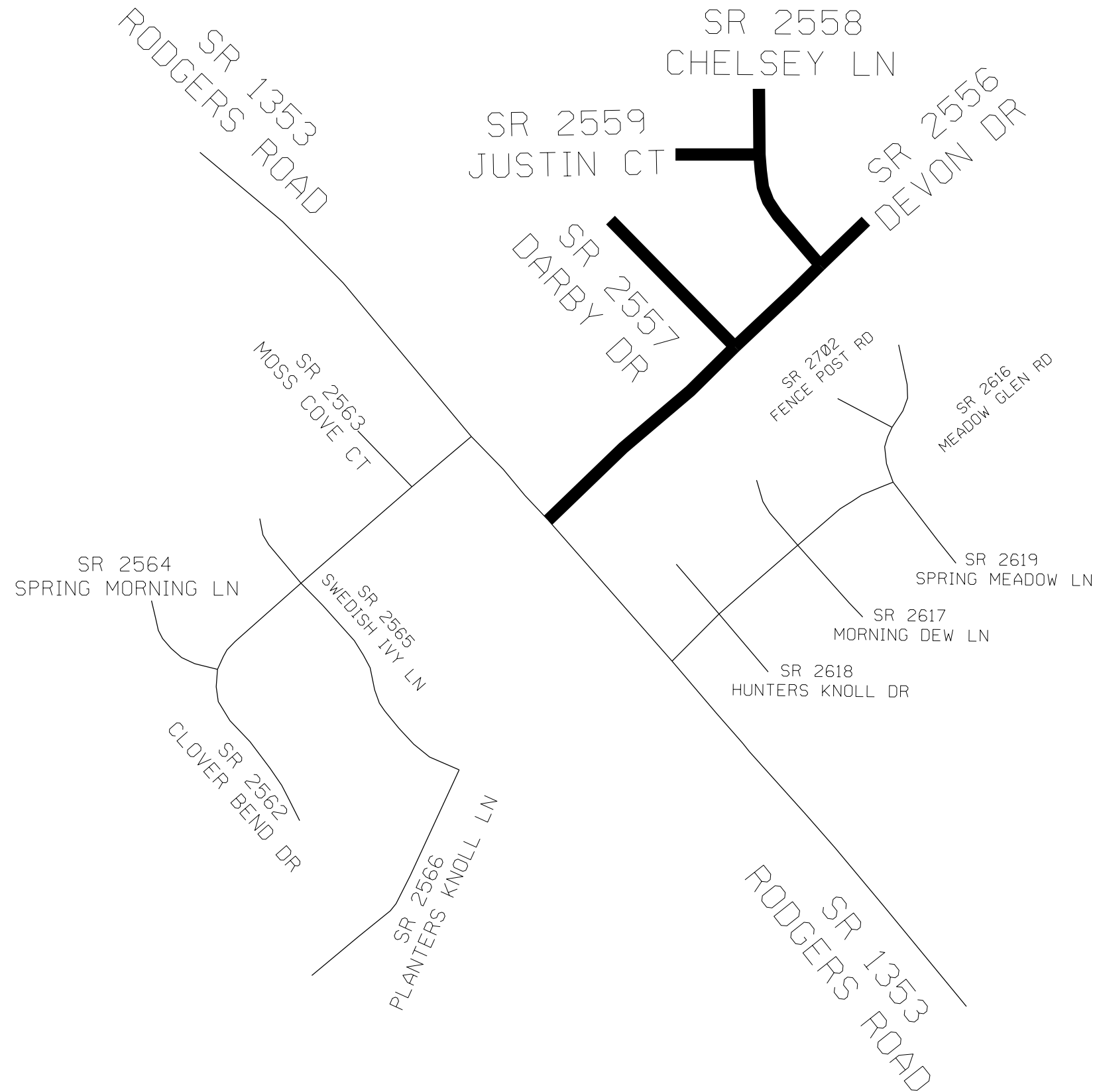


MAPS 1 - 4

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	1	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #1 SR 2556 DEVON DRIVE
 0.23 MILES
 FROM SR 1353 RODGERS ROAD
 TO END OF MAINTANANCE

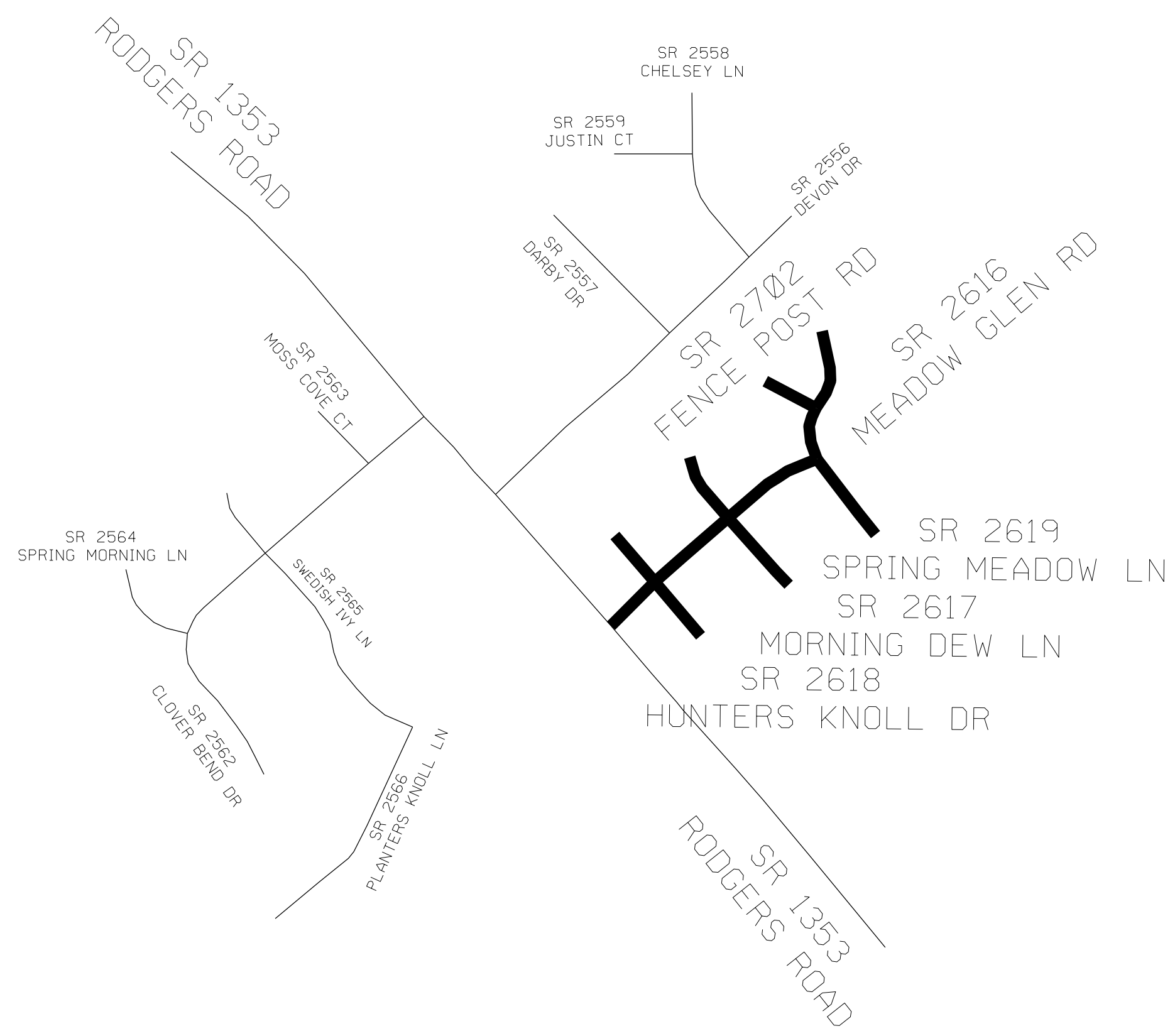
MAP #2 SR 2558 CHELSEY LANE
 0.10 MILES
 FROM SR 2556 DEVON DRIVE TO
 END OF MAINTANANCE

