

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	1	
F.A. PROJECT NO.			

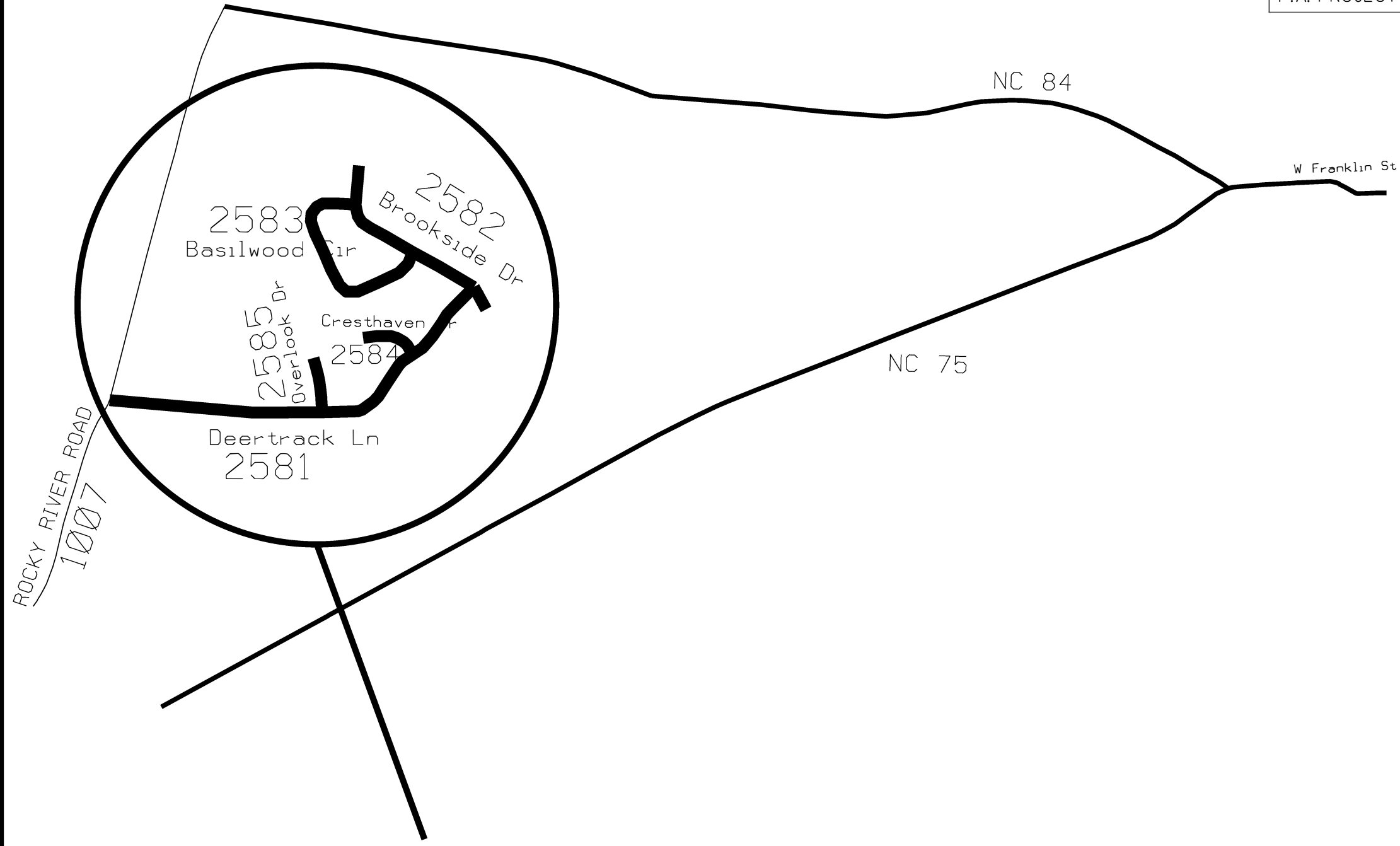


ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #1 NC 207
 2.07 MILES
 FROM SR 2115 STACK ROAD
 TO SR 2181 SUNSET DRIVE

MAP #2 NC 207
 0.47 MILES
 FROM SR 2181 SUNSET DRIVE
 TO WEST MORROW AVENUE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	2	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS
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 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #3 SR 2581 DEERTRACK LANE
 0.65 MILES
 FROM SR 1007 ROCKY RIVER ROAD
 TO DR 2582 BROOKSIDE DRIVE

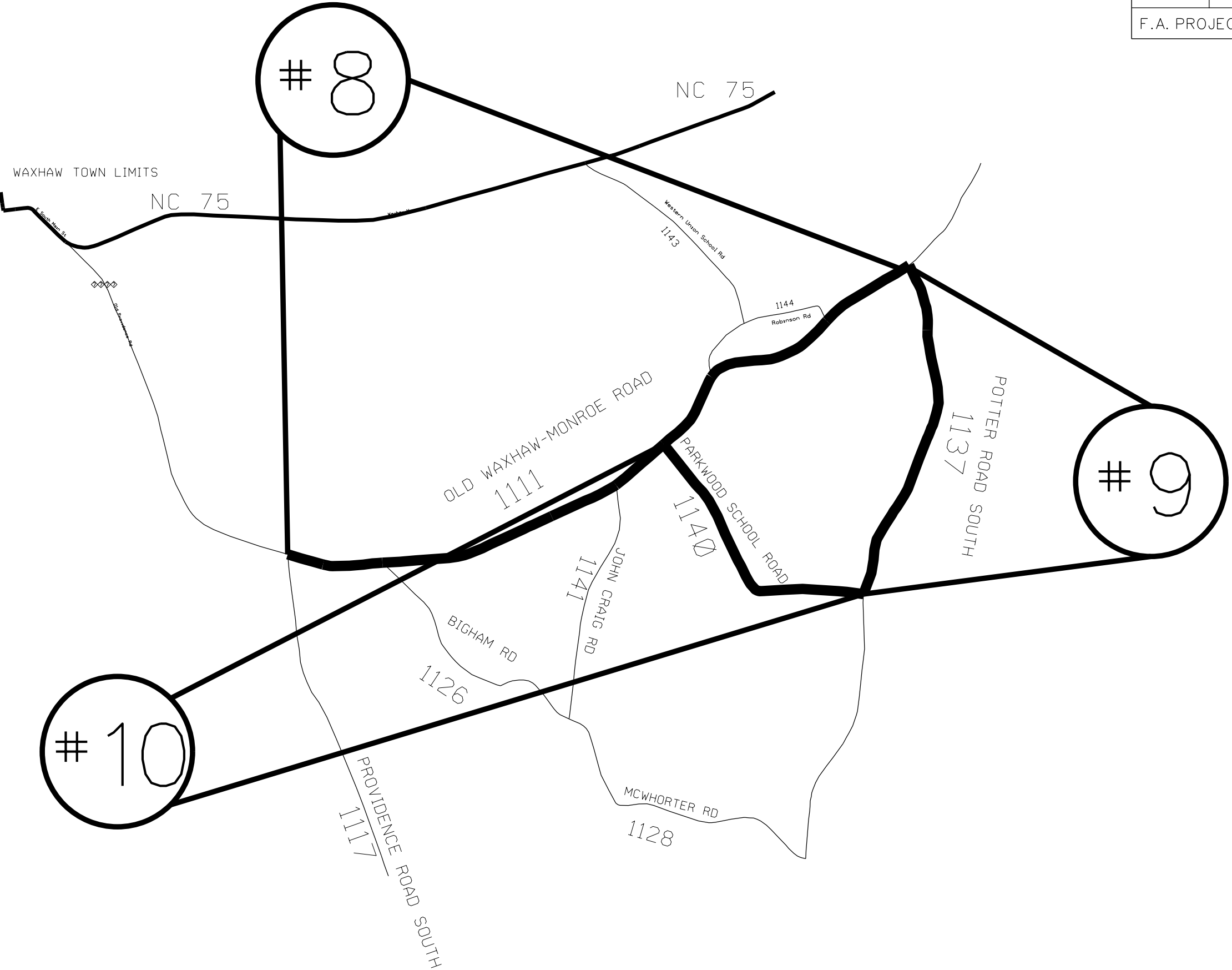
MAP #4 SR 2582 BROOKSIDE DRIVE
 0.34 MILES
 FROM END OF MAINTANACE
 TO END OF MAINTANANCE

MAP #5 SR 2583 BASILWOOD CIRCLE
 0.34 MILES
 FROM SR 2582 BROOKSIDE DRIVE
 TO SR 2582 BROOKSIDE DRIVE

MAP #6 SR 2584 CRESTHAVEN DRIVE
 0.09 MILES
 FROM SR 2581 DEERTRACK LANE
 TO END OF MAINTENANCE

MAP #7 SR 2585 OVERLOOK DRIVE
 0.08 MILES
 FROM SR 2581 DEERTRACK LANE
 TO END OF MAINTENANCE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	3	
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 #8 SR 1111 OLD WAXHAW-MONROE ROAD
 3.14 MILES
 FROM SR 1137 POTTER ROAD SOUTH
 TO SR 1117 PROVIDENCE ROAD SOUTH

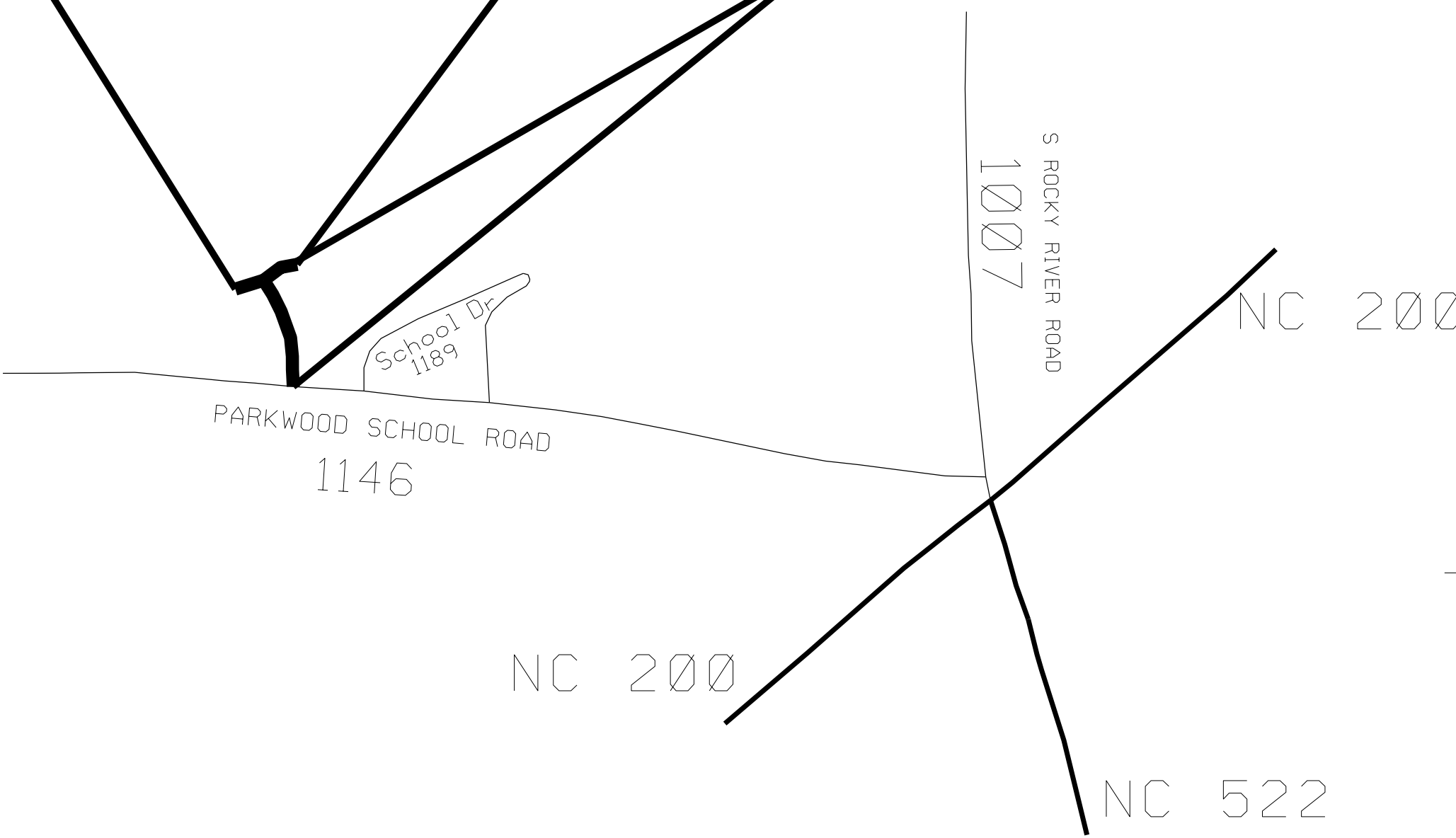
MAP #9 SR 1137 POTTER ROAD SOUTH
 1.51 MILES
 FROM SR 1140 PARKWOOD SCHOOL ROAD
 TO SR 1111 OLD WAXHAW-MONROE ROAD

MAP #10 SR 1140 PARKWOOD SCHOOL ROAD
 1.2 MILES
 FROM SR 1111 OLD WAXHAW-MONROE ROAD
 TO SR 1137 POTTER ROAD SOUTH

MAP #12 SR 3106
WYNBROOK WAY

MAP #11 SR 3105
LESLIE DRIVE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	4	
F.A. PROJECT NO.			



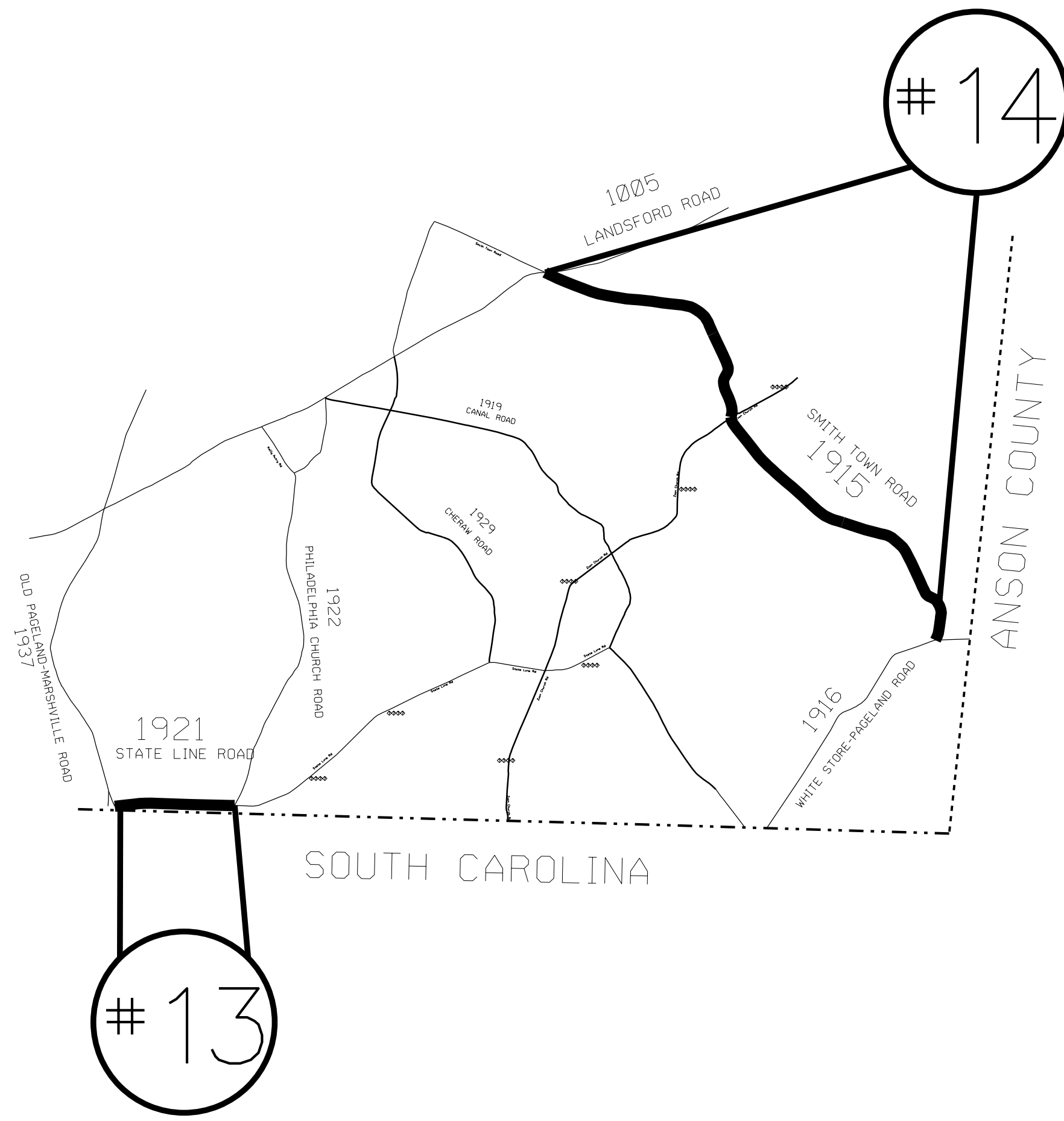
ENLARGED MUNICIPAL AND SUBURBAN AREAS
 UNION COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #11 SR 3105 LESLIE DRIVE
 0.08 MILES
 FROM SR 1146 PARKWOOD SCHOOL ROAD
 TO SR SR 3106 WYNBROOK WAY

MAP #12 SR 3106 WYNBROOK WAY
 0.05 MILES
 FROM END OF MAINTANANCE
 TO END OF MAINTANANCE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	5	
F.A. PROJECT NO.			

