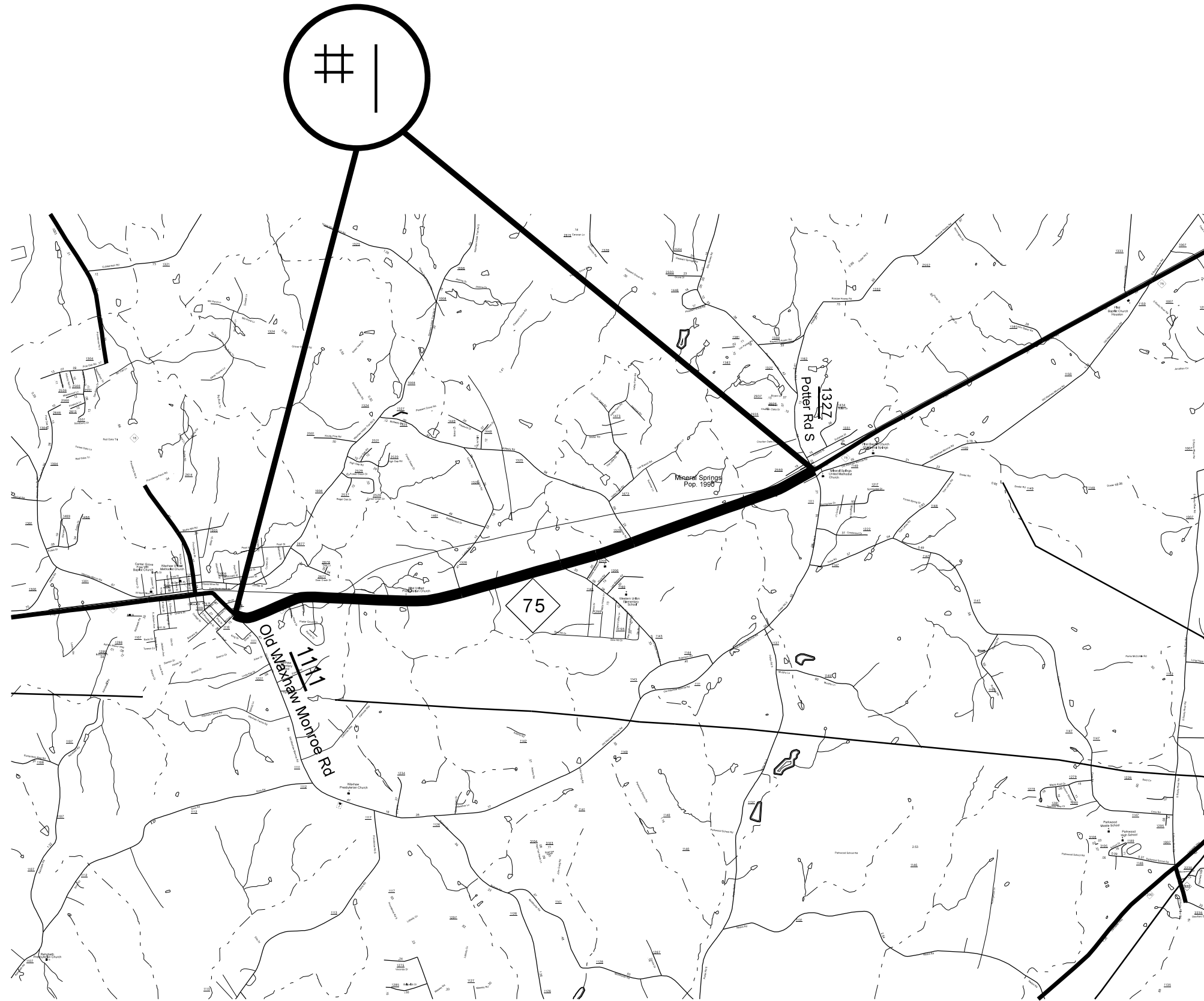


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STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.1 2017CPT.10.08.20901.1 - ETC. 2017CPT.10.08.20902.1 - ETC.	1	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# UNION COUNTY

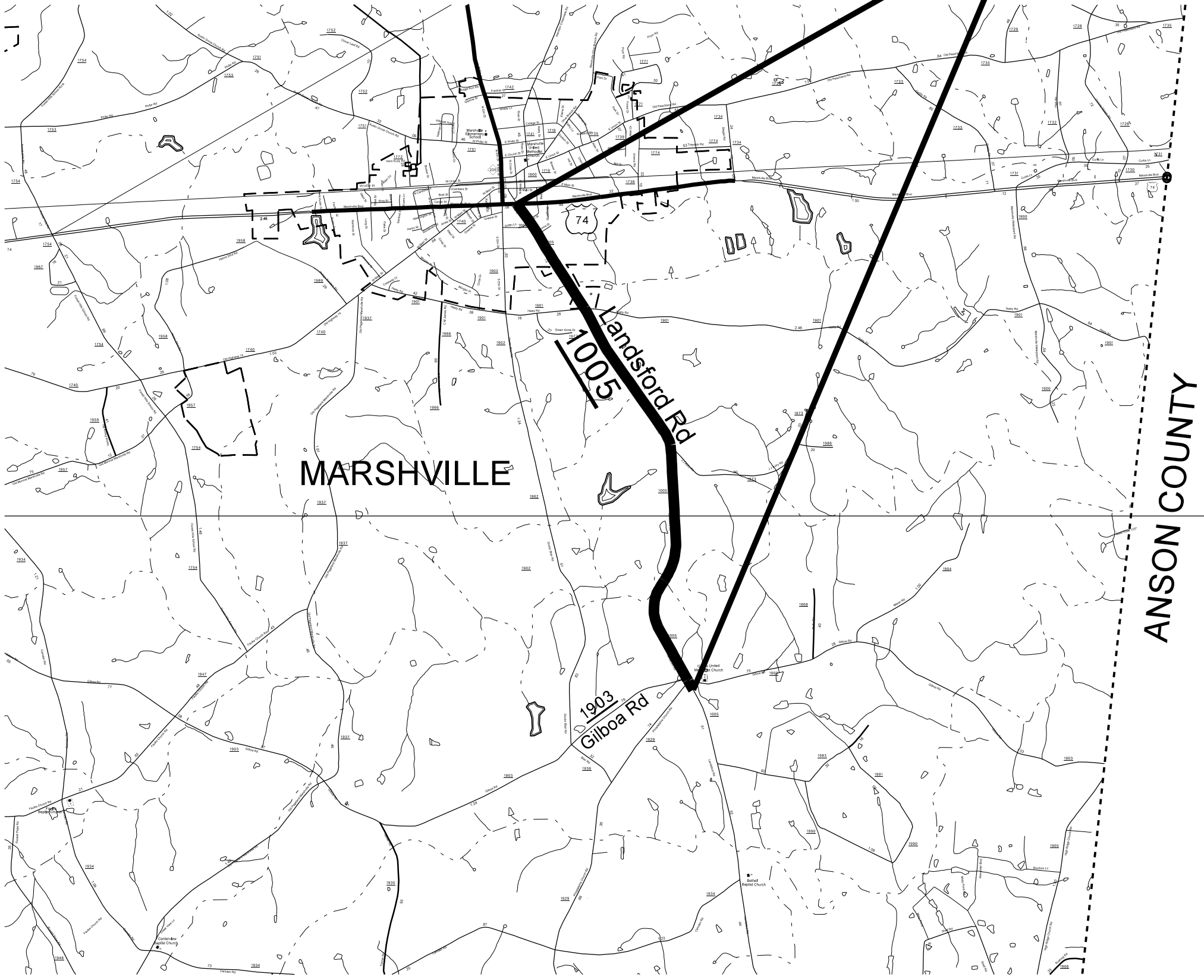
NORTH CAROLINA

PREPARED BY THE

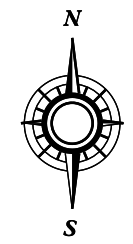
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #1 NC 75 (4.06 MILES)  
FROM SR 1111 OLD WAXHAW-MONROE ROAD  
TO SR 1327 POTTER ROAD

#2



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.1 2017CPT.10.08.20901.1 - ETC. 2017CPT.10.08.20902.1 - ETC.	2	
F.A. PROJECT NO.			

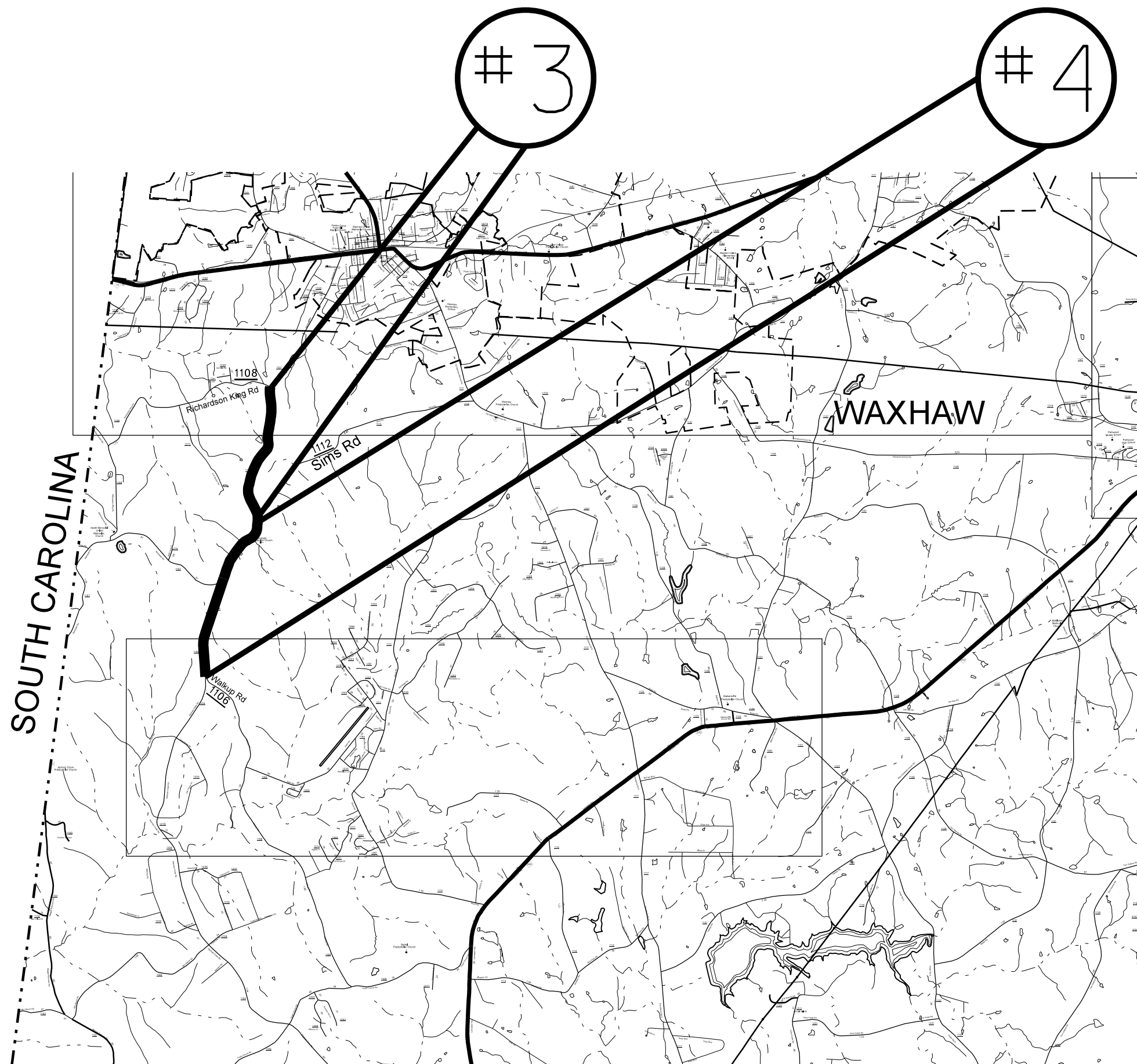


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
NORTH CAROLINA  
PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #2 SR 1005 LANDSFORD ROAD  
(3.09 MILES)  
FROM 100 FT SOUTH OF SR 1903 GILBOA ROAD  
TO US 74

ANSON COUNTY

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.1 2017CPT.10.08.20901.1 - ETC. 2017CPT.10.08.20902.1 - ETC.	3	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# UNION COUNTY

