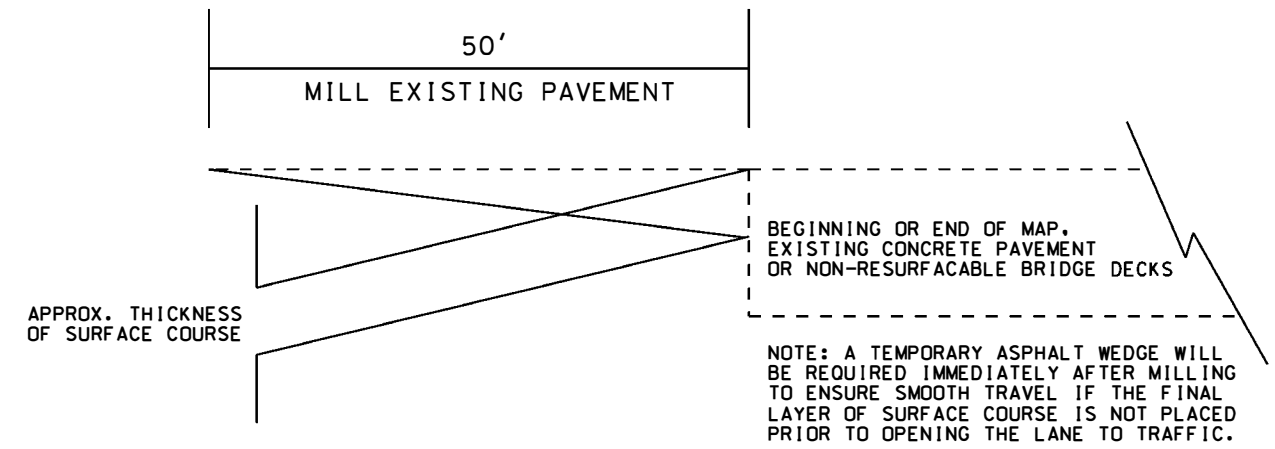
DETAIL NO. 3



DETAIL NO. 4



DETAIL NO. 5



DETAIL FOR MILLING & INCIDENTAL MILLING PAY ITEMS:
MAY BE USED AT THE BEGINNING & END OF MAPS
AND AT APPROACH & TRAILING ENDS OF BRIDGES