MAP #3 SR 2557 DARBY DRIVE
 0.09 MILES
 FROM SR 2556 DEVON DRIVE TO
 END OF MAINTANANCE

MAP #4 SR 2559 JUSTIN COURT
 0.07 MILES
 FROM SR 2558 CHELSEY LANE TO
 END OF MAINTANANCE

MAPS 5 - 9

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	2	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
 UNION COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

- MAP #5 SR 2616 MEADOW GLEN ROAD
 0.14 MILES
 FROM SR 1353 RODGERS ROAD TO
 SR 2619 SPRING MEADOW LANE
- MAP #6 SR 2617 MORNING DEW LANE
 0.07 MILES
 FROM END OF MAINTANANCE TO
 END OF MAINTANANCE
- MAP #7 SR 2618 HUNTERS KNOLL DRIVE
 0.09 MILES
 FROM END OF MAINTANANCE TO
 END OF MAINTANANCE
- MAP #8 SR 2619 SPRING MEADOW LANE
 0.13 MILES
 FROM END OF MAINTANANCE TO
 END OF MAINTANANCE
- MAP #9 SR 2702 FENCE POST ROAD
 0.025 MILES
 FROM SR 2619 SPRING MEADOW LANE TO
 END OF MAINTANANCE

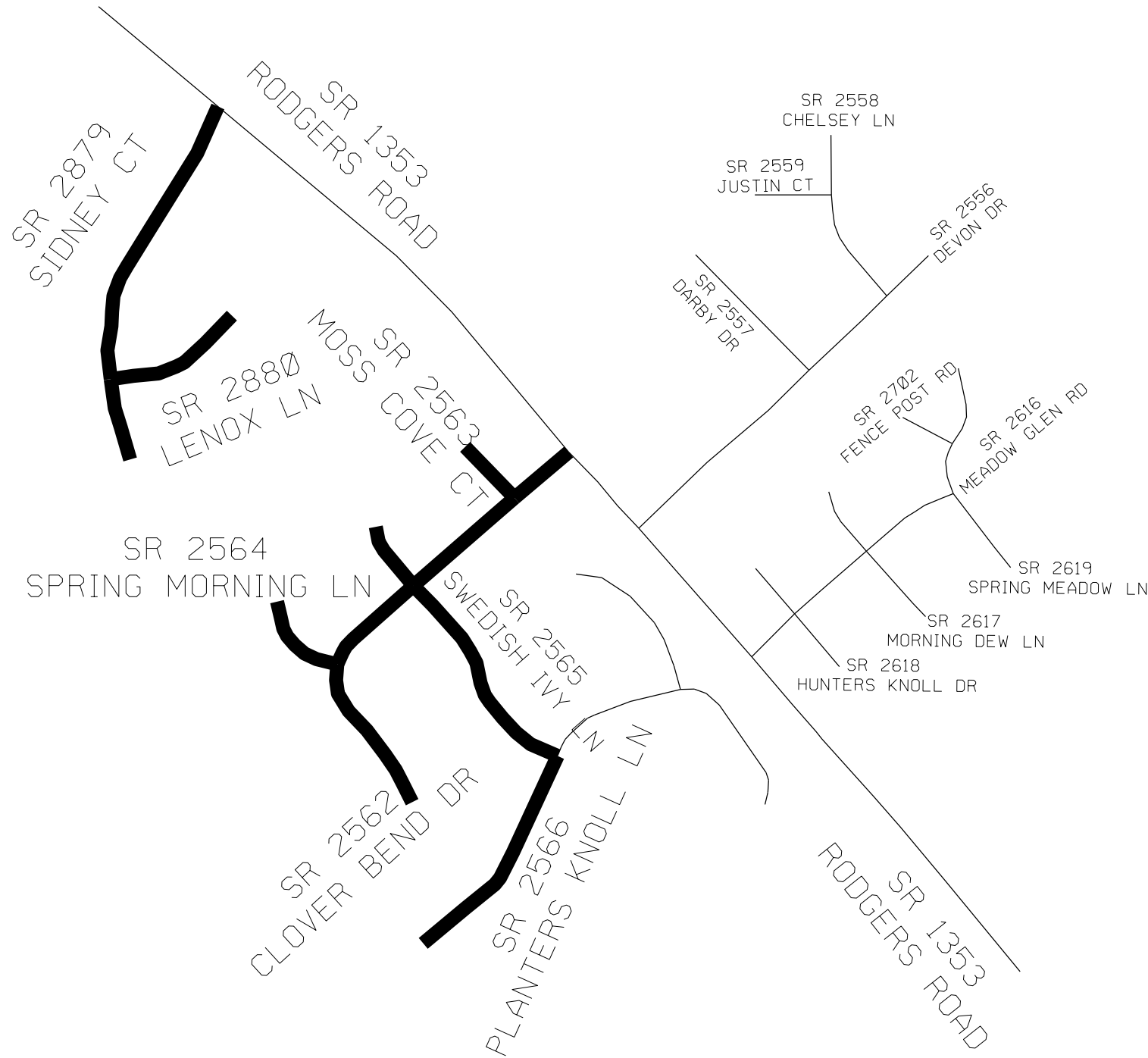
MAPS 10 - 14
 MAPS 26 & 27

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	3	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
 UNION COUNTY
 NORTH CAROLINA