NORTH CAROLINA

PREPARED BY THE

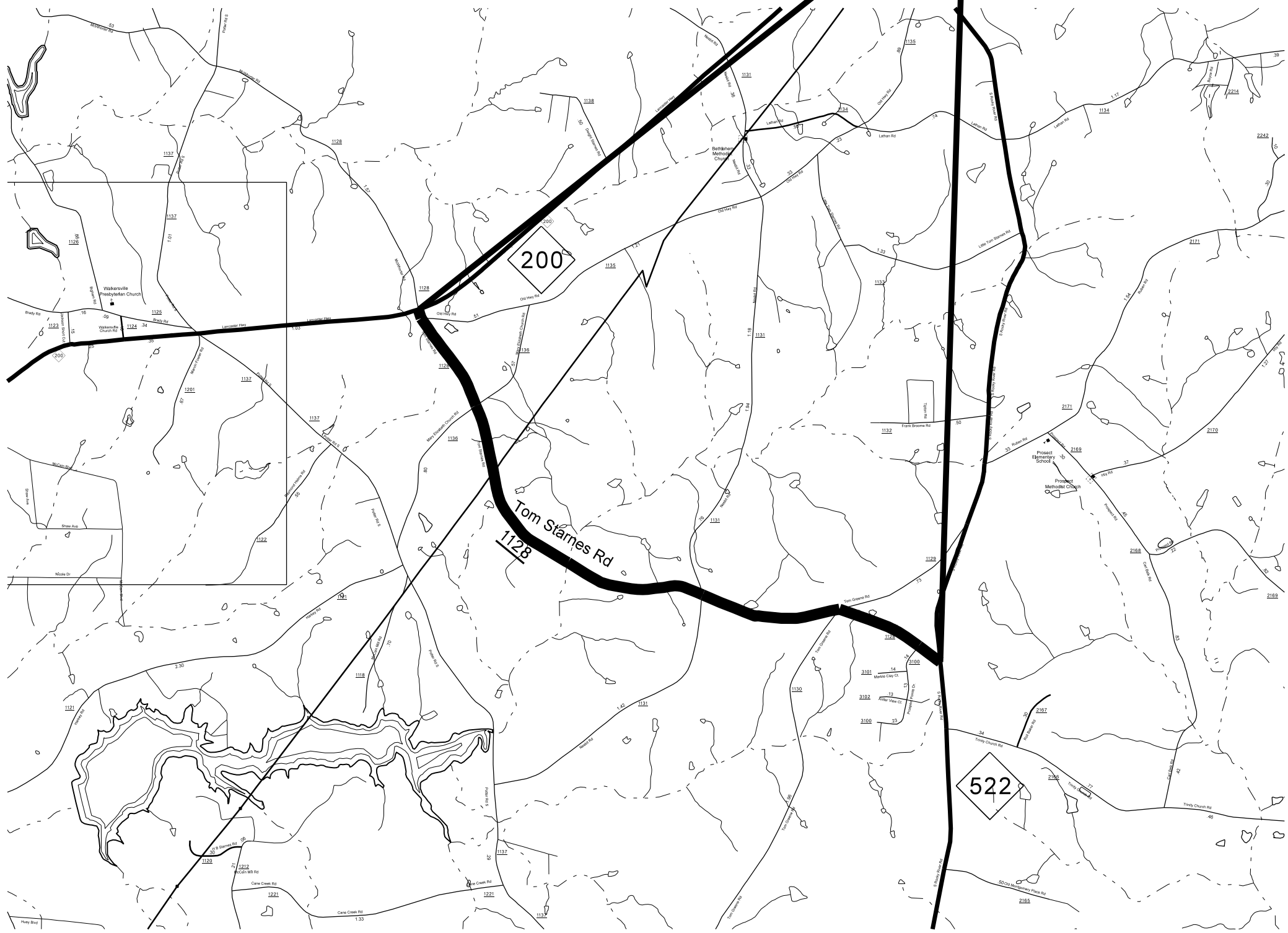
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

**MAP #3 SR 1107 REHOBETH ROAD (1.21 MILES)  
FROM SR 1108 RICHARDSON KING ROAD  
TO SR 1112 SIMS ROAD**

**MAP #4 SR 1107 REHOBETH ROAD (0.63 MILES)  
FROM SR 1112 SIMS ROAD  
TO SR 1106 WALKUP ROAD**

#5

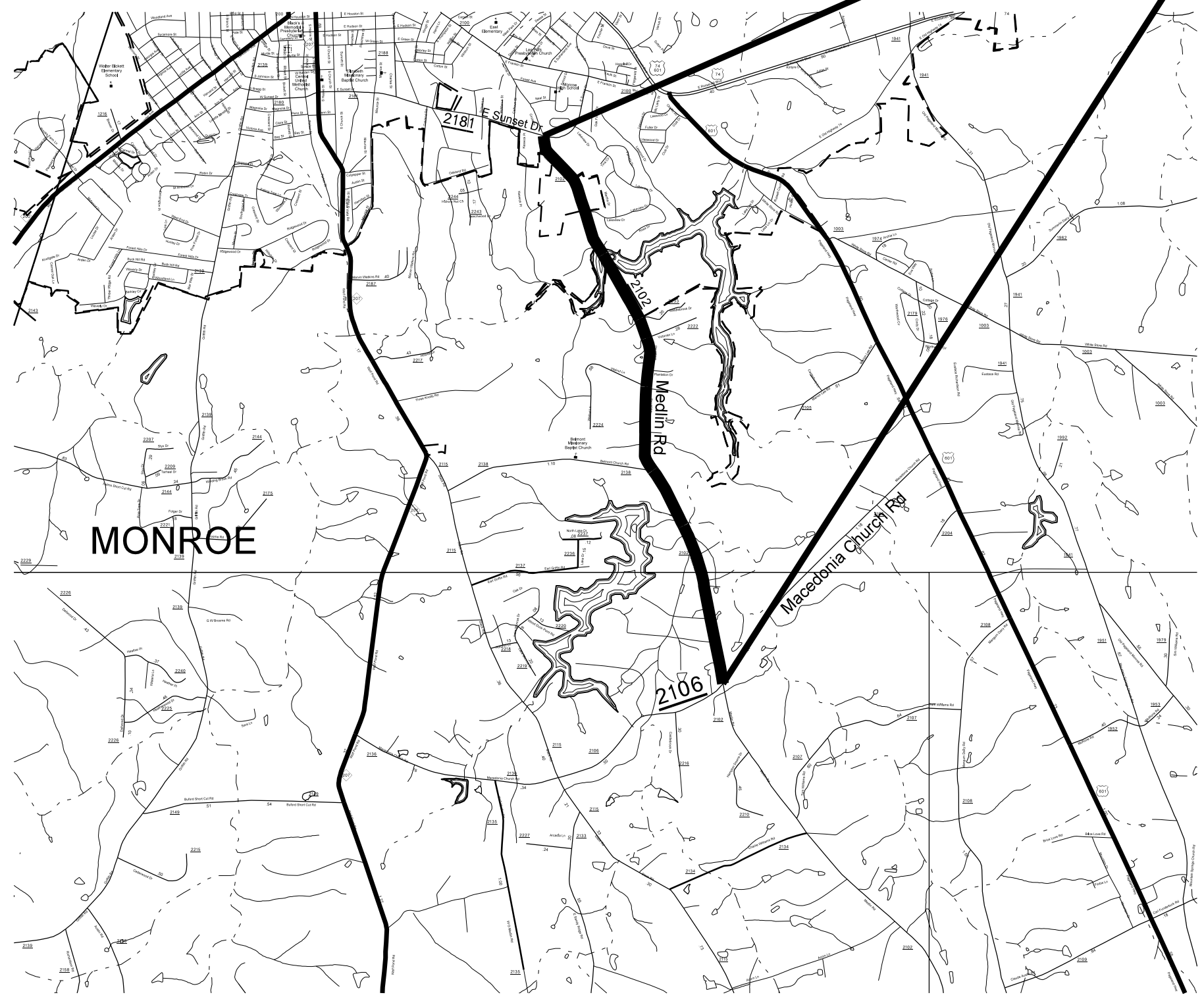
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	4	
F.A. PROJECT NO.			



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 #5 TOM STARNES ROAD  
( 3.27 MILES )  
FROM NC 200 TO NC 522**

#6



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	5	
F.A. PROJECT NO.			

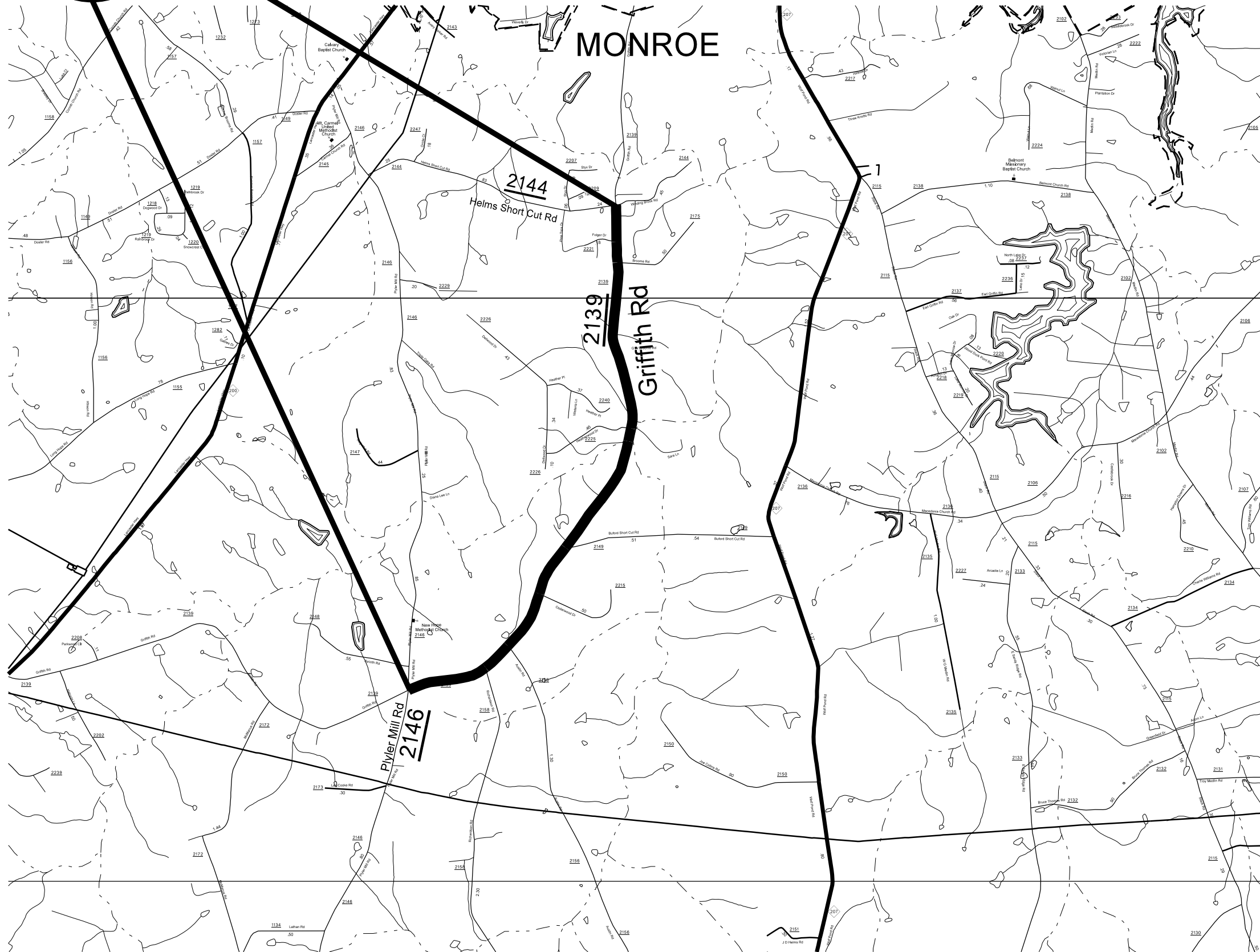


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
NORTH CAROLINA  
PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

**MAP #6 SR 2102 MEDLIN ROAD (3.0 MILES)  
FROM SR 2181 SUNSET DRIVE  
TO SR 2106 MACEDONIA CHURCH ROAD**

# 7

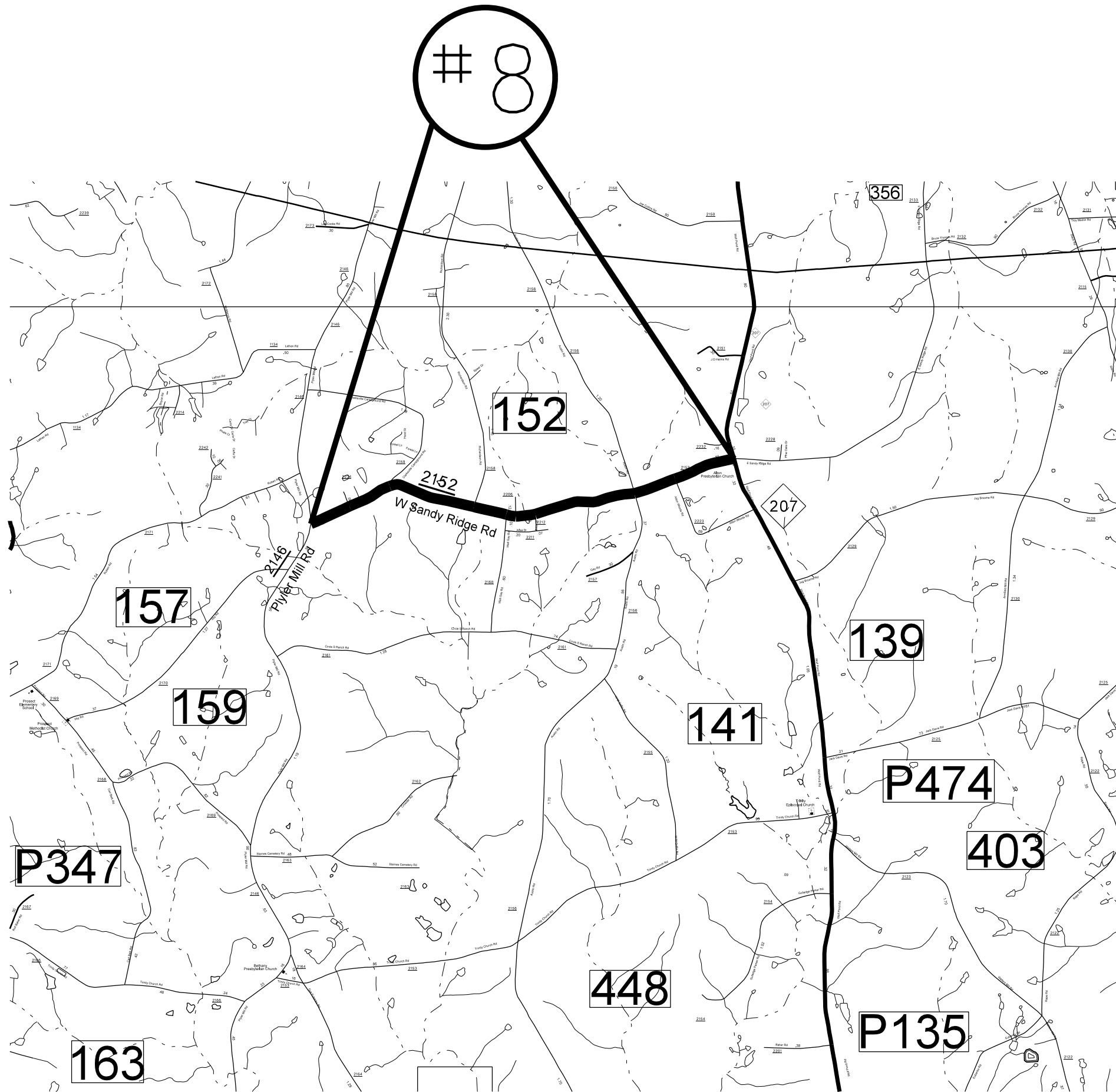
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	6	
F.A. PROJECT NO.			



