

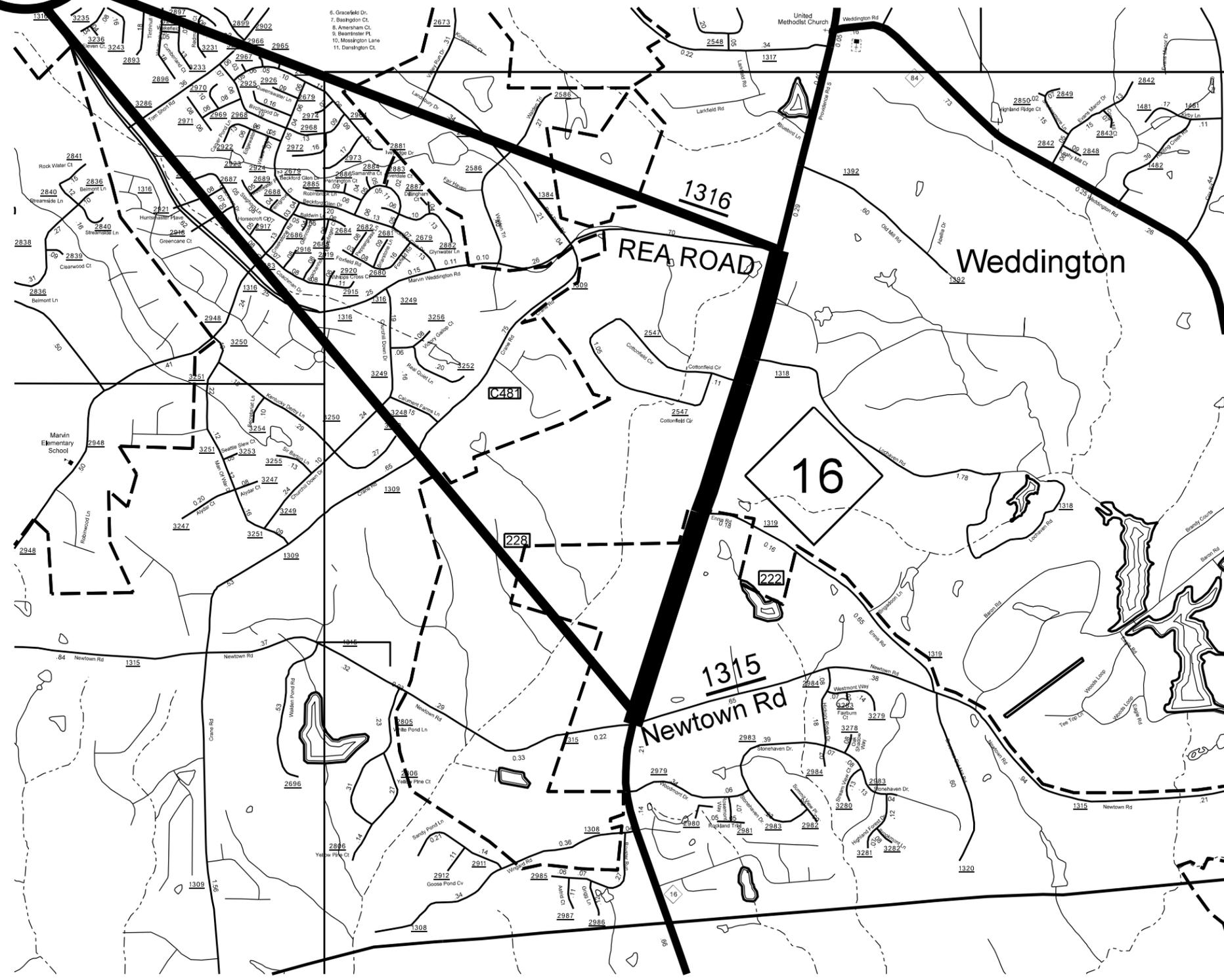
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STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.9, ETC.	1	
F.A. PROJECT NO.			



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

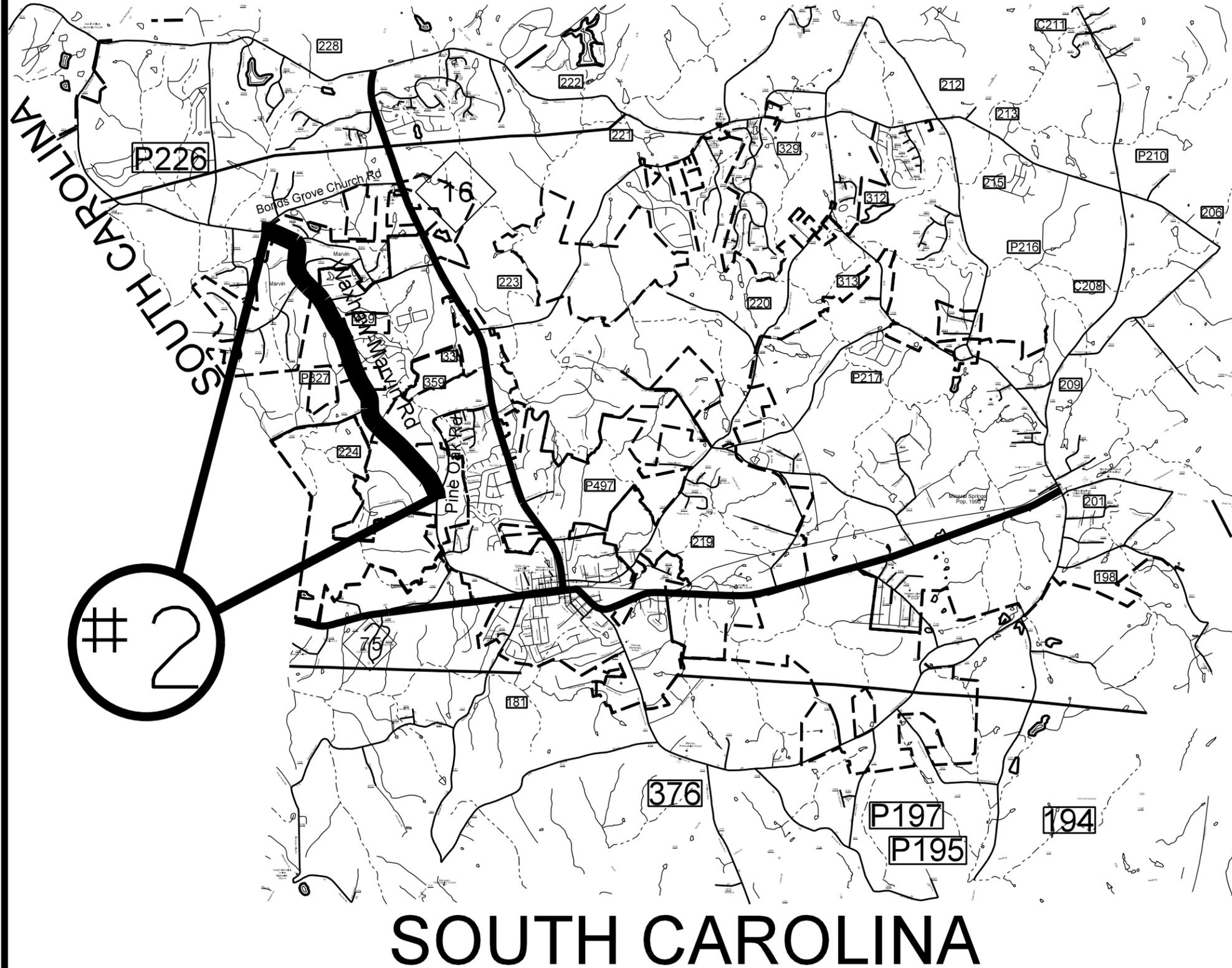
**MAP #1 NC 16**  
**(1.4 MILES)**  
**FROM SR 1315 NEWTOWN ROAD**  
**TO SR 1316 REA ROAD**

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10:64.20901.19, ETC.	2	
F.A. PROJECT NO.			