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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 #13 SR 1921 STATE LINE ROAD
 0.64 MILES
 FROM SR 1937 OLD PAGELAND-MARSHVILLE ROAD
 TO SR 1922 PHILADELPHIA CHURCH ROAD

MAP #14 SR 1915 SMTH TOWN ROAD
 3.8 MILES
 FROM SR 1005 LANDSFORD ROAD
 TO SR 1916 WHITE STORE-PAGELAND ROAD

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STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	6	
F.A. PROJECT NO.			

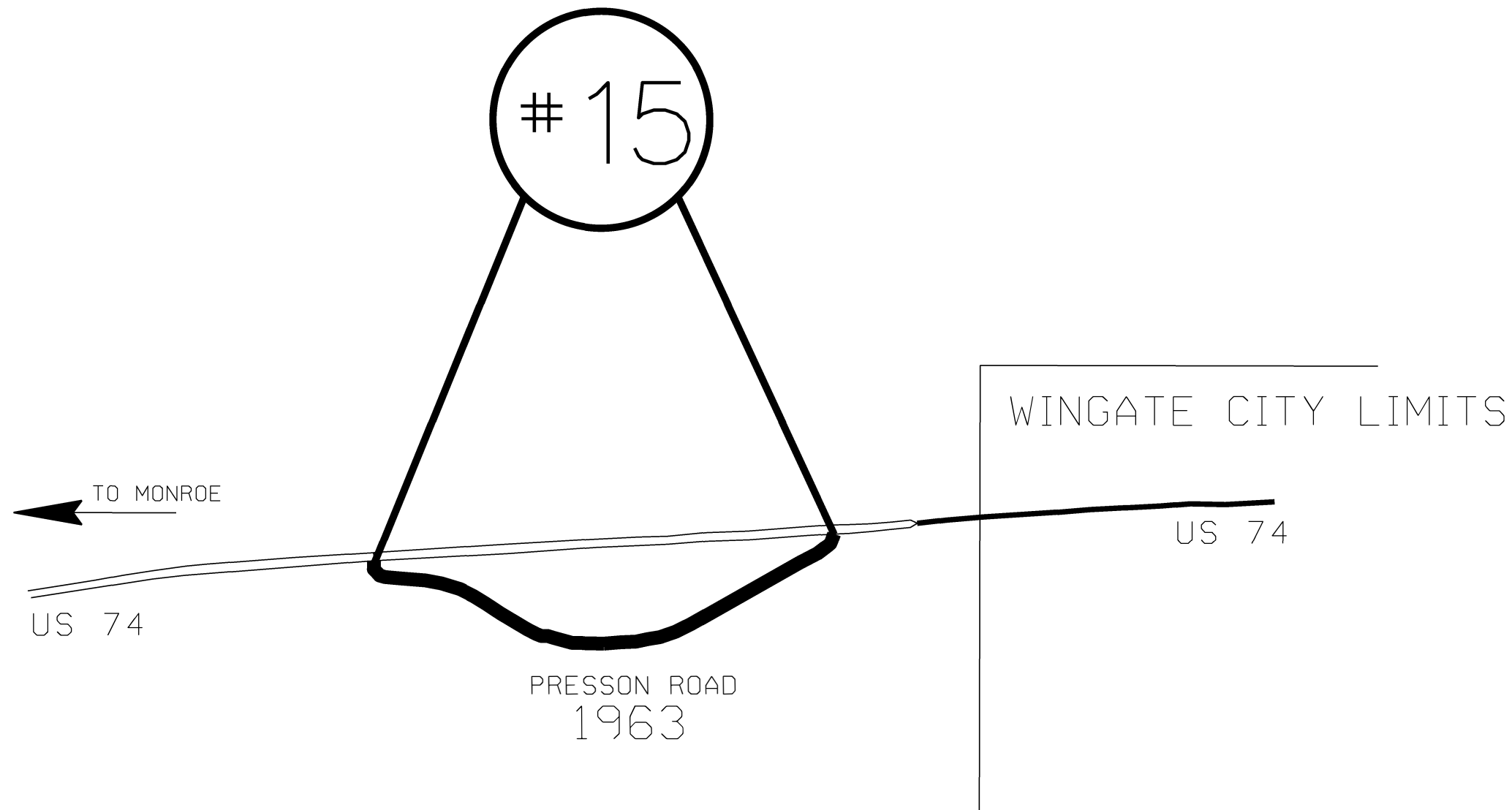


ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

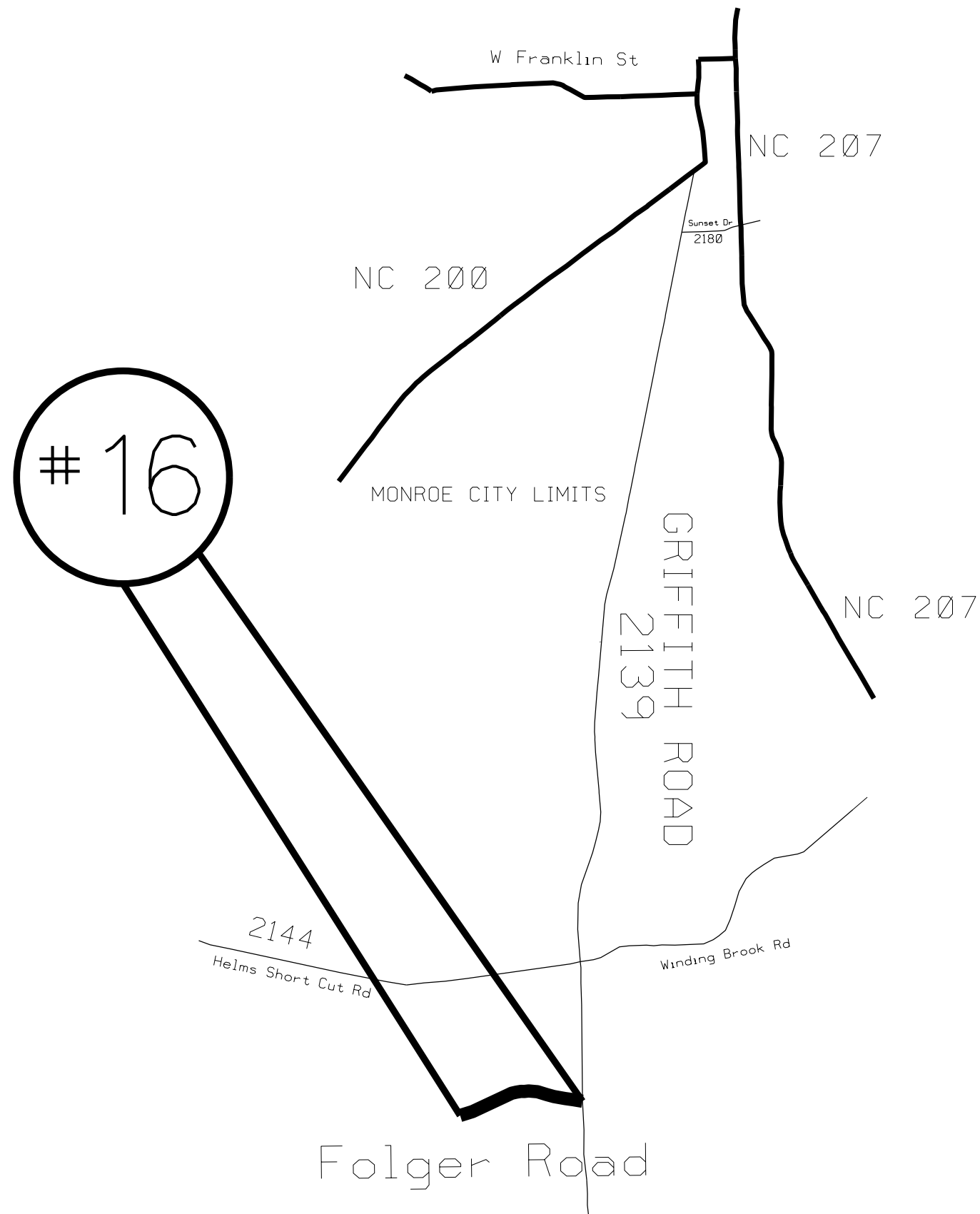
NORTH CAROLINA

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3



MAP #15 SR 1963 PRESSON ROAD
0.72 MILES
FROM US 74 TO US 74

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	7	
F.A. PROJECT NO.			



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

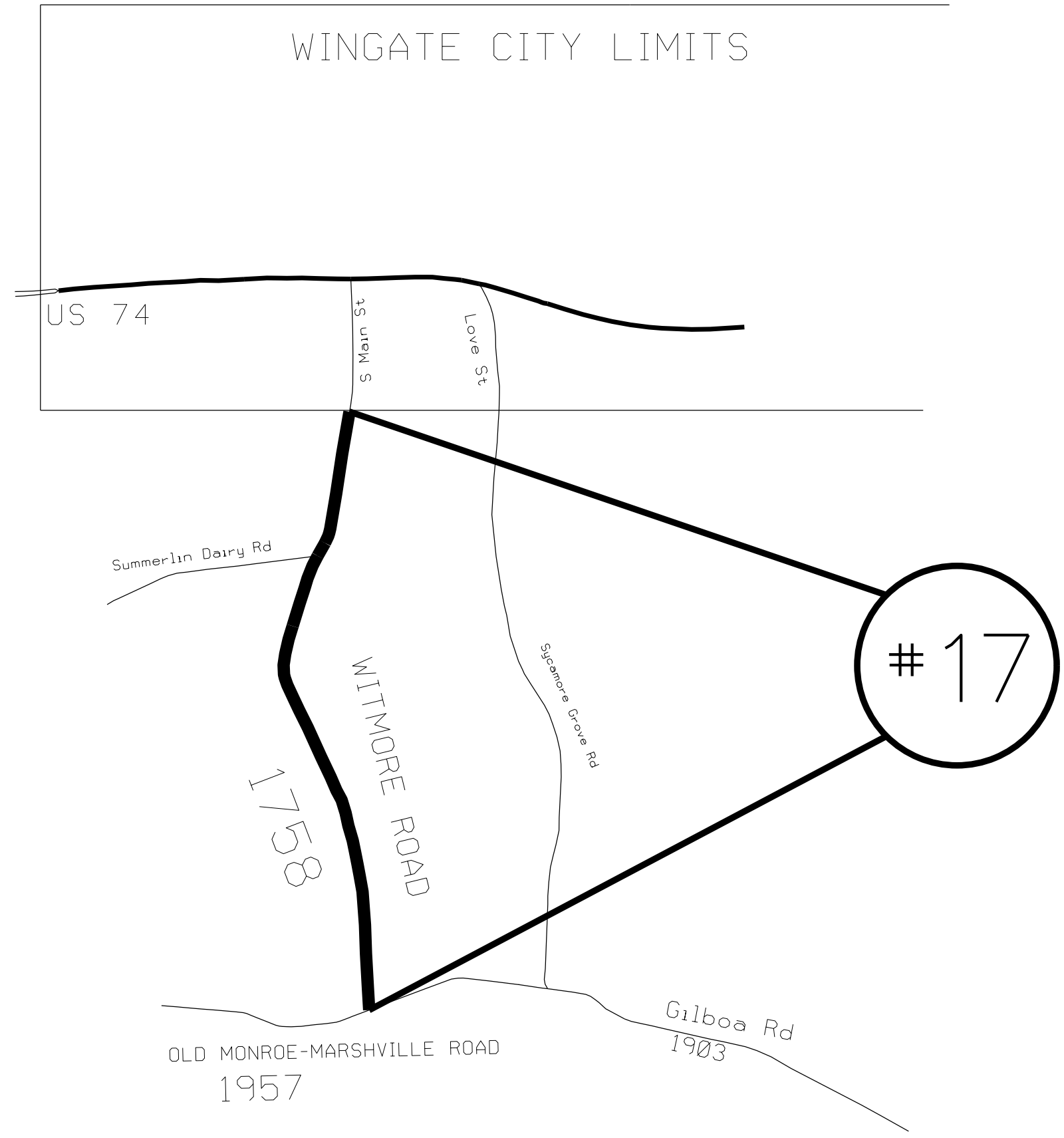
MAP #16 SR 2221 FOLGER ROAD
 0.33 MILES
 FROM SR 2139 GRIFFITH ROAD
 TO END OF MAINTANANCE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	8	
F.A. PROJECT NO.			



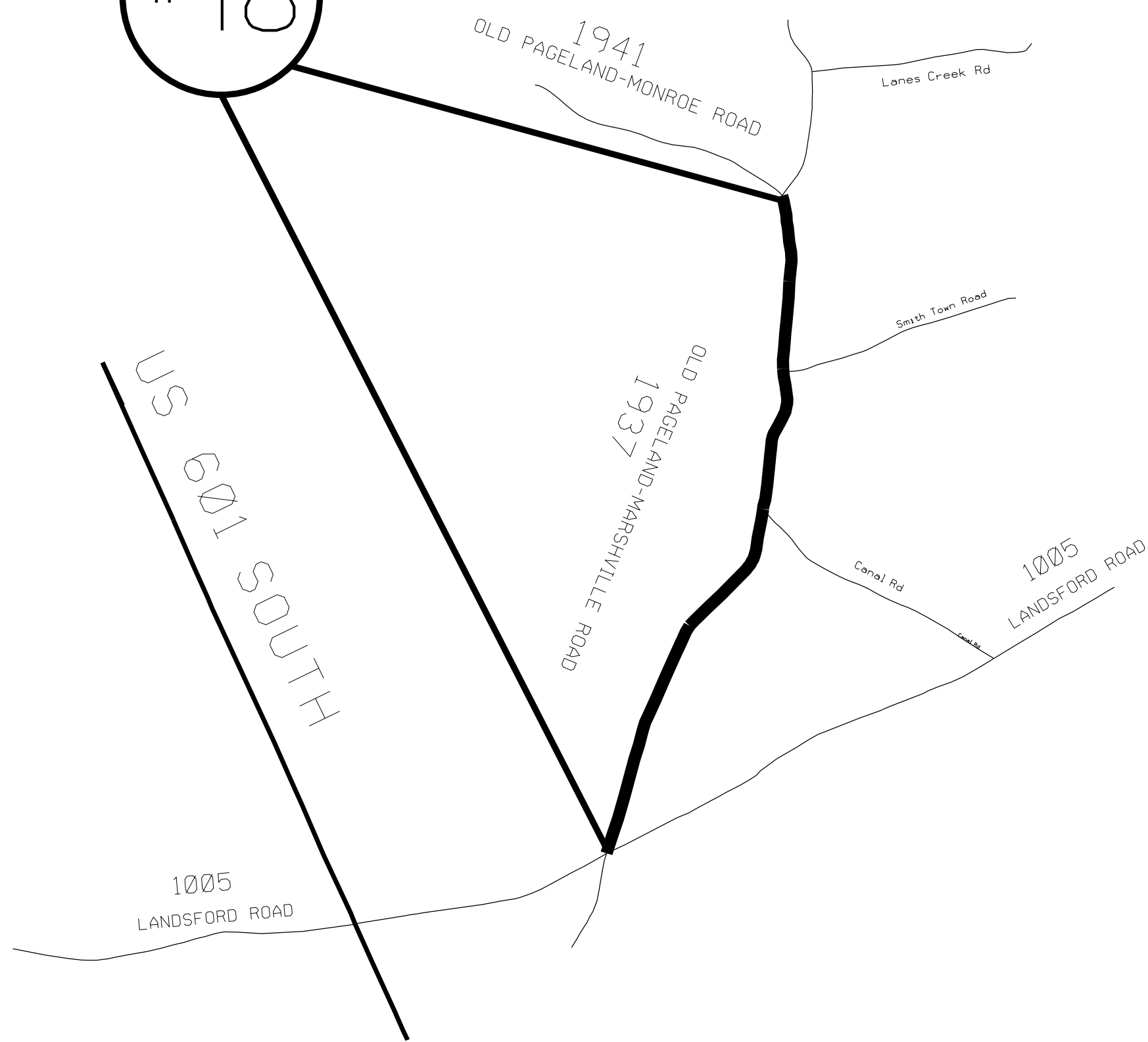
ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #17 SR 1758 WITMORE ROAD
 1.45 MILES
 FROM PAVEMENT JOINT
 TO SR 1957 OLD MONROE-MARSHVILLE ROAD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
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F.A. PROJECT NO.			