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 #7 SR 2139 GRIFFITH ROAD  
 (3.0 MILES)  
 FROM SR 2144 HELMS SHORTCUT ROAD  
 TO SR 2146 PLYLER MILL ROAD**

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.1 2017CPT.10.08.20901.1 - ETC. 2017CPT.10.08.20902.1 - ETC.	7	
F.A. PROJECT NO.			



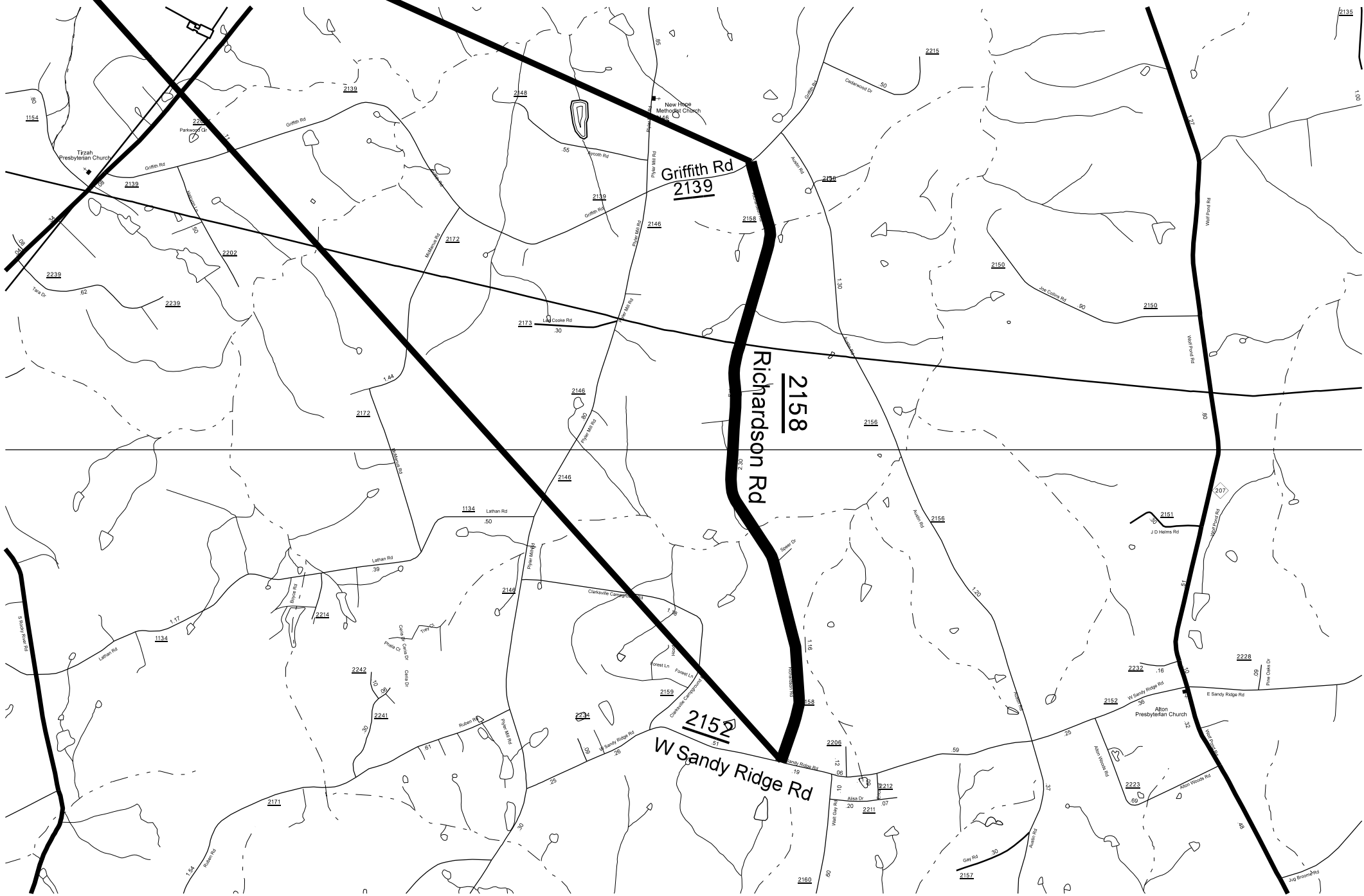
ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

**MAP #8 SR 2152 WEST SANDY RIDGE ROAD  
 (2.9 MILES)  
 FROM NC 207 TO SR 2146 PLYLER MILL ROAD**



#9

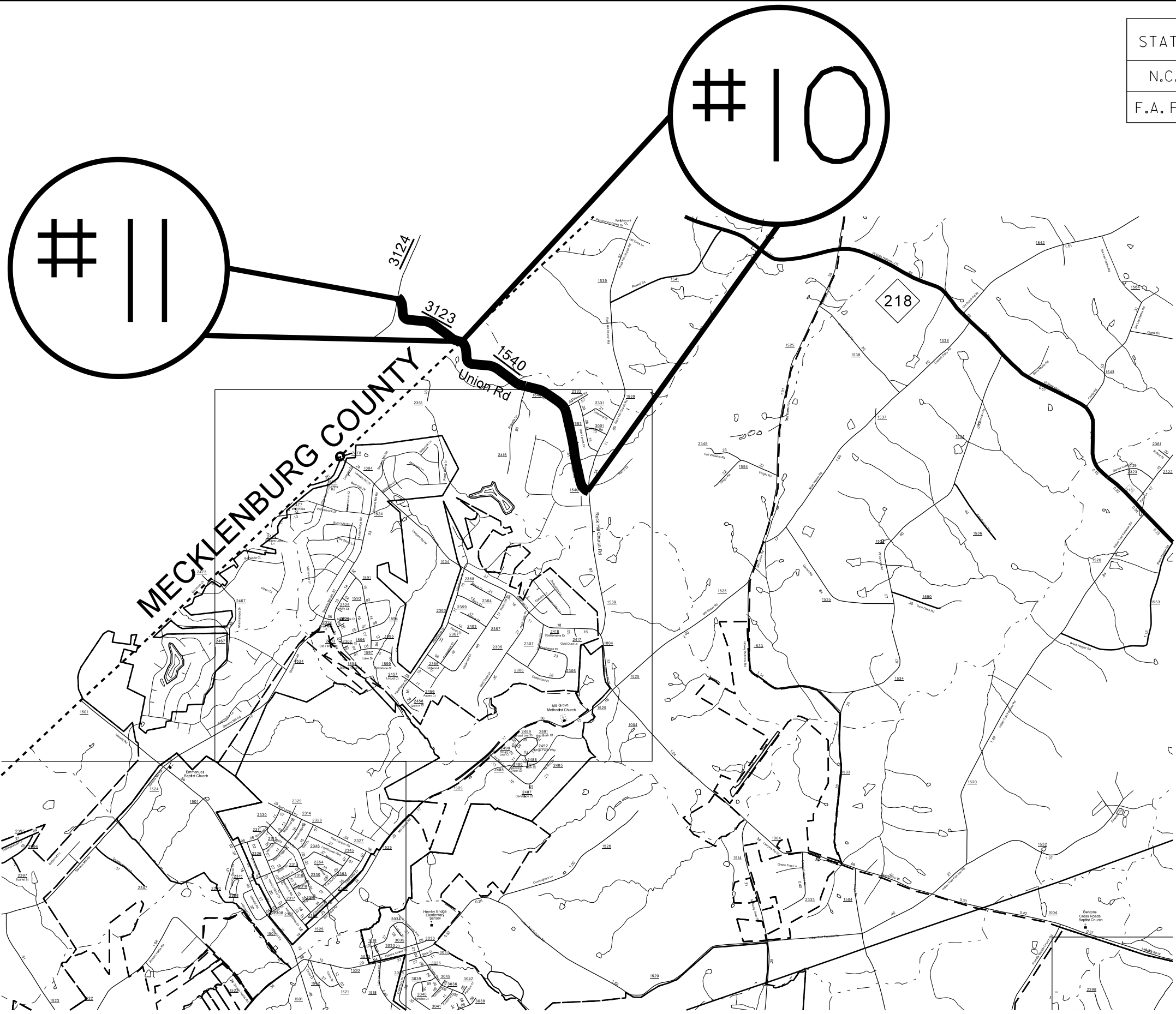
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	8	
F.A. PROJECT NO.			



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 #9 SR 2158 RICHARDSON ROAD  
(2.36 MILES)  
FROM SR 2139 GRIFFITH ROAD TO  
SR 2152 WEST SANDY RIDGE ROAD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	9	
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

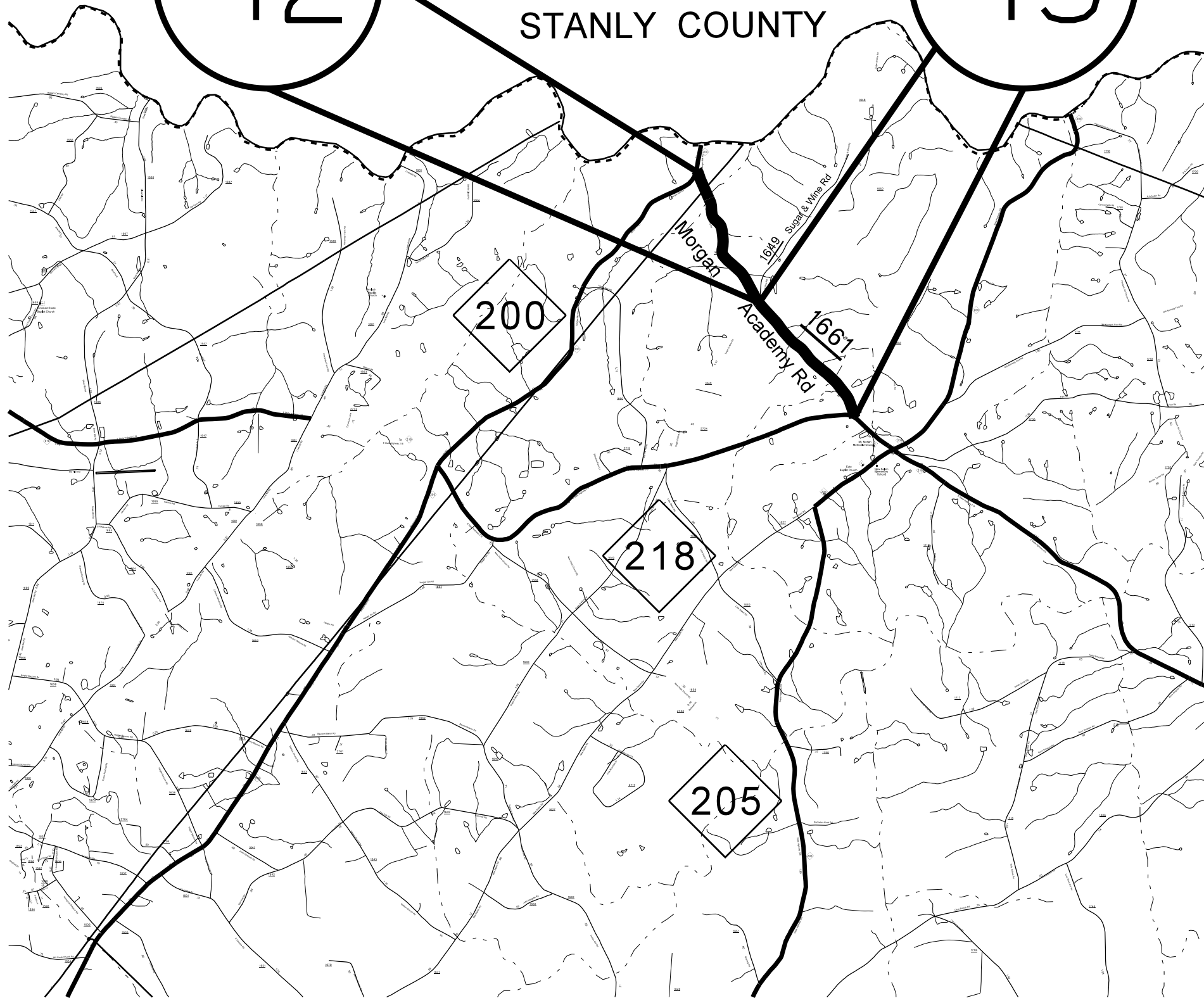
**MAP #10 SR 1540 UNION ROAD (1.3 MILES)  
 FROM SR 1539 ROCK HILL CHURCH ROAD  
 TO MECKLENBURG COUNTY LINE**

**MAP #11 SR 3123 UNION ROAD ( 0.56 MILES)  
 FROM UNION COUNTY LINE  
 TO SR 3124 ALLEN BLACK ROAD  
 IN MECKLENBURG COUNTY**

#12

#13

STANLY COUNTY



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	10	
F.A. PROJECT NO.			