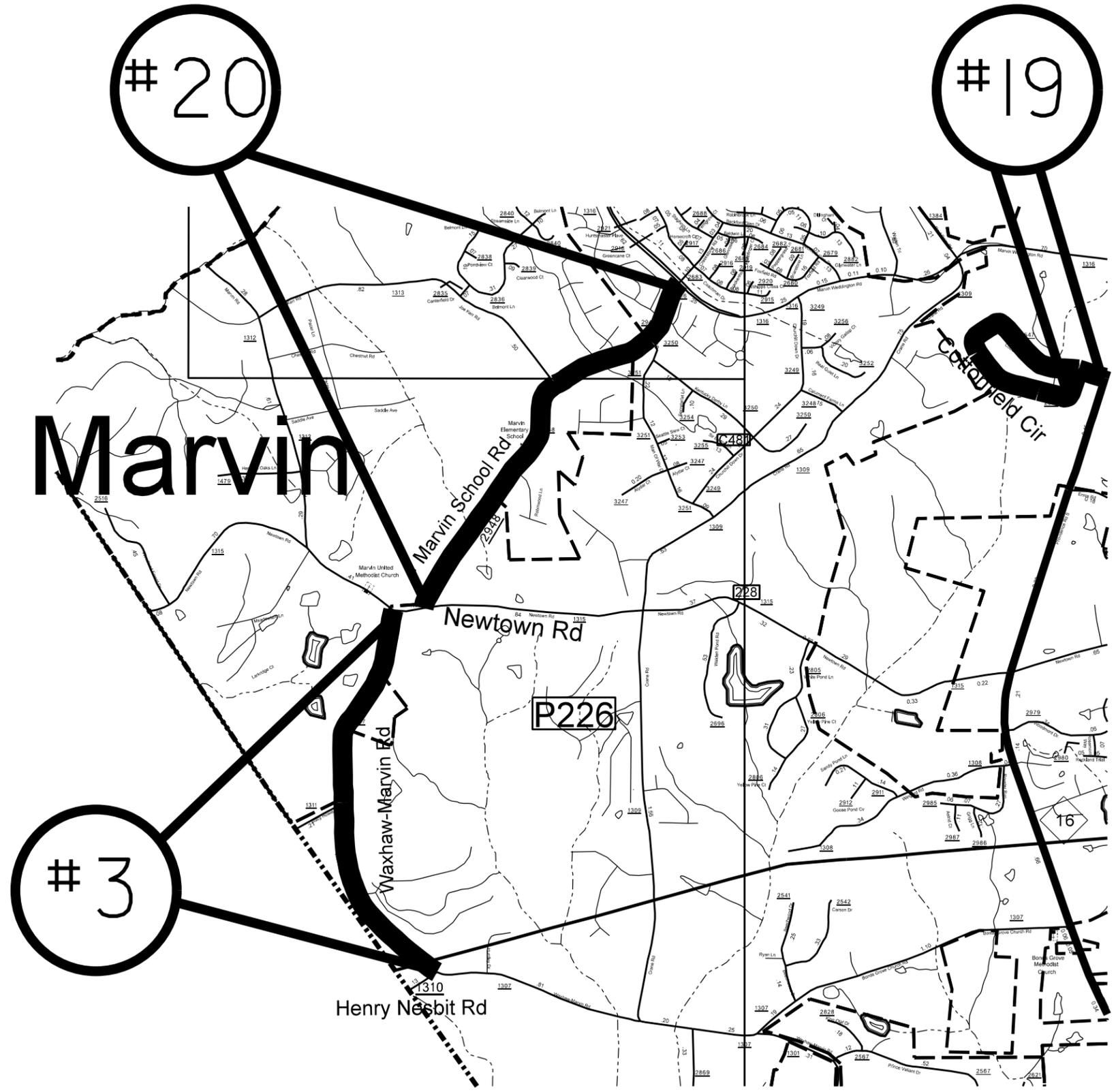


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
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 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #2 SR 1301 WAXHAW - MARVIN ROAD  
 (2.7 MILES)  
 FROM SR 1304 PINE OAK ROAD TO SR 1307  
 BONDS GROVE CHURCH ROAD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.19, 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 #19 SR 2547 COTTONFIELD CIRCLE  
 (1.15 MILES)  
 FROM NC 16 TO SR 2547 COTTONFIELD CIRCLE

MAP #3 SR 1307 WAXHAW-MARVIN ROAD  
 (1.55 MILES)  
 FROM SR 1310 HENRY NESBIT ROAD  
 TO SR 1315 NEWTOWN ROAD

MAP #20 SR 2948 MARVIN SCHOOL ROAD  
 (1.65 MILES)  
 FROM SR 1315 NEWTOWN ROAD  
 TO SR 1316 REA ROAD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10:64.20901.19, ETC.	4	
F.A. PROJECT NO.			