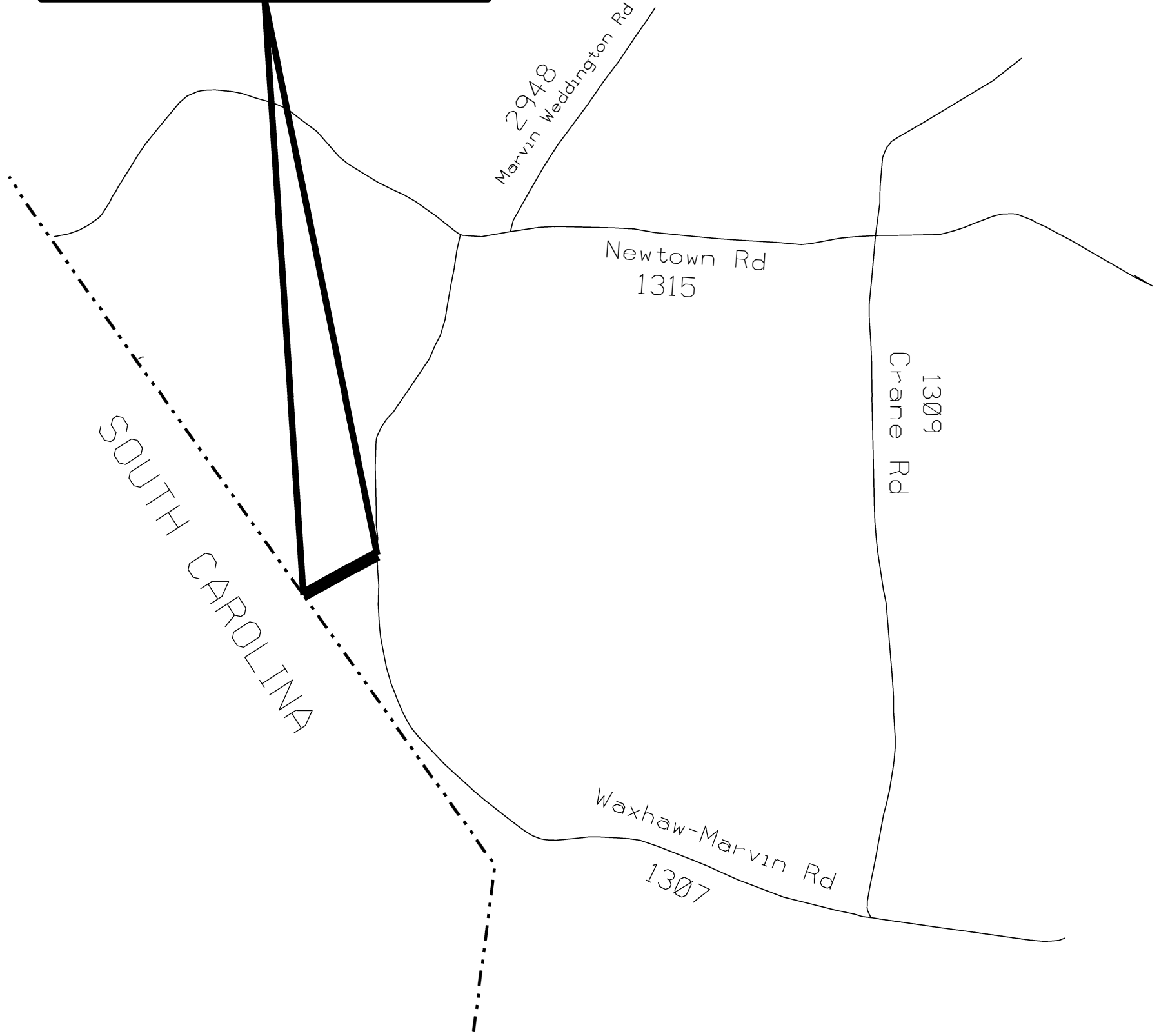
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ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #18 SR 1937 OLD PAGELAND-MARSHVILLE ROAD
 2.58 MILES
 FROM SR 1941 OLD PAGELAND-MONROE ROAD
 TO SR 1005 LANDSFORD ROAD

MAP #19 SR 1311
 STACEY HOWIE ROAD



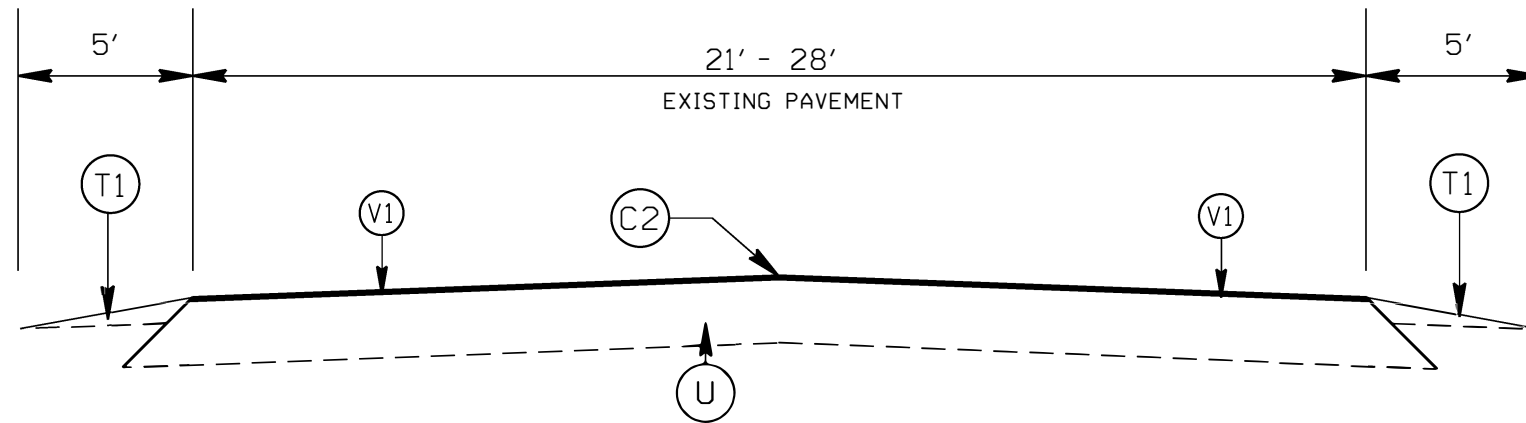
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
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F.A. PROJECT NO.			



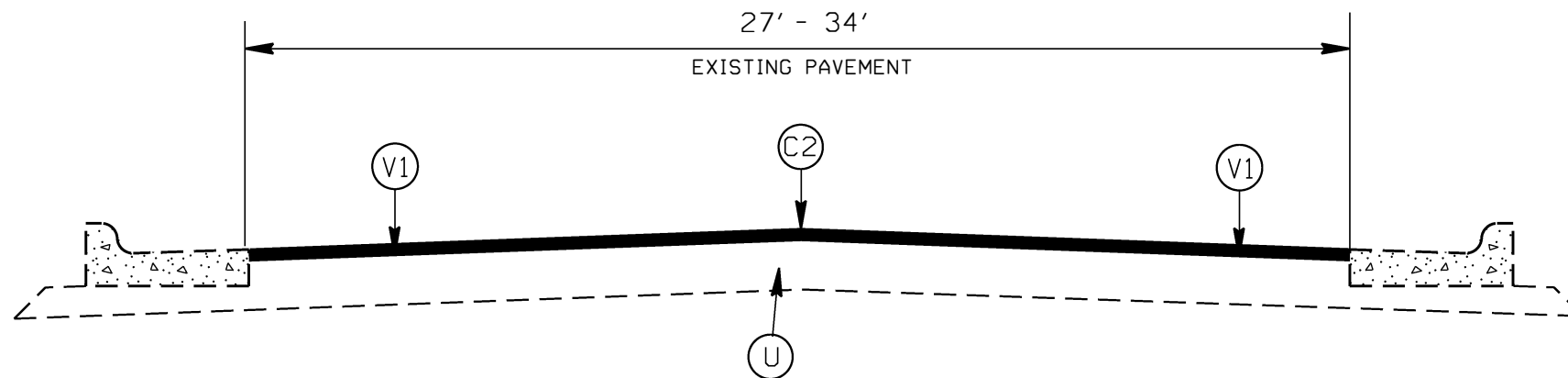
ENLARGED MUNICIPAL AND SUBURBAN AREAS
 UNION COUNTY
 NORTH CAROLINA

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

MAP #19 SR 1311 STACEY HOWIE ROAD
 0.21 MILES
 FROM SR 1307 WAXHAW-MARVIN ROAD
 TO SOUTH CAROLINA STATE LINE



TYPICAL SECTION NO. 1
NC 207 (MAP 1)



TYPICAL SECTION NO. 2
NC 207 (MAP 2)

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N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	11	
F.A. PROJECT NO.			

PAVEMENT SCHEDULE

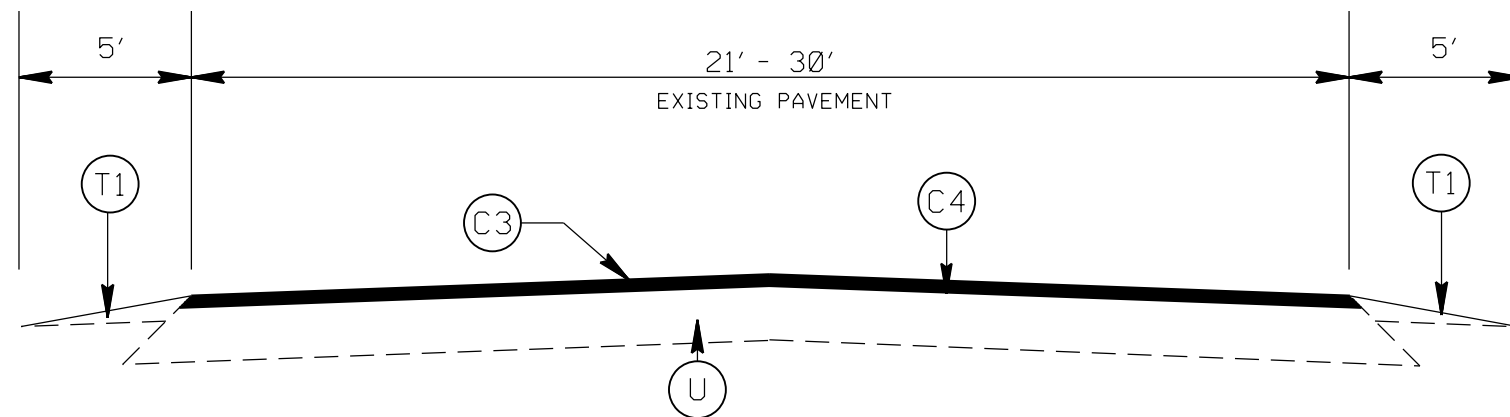
(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ. YD.
(C4)	ASPHALT SURFACE TREATMENT, MAT COAT * 78M
(C5)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING ASPHALT PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	MILLING 6" OF EXISTING ASPHALT PAVEMENT, 5" DEPTH. (SEE S.P. TRENCHING FOR BASE COURSE BY MILLING.)
(W)	EXISTING CONCRETE PAVEMENT
(Z)	FULL DEPTH RECLAMATION

2021-2022
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	1/20		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	12	
F.A. PROJECT NO.			

PAVEMENT SCHEDULE



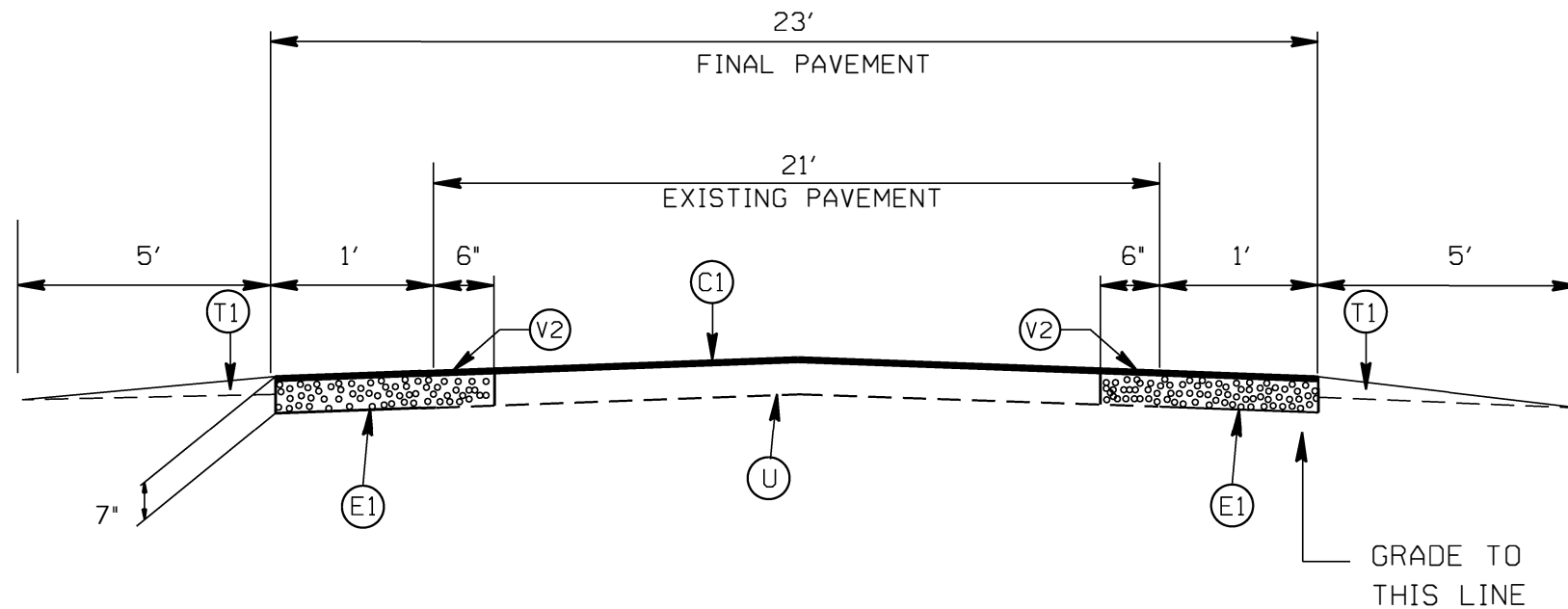
TYPICAL SECTION NO. 3
 SR 2581 DEERTRACK LANE (MAP 3)
 SR 2582 BROOKSIDE DRIVE (MAP 4)
 SR 2583 BASILWOOD CIRCLE (MAP 5)
 SR 2584 CRESTHAVEN DRIVE (MAP 6)
 SR 2585 OVERLOOK DRIVE (MAP 7)
 SR 3105 LESLIE DRIVE (MAP 11)
 SR 3106 WYNBROOK WAY (MAP 12)

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ. YD.
(C4)	ASPHALT SURFACE TREATMENT, MAT COAT # 78M
(C5)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING ASPHALT PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	MILLING 6" OF EXISTING ASPHALT PAVEMENT, 5" DEPTH. (SEE S.P. TRENCHING FOR BASE COURSE BY MILLING.)
(W)	EXISTING CONCRETE PAVEMENT
(Z)	FULL DEPTH RECLAMATION