28 SEP 2018 12:50 c:\p7\21011\Drawings\Sheets\Microstation Files\rdy_patch.dgn 9:58 AM

THERMOPLASTIC AND PAINT QUANTITIES

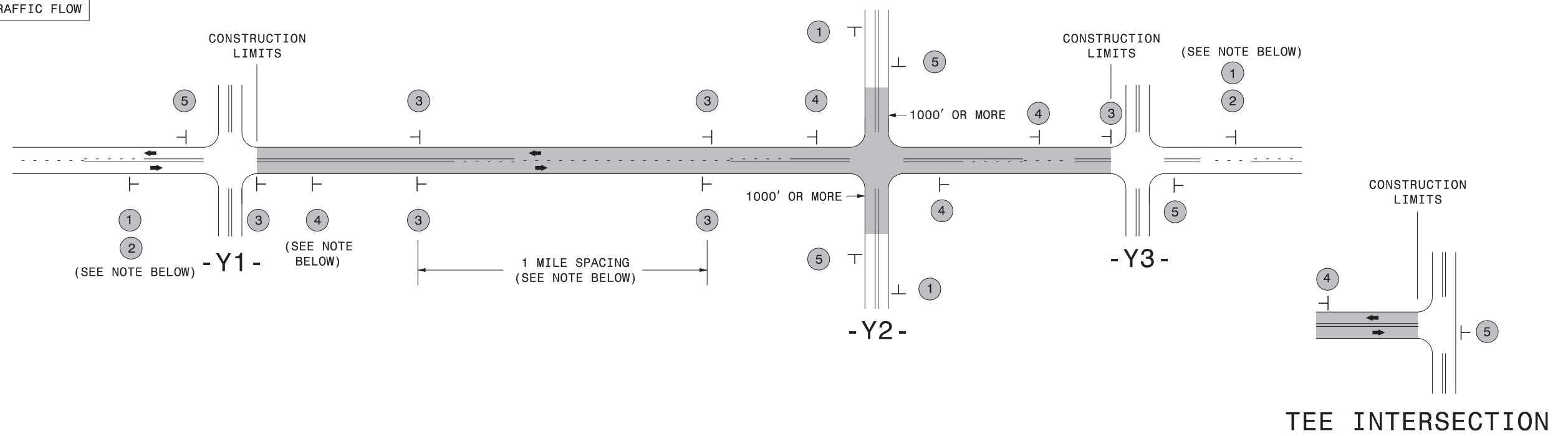
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANE S	LANE TYPE	LENGTH		WIDTH	441300000-E	445700000-N	468500000-E		489200000-N	472500000-E	481000000-E		484500000-N	489000000-E	489100000-E		490000000-N						
								MI	FT		WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	THERMO MSG SCHOOL 90 M	THERMO RT ARROW 90 M	4" YELLOW PAINT	4" WHITE PAINT	PAINT RT ARROW	4" WHITE THERMO PROFILED EDGE LINES	REMOVAL OF PAVEMENT MARKING LINES (4") (REMOVAL OF PROFILED EDGE LINES)	24" X 90 M WHITE THERMO	YELLOW & YELLOW MARKERS	CRYSTAL & RED MARKERS					
2021CPT.03.05.20671	Onslow	1	SR 1428 (RIGGS RD) PART 1	FROM SR1435 (BRIGHTTOWN RD.) TO PAVEMENT SEAM TO ERROL DR. (NS) [MP 1.12 - MP 5.51]	1	2	2WU	4.3	22																				
TOTAL FOR MAP NO. 1								4.3																					
2021CPT.03.05.20671	Onslow	2	SR 1428 (RIGGS RD) PART 2	FROM SR 1744 (HUBERT BLVD.) TO SR 1746 (BARBOUR RD.) [MP 8.64 - MP 8.79]	2	2	2WU	0.15	20																				
TOTAL FOR MAP NO. 2								0.15																					
2021CPT.03.05.20671	Onslow	3	SR 1746 (BARBOUR RD)	FROM SR 1744 (HUBERT BLVD.) TO DEAD END [MP 0.00 - MP .25]	2	2	2WU	0.25	20																				
TOTAL FOR MAP NO. 3								0.25																					
2021CPT.03.05.20671	Onslow	5	SR 1548 (COUNTRY CLUB RD)	FROM NC 172 TO SR 1519 (OLD FOLKSTONE RD.) [MP 0.00 - MP 0.75]	1	2	2WU	0.75	20																				
TOTAL FOR MAP NO. 5								0.75																					
2021CPT.03.05.20671	Onslow	6	SR 1519 (OLD FOLKSTONE RD)	FROM SR 1515 (SNEADS FERRY RD.) TO NC 210 [MP 0.00 - MP 3.57]	1	2	2WU	3.57	22.5																				
TOTAL FOR MAP NO. 6								3.57																					
2021CPT.03.05.20671	Onslow	10	SR 1445 (NORRIS RD)	FROM NC 24 TO SR 1444 (SWANSBORO LOOP RD.) [MP 0.00 - MP 0.90]	1	2	2WU	0.9	18																				
TOTAL FOR MAP NO. 10								0.9																					
TOTAL FOR PROJ NO. 2021CPT.03.05.20671								9.92				1,008		*	68,636	80,236	12	4	80,236	310	4	38,413	38,413	100	639	17			
											148,872						80,546							656					