PREPARED BY: NC
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3



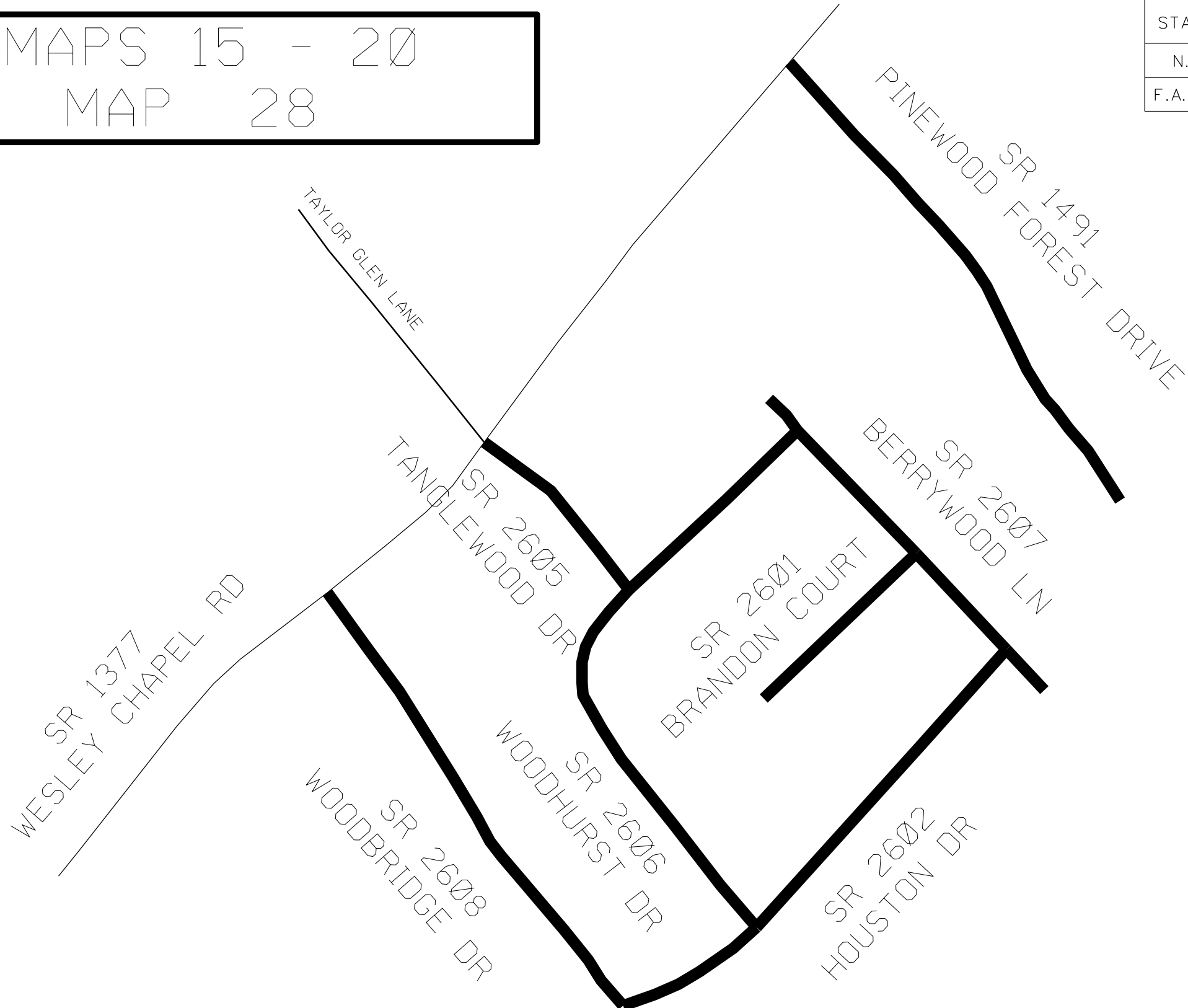
- MAP #10 SR 2562 CLOVER BEND DRIVE
 0.27 MILES
 FROM SR 1353 RODGERS ROAD TO
 END OF MAINTANANCE
- MAP #11 SR 2565 SWEDISH IVY LANE
 0.16 MILES
 FROM END OF MAINTANANCE TO
 SR 2566 PLANTERS KNOLL LANE
- MAP #12 SR 2563 MOSS COVE COURT
 0.04 MILES
 FROM SR 2562 CLOVER BEND DRIVE TO
 END OF MAINTANANCE
- MAP #13 SR 2564 SPRING MORNING LANE
 0.05 MILES
 FROM SR 2562 CLOVER BEND DRIVE TO
 END OF MAINTANANCE
- MAP #14 SR 2566 PLANTERS KNOLL LANE
 0.14 MILES
 FROM SR 2565 SWEDISH IVY LANE HEADING SOUTHWEST TO
 END OF MAINTANANCE
- MAP #26 SR 2879 SIDNEY COURT
 0.21 MILES
 FROM SR 1363 ROGERS ROAD
 TO END OF MAINTANANCE
- MAP #27 SR 2880 LENOX LANE
 0.06 MILES
 FROM SR 2879 SIDNEY COURT
 TO END OF MAINTANANCE

MAPS 15 - 20
MAP 28

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	4	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
NORTH CAROLINA
PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3



MAP #15 SR 2605 TANGLEWOOD RIVE
0.12 MILES
FROM SR 1377 WESLEY CHAPEL ROAD
TO SR 2606 WOODHURST DRIVE

MAP #16 SR 2606 WOODHURST DRIVE
0.36 MILES
FROM SR 2607 BERRYWOOD LANE
TO SR 2602 HOUSTON DRIVE

MAP #17 SR 2607 BERRYWOOD LANE
0.20 MILES
FROM END OF MAINTANANCE
TO END OF MAINTANANCE

MAP #18 SR 2602 HOUSTON DRIVE
0.36 MILES
FROM SR 2607 BERRYWOOD LANE
TO SR 2608 WOODBRIDGE DRIVE

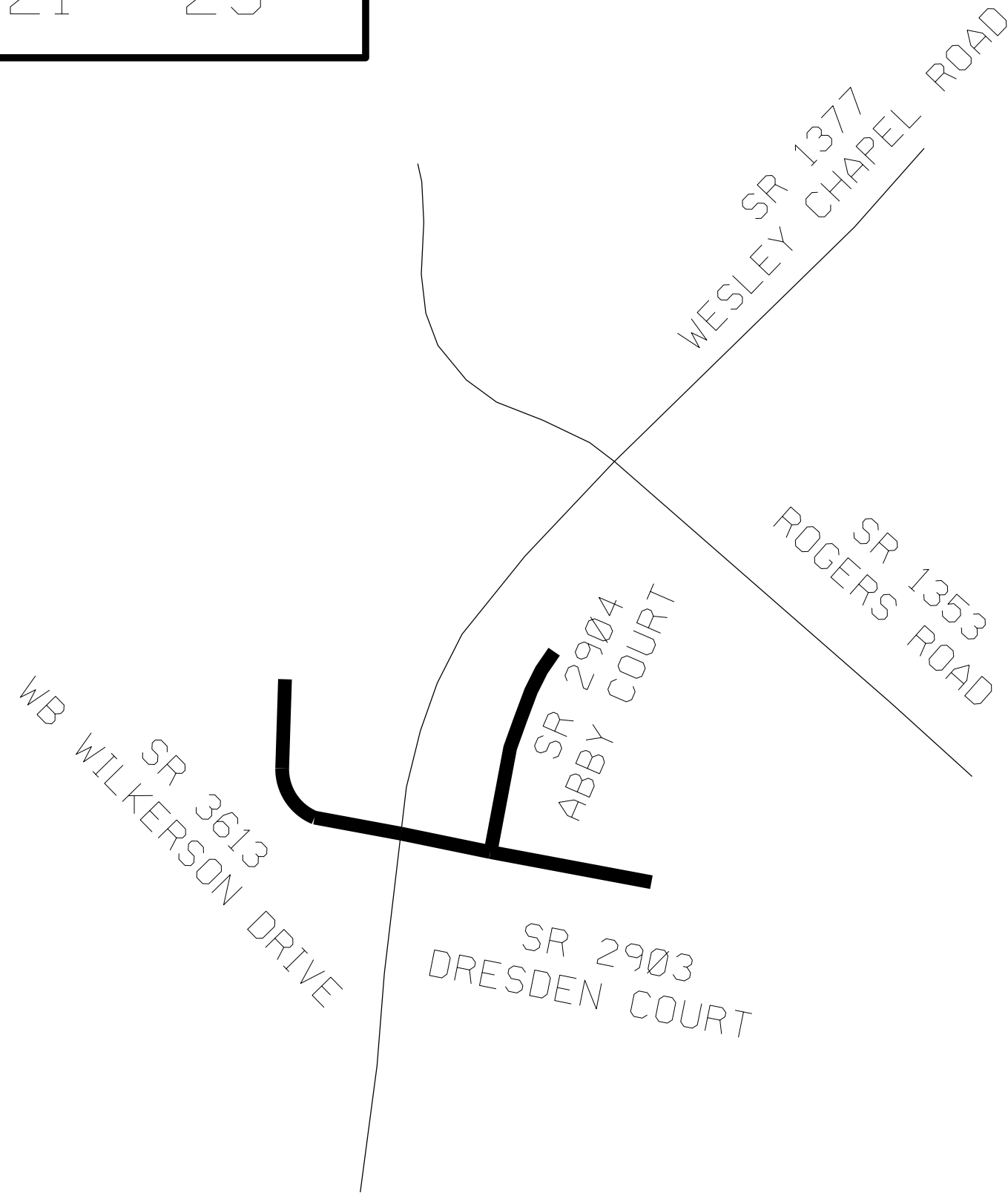
MAP #19 SR 2601 BRANDON COURT
0.10 MILES
FROM SR 2607 BERRYWOOD LANE
TO END OF MAINTANANCE