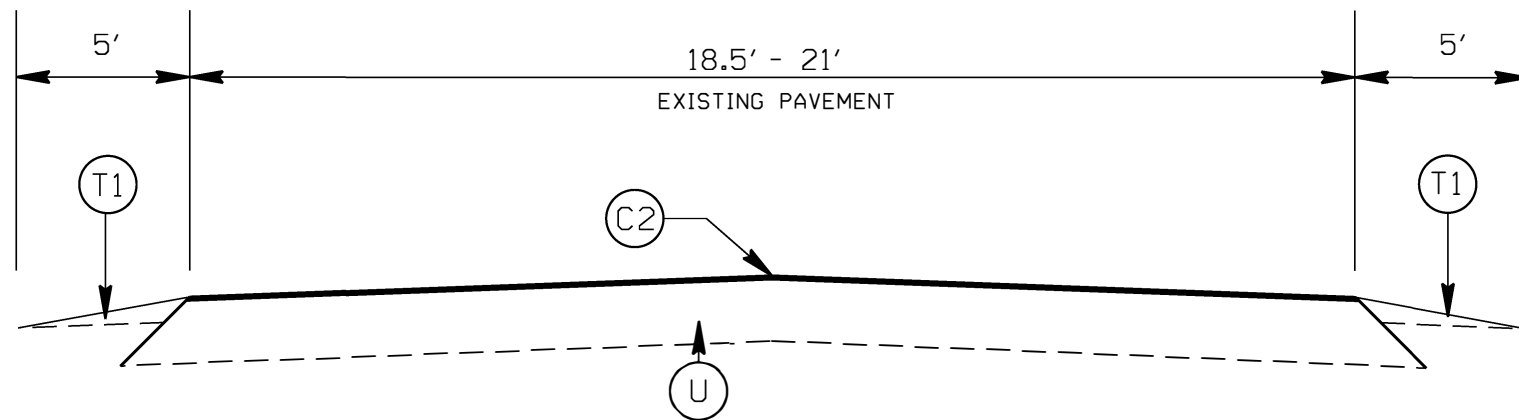
2021-2022
 UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	1/20		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	13	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 4
SR 1111 OLD WAXHAW-MONROE ROAD (MAP 8)



TYPICAL SECTION NO. 5
SR 1137 POTTER ROAD SOUTH (MAP 9)
SR 1140 PARKWOOD SCHOOL ROAD (MAP 10)
SR 1921 STATE LINE ROAD (MAP 13)
SR 1915 SMITH TOWN ROAD (MAP 14)

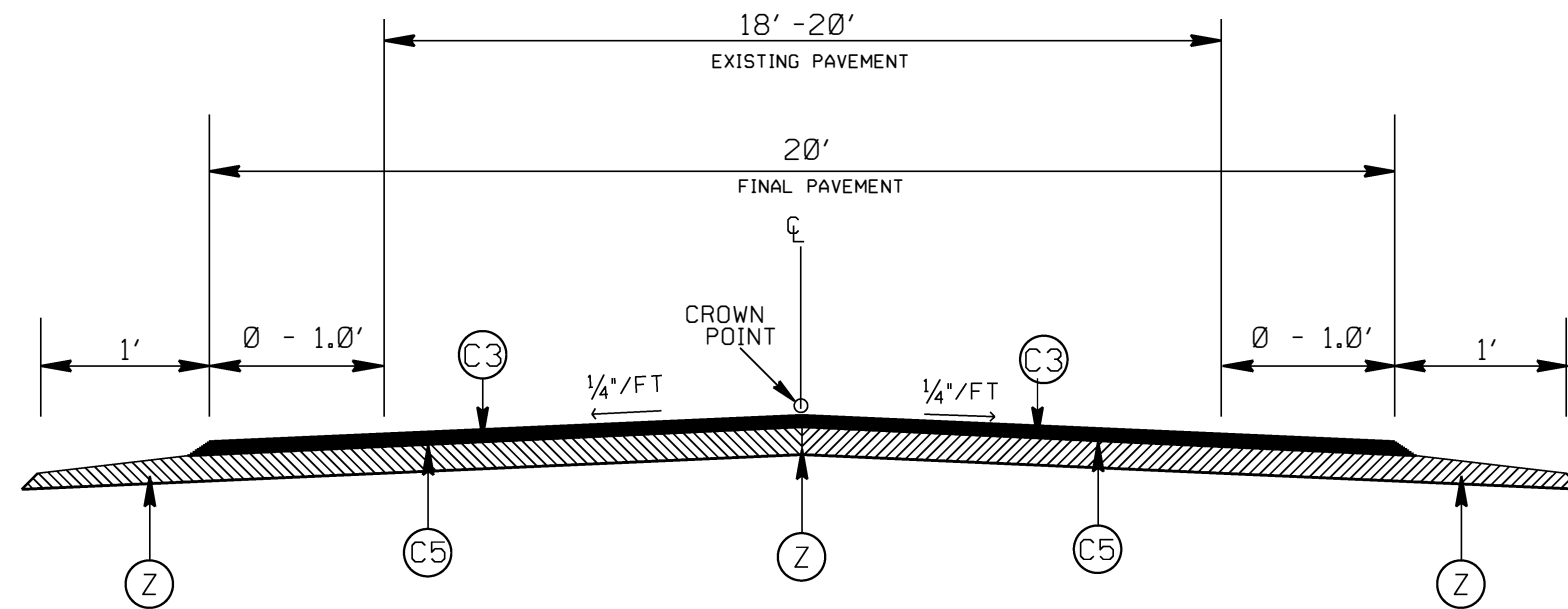
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ. YD.
(C4)	ASPHALT SURFACE TREATMENT, MAT COAT # 78M
(C5)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING ASPHALT PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	MILLING 6" OF EXISTING ASPHALT PAVEMENT, 5" DEPTH. (SEE S.P. TRENCHING FOR BASE COURSE BY MILLING.)
(W)	EXISTING CONCRETE PAVEMENT
(Z)	FULL DEPTH RECLAMATION

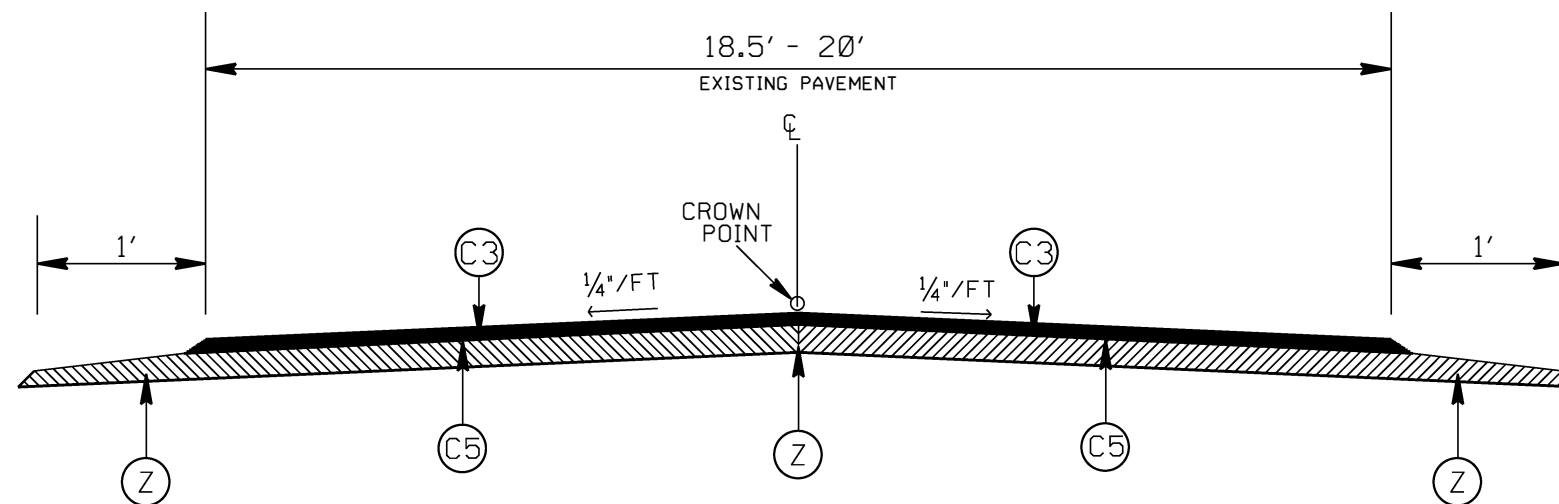
2021-2022
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	1/20		
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DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	14	
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TYPICAL SECTION NO. 6
SR 1758 WHITMORE ROAD (MAP 17)



TYPICAL SECTION NO. 7
SR 1937 OLD PAGELAND-MARSHVILLE ROAD (MAP 18)
SR 1311 STACEY HOWIE ROAD (MAP 19)

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ. YD.
(C4)	ASPHALT SURFACE TREATMENT, MAT COAT # 78M
(C5)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING ASPHALT PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	MILLING 6" OF EXISTING ASPHALT PAVEMENT, 5" DEPTH. (SEE S.P. TRENCHING FOR BASE COURSE BY MILLING.)
(W)	EXISTING CONCRETE PAVEMENT
(Z)	FULL DEPTH RECLAMATION

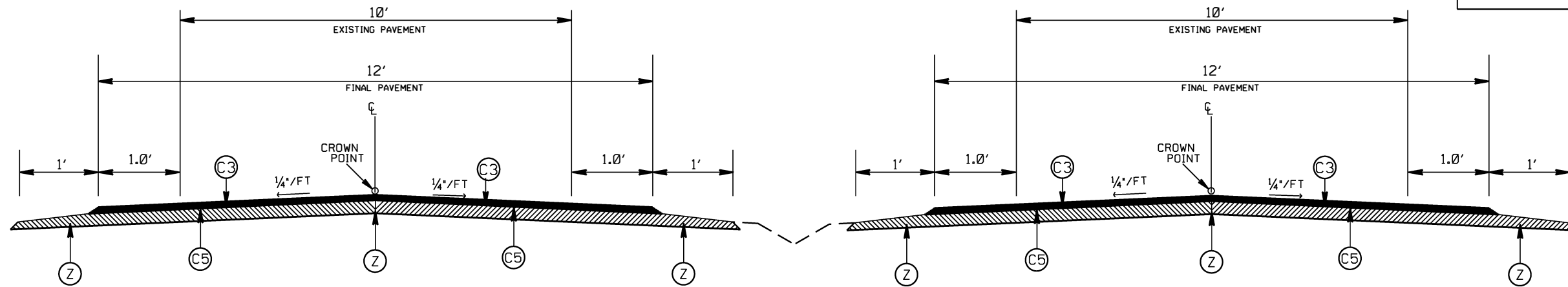
2021-2022
UNION COUNTY RESURFACING

SCALE	-NA-
DATE	1/20
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	CLA



REVISIONS	

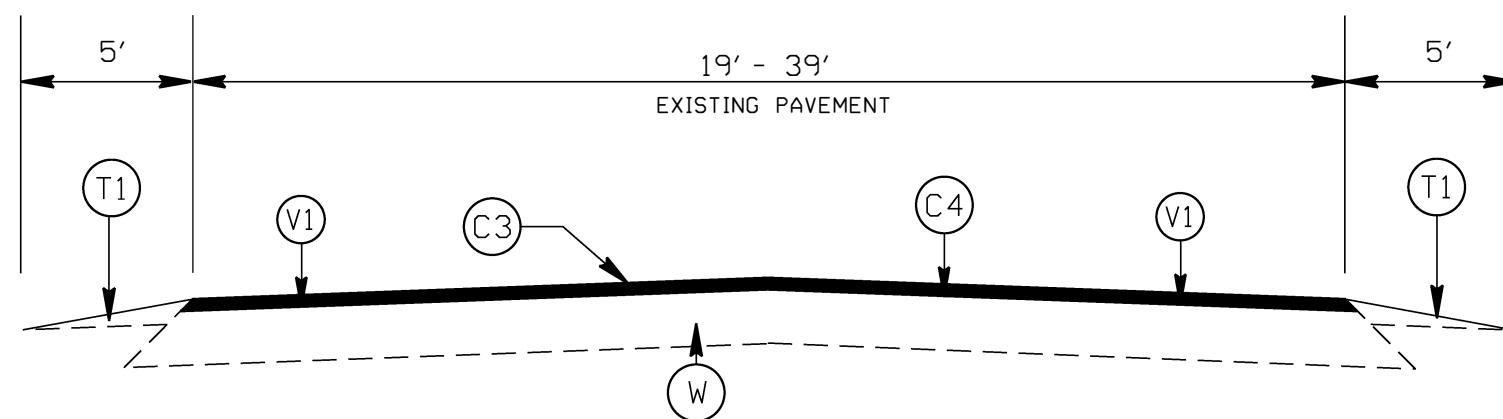
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	15	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 8
SR 2221 FOLGER ROAD (MAP 16)


PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ. YD.
(C4)	ASPHALT SURFACE TREATMENT, MAT COAT # 78M
(C5)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING ASPHALT PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	MILLING 6" OF EXISTING ASPHALT PAVEMENT, 5" DEPTH. (SEE S.P. TRENCHING FOR BASE COURSE BY MILLING.)
(W)	EXISTING CONCRETE PAVEMENT
(Z)	FULL DEPTH RECLAMATION

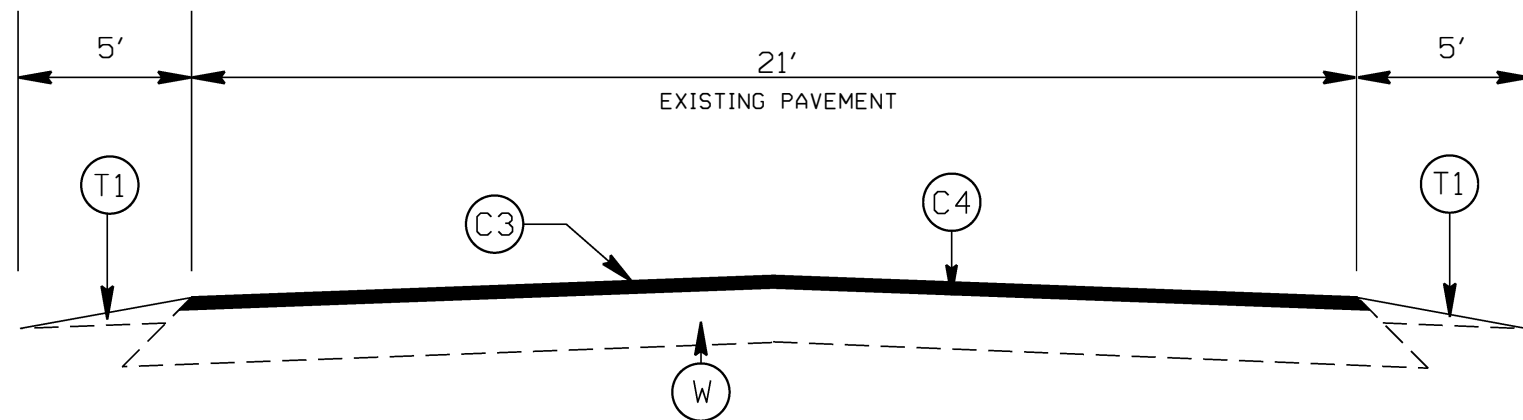


TYPICAL SECTION NO. 9
SR 1963 PRESSON ROAD (MAP 15)
APPROX. STA: 10+00 TO STA: 12+00

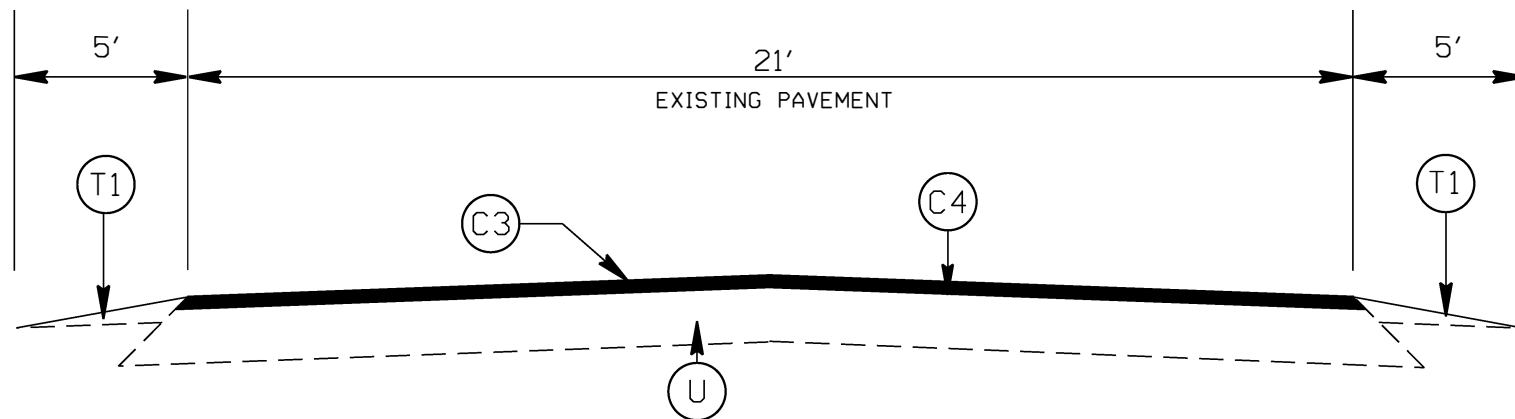
2021-2022
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS	
DATE	1/20			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	16	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 10
SR 1963 PRESSON ROAD (MAP 15)
APPROX. STA: 12+00 TO STA: 46+45