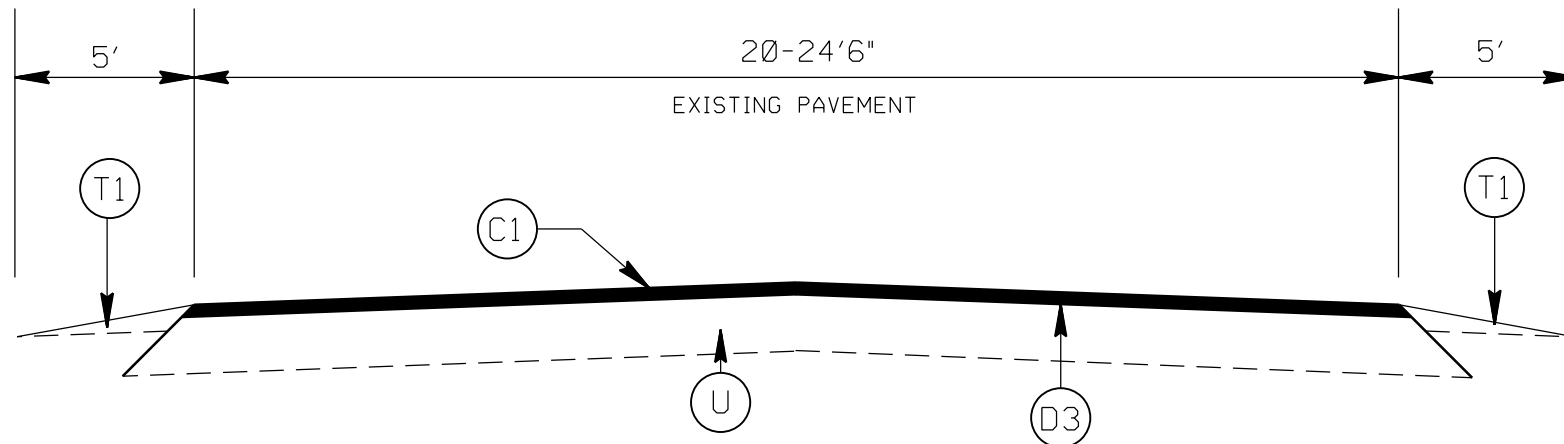


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

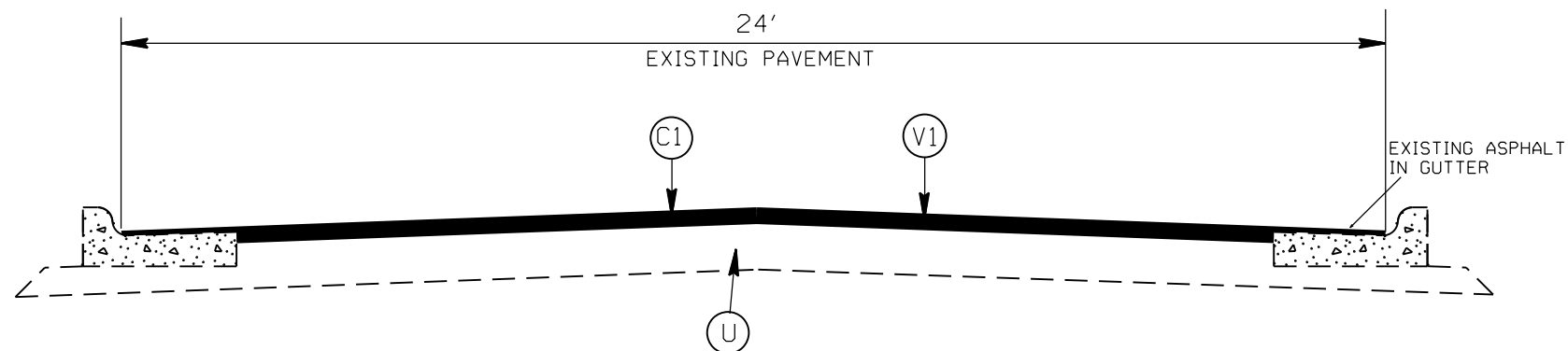
MAP #12 SR 1661 MORGAN ACADEMY ROAD  
 ( 1.2 MILES)  
 FROM NC 200 TO PAVEMENT JOINT AT  
 SR 1649 SUGAR AND WINE ROAD

MAP #13 SR 1661 MORGAN ACADEMY ROAD  
 ( 1.17 MILES)  
 FROM PAVEMENT JOINT AT  
 SR 1649 SUGAR AND WINE ROAD  
 TO NC 218

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	11	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 1  
 NC 75 (MAP 1)  
 \*SEE NOTE 7  
 SR 2139 GRIFFITH ROAD (MAP 7)  
 \*SEE NOTE 2



TYPICAL SECTION NO. 2  
 SR 1005 LANDSFORD ROAD (MAP 2)  
 FROM US 74 TO END OF CURB AND GUTTER SECTION

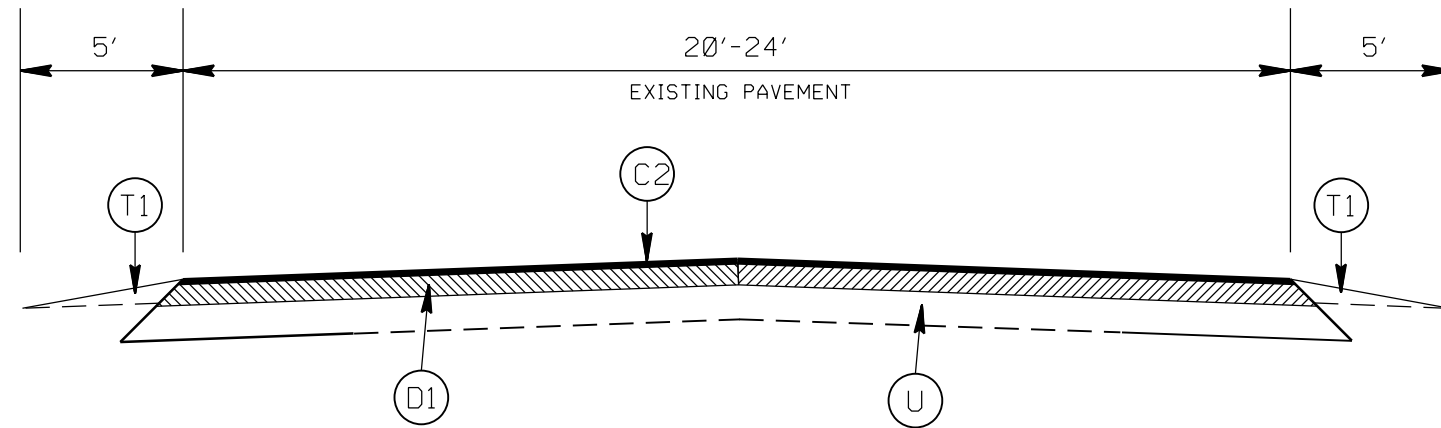
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL. SEE SPECIAL PROVISION FOR AGGREGATE TYPE.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	AST MAT COAT # 78M
(D3)	AST MAT COAT # 67
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 2.0" IN DEPTH.
(V2)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.5"
(Z)	FULL DEPTH RECLAMATION

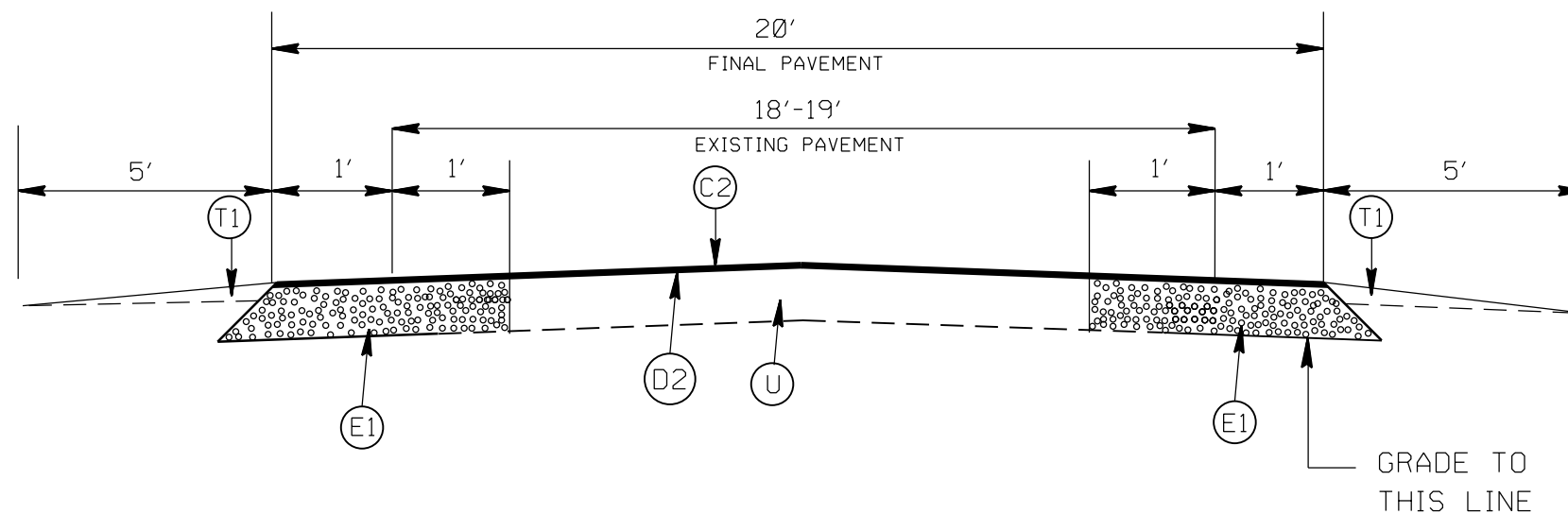
2017-2018  
 UNION COUNTY RESURFACING  
 CONTRACT # 2

SCALE	-NA-		REVISIONS
DATE	12/16		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.1 2017CPT.10.08.20901.1 - ETC. 2017CPT.10.08.20902.1 - ETC.	12	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 3  
SR 1005 LANDSFORD ROAD (MAP 2)  
FROM END OF CURB AND GUTTER TO END OF MAP  
\*SEE NOTE 3



TYPICAL SECTION NO. 4  
SR 1107 REHOBETH ROAD (MAPS 3 AND 4)  
FROM END OF CURB AND GUTTER TO END OF MAP

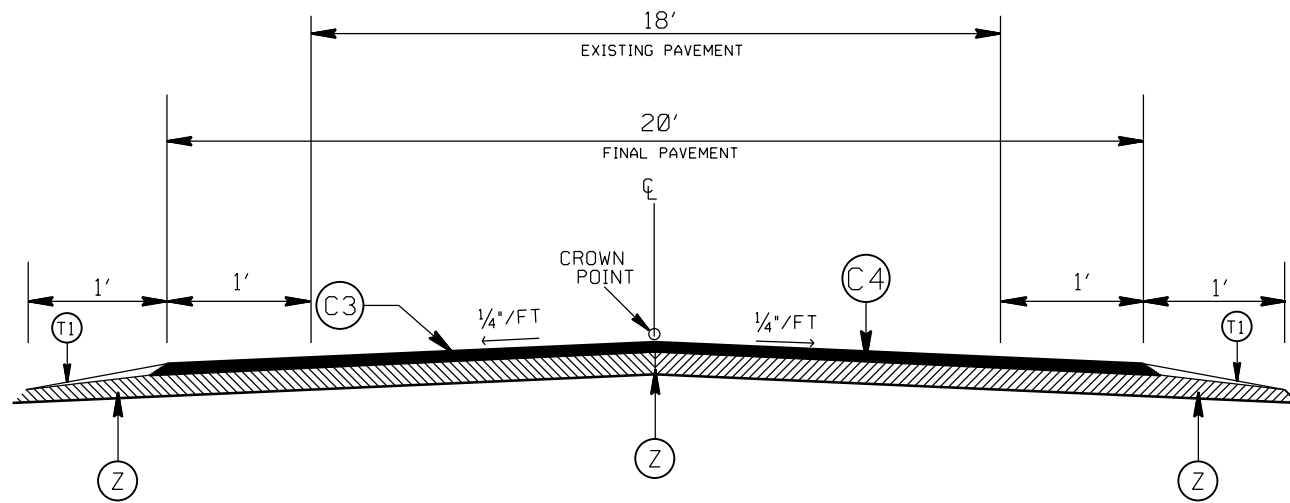
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL. SEE SPECIAL PROVISION FOR AGGREGATE TYPE.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	AST MAT COAT # 78M
(D3)	AST MAT COAT # 67
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 2.0" IN DEPTH.
(V2)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.5"
(Z)	FULL DEPTH RECLAMATION

2017-2018  
UNION COUNTY RESURFACING  
CONTRACT # 2

SCALE	-NA-		REVISIONS
DATE	12/16		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	13	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 5  
SR 1128 TOM STARNES ROAD (MAP 5)

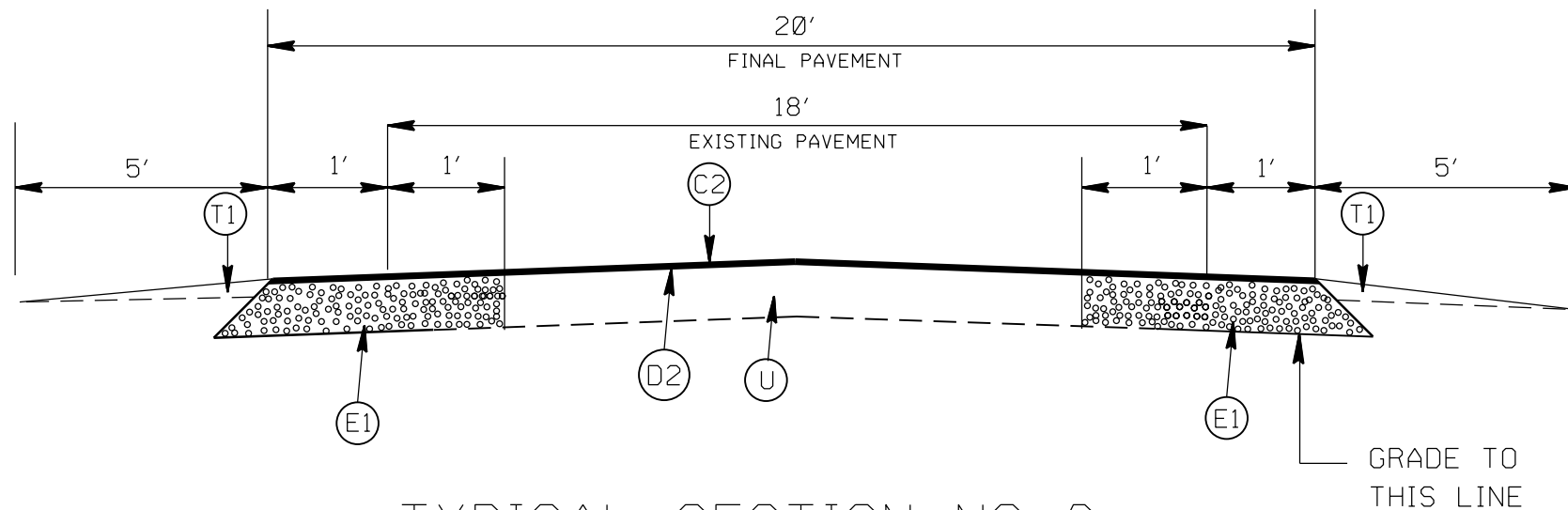
\*SEE NOTES 3, 5 AND 6.