MAP #20 SR 2608 WOODBRIDGE DRIVE
0.28 MILES
FROM SR 1377 WESLEY CHAPEL ROAD
TO SR 2602 HOUSTON DRIVE

MAP #28 SR 1491 PINWOOD FOREST DRIVE
0.38 MILES
FROM SR 1377 WESLEY CHAPEL ROAD
TO END OF MAINTANANCE

MAPS 21 - 23

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	5	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
NORTH CAROLINA
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DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

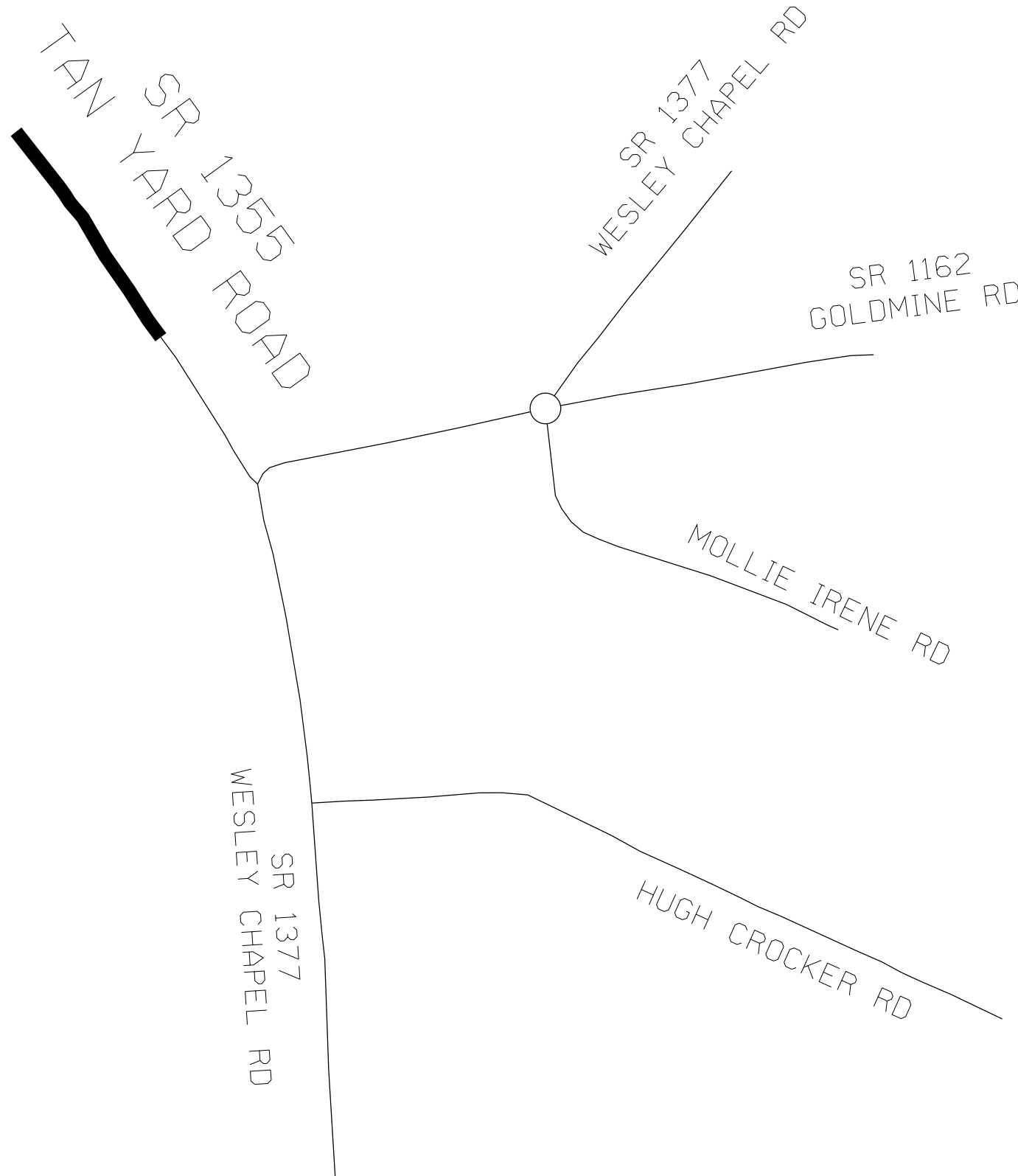
MAP #21 SR 2903 DRESDEN COURT
0.09 MILES
FROM SR 1377 WESLEY CHAPEL ROAD
TO END OF MAINTANANCE

MAP #22 SR 2904 ABBY WAY
0.08 MILES
FROM SR 2903 DRESDEN COURT
TO END OF MAINTANANCE

MAP #23 SR 3613 WB WILKERSON DRIVE
0.07 MILES
FROM SR 1377 WESLEY CHAPEL ROAD
TO END OF MAINTANANCE

MAP 24

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	6	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
NORTH CAROLINA
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DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #24 SR 1355 TAN YARD ROAD
0.14 MILES
FROM PAVEMENT JOINT APPROXIMATELY
340 FT FROM SR 1377 WESLEY CHAPEL ROAD
TO END OF MAINTANANCE

MAP 25

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	7	
F.A. PROJECT NO.			