2021CPT.03.05.20672	Onslow	13	SR 1697 (CLAY HILL RD.)	FROM SR 1515 (SNEADS FERRY RD.) TO SR 1519 (OLD FOLKSTONE RD.) [MP 0.00 - MP 0.99]	4	2	2WU	0.99	20																				
TOTAL FOR MAP NO. 13								0.99																					
2021CPT.03.05.20672	Onslow	14	SR 2209 (VISTA CAY DR.)	FROM SR 1503 (BEAR CREEK RD.) TO SR 2210 (HARBOUR DR.) [MP 0.00 - MP 1.01]	4	2	2WU	1.01	20																				
TOTAL FOR MAP NO. 14								1.01																					
2021CPT.03.05.20672	Onslow	15	SR 1737 (LESLIE LN.)	FROM NC 24 TO END OF MAINTENANCE [MP 0.00 - MP 0.58]	4	2	2WU	0.58	24																				
TOTAL FOR MAP NO. 15								0.58																					
2021CPT.03.05.20672	Onslow	17	SR 1566 (OLD SANDRIDGE RD.)	FROM SR 1503 (BEAR RCREEK RD.) TO SR 1501 (SAND RIDGE RD.) [MP 0.00 - MP 0.55]	4	2	2WU	0.55	20																				
TOTAL FOR MAP NO. 17								0.55																					
2021CPT.03.05.20672	Onslow	19	SR 1647 (WILDWOOD CT.)	FROM SR 1501 (SAND RIDGE RD.) TO CUL-DE-SAC [MP 0.00 - MP 0.08]	N/A	2		0.08	20																				
TOTAL FOR MAP NO. 19								0.08																					
2021CPT.03.05.20672	Onslow	20	SR 1542 (HALL POINT RD.)	FROM SR 1517 (FULCHER LANDING RD.) TO SR 1554 (HALL LN.) [MP 0.00 - MP 0.61]	N/A	2	2WU	0.61	20																				
TOTAL FOR MAP NO. 20								0.61																					
2021CPT.03.05.20672	Onslow	22	SR 1770 (TONI DR.)	FROM SR 1406 (PINEY GREEN RD.) TO 0.06 MILES NW OF SR 1752 (COLONIAL DR.) [MP 0.00 - MP 0.33]	N/A	2	2WU	0.33	20																				
TOTAL FOR MAP NO. 22								0.33																					
2021CPT.03.05.20672	Onslow	23	SR 1799 (ESTHER LN.)	FROM SR 1756 (HILDA RD.) TO END OF MAINTENANCE [MP 0.00 - MP 0.16]	N/A	2		0.16	20																				
TOTAL FOR MAP NO. 23								0.16																					
TOTAL FOR PROJ NO. 2021CPT.03.05.20672								4.31						*															
																	35,639	54,472						171					
																	90,111							171					
2021CPT.03.05.10672	Onslow	12	N 53 (BURGAW HWY)	FROM NC 24 TO PENDER CO. LINE [MP 12.53 - MP 24.94]	N/A	2	2WU	12.41	26																				
TOTAL FOR MAP NO. 12								12.41																					
TOTAL FOR PROJ NO. 2021CPT.03.05.10672								12.41						*															
GRAND TOTAL								26.64				1,008	1	68,636	80,236	12	4	115,875	54,782	4	38,413	38,413	100	810	17				
											148,872						170,657						827						