SR 2152 WEST SANDY RIDGE ROAD (MAP 8)

\*SEE NOTES 5 AND 6.

SR 2158 RICHARDSON ROAD (MAP 9)


\*SEE NOTES 5 AND 6



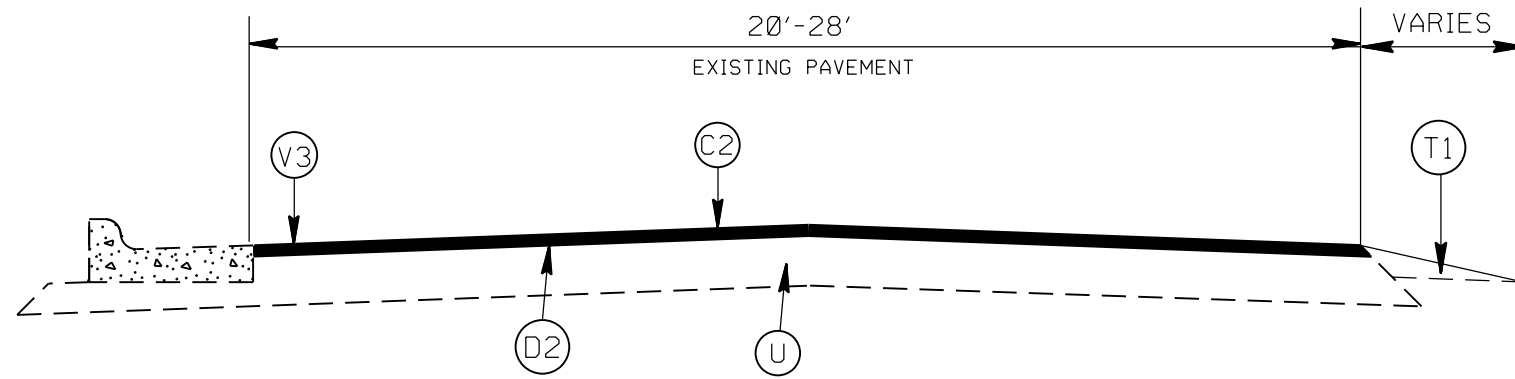
TYPICAL SECTION NO. 6  
SR 2102 MEDLIN ROAD (MAP 6)  
FROM STA: 10+00 TO STA: 33+80

PAVEMENT SCHEDULE

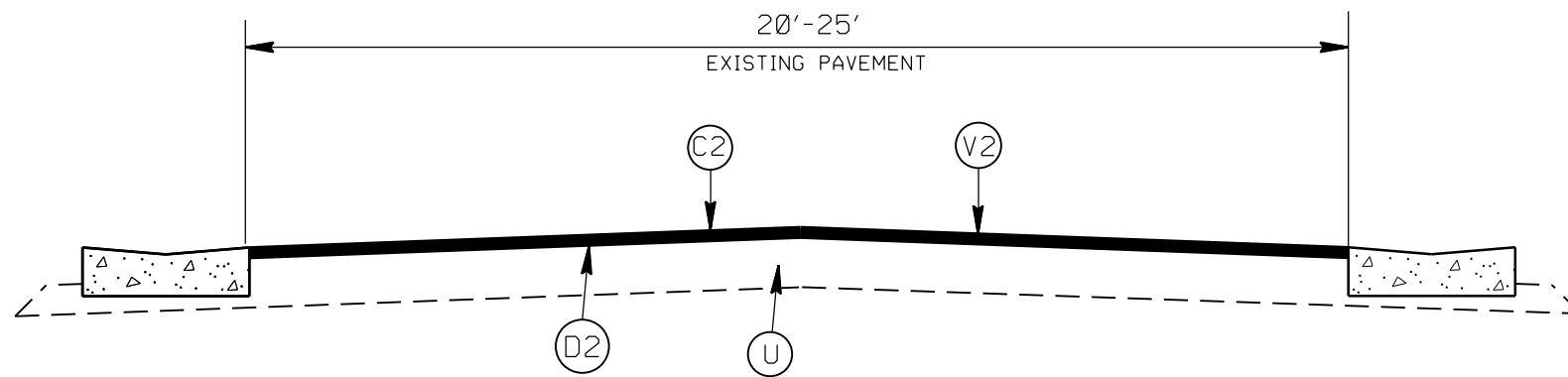
(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL. SEE SPECIAL PROVISION FOR AGGREGATE TYPE.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	AST MAT COAT # 78M
(D3)	AST MAT COAT # 67
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 2.0" IN DEPTH.
(V2)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.5"
(Z)	FULL DEPTH RECLAMATION

2017-2018 UNION COUNTY RESURFACING CONTRACT # 2		
SCALE	-NA-	
DATE	12/16	
DWG. BY	AMO	
DESIGN BY	AMO	
APPROVED	CLA	
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.109011 2017CPT.10.08.209011 - ETC. 2017CPT.10.08.209021 - ETC.	14	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 7  
SR 2102 MEDLIN ROAD (MAP 6)  
FROM 33+80 TO 43+60  
\*SEE NOTE 3



TYPICAL SECTION NO. 8  
SR 2102 MEDLIN ROAD (MAP 6)  
FROM STA:48+70 TO STA:50+30

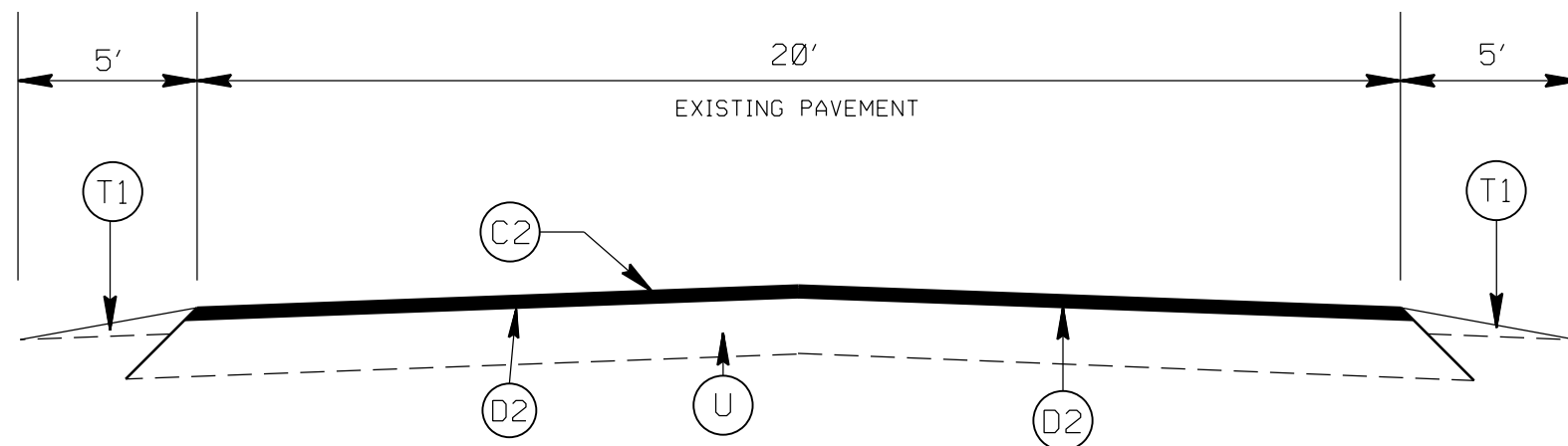
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL. SEE SPECIAL PROVISION FOR AGGREGATE TYPE.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	AST MAT COAT # 78M
(D3)	AST MAT COAT # 67
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 2.0" IN DEPTH.
(V2)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.5"
(Z)	FULL DEPTH RECLAMATION

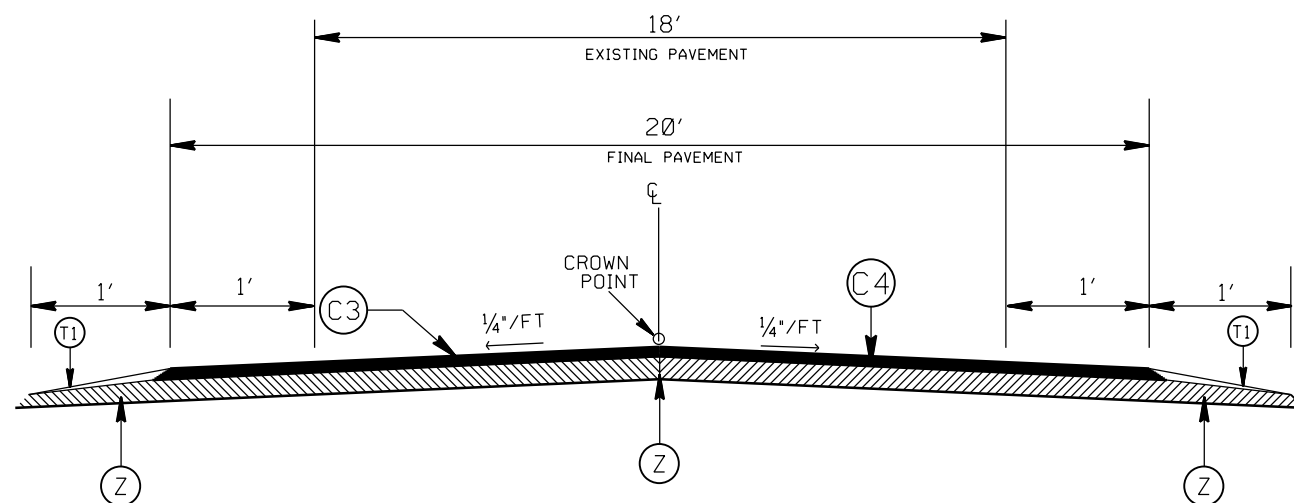
2017-2018  
UNION COUNTY RESURFACING  
CONTRACT # 2

SCALE	-NA-		REVISIONS
DATE	12/16		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	15	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 9  
SR 2102 MEDLIN ROAD (MAP 6)  
FROM STA: 50+30 TO END OF MAP  
\*SEE NOTE 2



TYPICAL SECTION NO. 10  
SR 1540 UNION ROAD (MAP 10)  
SR 3123 UNION ROAD (MAP 11)  
\* SEES NOTE 5 AND 6

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL. SEE SPECIAL PROVISION FOR AGGREGATE TYPE.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	AST MAT COAT # 78M
(D3)	AST MAT COAT # 67
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 2.0" IN DEPTH.
(V2)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.5"
(Z)	FULL DEPTH RECLAMATION

2017-2018  
UNION COUNTY RESURFACING  
CONTRACT # 2

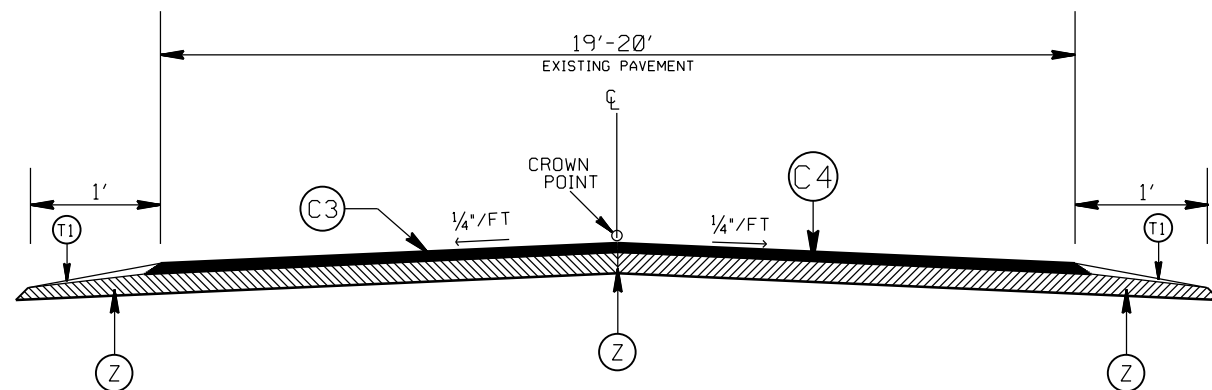
SCALE	-1A-
DATE	12/16
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	CLA



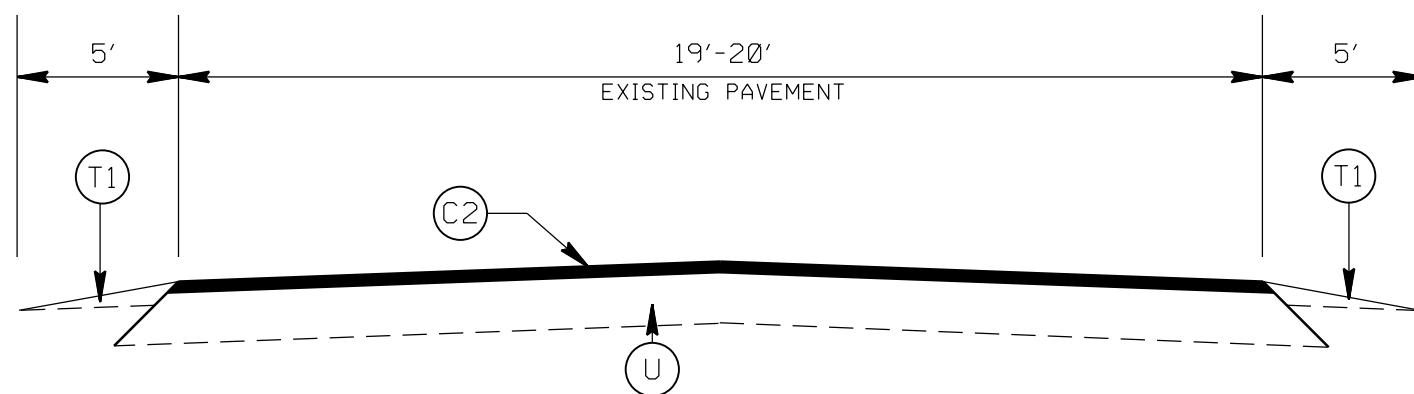
REVISIONS	



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	16	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 11  
SR 1661 MORGAN ACADEMY ROAD (MAP 12)  
FROM NC 200 TO SR 1649 SUGAR AND WINE ROAD  
SEE NOTE 2 AND 5