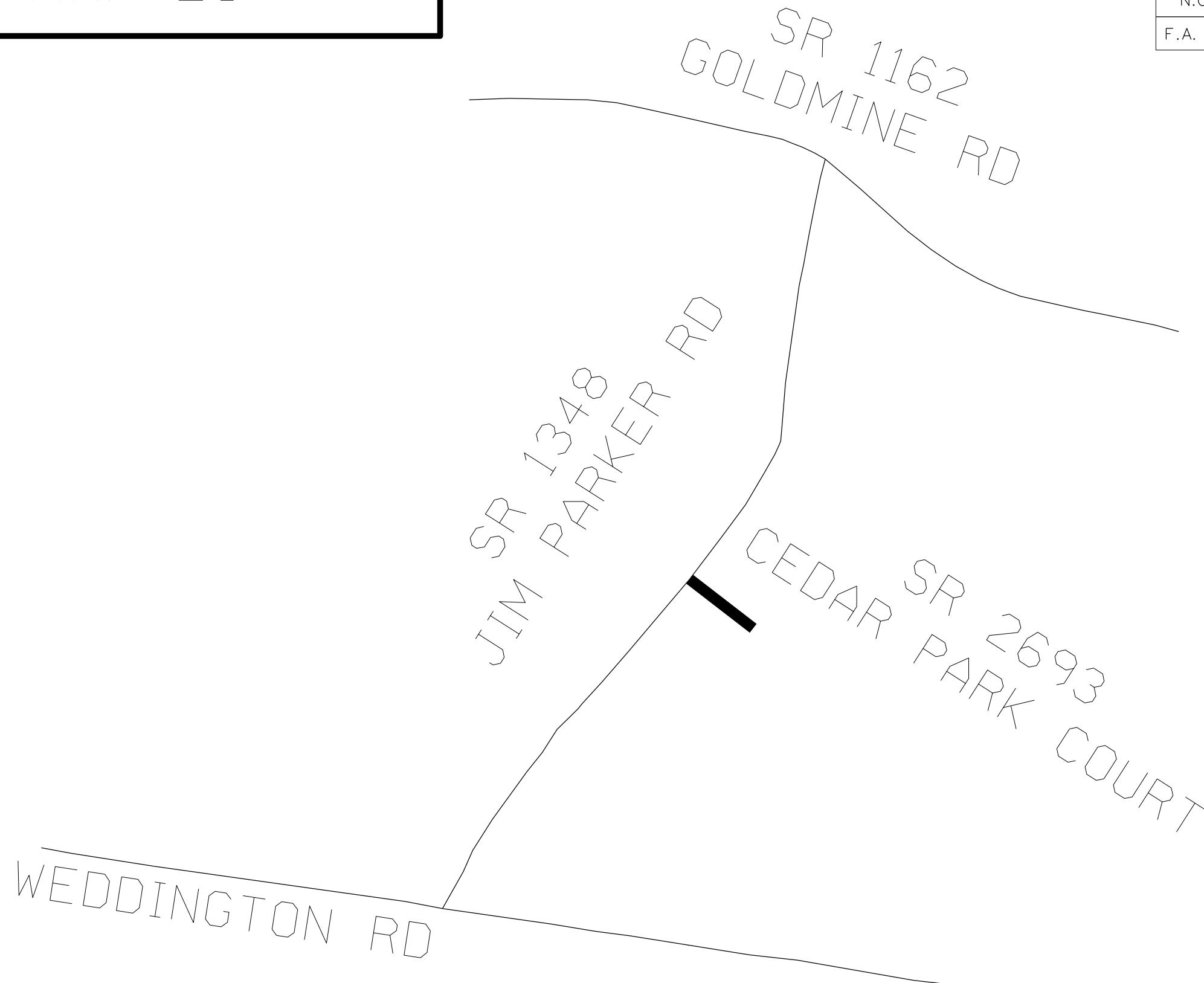
ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

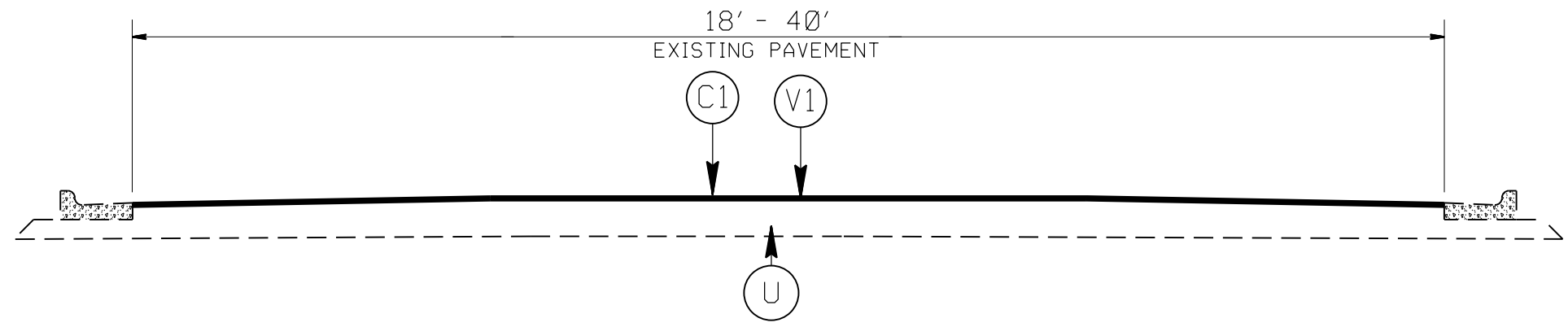
NORTH CAROLINA

PREPARED BY:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #25 SR 2693 CEDAR PARK COURT
0.09 MILES
FROM SR 1348 JIM PARKER ROAD
END OF MAINTANANCE



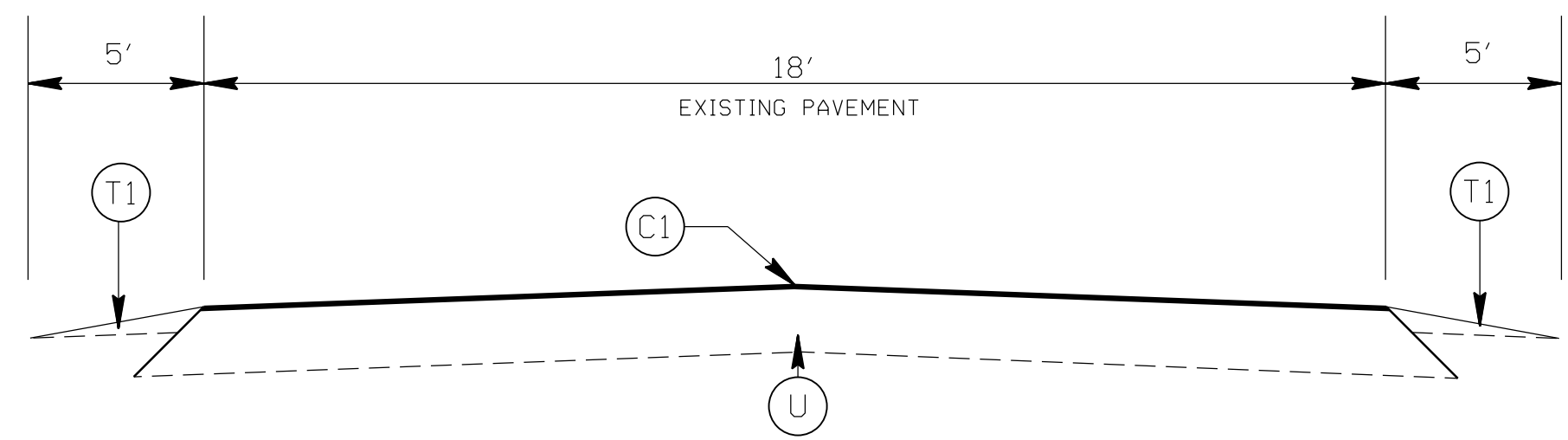
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	8	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 1
MAPS 1 THRU 22
MAPS 26 AND 27

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING PAVEMENT, 1.0" DEPTH.