SIGNING FOR RESURFACING PROJECTS

LEGEND

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	
	2	 <small>W7-3aP 24" X 18"</small>	#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	 <small>SP 13107 48" X 48"</small>	- 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	 <small>SP 13106 48" X 48"</small>	- 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	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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

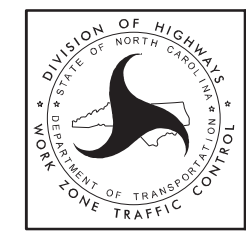
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

 <small>W20-1 48" X 48"</small> PLACED 500' IN ADVANCE OF FLAGGER.	 <small>W20-7 A 48" X 48"</small> PLACED 250' IN ADVANCE OF FLAGGER.
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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 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

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

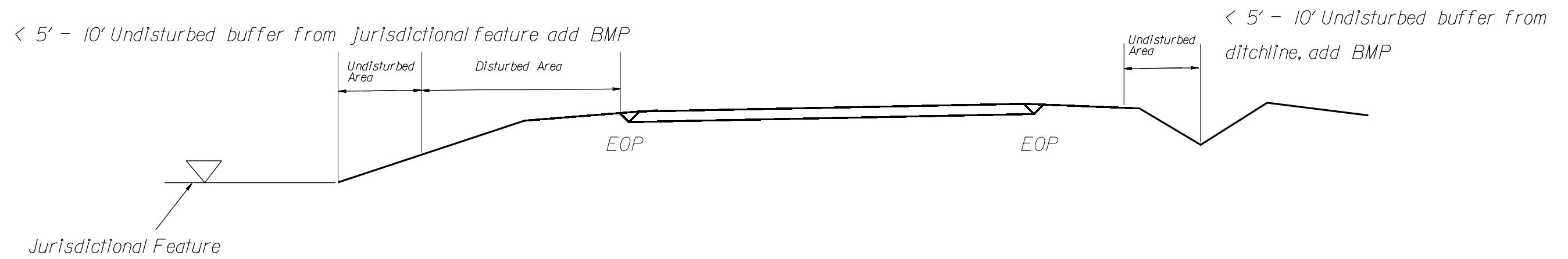
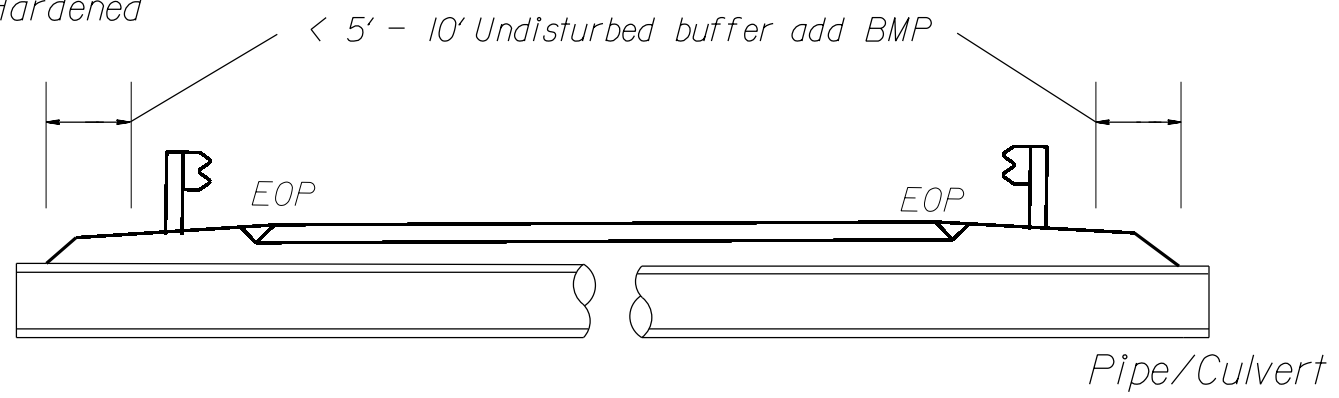
SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

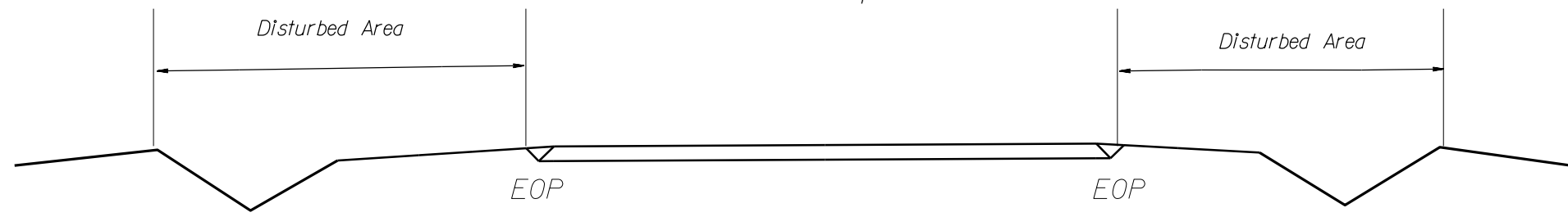
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