TYPICAL SECTION NO. 11
SR 1963 PRESSON ROAD (MAP 15)
APPROX. STA: 46+45 TO 47+95

PAVEMENT SCHEDULE

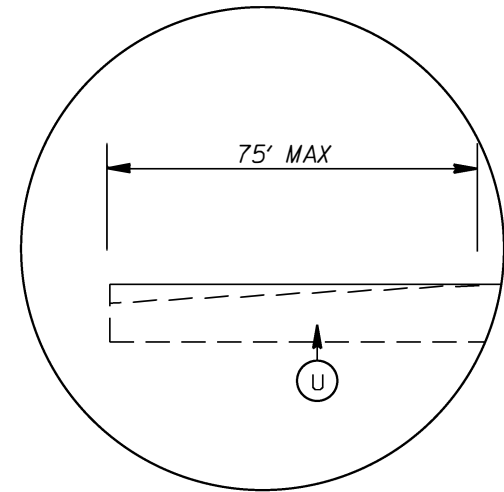
(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ. YD.
(C4)	ASPHALT SURFACE TREATMENT, MAT COAT # 78M
(C5)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING ASPHALT PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	MILLING 6" OF EXISTING ASPHALT PAVEMENT, 5" DEPTH. (SEE S.P. TRENCHING FOR BASE COURSE BY MILLING.)
(W)	EXISTING CONCRETE PAVEMENT
(Z)	FULL DEPTH RECLAMATION

2021-2022
UNION COUNTY RESURFACING

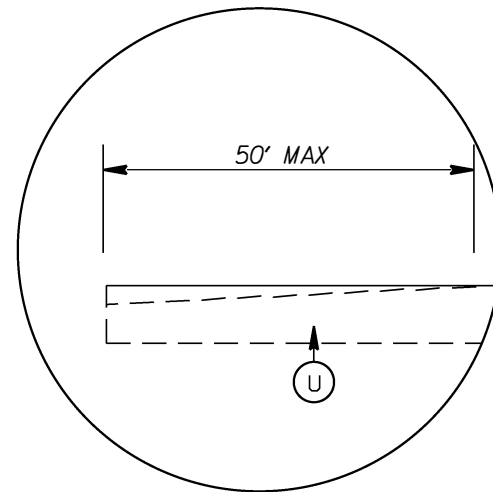
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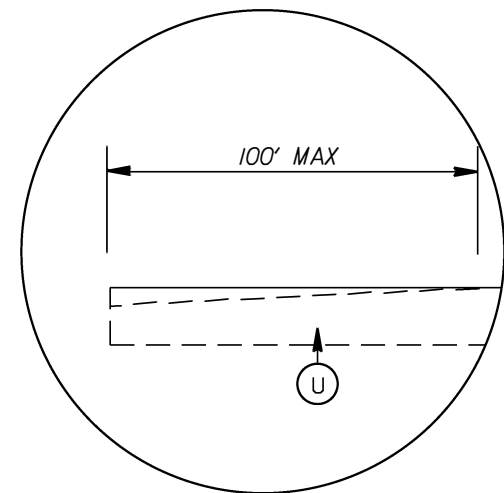
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	17	
F.A. PROJECT NO.			



DETAIL FOR INCIDENTAL MILLING (0" TO 1.5")
TIE-IN

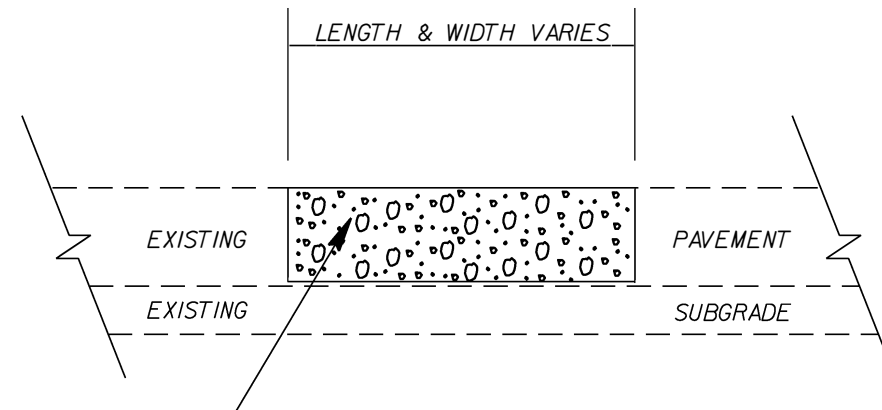


DETAIL FOR INCIDENTAL MILLING (0" TO 1.0")
TIE-IN



DETAIL FOR INCIDENTAL MILLING (0" TO 2.0")
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. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS PER SQ. YD.
(C4)	ASPHALT SURFACE TREATMENT, MAT COAT # 78M
(C5)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING ASPHALT PAVEMENT
(V1)	MILLING EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	MILLING 6" OF EXISTING ASPHALT PAVEMENT, 5" DEPTH. (SEE S.P. TRENCHING FOR BASE COURSE BY MILLING.)
(W)	EXISTING CONCRETE PAVEMENT
(Z)	FULL DEPTH RECLAMATION

2021-2022
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	1/20		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	18	
F.A. PROJECT NO.			

NOTES:

1. ON MAPS 1 AND 14 , MILL AND FILL BRIDGE WITH 1.5" S9.5C.
2. ON MAP 17 , MILL AND FILL BRIDGE WITH 1.0" S9.5B.
3. ON MAP 18 , SKIP NEW BRIDGE AT APPROX. STA: 25+00.
MILL AND FILL BRIDGE, AT APPROX. STA: 103+65, WITH 1.0' S9.5B.
4. DEPTH OF PATCHING WILL BE AS DIRECTED BY THE ENGINEER.
5. SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER.
6. FULL DEPTH RECLAMATION AND AST SHALL BE COMPLETED, ON MAPS 16, 17, 18 AND 19.
PRIOR TO THE ASPHALT OVERLAY.
7. WIDENING WITH ABC, ON FULL DEPTH RECLAMATION MAPS 16 AND 17 , WILL BE DONE
BY STATE FORCES.
8. ASPHALT PATCHING ON MAPS 9, 10, AND 13, WILL BE DONE BY STATE FORCES.

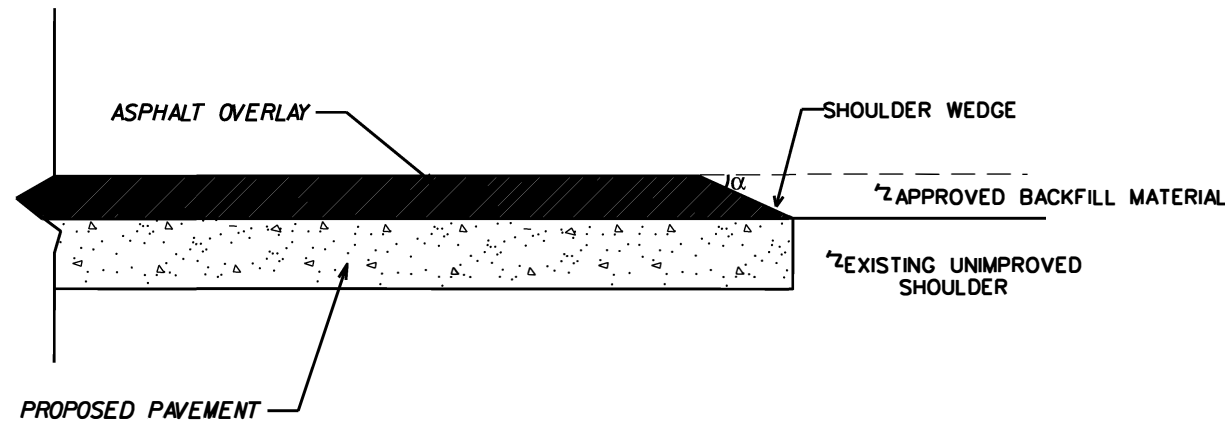
2021-2022 UNION COUNTY RESURFACING		REVISIONS	
SCALE	-NA-		
DATE	01/20		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		



NOTES:

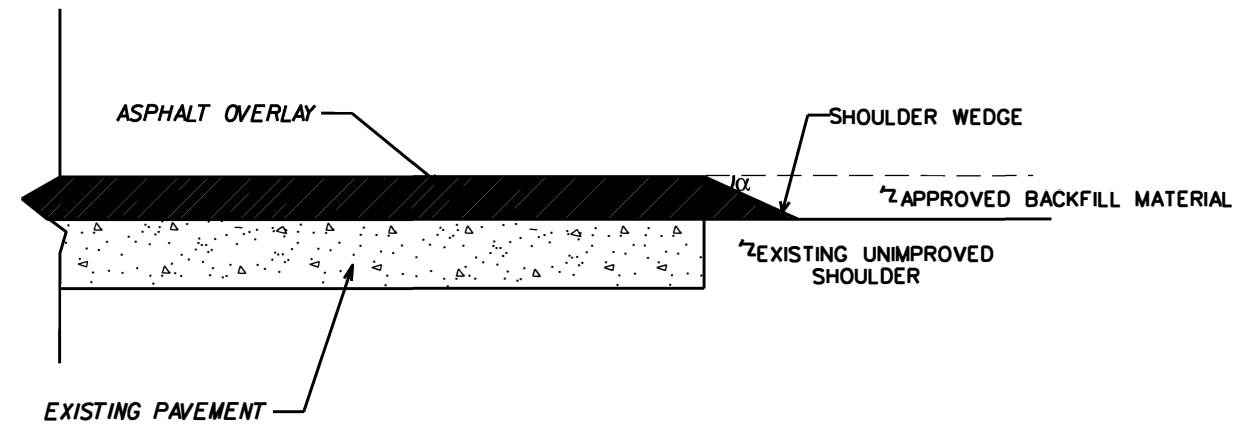
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	19	
F.A. PROJECT NO.			



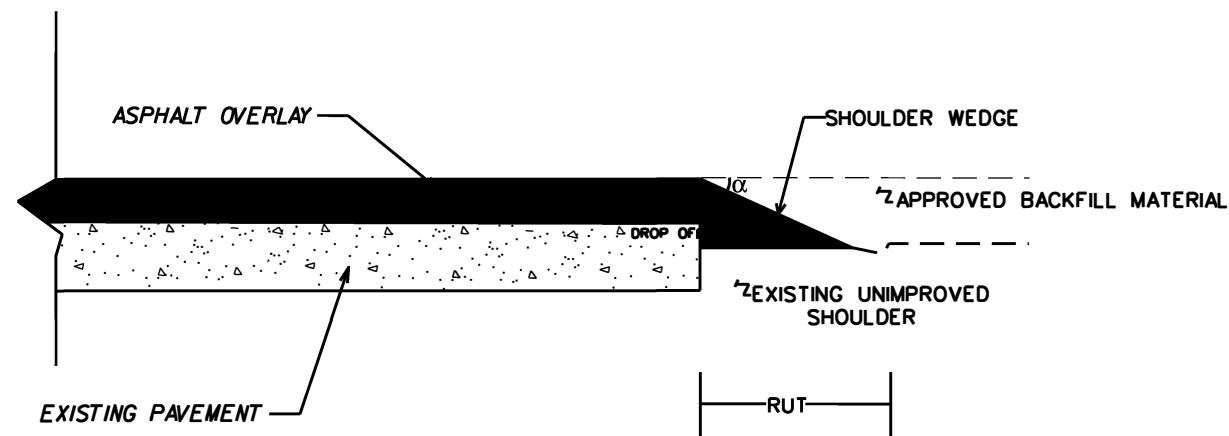
SHOULDER WEDGE DETAIL

(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)

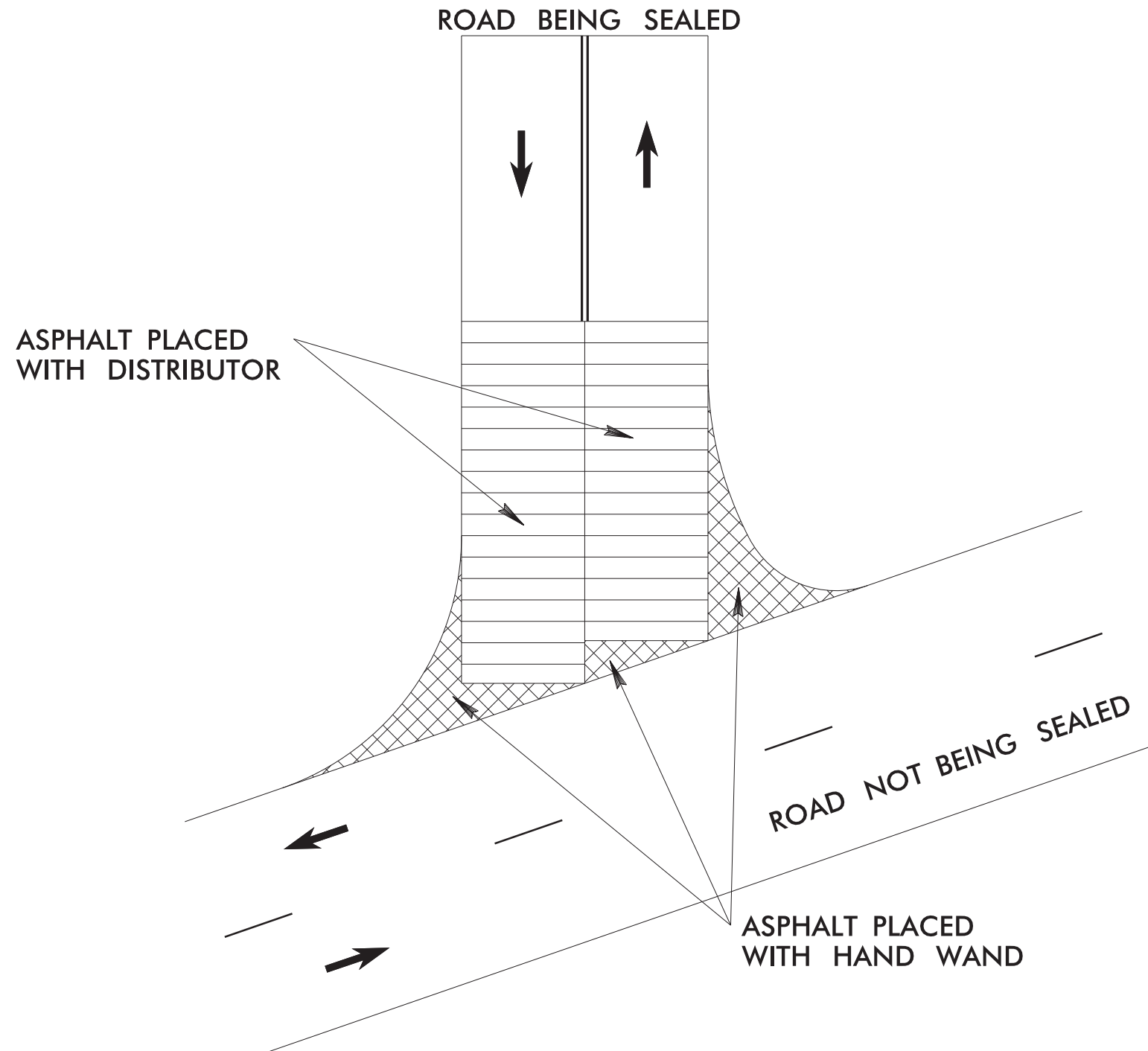
$\alpha = 30$ DEGREES

SHOULDER WEDGE DETAILS		
SCALE	-NA-	REVISIONS
DATE	08/18	
DWG. BY	AMO	
DESIGN BY	AMO	
APPROVED	CLA	



INTERSECTION EMULSION PLACEMENT TWO LANE TWO WAY ROADWAY

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.20.13.20901 2021CPT.10.13.20902	20	
F.A. PROJECT NO.			