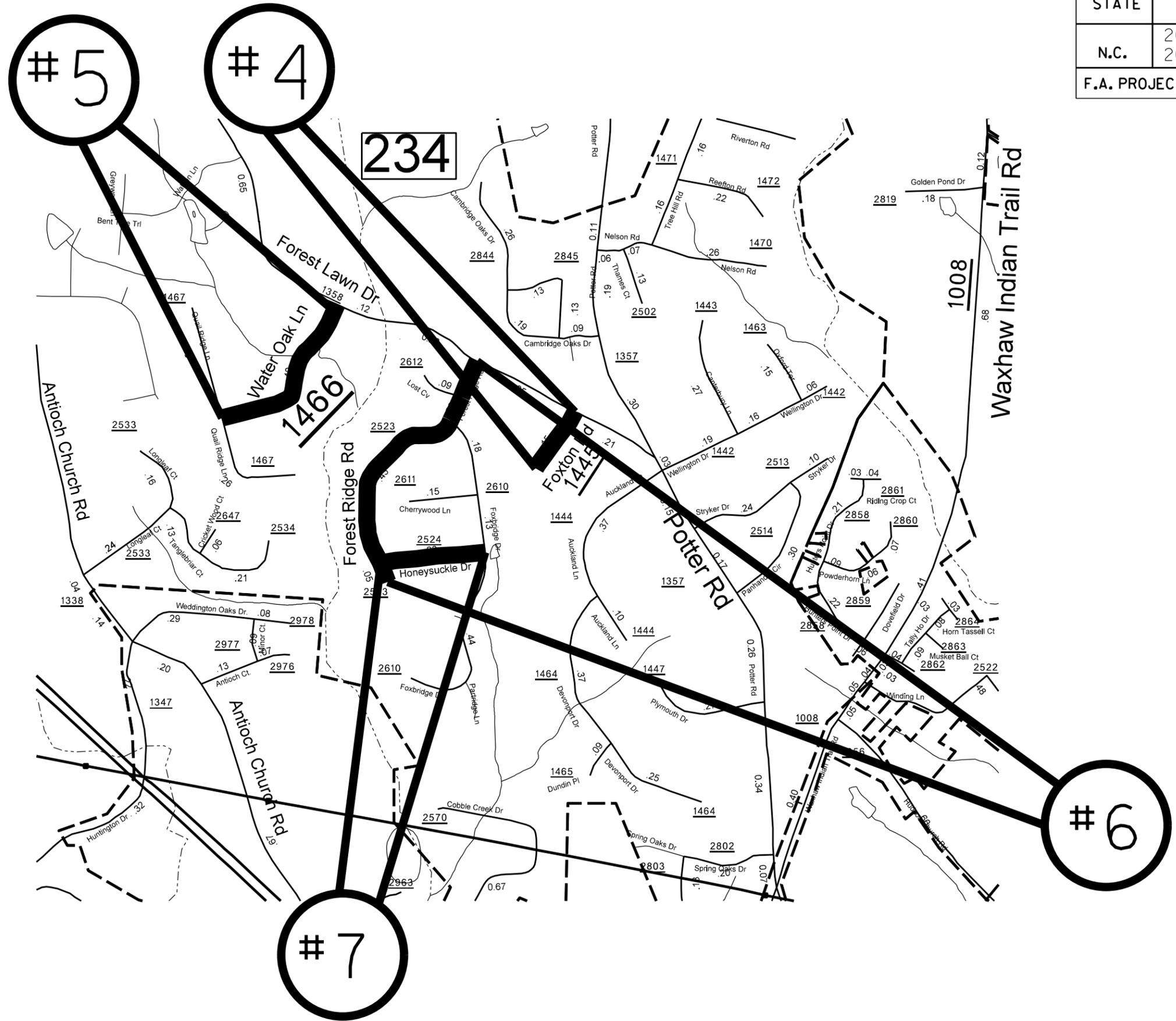
ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #4 SR 1445 FOXTON ROAD  
 (0.15 MILES)  
 FROM SR 1358 FOREST LAWN DRIVE  
 TO DEAD END

MAP #5 SR 1466 WATER OAK LANE  
 (0.4 MILES)  
 FROM SR 1358 FOREST LAWN DRIVE  
 TO SR 1467 QUAIL RIDGE LANE

MAP #6 SR 2523 FOREST RIDGE ROAD  
 (0.62 MILES)  
 FROM SR 1358 FOREST LAWN DRIVE  
 TO DEAD END

MAP #7 SR 2524 HONEYSUCKLE DRIVE  
 (0.24 MILES)  
 FROM SR 2523 FOREST RIDGE ROAD  
 TO SR 2610 FOXBRIDGE DRIVE



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.19, 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

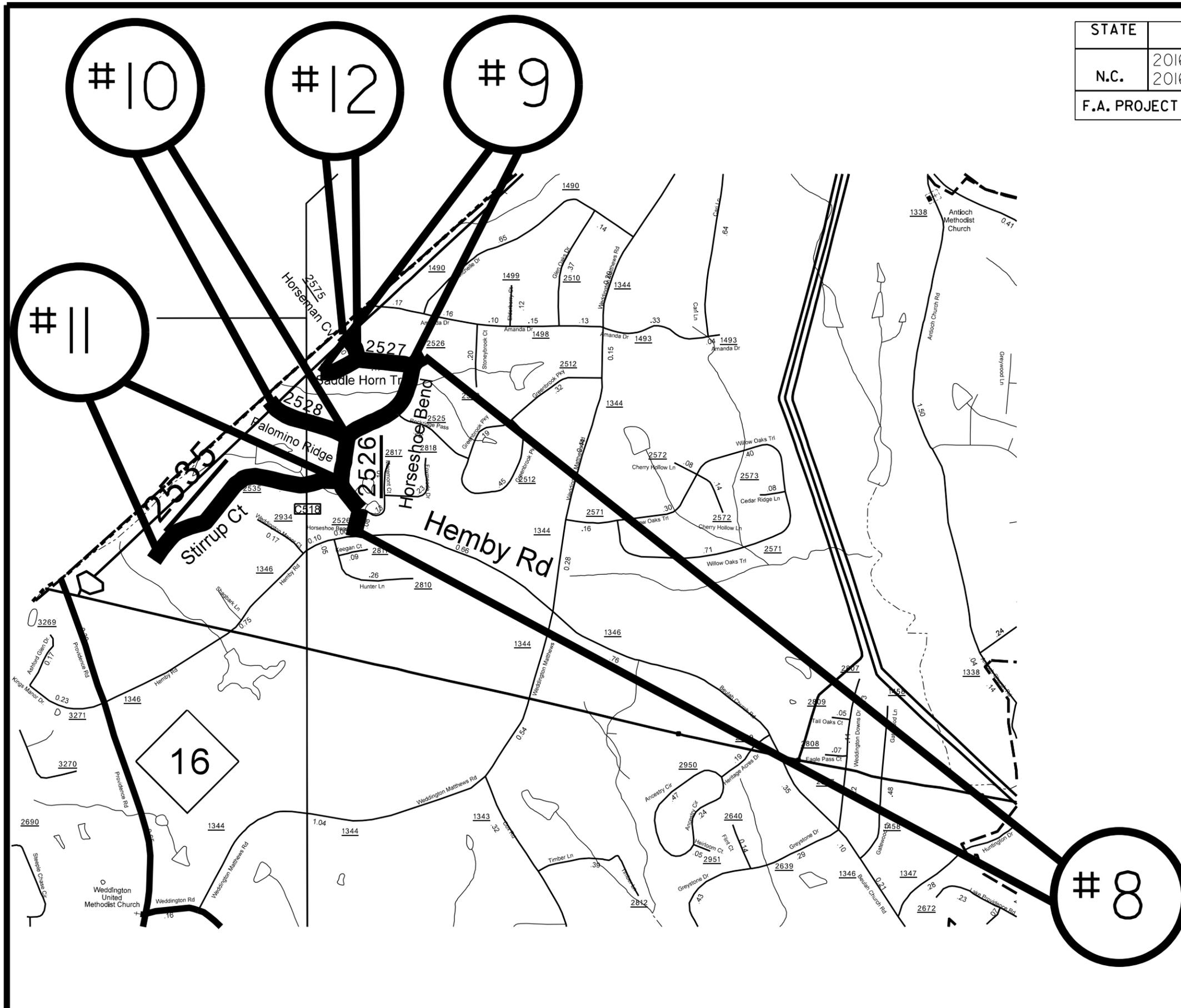
**MAP #8 SR 2526 HORSESHOE BEND**  
(0.66 MILES)  
FROM SR 1346 HEMBY ROAD  
TO CUL-DE-SAC

**MAP #9 SR 2527 SADDLE HORN TRAIL**  
(0.32 MILES)  
FROM SR 2526 HORSESHOE BEND  
TO CUL-DE-SAC

**MAP #10 SR 2528 PALOMINO RIDGE**  
(0.26 MILES)  
FROM SR 2526 HORSESHOE BEND  
TO CUL-DE-SAC

**MAP #11 SR 2535 STIRRUP COURT**  
(0.66 MILES)  
FROM SR 2526 HORSESHOE BEND  
TO CUL-DE-SAC

**MAP #12 SR 2575 HORSEMAN COVE**  
(0.09 MILES)  
FROM SR 2527 SADDLE HORN TRAIL  
TO CUL-DE-SAC



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.19, ETC.	6	
F.A. PROJECT NO.			