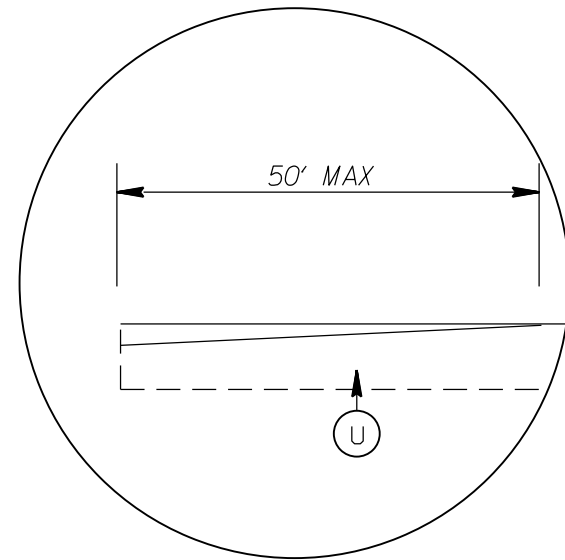


TYPICAL SECTION NO. 2
MAPS 23 THRU 25
MAP 28

2022-2023
UNION COUNTY RESURFACING

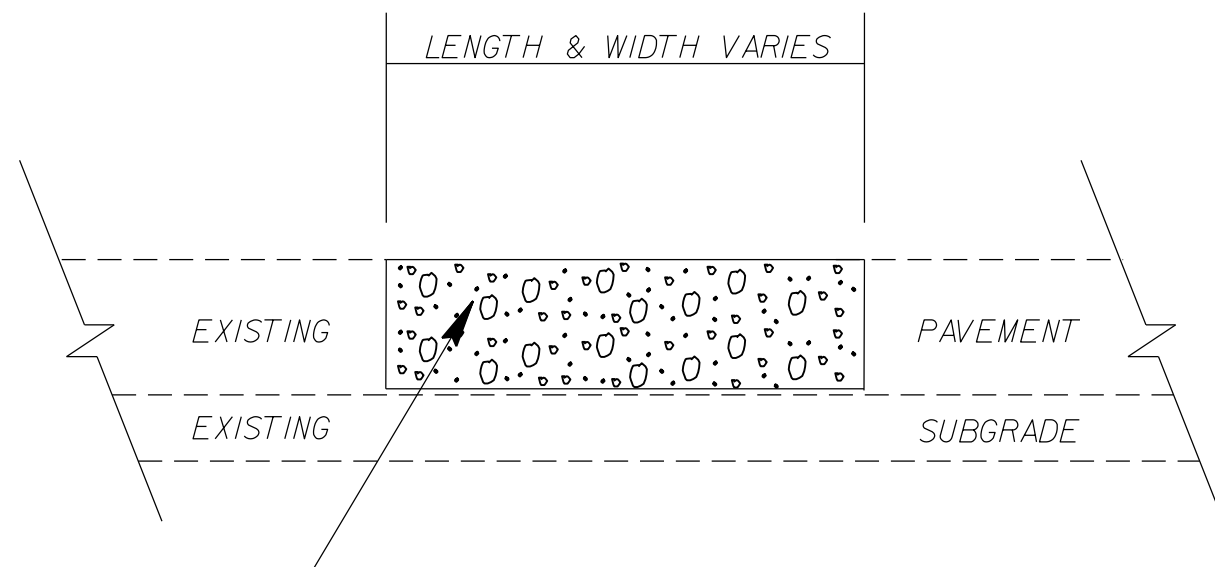
SCALE	-NA-		REVISIONS
DATE	9/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	9	
F.A. PROJECT NO.			



DETAIL FOR INCIDENTAL MILLING (0" TO 1.0")
TIE IN

PATCHING DETAIL




RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER.
ASPHALT TYPE 119.0C SHALL BE PLACED.

PAVEMENT SCHEDULE

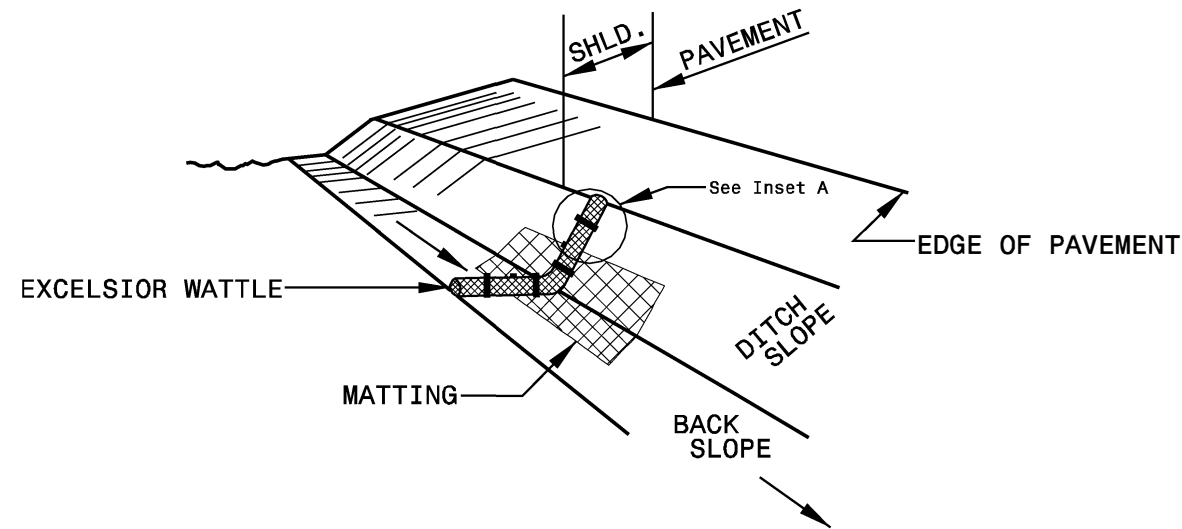
(C1)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 1.0" DEPTH.

SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER.

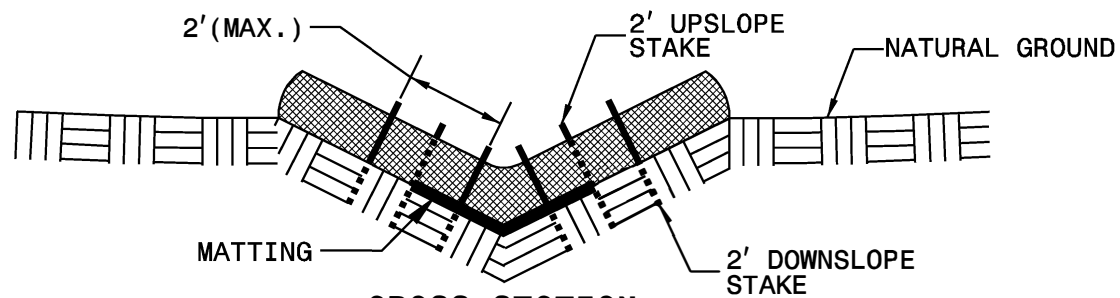
2022-2023 UNION COUNTY RESURFACING		
SCALE	-NA-	
DATE	9/21	
DWG. BY	AMO	
DESIGN BY	AMO	
APPROVED		
		REVISIONS

PROJECT REFERENCE NO. 2022CPT.10.17.20901	SHEET NO. EC7
RWY SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

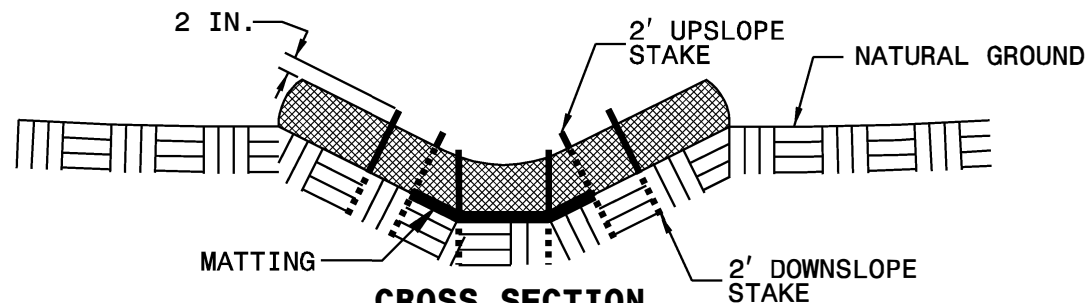
WATTLE DETAIL



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

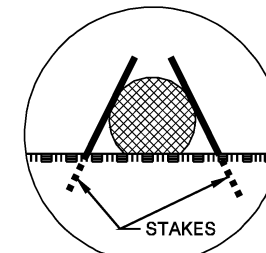
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