LEGEND

- ➔ DIRECTION OF TRAFFIC FLOW
- SKIP LINES
- === DOUBLE YELLOW LINES

INTERSECTION EMULSION PLACEMENT		
SCALE	N/A	REVISIONS
DATE	9-2019	
DWG. BY	TBL	
DESIGN BY	TBL	
APPROVED	TWB	



PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.10.13.10901, 2021CPT.10.13.20901, 2021CPT.10.13.20902	21	

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	0241000000-E	1187000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E	1775000000-E			
												BORROW	GENERIC GRADING ITEM, SOIL CEMENT BASE (FULL DEPTH RECLAMATION)	PORTLAND CEMENT FOR SOIL CEMENT BASE	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	1" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE		
												MI	FT	CY	SY	TON	TONS	SMI	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SY
2021CPT.10.13.10901	Union	1	NC207	FROM SR 2115 STACK ROAD TO SR 2181 SUNSET DRIVE MILEPOST 9.16-11.23	1	2	2WU	NO	NO	2.07	21-28	635			50	4.10	25,758		1,111			2,600		156	1,035				
TOTAL FOR MAP NO. 1												2.07		635			50	4.10	25,758		1,111		2,600		156	1,035			
2021CPT.10.13.10901	Union	2	NC207	FROM SR 2181 SUNSET DRIVE TO WEST MORROW AVENUE MILEPOST 11.23-11.7	2	2	2WU	NO	NO	0.47	27-34						8,230		1,333			985		59	235				
TOTAL FOR MAP NO. 2												0.47							8,230		1,333		985		59	235			
TOTAL FOR PROJ NO. 2021CPT.10.13.10901												2.54		635			50	4.10	33,988		2,444		3,585		215	1,270			
2021CPT.10.13.20901	Union	3	SR 2581 DEERTRACK LANE	FROM SR 1007 ROCKY RIVER ROAD TO SR 2582 BROOKSIDE DRIVE MILEPOST 0-0.65	3	2	2WU	NO	NO	0.65	21	67			135	1.30			117			490		33	290	8,085			
TOTAL FOR MAP NO. 3												0.65		67			135	1.30		117		490		33	290	8,085			
2021CPT.10.13.20901	Union	4	SR 2582 BROOKSIDE DRIVE	FROM END OF MAINTENANCE TO END OF MAINTENANCE MILEPOST 0-0.65	3	2	2WU	NO	NO	0.34	21	35			105	0.70					250		17	155	4,130				
TOTAL FOR MAP NO. 4												0.34		35			105	0.70				250		17	155	4,130			
2021CPT.10.13.20901	Union	5	SR 2583 BASILWOOD CIRCLE	FROM SR 2582 BROOKSIDE DRIVE TO SR 2582 BROOKSIDE DRIVE MILEPOST 0-0.34	3	2	2WU	NO	NO	0.34	21	35			65	0.70					250		17	155	4,181				
TOTAL FOR MAP NO. 5												0.34		35			65	0.70				250		17	155	4,181			
2021CPT.10.13.20901	Union	6	SR 2584 CRESTHAVEN DRIVE	FROM SR 2581 DEERTRACK LANE TO END OF MAINTENANCE MILEPOST 0-0.09	3	2	2WU	NO	NO	0.09	21	10			15	0.20					68		5	40	1,113				
TOTAL FOR MAP NO. 6												0.09		10			15	0.20				68		5	40	1,113			
2021CPT.10.13.20901	Union	7	SR 2585 OVERLOOK DRIVE	FROM SR 2581 DEERTRACK LANE TO END OF MAINTENANCE MILEPOST 0-0.08	3	2	2WU	NO	NO	0.08	21	9			15	0.20					62		4	36	1,017				
TOTAL FOR MAP NO. 7												0.08		9			15	0.20				62		4	36	1,017			
2021CPT.10.13.20901	Union	8	SR 1111 OLD WAXHAW-MONROE ROAD	FROM SR 1137 POTTER ROAD SOUTH TO SR 1117 PROVIDENCE ROAD SOUTH MILEPOST 4.91-1.77	4	2	2WU	NO	NO	3.14	23	480			140	6.30			733			4,816	1,567	461	1,570				
TOTAL FOR MAP NO. 8												3.14		480			140	6.30		733	1,730		4,816	1,567	461	1,570			
2021CPT.10.13.20901	Union	9	SR 1137 POTTER ROAD SOUTH	FROM SR 1140 PARKWOOD SCHOOL ROAD TO SR 1111 OLD WAXHAW-MONROE ROAD MILEPOST 6.78-8.29	5	2	2WU	NO	NO	1.51	21	230			130	6.30			211			1,780	779	154					
TOTAL FOR MAP NO. 9												1.51		230			130	6.30		211			1,780	779	154				
2021CPT.10.13.20901	Union	10	SR 1140 PARKWOOD SCHOOL ROAD	FROM SR 1111 OLD WAXHAW-MONROE ROAD TO SR 1137 POTTER ROAD SOUTH MILEPOST 0-1.2	5	2	2WU	NO	NO	1.2	18.5	185			115	2.40			10			1,225	550	109					
TOTAL FOR MAP NO. 10												1.2		185			115	2.40		10			1,225	550	109				

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.10.13.10901, 2021CPT.10.13.20901, 2021CPT.10.13.20902	22	

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	1803500000	1838000000	1838500000	2600000000	2612000000	6130000000	2830000000	2845000000	6000000000	6009000000	6012000000	6071010000	6071020000			
												ASPHALT SURFACE TREATMENT, DOUBLE SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	RETROFIT EXISTING CURB RAMP	6" CONCRETE DRIVEWAYS	REMOVE AND REPLACE CURB RAMPS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	WATTLE	POLYACRYLAMIDE (PAM)			
												MI	FT	SY	GAL	WK	EA	SY	EA	EA	EA	LF	TN	TN	LF	LB	
2021CPT.10.13.10901	Union	1	NC207	FROM SR 2115 STACK ROAD TO SR 2181 SUNSET DRIVE MILEPOST 9.16-11.23	1	2	2WU	NO	NO	2.07	21-28								1	1	310	41	21	310	1		
TOTAL FOR MAP NO. 1											2.07								1	1	310	41	21	310	1		
2021CPT.10.13.10901	Union	2	NC207	FROM SR 2181 SUNSET DRIVE TO WEST MORROW AVENUE MILEPOST 11.23-11.7	2	2	2WU	NO	NO	0.47	27-34					8			3								
TOTAL FOR MAP NO. 2											0.47						8			3							
TOTAL FOR PROJ NO. 2021CPT.10.13.10901											2.54						8			3	1	1	310	41	21	310	1
2021CPT.10.13.20901	Union	3	SR 2581 DEERTRACK LANE	FROM SR 1007 ROCKY RIVER ROAD TO SR 2582 BROOKSIDE DRIVE MILEPOST 0-0.65	3	2	2WU	NO	NO	0.65	21									2	98	13	6	98			
TOTAL FOR MAP NO. 3											0.65						2,830			2	98	13	6	98			
2021CPT.10.13.20901	Union	4	SR 2582 BROOKSIDE DRIVE	FROM END OF MAINTENANCE TO END OF MAINTENANCE MILEPOST 0-0.65	3	2	2WU	NO	NO	0.34	21									1	51	7	3	51			
TOTAL FOR MAP NO. 4											0.34						1,450			1	51	7	3	51			
2021CPT.10.13.20901	Union	5	SR 2583 BASILWOOD CIRCLE	FROM SR 2582 BROOKSIDE DRIVE TO SR 2582 BROOKSIDE DRIVE MILEPOST 0-0.34	3	2	2WU	NO	NO	0.34	21									2	51	7	3	51			
TOTAL FOR MAP NO. 5											0.34						1,465			2	51	7	3	51			
2021CPT.10.13.20901	Union	6	SR 2584 CRESTHAVEN DRIVE	FROM SR 2581 DEERTRACK LANE TO END OF MAINTENANCE MILEPOST 0-0.09	3	2	2WU	NO	NO	0.09	21									1	13	2	1	13			
TOTAL FOR MAP NO. 6											0.09						390			1	13	2	1	13			
2021CPT.10.13.20901	Union	7	SR 2585 OVERLOOK DRIVE	FROM SR 2581 DEERTRACK LANE TO END OF MAINTENANCE MILEPOST 0-0.08	3	2	2WU	NO	NO	0.08	21									3	12	2	1	12			
TOTAL FOR MAP NO. 7											0.08						360			3	12	2	1	12			
2021CPT.10.13.20901	Union	8	SR 1111 OLD WAXHAW-MONROE ROAD	FROM SR 1137 POTTER ROAD SOUTH TO SR 1117 PROVIDENCE ROAD SOUTH MILEPOST 4.91-1.77	4	2	2WU	NO	NO	3.14	23						200				471	63	31	471			
TOTAL FOR MAP NO. 8											3.14						200				471	63	31	471			
2021CPT.10.13.20901	Union	9	SR 1137 POTTER ROAD SOUTH	FROM SR 1140 PARKWOOD SCHOOL ROAD TO SR 1111 OLD WAXHAW-MONROE ROAD MILEPOST 6.78-8.29	5	2	2WU	NO	NO	1.51	21										226	30	15	226			
TOTAL FOR MAP NO. 9											1.51										226	30	15	226			
2021CPT.10.13.20901	Union	10	SR 1140 PARKWOOD SCHOOL ROAD	FROM SR 1111 OLD WAXHAW-MONROE ROAD TO SR 1137 POTTER ROAD SOUTH MILEPOST 0-1.2	5	2	2WU	NO	NO	1.2	18.5										180	24	12	180			
TOTAL FOR MAP NO. 10											1.2										180	24	12	180			

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.10.13.10901, 2021CPT.10.13.20901, 2021CPT.10.13.20902	23	

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	BORROW	GENERIC GRADING ITEM, SOIL CEMENT BASE (FULL DEPTH RECLAMATION)	PORTLAND CEMENT FOR SOIL CEMENT BASE	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	1" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE
2021CPT.10.13.20901	Union	11	SR 3105 LESLIE DRIVE	FROM SR 1146 PARKWOOD SCHOOL ROAD TO SR 3106 WYNBROOK WAY MILEPOST 0-0.08	3	2	2WU	NO	NO	0.08	20	10				0.20			139		60			4	30	942	
TOTAL FOR MAP NO. 11										0.08		10			0.20			139		60			4	30	942		
2021CPT.10.13.20901	Union	12	SR 3106 WYNBROOK WAY	FROM END OF MAINTENANCE TO END OF MAINTENANCE MILEPOST 0-0.05	3	2	2WU	NO	NO	0.05	30	6				0.10					89			6	20	1,455	
TOTAL FOR MAP NO. 12										0.05		6			0.10					89			6	20	1,455		
2021CPT.10.13.20901	Union	13	SR 1921 STATE LINE ROAD	FROM SR 1937 OLD PAGELAND-MARSHVILLE ROAD TO SR 1922 PHILADELPHIA CHURCH ROAD MILEPOST 2.68-3.32	5	2	2WU	NO	NO	0.64	20	65			65	1.30			333			700	320	61			
TOTAL FOR MAP NO. 13										0.64		65			65	1.30			333			700	320	61			
2021CPT.10.13.20901	Union	14	SR 1915 SMITH TOWN ROAD	FROM SR 1005 LANDSFORD ROAD TO SR 1916 WHITE STORE-PAGELAND ROAD MILEPOST 0.3-8	5	2	2WU	NO	NO	3.8	19	570			200	7.60	525		340			3,924	1,755	341	1,900		
TOTAL FOR MAP NO. 14										3.8		570			200	7.60	525		340			3,924	1,755	341	1,900		
2021CPT.10.13.20901	Union	15	SR 1963 PRESSON ROAD	FROM US 74 TO US 74 MILEPOST 0-0.72	9,10,11	2	2WU	NO	NO	0.72	19-39	150			75	1.40	650		300		690	487		79	130	8,855	
TOTAL FOR MAP NO. 15										0.72		150			75	1.40	650		300		690	487		79	130	8,855	
2021CPT.10.13.20901	Union	16	SR 2221 FOLGER ROAD	FROM SR 2139 GRIFFITH ROAD TO END OF MAINTENANCE MILEPOST 0-0.17	8	2	2WU	NO	NO	0.33	24		5,062.00	157.00	35						295			20			
TOTAL FOR MAP NO. 16										0.33			5,062.00	157.00	35						295			20			
2021CPT.10.13.20901	Union	17	SR 1758 WITMORE ROAD	FROM PAVEMENT JOINT TO SR 1957 OLD MONROE-MARSHVILLE ROAD MILEPOST 4.22-5.67	6	2	2WU	NO	NO	1.45	20				95		125		16		1,073			72			
TOTAL FOR MAP NO. 17										1.45					95		125		16		1,073			72			
2021CPT.10.13.20901	Union	18	SR 1937 OLD PAGELAND-MARSHVILLE ROAD	FROM SR 1941 OLD PAGELAND MONROE ROAD TO SR 1005 LANDSFORD ROAD MILEPOST 4.57-1.99	7	2	2WU	NO	NO	2.58	18.5				255		120		55		1,830			123			
TOTAL FOR MAP NO. 18										2.58					255		120		55		1,830			123			
2021CPT.10.13.20901	Union	19	SR 1311 STACEY HOWIE ROAD	FROM SR 1307 WAXHAW-MARVIN ROAD TO SOUTH CAROLINA STATE LINE MILEPOST 0-0.21	7	2	2WU	NO	NO	0.21	20		2,652.00	82.00	5						150			10			
TOTAL FOR MAP NO. 19										0.21			2,652.00	82.00	5						150			10			
TOTAL FOR PROJ NO. 2021CPT.10.13.20901										17.21		1,852	7,714.00	239.00	1,450	28.70	1,175	245	2,254	1,730	5,307	487	12,445	4,971	1,516	4,326	29,778
TOTAL FOR PROJ NO. 2021CPT.10.13.20902																	1,420										
2021CPT.10.13.20902	Union	17	SR 1758 WHITMORE ROAD	FROM PAVEMENT JOINT TO SR 1957 OLD MONROE-MARSHVILLE ROAD MILEPOST 4.22-5.67	6	2	2WU	NO	NO	1.45	20		18,715.00	580.00													
TOTAL FOR MAP NO. 17										1.45			18,715.00	580.00													
2021CPT.10.13.20902	Union	18	SR 1937 OLD PAGELAND-MARSHVILLE ROAD	FROM SR 1941 OLD PAGELAND MONROE ROAD TO SR 1005 LANDSFORD ROAD MILEPOST 4.57-1.99	7	2	2WU	NO	NO	2.58	18.5				31,044.00	962.00											
TOTAL FOR MAP NO. 18										2.58			31,044.00	962.00													
TOTAL FOR PROJ NO. 2021CPT.10.13.20902										4.03			49,759.00	1,542.00													
GRAND TOTAL										19.75		2,487	57,473.00	1,781.00	1,500	32.80	35,163	245	4,698	1,730	5,307	487	16,030	4,971	1,731	5,596	29,778

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.10.13.10901, 2021CPT.10.13.20901, 2021CPT.10.13.20902	24	