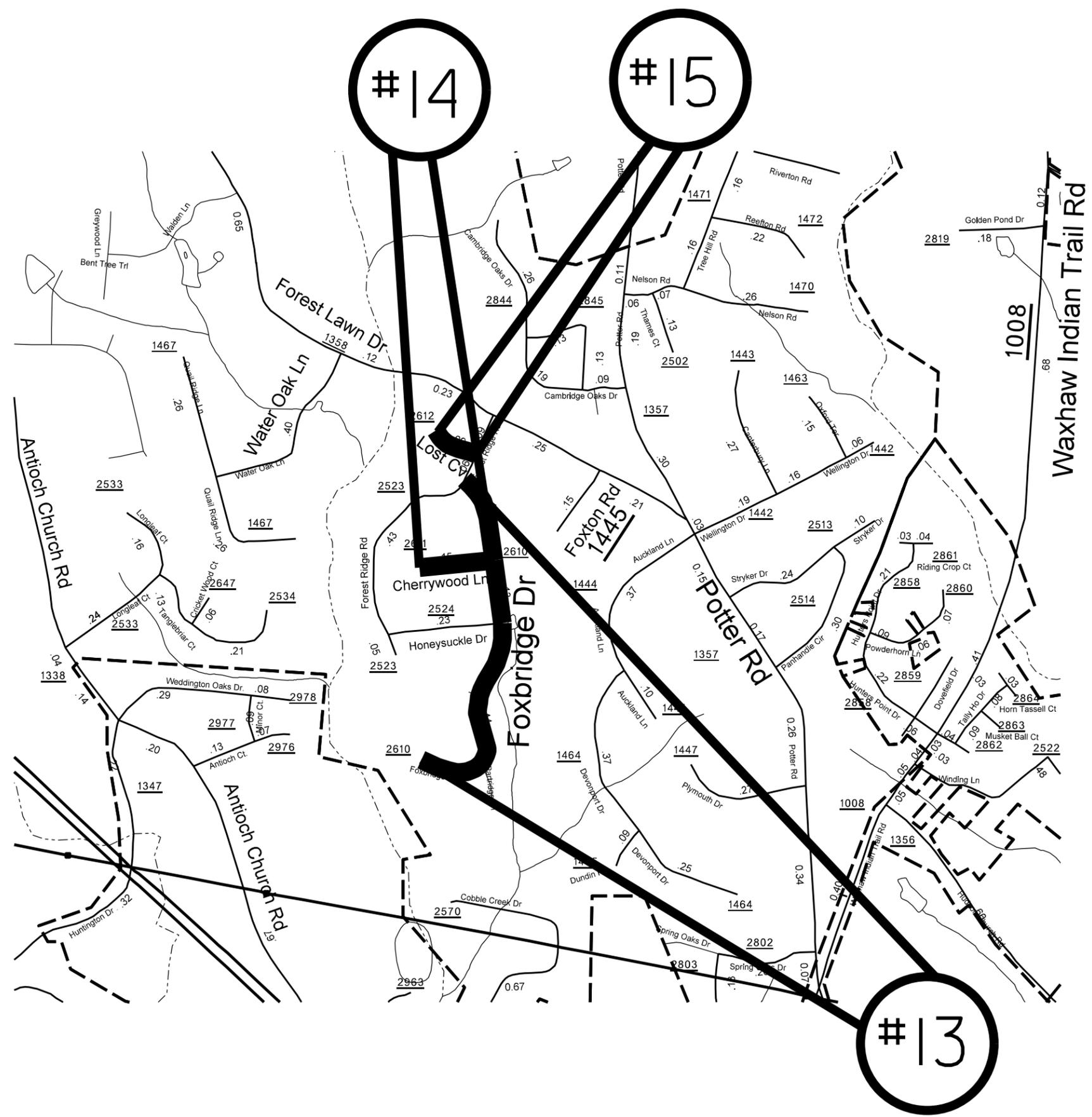


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #13 SR 2610 FOXBRIDGE DRIVE  
 (0.76 MILES)  
 FROM SR 2523 FOREST RIDGE ROAD  
 TO CUL-DE-SAC