EROSION CONTROL DETAIL

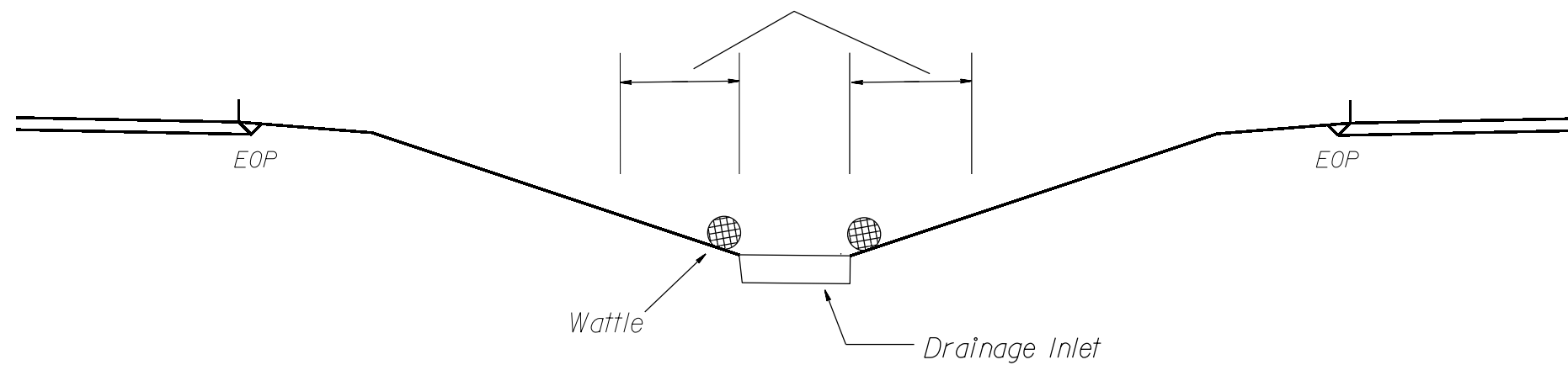
BMP Options: Wattle, Silt Fence or Hardened Aggregate.