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	1803500000	1838000000	1838500000	2600000000	2612000000	2613000000	2830000000	2845000000	6000000000	6009000000	6012000000	6071010000	6071020000			
												ASPHALT SURFACE TREATMENT, DOUBLE SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	RETROFIT EXISTING CURB RAMP	6" CONCRETE DRIVEWAYS	REMOVE AND REPLACE CURB RAMPS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	WATTLE	POLYACRYLAMIDE (PAM)			
												MI	FT	SY	GAL	WK	EA	SY	EA	EA	EA	LF	TN	TN	LF	LB	
2021CPT.10.13.20901	Union	11	SR 3105 LESLIE DRIVE	FROM SR 1146 PARKWOOD SCHOOL ROAD TO SR 3106 WYNBROOK WAY <u>MILEPOST 0-0.08</u>	3	2	2WU	NO	NO	0.08	20										12	2	1	12			
TOTAL FOR MAP NO. 11											0.08			330								12	2	1	12		
2021CPT.10.13.20901	Union	12	SR 3106 WYNBROOK WAY	FROM END OF MAINTENANCE TO END OF MAINTENANCE <u>MILEPOST 0-0.05</u>	3	2	2WU	NO	NO	0.05	30										8	1	1	8			
TOTAL FOR MAP NO. 12											0.05			510								8	1	1	8		
2021CPT.10.13.20901	Union	13	SR 1921 STATE LINE ROAD	FROM SR 1937 OLD PAGELAND-MARSHVILLE ROAD TO SR 1922 PHILADELPHIA CHURCH ROAD <u>MILEPOST 2.68-3.32</u>	5	2	2WU	NO	NO	0.64	20										96	13	6	96			
TOTAL FOR MAP NO. 13											0.64											96	13	6	96		
2021CPT.10.13.20901	Union	14	SR 1915 SMITH TOWN ROAD	FROM SR 1005 LANDSFORD ROAD TO SR 1916 WHITE STORE-PAGELAND ROAD <u>MILEPOST 0.3-0.8</u>	5	2	2WU	NO	NO	3.8	19										570	76	38	570	1		
TOTAL FOR MAP NO. 14											3.8											570	76	38	570	1	
2021CPT.10.13.20901	Union	15	SR 1963 PRESSON ROAD	FROM US 74 TO US 74 <u>MILEPOST 0-0.72</u>	9,10,11	2	2WU	NO	NO	0.72	19-39										108	14	7	108			
TOTAL FOR MAP NO. 15											0.72			3,100								108	14	7	108		
2021CPT.10.13.20901	Union	16	SR 2221 FOLGER ROAD	FROM SR 2139 GRIFFITH ROAD TO END OF MAINTENANCE <u>MILEPOST 0-0.17</u>	8	2	2WU	NO	NO	0.33	24		4,672	2,570	4.00		25		2		50	7	3	50			
TOTAL FOR MAP NO. 16											0.33			4,672	2,570	4.00		25		2	50	7	3	50			
2021CPT.10.13.20901	Union	17	SR 1758 WITMORE ROAD	FROM PAVEMENT JOINT TO SR 1957 OLD MONROE-MARSHVILLE ROAD <u>MILEPOST 4.22-5.67</u>	6	2	2WU	NO	NO	1.45	20						200				218	29	15	218			
TOTAL FOR MAP NO. 17											1.45							200			218	29	15	218			
2021CPT.10.13.20901	Union	18	SR 1937 OLD PAGELAND-MARSHVILLE ROAD	FROM SR 1941 OLD PAGELAND MONROE ROAD TO SR 1005 LANDSFORD ROAD <u>MILEPOST 4.57-1.99</u>	7	2	2WU	NO	NO	2.58	18.5						50				774	77	39	774	2		
TOTAL FOR MAP NO. 18											2.58							50			774	77	39	774	2		
2021CPT.10.13.20901	Union	19	SR 1311 STACEY HOWIE ROAD	FROM SR 1307 WAXHAW-MARVIN ROAD TO SOUTH CAROLINA STATE LINE <u>MILEPOST 0-0.21</u>	7	2	2WU	NO	NO	0.21	20		2,411	1,330							63	6	3	63			
TOTAL FOR MAP NO. 19											0.21			2,411	1,330							63	6	3	63		
TOTAL FOR PROJ NO. 2021CPT.10.13.20901											17.21			7,083	14,335	4.00		475		11	3,001	373	185	3,001	3		
2021CPT.10.13.20902	Union	17	SR 1758 WHITMORE ROAD	FROM PAVEMENT JOINT TO SR 1957 OLD MONROE-MARSHVILLE ROAD <u>MILEPOST 4.22-5.67</u>	6	2	2WU	NO	NO	1.45	20		17,013	9,360													
TOTAL FOR MAP NO. 17											1.45			17,013	9,360												
2021CPT.10.13.20902	Union	18	SR 1937 OLD PAGELAND-MARSHVILLE ROAD	FROM SR 1941 OLD PAGELAND MONROE ROAD TO SR 1005 LANDSFORD ROAD <u>MILEPOST 4.57-1.99</u>	7	2	2WU	NO	NO	2.58	18.5		28,015	15,410													
TOTAL FOR MAP NO. 18											2.58			28,015	15,410												
TOTAL FOR PROJ NO. 2021CPT.10.13.20902											4.03			45,028	24,770												
GRAND TOTAL											19.75			52,111	39,105	4.00		8	475	3	1	12	3,311	414	206	3,311	4

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.10.13.10901, 2021CPT.10.13.20901, 2021CPT.10.13.20902	25	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4447000000-E	4457000000-N	4510000000-N	4685000000-E	4695000000-E	4700000000-E	4720000000-E	4725000000-E	4810000000-E	4891000000-E	4895000000-N				
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DEVICES	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	12" X 90 M YELLOW THERMO	THERMOPLASTIC PAVEMENT MARKING CHARACTER 90 MIL (STOP)	THERMOPLASTIC PAVEMENT MARKING CHARACTER 90 MIL (AHEAD)	THERMO LTA	4" YELLOW PAINT	4" WHITE PAINT	24" X 90 M WHITE THERMO	GENERIC PAVEMENT MARKING ITEM NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	
									MI	FT	SF	LF	LS	HR	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	
2021CPT.10.13.10901	Union	1	NC 207	FROM SR 2115 STACK ROAD TO SR 2181 SUNSET DRIVE MILEPOST 9.16-11.23	1	2	2WU	2.07	21-28	284.5			1.00	8.00	21,882	21,882						21,882		100	137
TOTAL FOR MAP NO. 1											2.07		1	8.00	21,882	21,882						21,882		100	137
2021CPT.10.13.10901	Union	2	NC 207	FROM SR 2181 SUNSET DRIVE TO WEST MORROW AVENUE MILEPOST 11.23-11.7	2	2	2WU	0.47	27-34				8.00		4,912	280						4,912		146	31
TOTAL FOR MAP NO. 2											0.47		8		4,912	280						4,912		146	31
TOTAL FOR PROJ NO. 2021CPT.10.13.10901											2.54		16		21,882	26,794	280					26,794		246	168
														48,676		4		26,794							
2021CPT.10.13.20901	Union	3	SR 2581 DEERTRACK LANE	FROM SR 1007 ROCKY RIVER ROAD TO SR 2582 BROOKSIDE DRIVE MILEPOST 0-0.65	3	2	2WU	0.65	21	80.0			*												
TOTAL FOR MAP NO. 3											0.65														
2021CPT.10.13.20901	Union	4	SR 2582 BROOKSIDE DRIVE	FROM END OF MAINTENANCE TO END OF MAINTENANCE MILEPOST 0-0.65	3	2	2WU	0.34	21	80.0			*												
TOTAL FOR MAP NO. 4											0.34														
2021CPT.10.13.20901	Union	5	SR 2583 BASILWOOD CIRCLE	FROM SR 2582 BROOKSIDE DRIVE TO SR 2582 BROOKSIDE DRIVE MILEPOST 0-0.34	3	2	2WU	0.34	21	80.0			*												
TOTAL FOR MAP NO. 5											0.34														
2021CPT.10.13.20901	Union	6	SR 2584 CRESTHAVEN DRIVE	FROM SR 2581 DEERTRACK LANE TO END OF MAINTENANCE MILEPOST 0-0.09	3	2	2WU	0.09	21	80.0			*												
TOTAL FOR MAP NO. 6											0.09														
2021CPT.10.13.20901	Union	7	SR 2585 OVERLOOK DRIVE	FROM SR 2581 DEERTRACK LANE TO	3	2	2WU	0.08	21	80.0															
TOTAL FOR MAP NO. 7											0.08														
2021CPT.10.13.20901	Union	8	SR 1111 OLD WAXHAW-MONROE ROAD	FROM SR 1137 POTTER ROAD SOUTH TO SR 1117 PROVIDENCE ROAD SOUTH MILEPOST 4.91-1.77	4	2	2WU	3.14	23	351.7			*		33,248	29,584			1				50		
TOTAL FOR MAP NO. 8											3.14				33,248	29,584			1				50		
2021CPT.10.13.20901	Union	9	SR 1137 POTTER ROAD SOUTH	FROM SR 1140 PARKWOOD SCHOOL ROAD TO SR 1111 OLD WAXHAW-MONROE ROAD MILEPOST 6.78-8.29	5	2	2WU	1.51	21				*									31,780	31,780	50	
TOTAL FOR MAP NO. 9											1.51										31,780	31,780	50		
2021CPT.10.13.20901	Union	10	SR 1140 PARKWOOD SCHOOL ROAD	FROM SR 1111 OLD WAXHAW-MONROE ROAD TO SR 1137 POTTER ROAD SOUTH MILEPOST 0-1.2	5	2	2WU	1.2	18.5				*									25,300	25,300	25	
TOTAL FOR MAP NO. 10											1.2										25,300	25,300	25		




PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.10.13.10901, 2021CPT.10.13.20901, 2021CPT.10.13.20902	26	

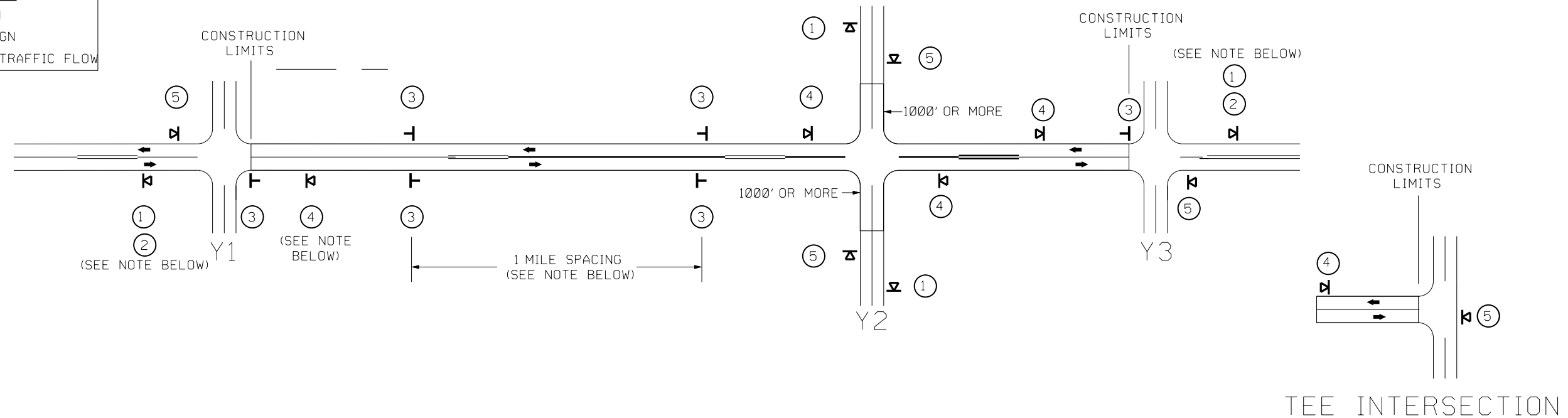
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4447000000-E	4457000000-N	4510000000-N	4685000000-E		4695000000-E	4700000000-E	4720000000-E		4725000000-E	4810000000-E		4891000000-E	4895000000-N				
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DEVICES	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	12" X 90 M YELLOW THERMO	THERMOPLASTIC PAVEMENT MARKING CHARACTER 90 MIL (STOP)	THERMOPLASTIC PAVEMENT MARKING CHARACTER 90 MIL (AHEAD)	THERMOPLASTIC ARROW	4" YELLOW PAINT	4" WHITE PAINT	24" X 90 M WHITE THERMO	GENERIC PAVEMENT MARKING ITEM NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER				
									MI	FT	SF	LF	LS	HR	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA			
2021CPT.10.13.20901	Union	11	SR 3105 LESLIE DRIVE	FROM SR 1146 PARKWOOD SCHOOL ROAD TO SR 3106 WYNBROOK WAY MILEPOST 0-0.08	3	2	2WU	0.08	20	80.0			*															
TOTAL FOR MAP NO. 11									0.08		80.0																	
2021CPT.10.13.20901	Union	12	SR 3106 WYNBROOK WAY	FROM END OF MAINTENANCE TO END OF MAINTENANCE MILEPOST 0-0.05	3	2	2WU	0.05	30	80.0			*															
TOTAL FOR MAP NO. 12									0.05		80.0																	
2021CPT.10.13.20901	Union	13	SR 1921 STATE LINE ROAD	FROM SR 1937 OLD PAGELAND-MARSHVILLE ROAD TO SR 1922 PHILADELPHIA CHURCH ROAD MILEPOST 2.68-3.32	5	2	2WU	0.64	20				*									9,676	13,552					
TOTAL FOR MAP NO. 13									0.64													9,676	13,552					
2021CPT.10.13.20901	Union	14	SR 1915 SMITH TOWN ROAD	FROM SR 1005 LANDSFORD ROAD TO SR 1916 WHITE STORE-PAGELAND ROAD MILEPOST 0.3-8	5	2	2WU	3.8	19	425.6			*									66,309	79,096					
TOTAL FOR MAP NO. 14									3.8		425.6													66,309	79,096			
2021CPT.10.13.20901	Union	15	SR 1963 PRESSON ROAD	FROM US 74 TO US 74 MILEPOST 0-0.72	9,10,11	2	2WU	0.72	19-39	80.0			*									15,180	15,180	80				
TOTAL FOR MAP NO. 15									0.72		80.0												15,180	15,180	80			
2021CPT.10.13.20901	Union	16	SR 2221 FOLGER ROAD	FROM SR 2139 GRIFFITH ROAD TO END OF MAINTENANCE MILEPOST 0-0.17	8	2	2WU	0.33	24	80.0			*															
TOTAL FOR MAP NO. 16									0.33		80.0																	
2021CPT.10.13.20901	Union	17	SR 1758 WITMORE ROAD	FROM PAVEMENT JOINT TO SR 1957 OLD MONROE-MARSHVILLE ROAD MILEPOST 4.22-5.67	6	2	2WU	1.45	20	80.0			*									31,558	30,624					
TOTAL FOR MAP NO. 17									1.45		80.0												31,558	30,624				
2021CPT.10.13.20901	Union	18	SR 1937 OLD PAGELAND-MARSHVILLE ROAD	FROM SR 1941 OLD PAGELAND MONROE ROAD TO SR 1005 LANDSFORD ROAD MILEPOST 4.57-1.99	7	2	2WU	2.58	18.5	369.0			*									47,511	54,516	75				
TOTAL FOR MAP NO. 18									2.58		369.0													47,511	54,516	75		
2021CPT.10.13.20901	Union	19	SR 1311 STACEY HOWIE ROAD	FROM SR 1307 WAXHAW-MARVIN ROAD TO SOUTH CAROLINA STATE LINE MILEPOST 0-0.21	7	2	2WU	0.21	20	80.0			*															
TOTAL FOR MAP NO. 19									0.21		80																	
TOTAL FOR PROJ NO. 2021CPT.10.13.20901									17.21		2,026						33,248	29,584		20	12	5	1	227,314	250,048	280		
														62,832		17		477,362										
2021CPT.10.13.20902	Union	17	SR 1758 WHITMORE ROAD	FROM PAVEMENT JOINT TO SR 1957 OLD MONROE-MARSHVILLE ROAD MILEPOST 4.22-5.67	6	2	2WU	1.45	20				*															
TOTAL FOR MAP NO. 17									1.45																			
2021CPT.10.13.20902	Union	18	SR 1937 OLD PAGELAND-MARSHVILLE ROAD	FROM SR 1941 OLD PAGELAND MONROE ROAD TO SR 1005 LANDSFORD ROAD MILEPOST 4.57-1.99	7	2	2WU	2.58	18.5				*															
TOTAL FOR MAP NO. 18									2.58																			
TOTAL FOR PROJ NO. 2021CPT.10.13.20902									4.03																			
GRAND TOTAL									19.75		2,311	48	1	16	55,130	56,378	280	20	16	5	1	254,108	250,048	526	168			
														111,508		21		504,156										

SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND








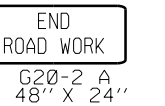
-  PORTABLE SIGN
-  STATIONARY SIGN
-  DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

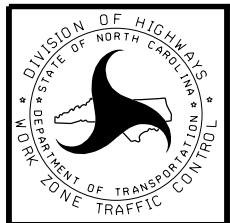
TEE INTERSECTION

SIGNING NOTES AND PLACEMENT PER DIRECTION	①		- PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	STATIONARY SIGNING NOT REQUIRED 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. <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;">  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	②		- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.	
	③	 	- ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	④		- 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.	
	⑤		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.

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.