MAP #14 SR 2611 CHERRYWOOD LANE  
 (0.15 MILES)  
 FROM SR 2610 FOXBRIDGE DRIVE  
 TO CUL-DE-SAC

MAP #15 SR 2612 LOST COVE ROAD  
 (0.1 MILES)  
 FROM SR 2523 FOREST RIDGE ROAD  
 TO CUL-DE-SAC

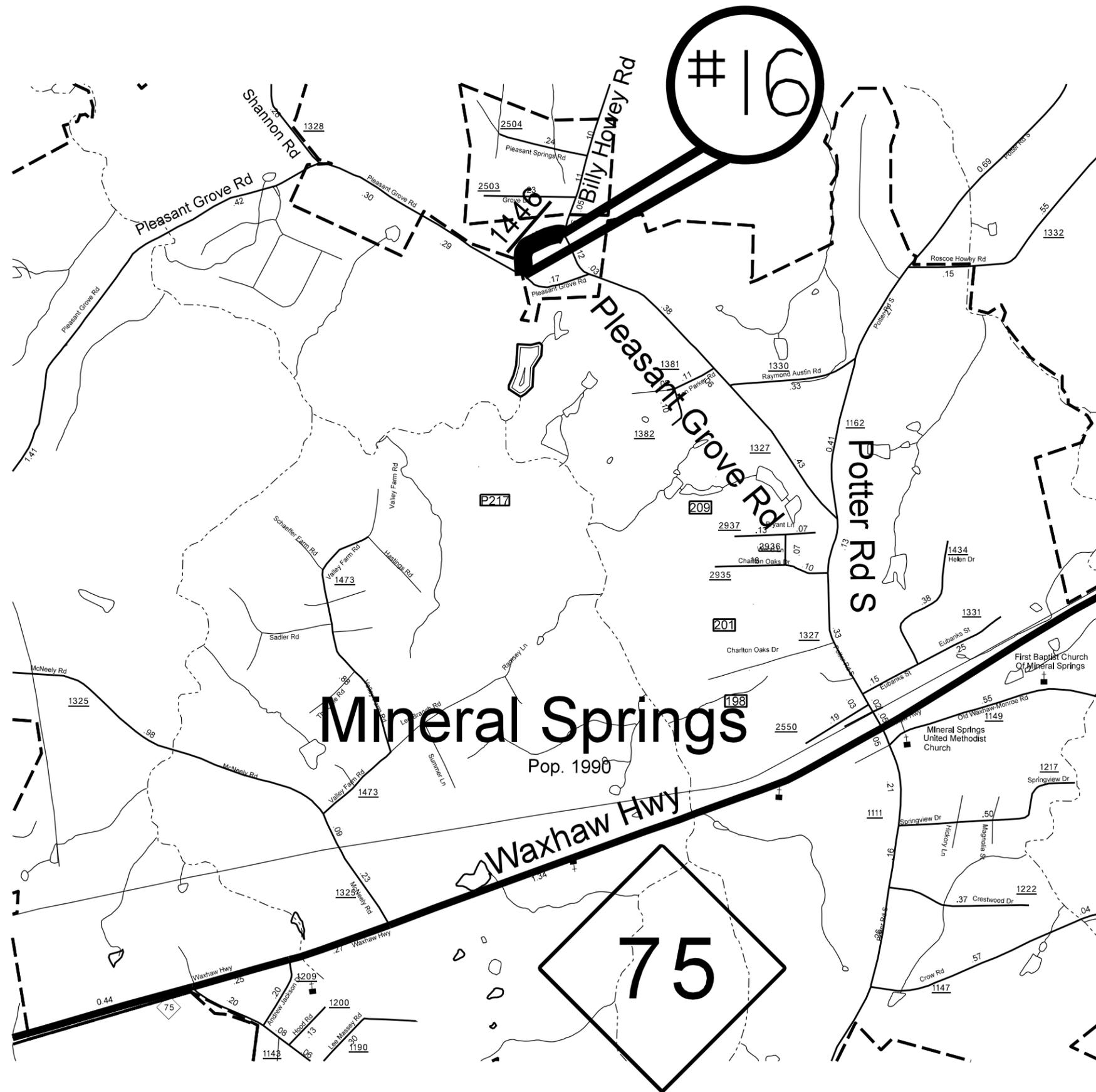


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
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F.A. PROJECT NO.			

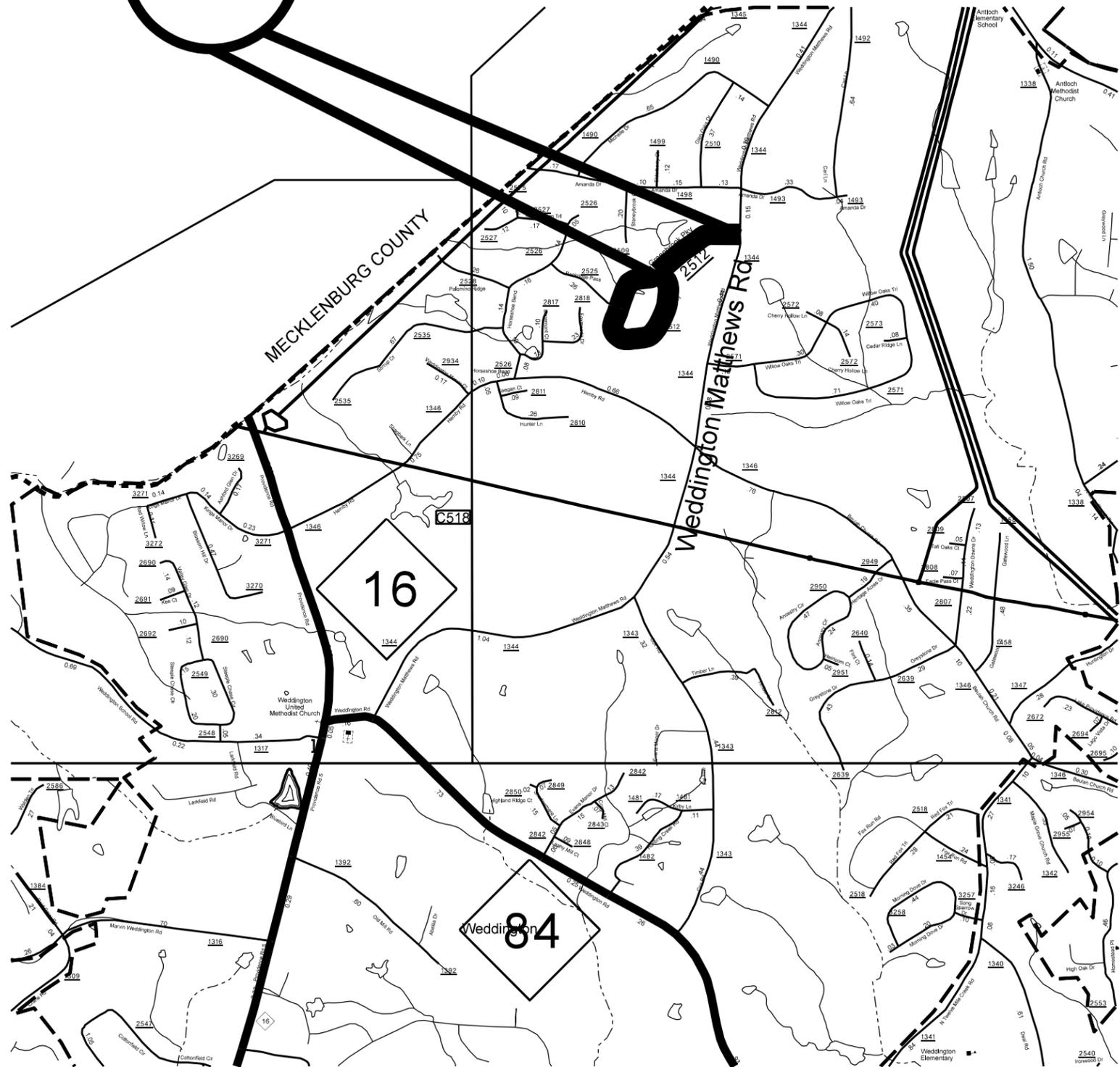


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #16 SR 1446 CAMP GROUND ROAD  
 (0.18 MILES)  
 FROM SR 1327 PLEASANT GROVE ROAD  
 TO SR 1329 BILLY HOWIE ROAD



#17



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.19, ETC.	8	
F.A. PROJECT NO.			