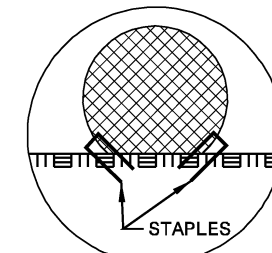
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

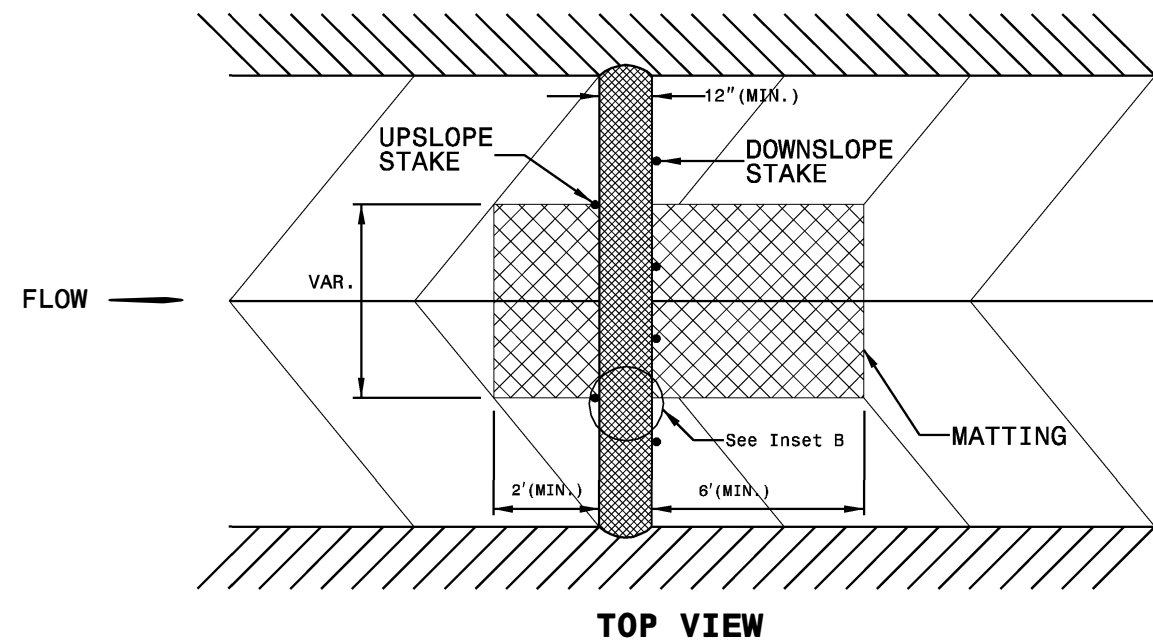
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B

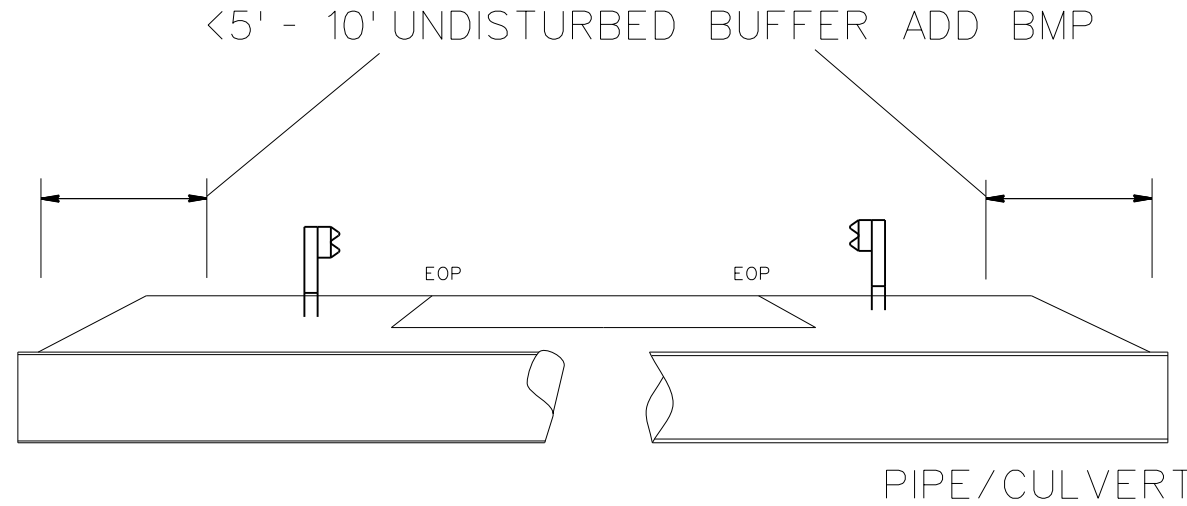


TOP VIEW

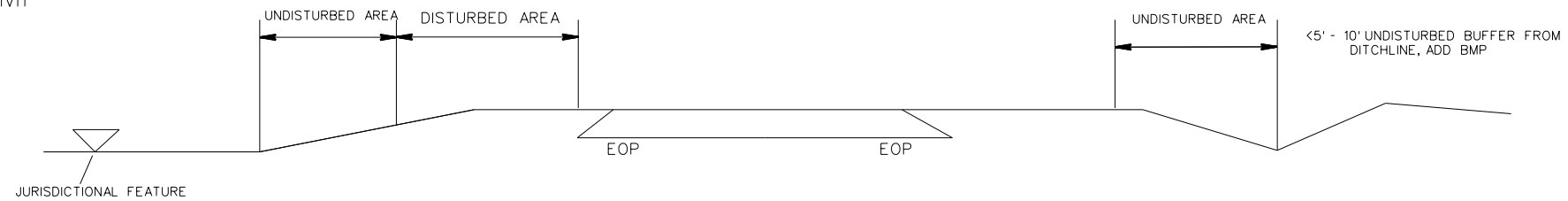
NOTES: LESS THAN 5' - 10' UNDISTURBED BUFFER FROM ROW, DITCHLINE, WATER FEATURE, OR DRAINAGE INLET, ADD BMP.

BMP OPTIONS: WATTLE OR SILT FENCE

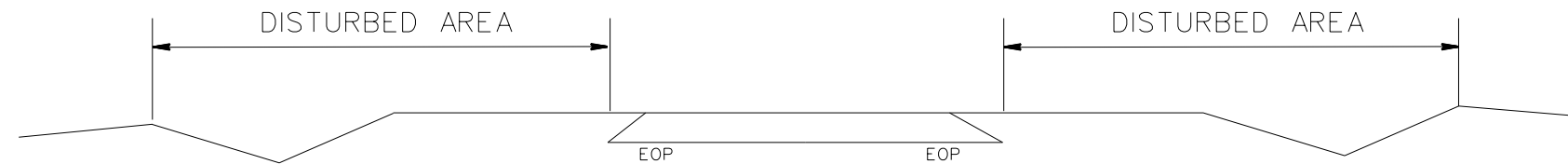
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2022CPT.10.17.20901	EC2	
F.A. PROJECT NO.			