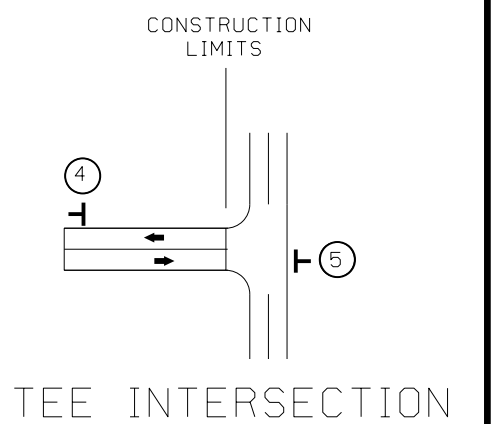
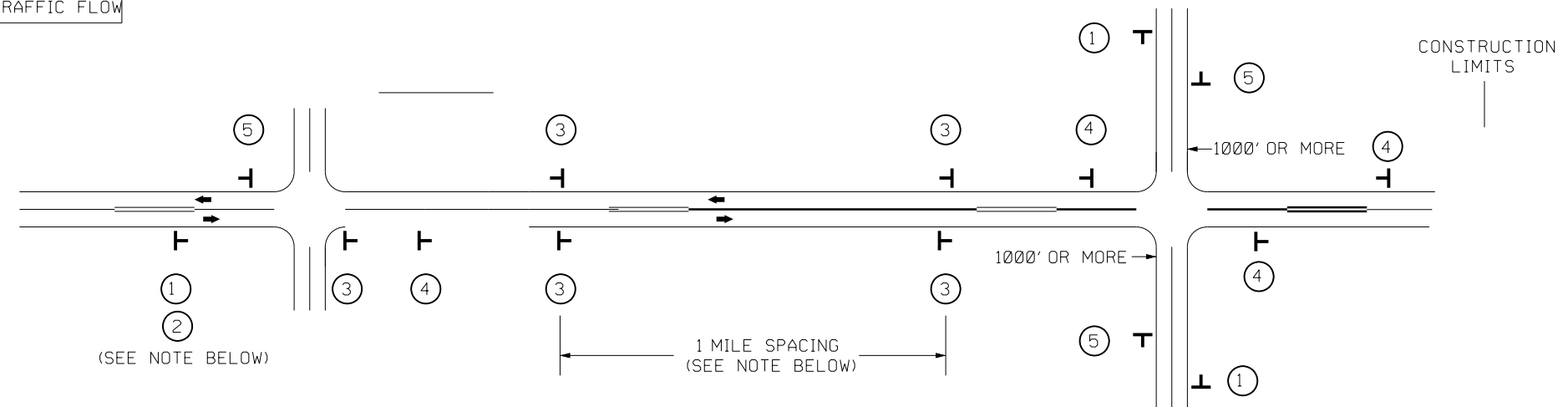


ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

19-JAN-2021 13:40 C:\Users\jouten\Documents\My Documents\CONTRACTS\Resurfacing_Raleigh Let Contract\2021-2022\Union *3\Resurfacing Typicals\FinalRevised Typicals.dgn





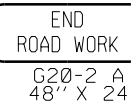
SIGNING FOR RESURFACING PROJECTS

LEGEND
 STATIONARY SIGN
 DIRECTION OF TRAFFIC FLOW



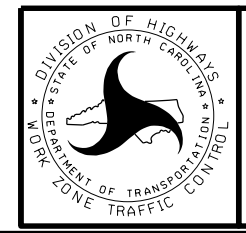
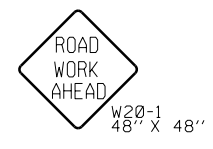
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.
	②		
	③		
	④		<ul style="list-style-type: none"> - 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		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	
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.	

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

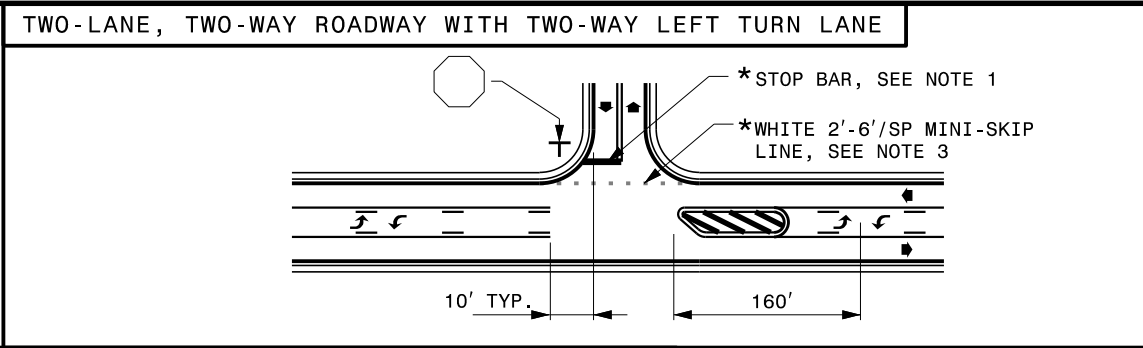
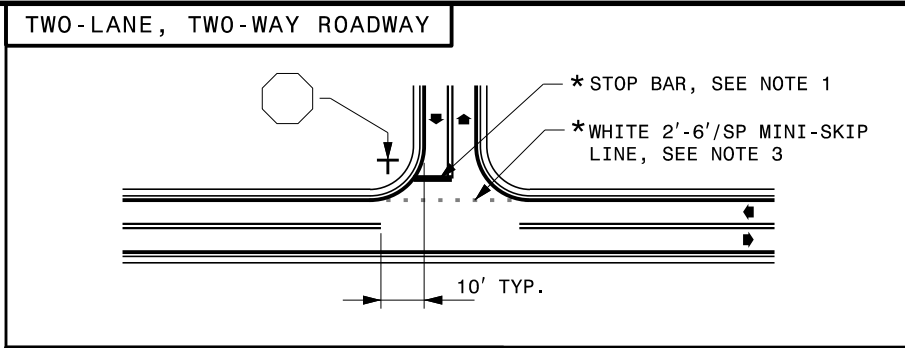
- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS



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

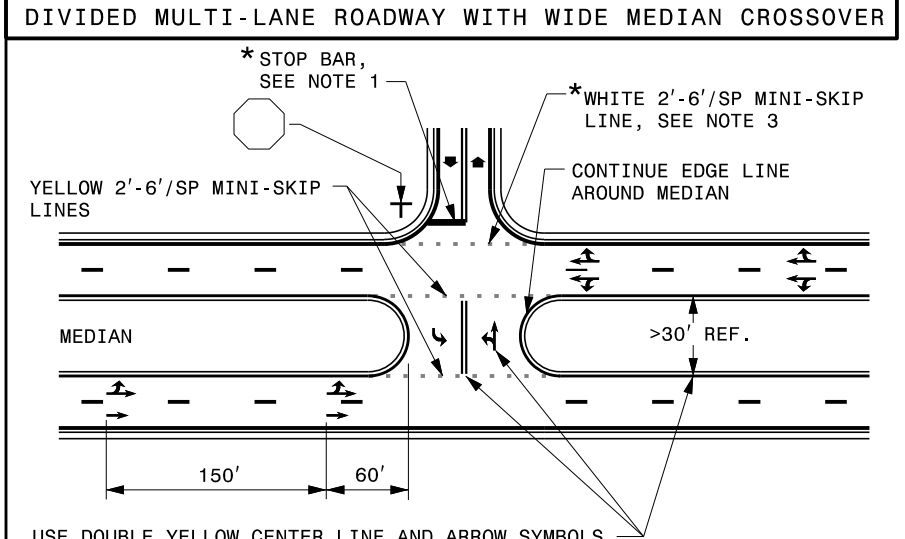
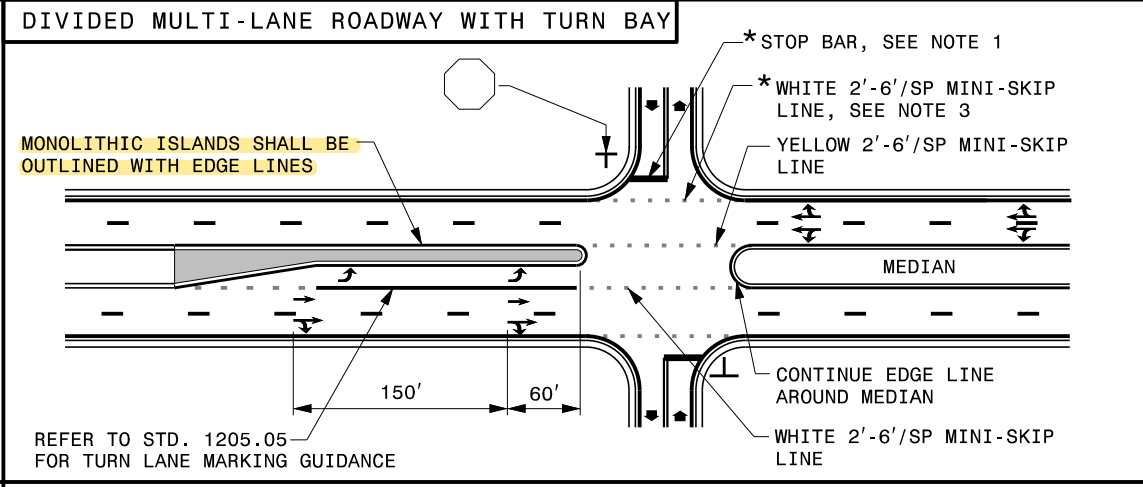
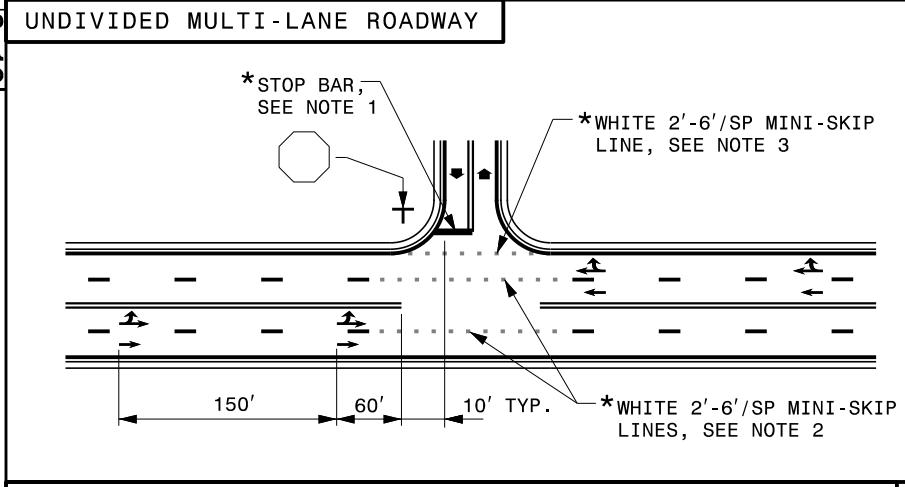


STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.



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

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
INTERSECTIONS



- GENERAL NOTES:
- 1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.
 - 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.
 - 3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.
 - 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND	
	STOP SIGN
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS
*	OPTIONAL

SHEET 2 OF 2
1205D04

SHEET 2 OF 2
1205D04

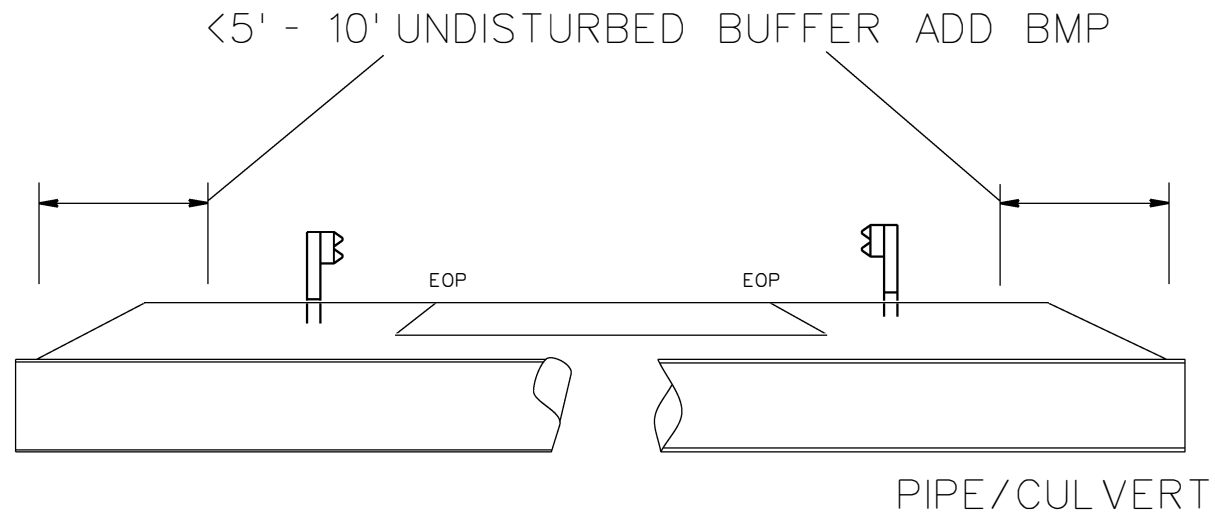
**REVISED PAVEMENT MARKING
ROADWAY STANDARD DRAWING**

06/19/19 S:\&D\Standards Group\Standards and Drawings\Drawings\2018 Standard Dwg\Division 12 Final\1205D0402_Rev18-19.dgn User:dstokes

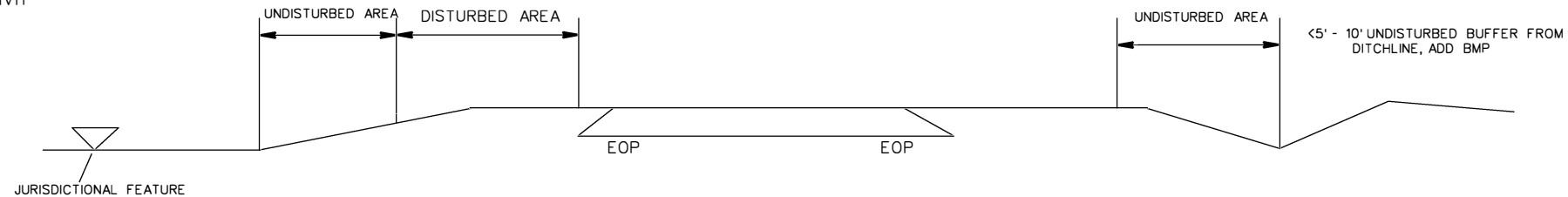
NOTES: LESS THAN 5' - 10' UNDISTURBED BUFFER FROM ROW, DITCHLINE, WATER FEATURE, OR DRAINAGE INLET, ADD BMP.

BMP OPTIONS: WATTLE OR SILT FENCE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.13.10901 2021CPT.10.13.20901 2021CPT.10.13.20902	EC-1	
F.A. PROJECT NO.			



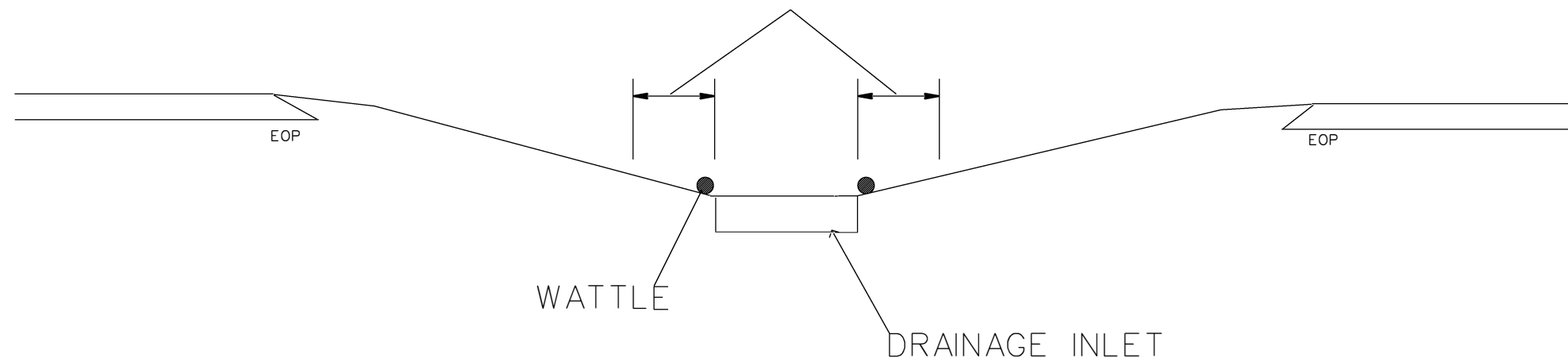
<5' - 10' UNDISTURBED BUFFER FROM JURISDICTIONAL FEATURE ADD BMP



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-		REVISIONS	
DATE	1/20			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

WATTLE WITH POLYACRYLAMIDE DETAIL

- 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.