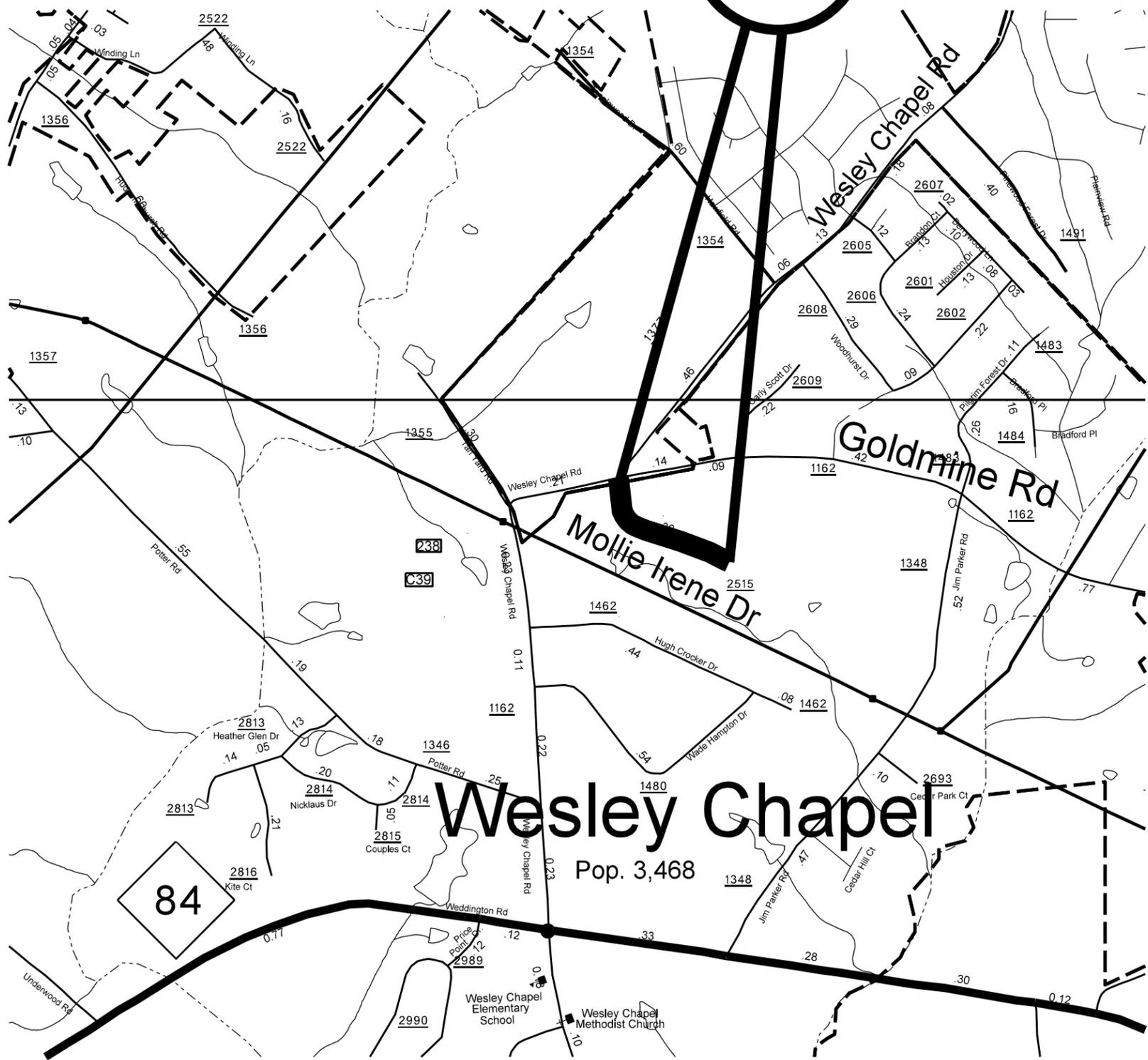


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #17 SR 2512 GREENBROOK PARKWAY  
 (0.95 MILES)  
 FROM SR 1344 WEDDINGTON MATTHEWS ROAD  
 TO SR 2512 GREENBROOK PARKWAY

#18

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.19, ETC.	9	
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 #18 SR 2515 MOLLIE IRENE DRIVE  
 (0.30 MILES)  
 FROM SR 1162 WESLEY CHAPEL ROAD  
 TO DEAD END

**Wesley Chapel**  
 Pop. 3,468

84

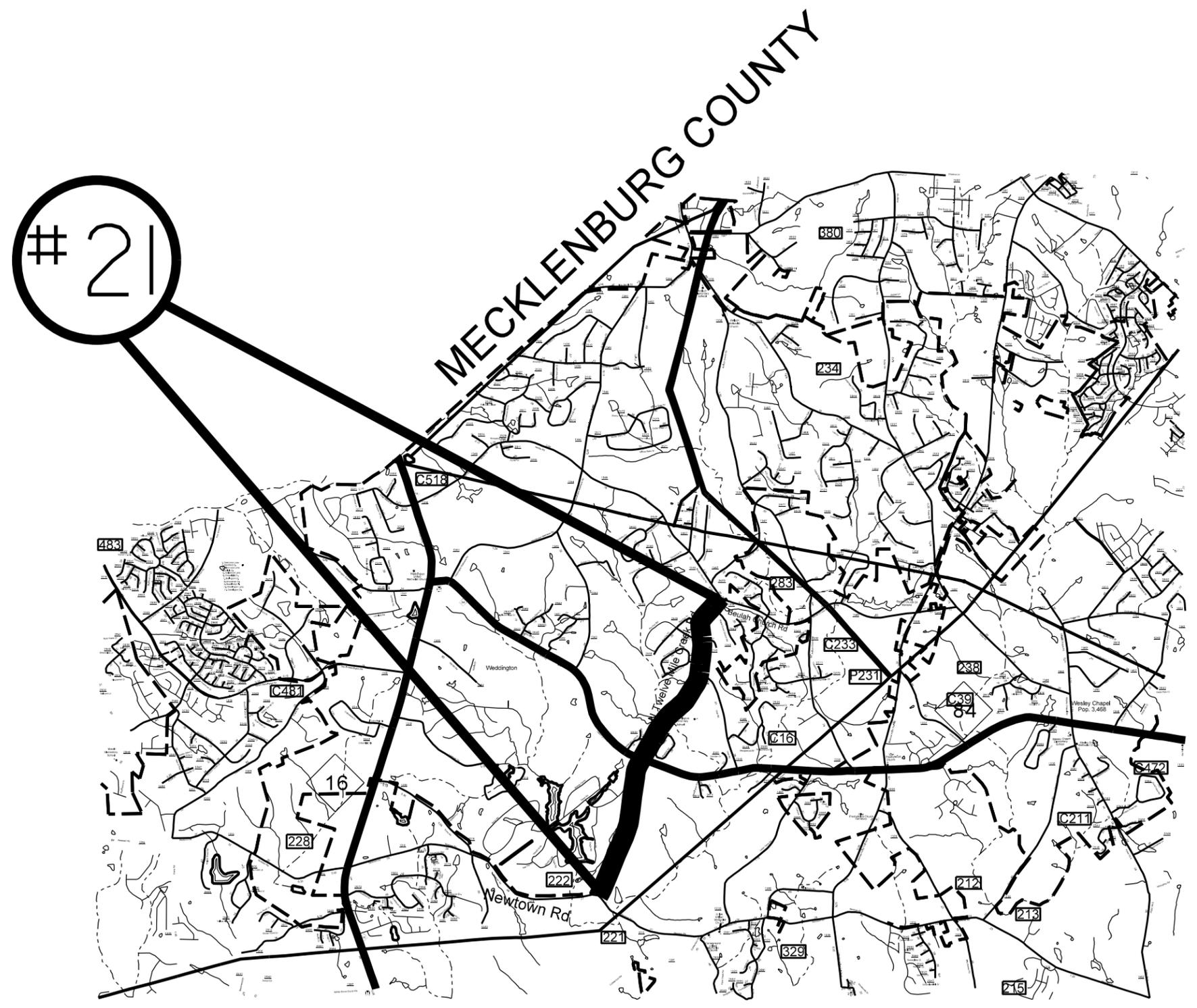
Wesley Chapel Elementary School  
 Wesley Chapel Methodist Church

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.19, ETC.	10	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA

MAP #21 SR 1341 TWELVE MILE CREEK ROAD  
 (2.63 MILES)  
 FROM SR 1346 BEULAH CHURCH ROAD TO SR 1315  
 NEW TOWN ROAD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.20901.19, ETC.	11	
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 #22 SR 1408 MIDDLETON AVE.  
(0.32 MILES)  
FROM SR 1357 POTTERS ROAD TO DEAD END