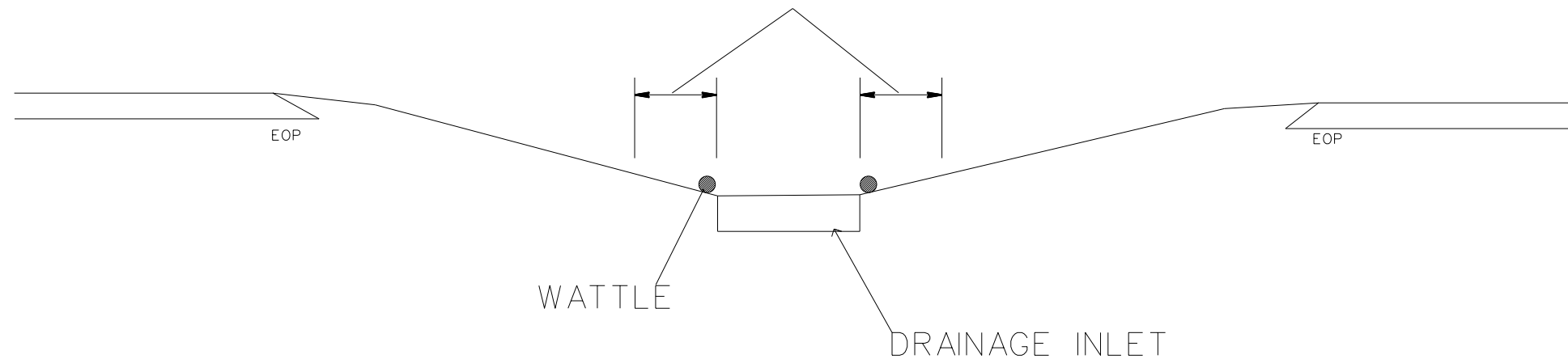
<5' - 10' UNDISTURBED BUFFER FROM JURISDICTIONAL FEATURE ADD BMP



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

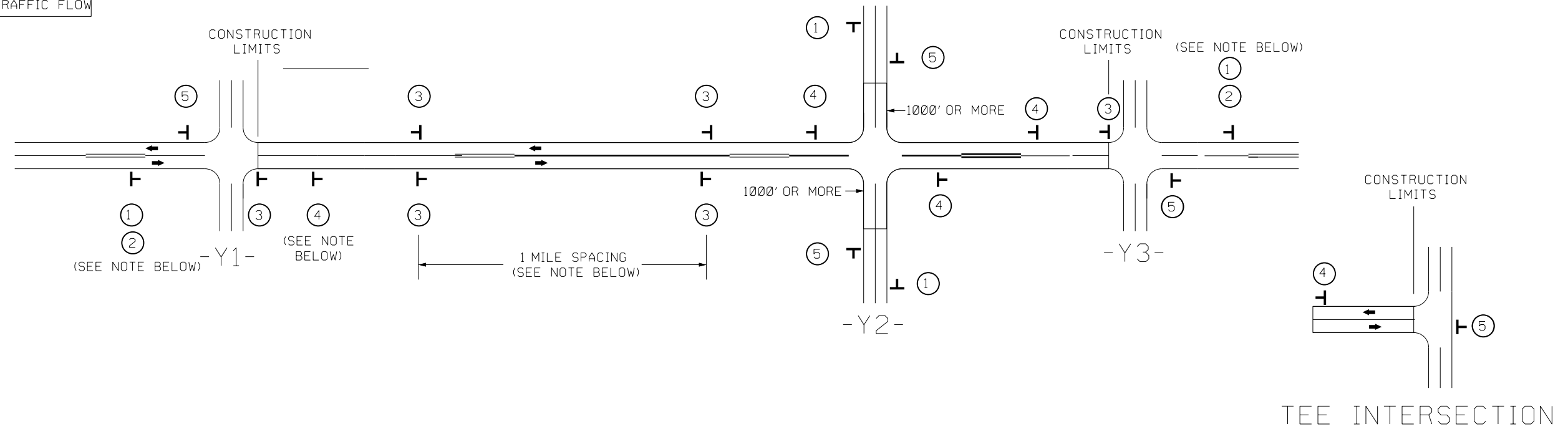
SCALE	-NA-
DATE	11/20
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	



REVISIONS	







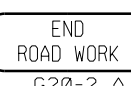
SIGNING FOR RESURFACING PROJECTS

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> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <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> <div style="display: flex; justify-content: space-around;"> <div>  W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div>  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	<p>③  SP 13107 48" X 48"</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>	
	<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 WARNINGS SIGNS.



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

31-MAR-2022 16:16 C:\Users\vaouten\Documents\CONTRACTS\Resurfacing-Raleigh Let Contract\2022-2023\Union #4 Add-Ons\Resurfacing Typicals\Union #1 Typicals 2022-2023.dgn

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.10.17.20901	14	14

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	1297000000-E	1330000000-E	1519000000-E	1575000000-E	1704000000-E	2830000000-N	6000000000-E	6009000000-E	6012000000-E	6071010000-E	4457000000-N		
												BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJ. OF MANHOLES	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	WATTLE	TEMPORARY TRAFFIC CONTROL		
											MI	FT	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	EA	LF	TN	TN	LF	LS	
2022CPT.10.17.20901	Union	24	SR 1355 TAN YARD ROAD	FROM PAVEMENT JOINT APPROXIMATELY 340 FT FROM SR 1377 WESLEY CHAPEL ROAD TO END OF MAINTANANCE MILEPOST 0-0.14		2	2WU	NO	NO	0.14	18	15	15	0.28		100	90	6	60		21	3	1	21	*		
TOTAL FOR MAP NO. 24											0.14		15	15	0.28		100	90	6	60		21	3	1	21		
2022CPT.10.17.20901	Union	25	SR 2693 CEDAR PARK COURT	FROM SR 1348 JIM PARKER ROAD TO END OF MAINTANANCE MILEPOST 0-0.09		2	2WU	NO	NO	0.09	18	10	25	0.19		150	80	5	40		13	2	1	13	*		
TOTAL FOR MAP NO. 25											0.09		10	25	0.19		150	80	5	40		13	2	1	13		
2022CPT.10.17.20901	Union	26	SR 2879 SIDNEY COURT	FROM SR 1353 ROGERS ROAD TO END OF MAINTANANCE MILEPOST 0-0.21		2	2WU	NO	NO	0.21	20				3,786		230	15	95						*		
TOTAL FOR MAP NO. 26											0.21					3,786		230	15	95							
2022CPT.10.17.20901	Union	27	SR 2880 LENOX LANE	FROM SR 2879 SIDNEY COURT TO EN OF MAINTANANCE MILEPOST 0-0.06		2	2WU	NO	NO	0.06	18				990		60	4	25						*		
TOTAL FOR MAP NO. 27											0.06					990		60	4	25							
2022CPT.10.17.20901	Union	28	SR 1491 PINWOOD FOREST DRIVE	FROM SR 1377 WESLEY CHAPEL ROAD TO END OF MAINTANANCE MILEPOST 0-0.38		2	2WU	NO	NO	0.38	18	40	30	0.76		150	265	18	190		57	8	4	57	*		
TOTAL FOR MAP NO. 28											0.38		40	30	0.76		150	265	18	190		57	8	4	57		
TOTAL FOR PROJ NO.											4.15		70	70	1.37		55,719	550	3,902	258	2,243	2	102	14	7	102	1
GRAND TOTAL											4.15		70	70	1.37		55,719	550	3,902	258	2,243	2	102	14	7	102	1