TYPICAL SECTION NO. 12  
SR 1661 MORGAN ACADEMY ROAD (MAP 13)  
FROM SR 1649 SUGAR AND WINE ROAD TO  
NC 218

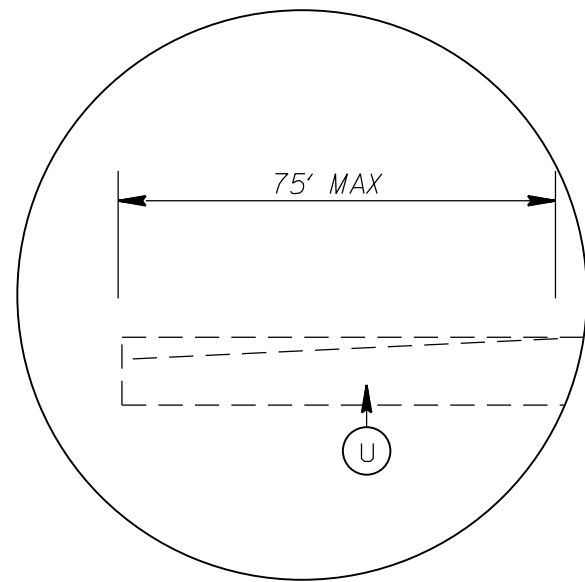
### PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL. SEE SPECIAL PROVISION FOR AGGREGATE TYPE.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	AST MAT COAT # 78M
(D3)	AST MAT COAT # 67
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 2.0" IN DEPTH.
(V2)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.5"
(Z)	FULL DEPTH RECLAMATION

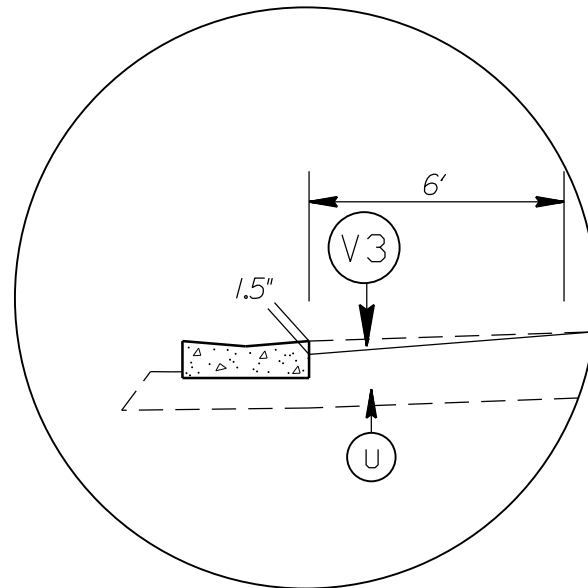
2017-2018  
UNION COUNTY RESURFACING  
CONTRACT #1

SCALE	-NA-		REVISIONS
DATE	12/16		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.I 2017CPT.10.08.20901.I - ETC. 2017CPT.10.08.20902.I - ETC.	17	
F.A. PROJECT NO.			



DETAIL FOR INCIDENTAL MILLING (0" TO 2.0")

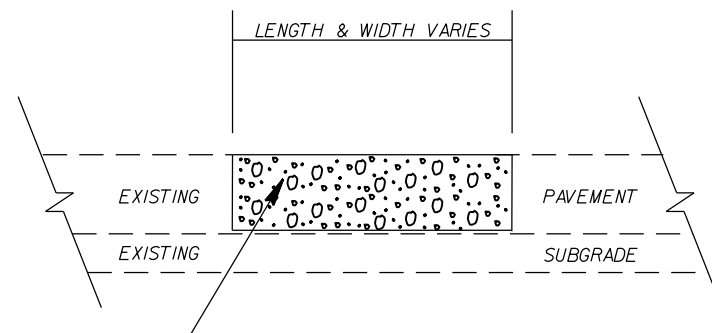


DETAIL FOR PROFILE MILLING (0" TO 1.5")  
MAP 6

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL. SEE SPECIAL PROVISION FOR AGGREGATE TYPE.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	AST MAT COAT # 78M
(D3)	AST MAT COAT # 67
(E1)	PROPOSED 5" OF ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE 570 LBS. PER SQ. YD.
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILLING OF EXISTING PAVEMENT, 2.0" IN DEPTH.
(V2)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.5"
(Z)	FULL DEPTH RECLAMATION

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER.  
ASPHALT TYPE I19.0C SHALL BE PLACED.


2017-2018  
UNION COUNTY RESURFACING  
CONTRACT # 2

SCALE	-NA-		REVISIONS	
DATE	12/16			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2017CPT.10.08.10901.1 2017CPT.10.08.20901.1 - ETC. 2017CPT.10.08.20902.1 - ETC.	18	
F.A. PROJECT NO.			

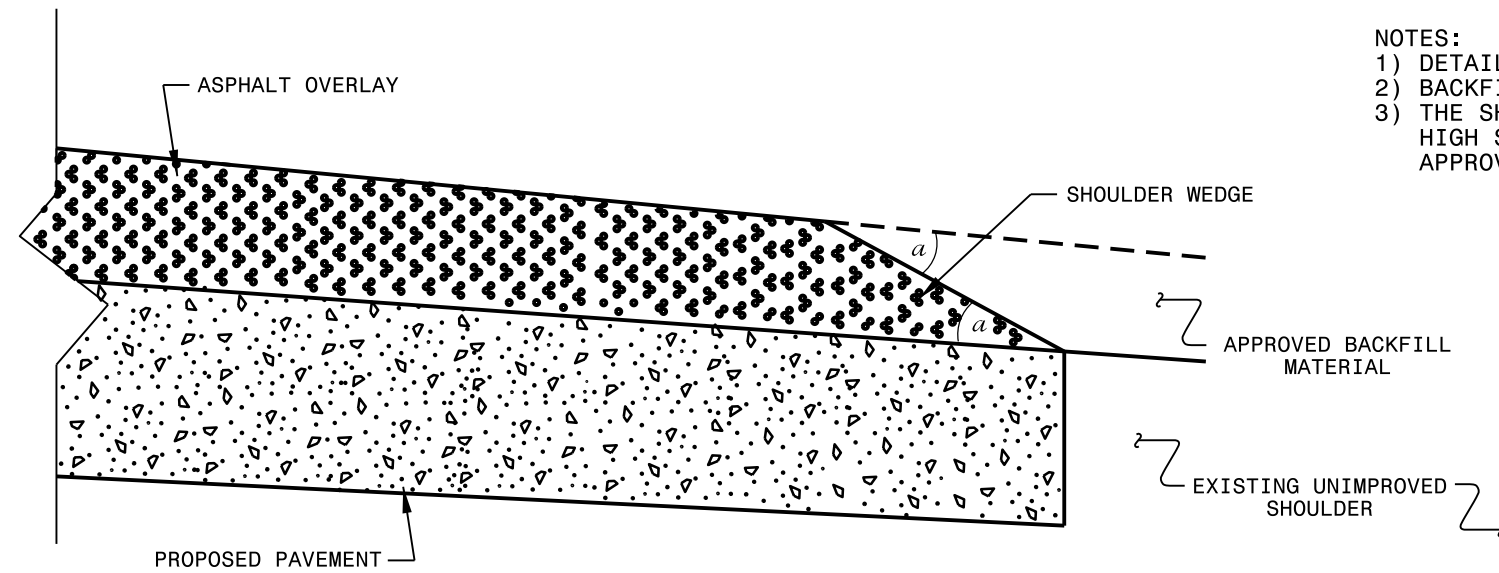
NOTES:

- 1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 2: ON MAP 7 MILL AND FILL BRIDGE 2", MAP 12 MILL AND FILL BRIDGE 1" ,  
MAP 6 (TIMBER BRIDGE ONLY), MILL BRIDGE 1.0" IN DEPTH AND FILL WITH 1.5".
- 3: ON MAPS 2 ,5 AND 6 (CONCRETE BRIDGE) DO NOT MILL OR RESURFACE BRIDGES.
- 4: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER.
- 5: FULL DEPTH RECLAMATION AND AST SHALL BE COMPLETED ON MAPS 5, 8, 9, 10, 11 and 12  
PRIOR TO THE ASPHALT OVERLAY.
6. WIDENING ON FULL DEPTH RECLAMATION MAPS TO BE DONE BY STATE FORCES.
7. CONTRACTOR SHALL MILL REFLECTIVE CRACKING BUMPS IN EXISTING ASPHALT PRIOR  
TO PLACING MAT STONE. REFLECTIVE CRACK MILLING TO BE PAID AS 0-1.5" MILLING.

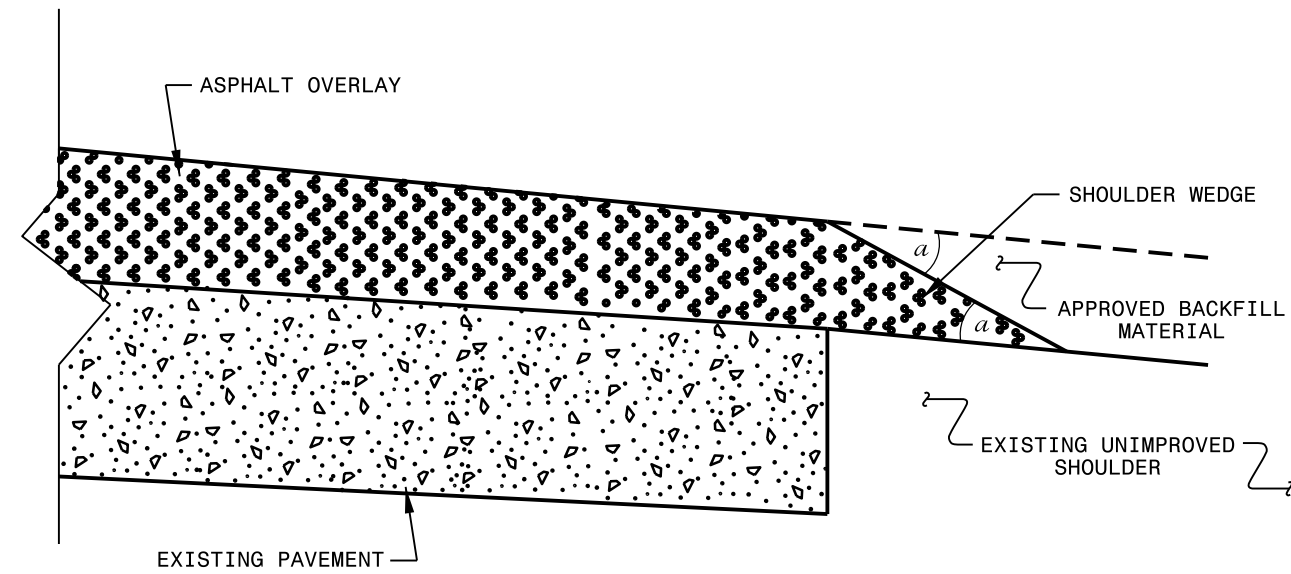
2017-2018 UNION COUNTY RESURFACING CONTRACT * 2		
SCALE	-NA-	
DATE	12/16	
DWG. BY	AMO	
DESIGN BY	AMO	
APPROVED	CLA	
		REVISIONS

NOTES:

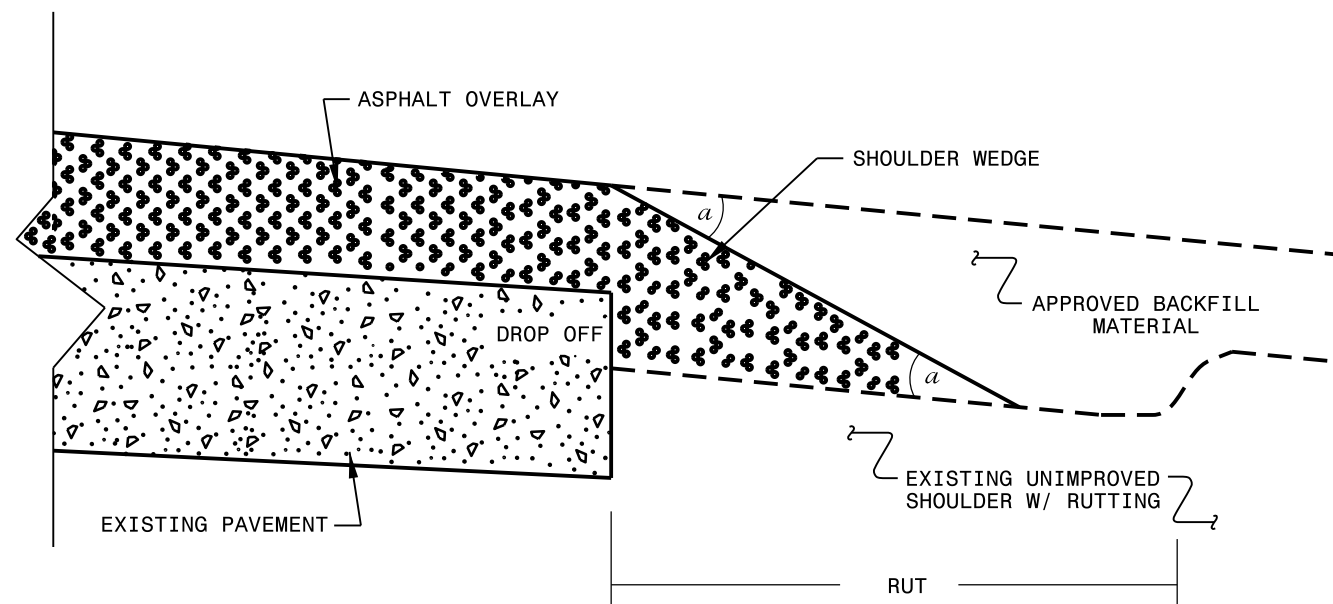
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**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)

- SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn			

24-MAR-2016 11:45  
 S:\Contracts\Resurfacing Projects\Shoulder Wedge Details\Revised Shoulder Wedge Detail.dgn  
 \$\$\$USERNAME\$\$\$

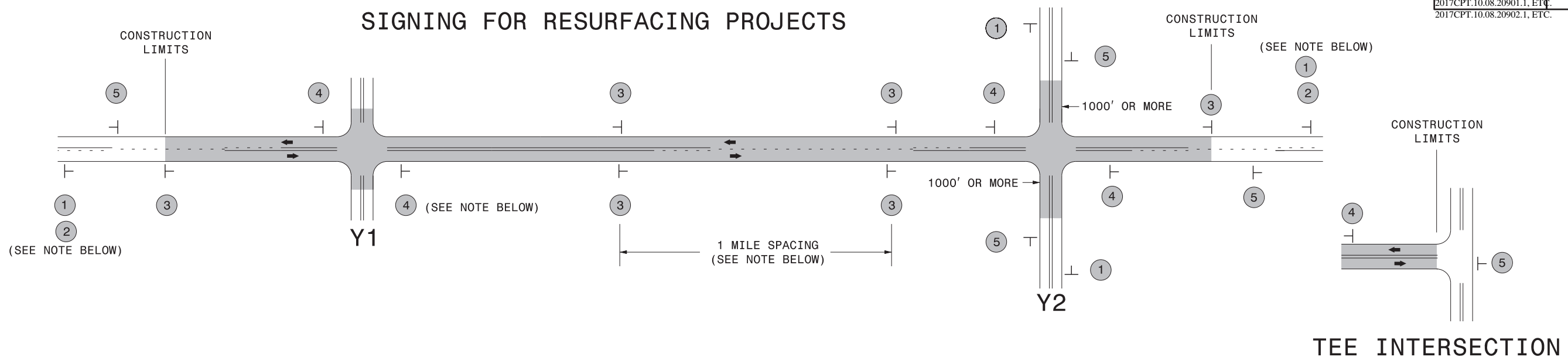


PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.10.08.10901.1	21	
2017CPT.10.08.20901.1-ETC.		
2017CPT.10.08.20902.1, ETC.		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4890000000-E	4890000000-E			4695000000-E	4710000000-E	4725000000-E	4810000000-E	4900000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS	LAW ENFORCEMENT HR	4" X 90 M WHITE THERMO (HRM) LF	4" X 120 M YELLOW THERMO (HRM) LF	4" X 120 M WHITE THERMO (HRM) LF	8" X 90 M YELLOW THERMO LF	24" X 120 M WHITE THERMO LF	THERMO LT ARROW 90 M EA	4" YELLOW PAINT LF	YELLOW & YELLOW MARKERS EA	
2017CPT.10.08.10901.1	Union	1	NC 75/ROUTE # 3000007589	FROM SR 1111 OLD WAXHAW-MONROE RD TO SR 1327 POTTER RD MILEPOST 2.68 TO 6.74	1	2	2WU	4.06	24.5	239.1	*		42,880	34,250	21	6	60	2	42,740	268	
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.10901.1</b>										239.1	*		42,880	34,271	6	60	2	42,740	268		
2017CPT.10.08.20901.1	Union	2	SR 1005 LANDSFORD ROAD/ROUTE # 4000100589	FROM 100 FOOT SOUTH OF SR 1903 GILBOA ROAD TO US 74 MILEPOST 10.93 TO 14.02	2,3	2	2WU	3.09	20-24	239.1	*	40.00									
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.1</b>										239.1	*	40.00									
2017CPT.10.08.20901.2	Union	3	SR 1107 REHOBETH ROAD/ROUTE # 4000110789	FROM SR 1108 RICHARDSON KING ROAD TO SR 1112 SIMS ROAD MILEPOST 4.06 TO 2.85	4	2	2WU	1.21	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.2</b>										239.1	*										
2017CPT.10.08.20901.3	Union	4	SR 1107 REHOBETH ROAD/ROUTE # 4000110789	FROM SR 1112 SIMS ROAD TO SR 1106 WALK UP ROAD MILEPOST 2.85 TO 2.22	4	2	2WU	0.63	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.3</b>										239.1	*										
2017CPT.10.08.20901.4	Union	5	SR 1128 TOM STARNES ROAD/ROUTE # 4000112889	FROM NC 200 TO NC 522 MILEPOST 3.29 TO 6.56	5	2	2WU	3.27	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.4</b>										239.1	*										
2017CPT.10.08.20901.5	Union	6	SR 2102 MEDLIN ROAD/ROUTE # 4000210289	FROM SR 2181 SUNSETO DRIVE TO PAVEMENT JOINT @ SR 2106 MACEDONIA CHURCH ROAD MILEPOST 0.00-3.0	6,7,8,9	2	2WU	3	20-28	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.5</b>										239.1	*										
2017CPT.10.08.20901.6	Union	7	SR 2139 GRIFFITH ROAD/ROUTE # 4000213989	FROM SR 2144 HELMS SHORTCUT ROAD TO SR 2146 PLYLER MILL ROAD MILEPOST 2.33-5.3	1	2	2WU	3	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.6</b>										239.1	*										
2017CPT.10.08.20901.7	Union	8	SR 2152 WEST SANDY RIDGE ROAD/ROUTE # 4000214689	FROM NC 207 TO SR 2146 PLYLER MILL ROAD MILEPOST 0.00-2.59	5	2	2WU	2.9	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.7</b>										239.1	*										
2017CPT.10.08.20901.8	Union	9	SR 2158 RICHARDSON ROAD/ROUTE # 4000215889	FROM SR 2139 GRIFFITH ROAD TO SR 2152 WEST SANDY RIDGE ROAD MILEPOST 0.00-2.36	5	2	2WU	2.36	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.8</b>										239.1	*										
2017CPT.10.08.20901.9	Union	10	SR 1540 UNION ROAD/ROUTE # 4000154089	FROM SR 1539 ROCK HILL CHURCH ROAD TO MECKLENBURG COUNTY LINE MILEPOST 0.00 TO 1.3	10	2	2WU	1.3	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.9</b>										239.1	*										
2017CPT.10.08.20901.10	Mecklenburg	11	SR 3123 UNION ROAD/ROUTE # 4000312389	FROM UNION COUNTY LINE TO SR 3124 ALLEN BLACK ROAD MILEPOST 1.3 TO 1.86	10	2	2WU	0.56	20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.10</b>										239.1	*										
2017CPT.10.08.20901.11	Union	12	SR 1661 MORGAN ACADEMY ROAD/ROUTE # 4000166189	FROM NC 200 TO SR 1649 SUGAR AND WINE ROAD MILEPOST 1.2-0.00	11	2	2WU	1.2	19-20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.11</b>										239.1	*										
2017CPT.10.08.20901.12	Union	13	SR 1661 MORGAN ACADEMY/ROUTE # 4000166189	FROM SR 1649 SUGAR AND WINE TO NC 218 MILEPOST 1.2 -2.37	12	2	2WU	1.17	19-20	239.1	*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20901.12</b>										239.1	*										
2017CPT.10.08.20902.1	Union	5	SR 1128 TOM STARNES ROAD/ROUTE # 4000112889	FROM NC 200 TO NC 522 MILEPOST 3.29-6.55	5	2	2WU	3.27	20		*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20902.1</b>											*										
2017CPT.10.08.20902.2	Union	8	SR 2152 WEST SANDY RIDGE ROAD/ROUTE # 4000214689	FROM NC 207 TO SR 2146 PLYLER MILL ROAD MILEPOST 0.00-2.59	5	2	2WU	2.9	20		*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20902.2</b>											*										
2017CPT.10.08.20902.3	Union	9	SR 2158 RICHARDSON ROAD/ROUTE # 4000215889	FROM SR 2139 GRIFFITH ROAD TO SR 2152 WEST SANDY RIDGE ROAD MILEPOST 0.00-2.36	5	2	2WU	2.36	20		*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20902.3</b>											*										
2017CPT.10.08.20902.4	Union	10	SR 1540 UNION ROAD/ROUTE # 4000154089	FROM SR 1539 ROCK HILL CHURCH ROAD TO MECKLENBURG COUNTY LINE MILEPOST 0.00 TO 1.3	10	2	2WU	1.3	20		*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20902.4</b>											*										
2017CPT.10.08.20902.5	Mecklenburg	11	SR 3123 UNION ROAD/ROUTE # 4000312389	FROM UNION COUNTY LINE TO SR 3124 ALLEN BLACK ROAD MILEPOST 1.3 TO 1.86	10	2	2WU	0.56	20		*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20902.5</b>											*										
2017CPT.10.08.20902.6	Union	12	SR 1661 MORGAN ACADEMY ROAD/ROUTE # 4000166189	FROM NC 200 TO PAVEMENT JOINT AT SR 1649 SUGAR AND WINE ROAD MILEPOST 1.2-0.00	11	2	2WU	1.2	19-20		*										
<b>TOTAL FOR PROJ NO. 2017CPT.10.08.20902.6</b>											*										
<b>GRAND TOTAL</b>										3,108	1	40	42,880	34,271	6	60	2	42,740	268		

# SIGNING FOR RESURFACING PROJECTS



LEGEND	
—	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

## MAINLINE (-L-) SIGNING

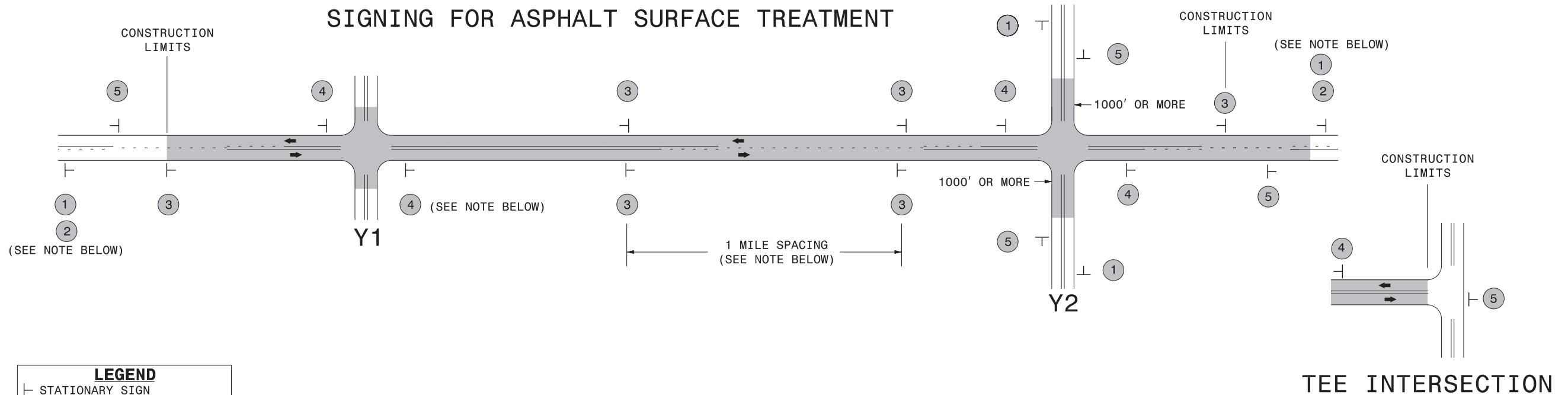
## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 W20-1 48" X 48"	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE 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 style="text-align: center;"> <p>W20-1 48" X 48"</p> </div> <div style="text-align: center;"> <p>W20-7 A 48" X 48"</p> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3aP 24" X 18"	<p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	
	3	 SP 13107 48" X 48"	<ul style="list-style-type: none"> <li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</li> <li>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>	
	4	 SP 13106 48" X 48"	<ul style="list-style-type: none"> <li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</li> <li>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>- 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.</li> <li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> <li>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</li> </ul>	
5	 G20-2 A 48" X 24"	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>		

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**RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS**

# SIGNING FOR ASPHALT SURFACE TREATMENT



**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		#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)
	3	 	<ul style="list-style-type: none"> <li>- ALTERNATE THE FOLLOWING TWO SIGNS:</li> <li>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</li> <li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.</li> <li>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>
	4		<ul style="list-style-type: none"> <li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</li> <li>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>- 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.</li> <li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> <li>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</li> </ul>
	5		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, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

W20-1  
 48" X 48"

W20-7 A  
 48" X 48"

PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

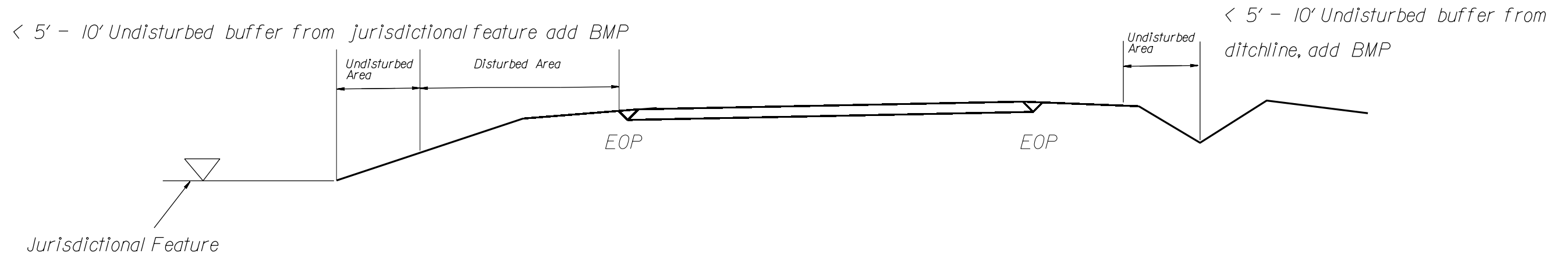
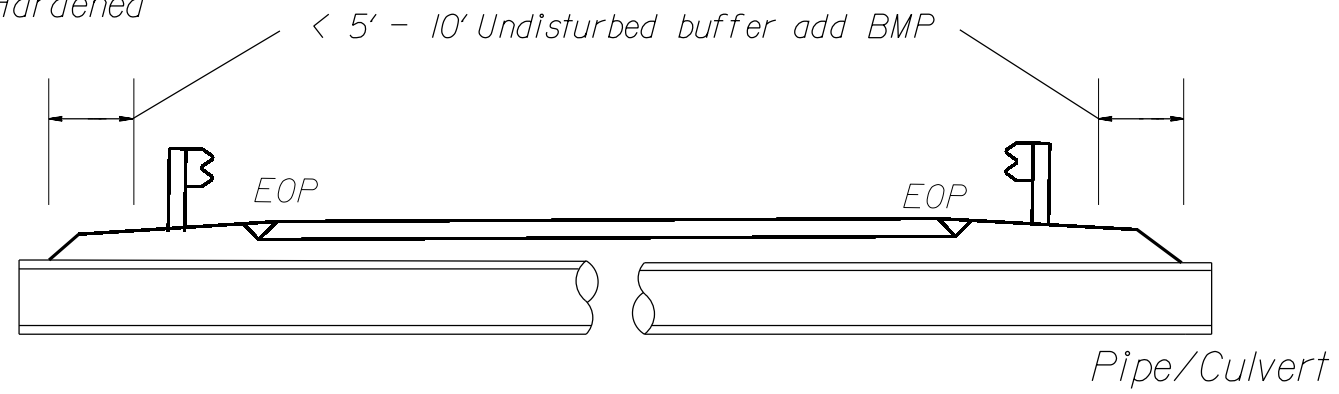
**ADVANCE WARNING SIGNS FOR ASPHALT SURFACE TREATMENTS 2 LANE ROADWAYS**



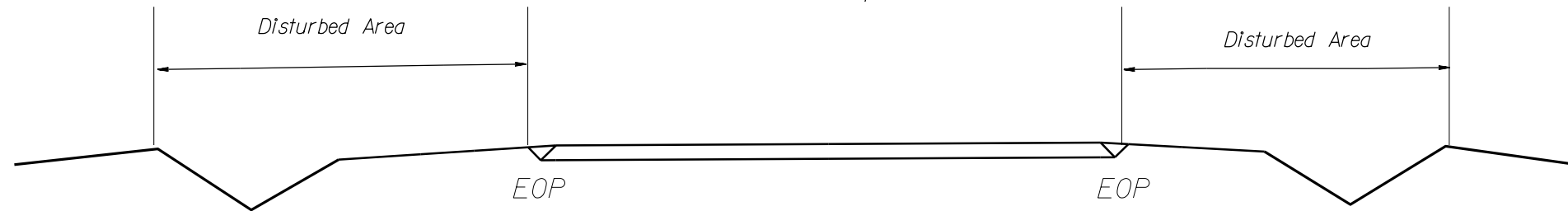
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

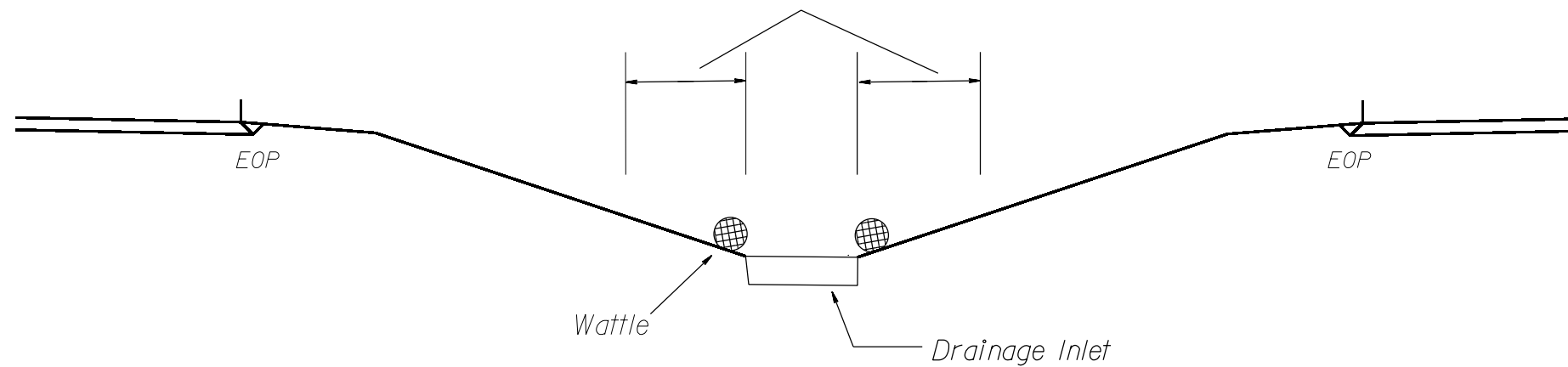
# EROSION CONTROL DETAIL



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

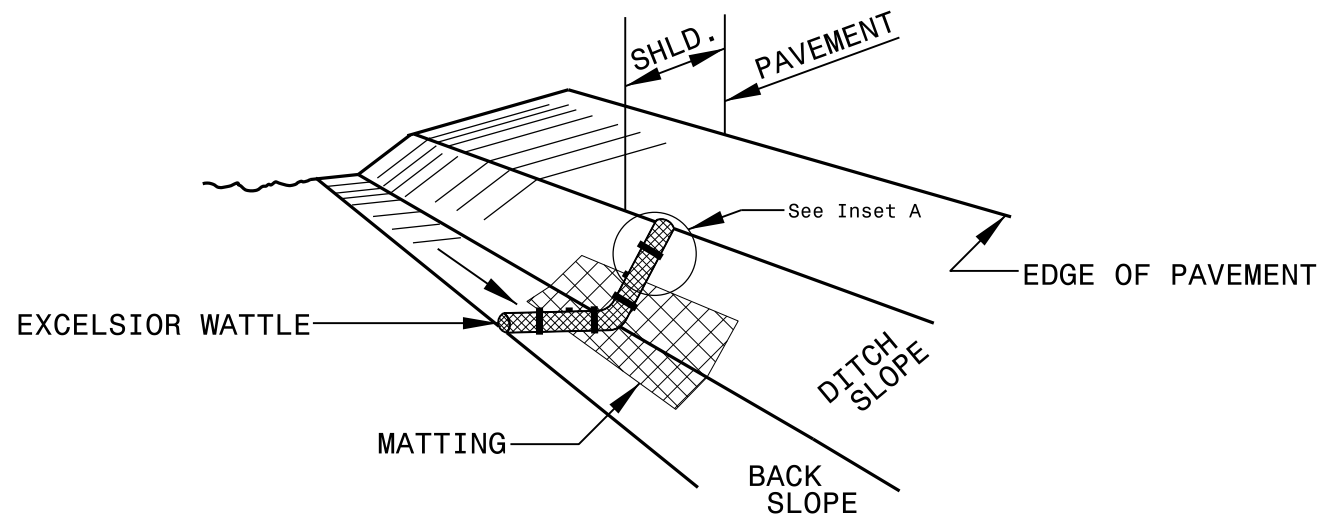


< 5' - 10' Undisturbed buffer from inlet, add wattle

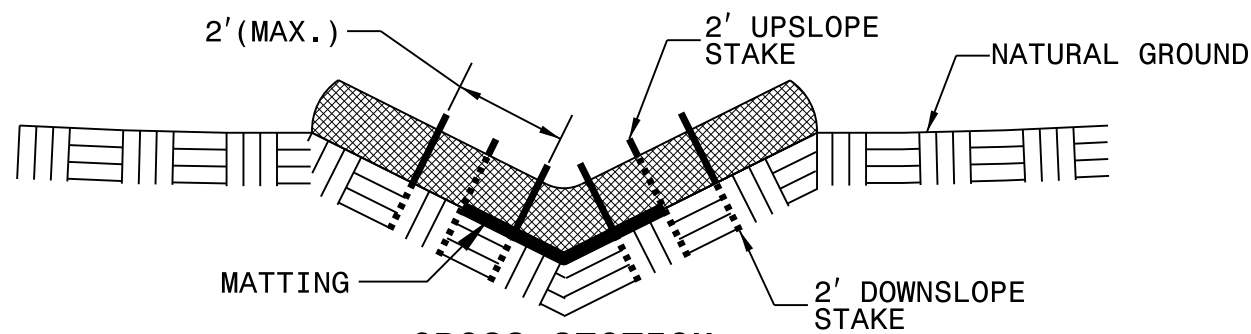


NOT TO SCALE

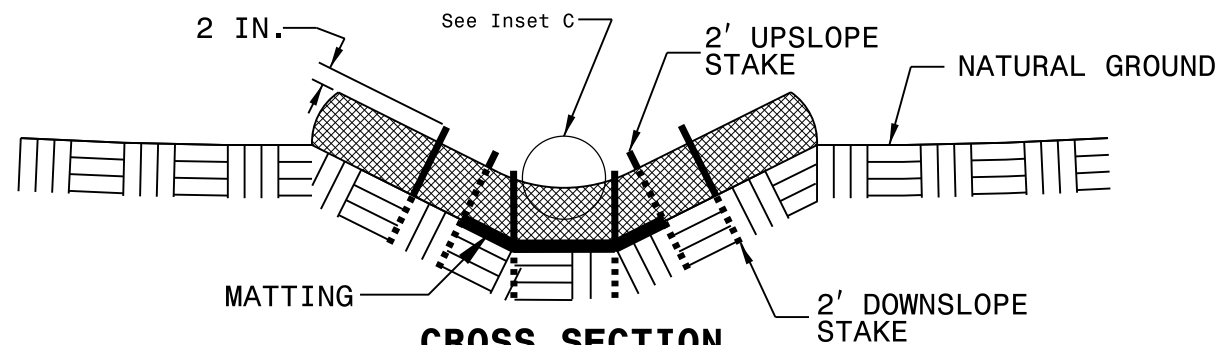
# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**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.

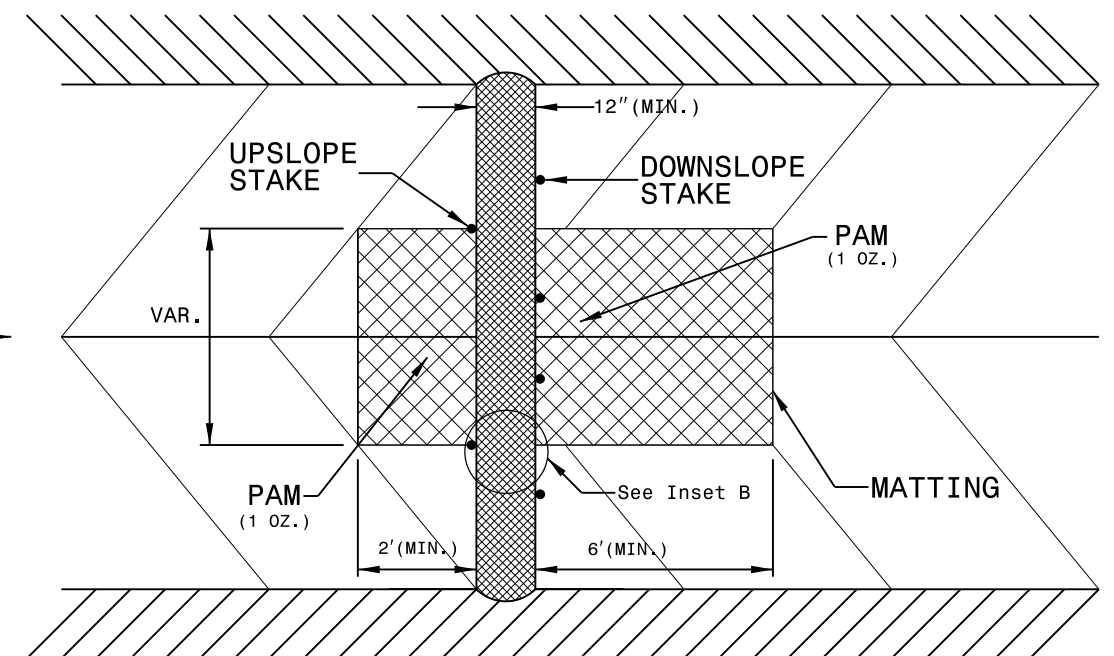
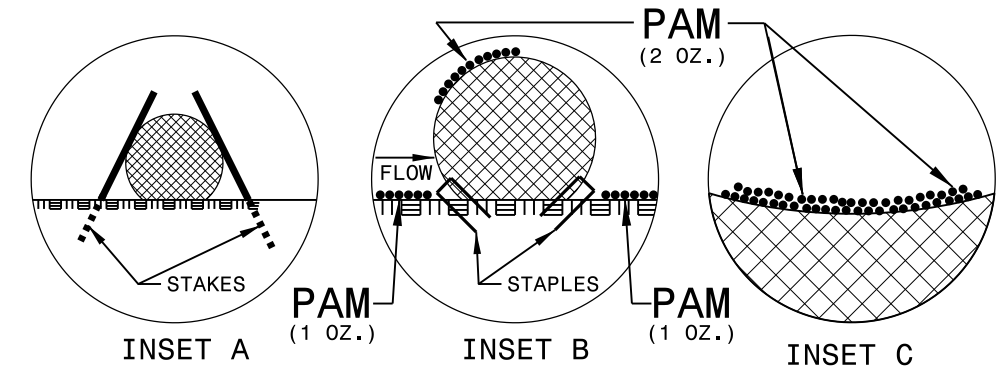
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

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 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



**TOP VIEW**