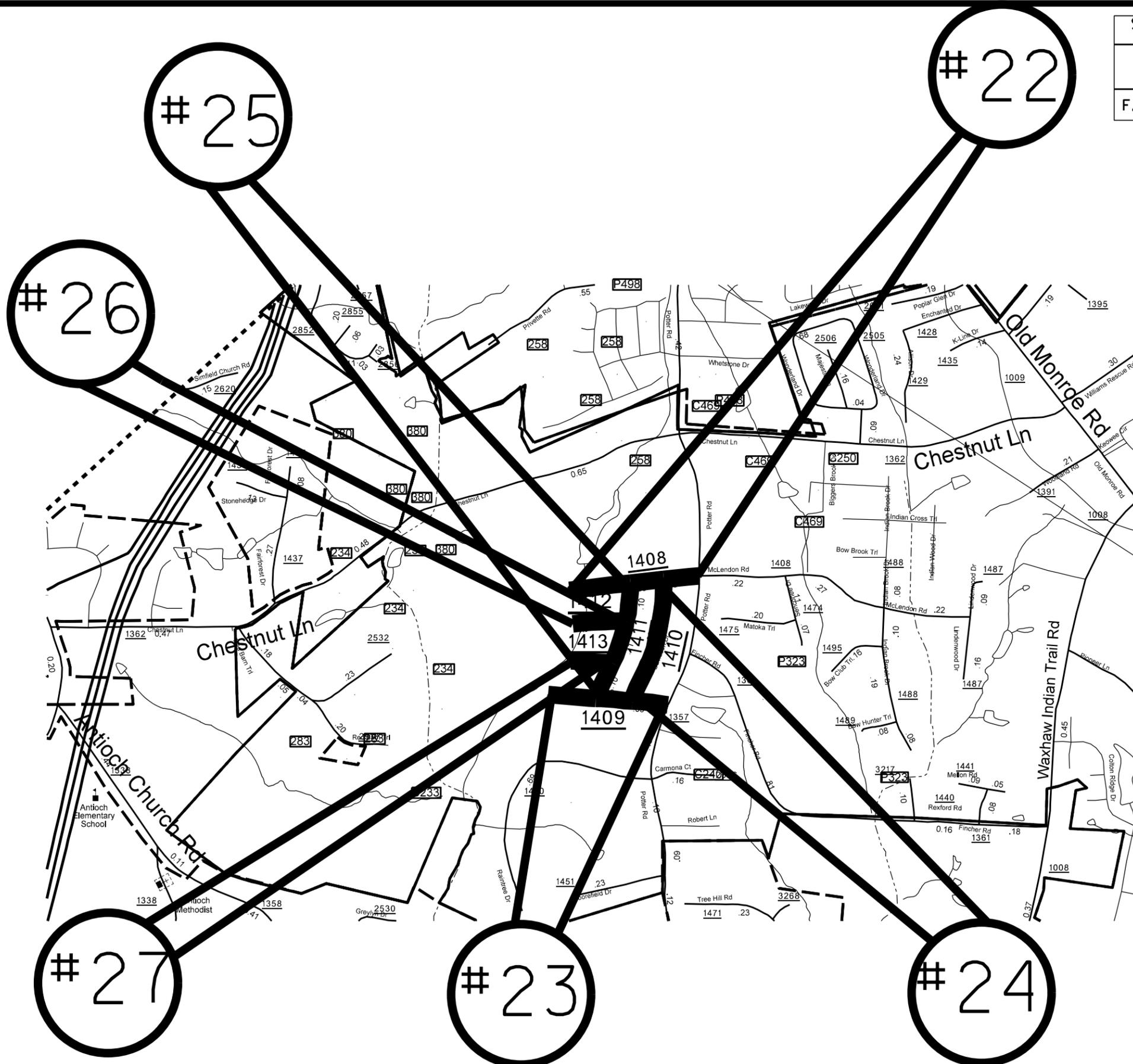
MAP #23 SR 1409 ROBINSON AVE  
(0.3 MILES)  
FROM SR 1357 POTTERS ROAD TO DEAD END

MAP #24 SR 1410 DAVIDSON DRIVE  
(0.31 MILES)  
FROM SR 1408 MIDDLETON AVE. TO  
SR 1409 ROBINSON AVE.

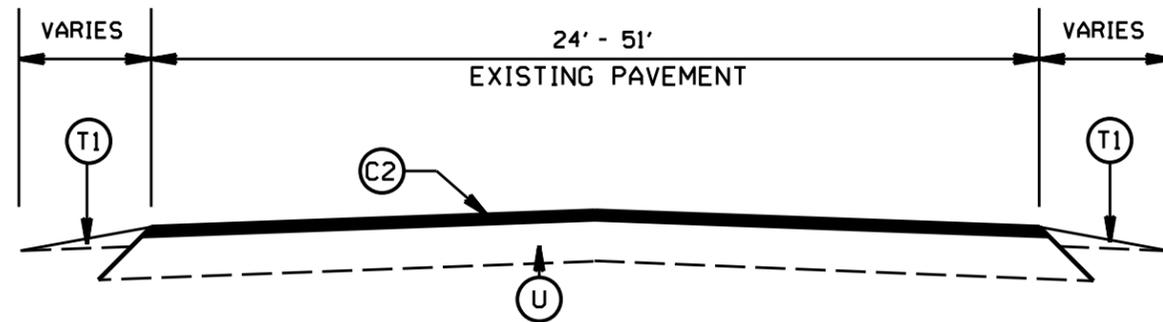
MAP #25 SR 1411 CAROLINE DRIVE  
(0.30 MILES)  
FROM SR 1408 MIDDLETON AVE  
TO SR 1409 ROBINSON AVE

MAP #26 SR 1412 HOLLICE PLANTATION  
(0.14 MILES)  
FROM SR 1411 CAROLINE DRIVE  
TO DEAD END

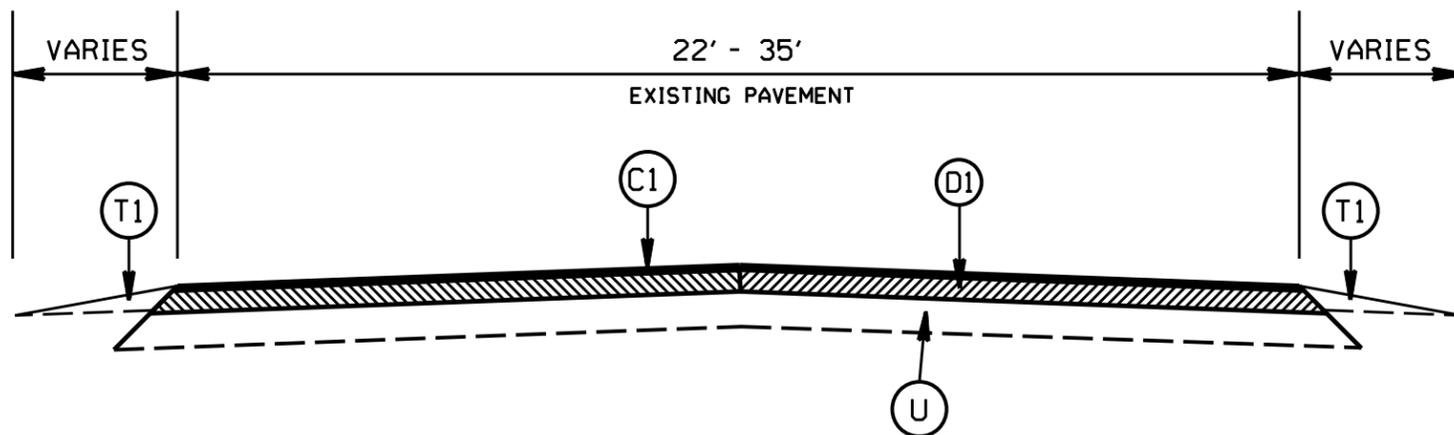
MAP #27 SR 1413 JACKSON PLANTATION  
(0.1 MILES)  
FROM SR 1411 CAROLINE DRIVE  
TO DEAD END