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

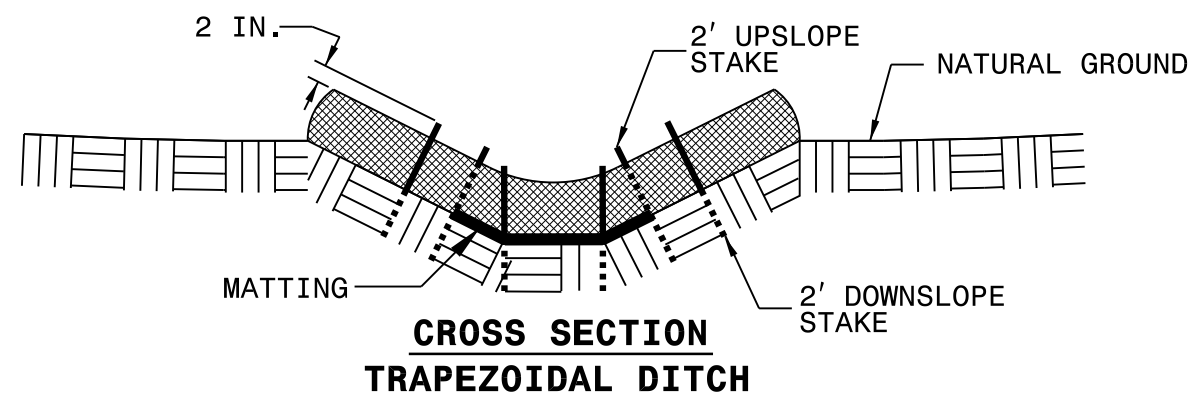
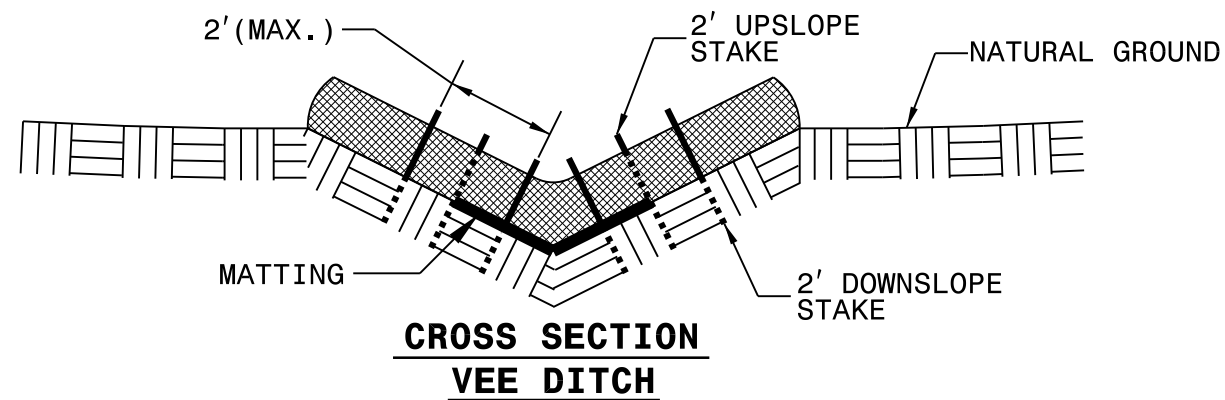
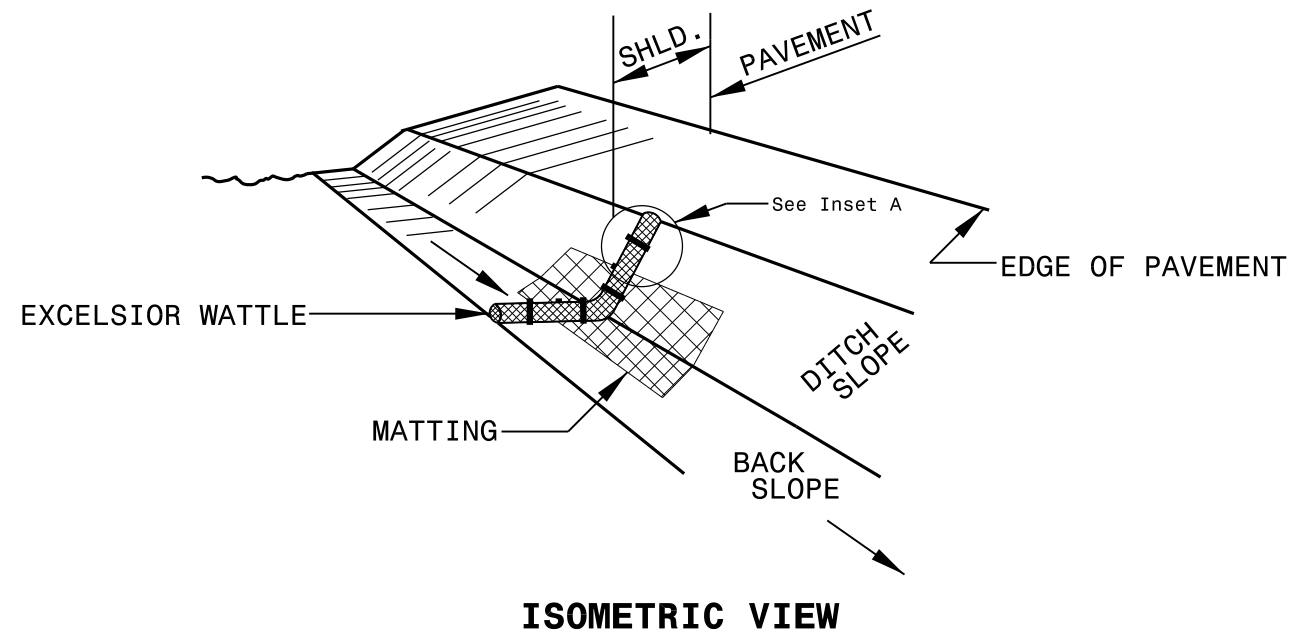


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

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.

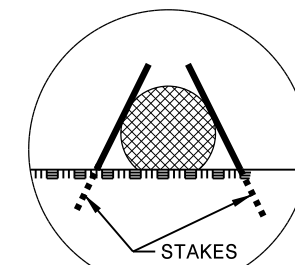
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

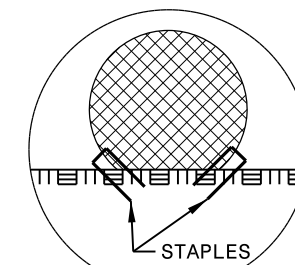
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.



INSET A



INSET B