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.10901.18, ETC.	12	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 1  
NC 16 (MAP 1)



TYPICAL SECTION NO. 2  
SR 1301 WAXHAW-MARVIN ROAD (MAP 2)  
\*SEE NOTE 4  
SR 1307 WAXHAW-MARVIN ROAD (MAP 3)

PAVEMENT SCHEDULE

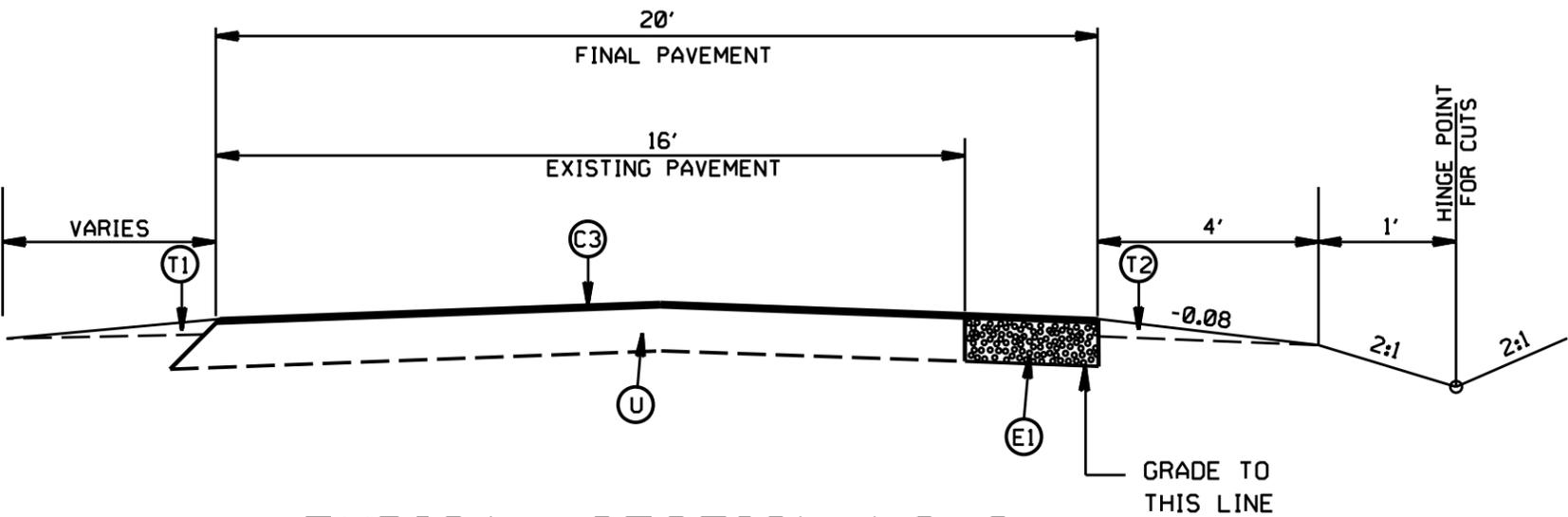
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.5" SF9.5A ASPHALT CON. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL #78M, TO BE PLACED AT THE END OF EACH DAY'S PRODUCTION.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE 119.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROPOSED 6" OF ASPHALT CONC. BASE COURSE, B25.0B, AT AN AVERAGE RATE 342 LBS. PER SQ. YD., IN EACH OF TWO LAYERS.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 2"
(V3)	MILLING OF EXISTING PAVEMENT, 2.0" DEPTH
(Z)	FULL DEPTH RECLAMATION

2016-2017  
UNION COUNTY RESURFACING

SCALE	-NA-	REVISIONS
DATE	01/16	
DWG. BY	AMJ	
DESIGN BY	AMJ	
APPROVED	CLA	



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.10901.8, ETC.	13	
F.A. PROJECT NO.			



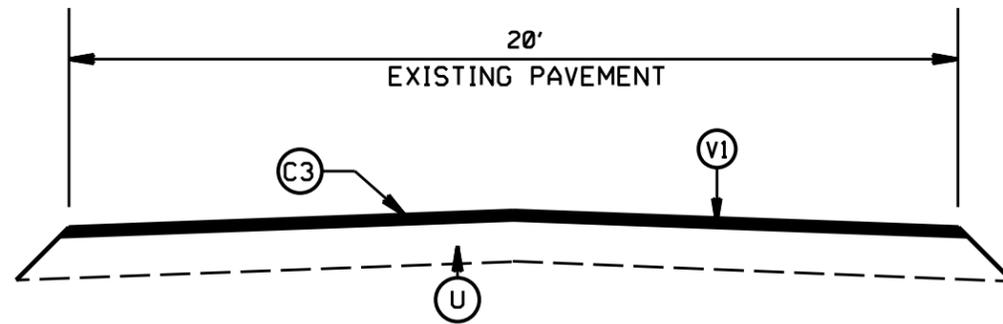
TYPICAL SECTION NO. 3  
SR 1446 CAMP GROUND ROAD (MAP 16)

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.5" SF9.5A ASPHALT CON. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL #78M, TO BE PLACED AT THE END OF EACH DAY'S PRODUCTION.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROPOSED 6" OF ASPHALT CONC. BASE COURSE, B25.0B, AT AN AVERAGE RATE 342 LBS. PER SQ. YD., IN EACH OF TWO LAYERS.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 2"
(V3)	MILLING OF EXISTING PAVEMENT, 2.0" DEPTH
(Z)	FULL DEPTH RECLAMATION

2016-2017  
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	01/16		
DWG. BY	AMC		
DESIGN BY	AMC		
APPROVED	CLA		



TYPICAL SECTION NO. 4

- SR 1445 FOXTON ROAD (MAP 4)
- SR 1466 WATER OAK LANE (MAP 5)
- SR 2523 FOREST RIDGE ROAD (MAP 6)
- SR 2524 HONEYSUCKLE DRIVE (MAP 7)
- SR 2526 HORSESHOE BEND (MAP 8)
- SR 2527 SADDLE HORN TRAIL (MAP 9)
- SR 2528 PALOMINO RIDGE (MAP 10)
- SR 2535 STIRRUP COURT (MAP 11)
- SR 2575 HORSEMAN COVE (MAP 12)
- SR 2610 FOXBRIDGE DRIVE (MAP 13)
- SR 2611 CHERRYWOOD LANE (MAP 14)
- SR 2612 LOST COVE ROAD (MAP 15)
- SR 2512 GREENBROOK PARKWAY (MAP 17)
- SR 2515 MOLLIE IRENE DRIVE (MAP 18)
- SR 2547 COTTONFIELD CIRCLE (MAP 19)
- SR 1408 MIDDLETON AVENUE (MAP 22)
- SR 1409 ROBINSON AVENUE (MAP 23)
- SR 1410 DAVIDSON DRIVE (MAP 24)
- SR 1411 CAROLINE DRIVE (MAP 25)
- SR 1412 HOLLICE PLACE (MAP 26)
- SR 1413 JACKSON PLACE (MAP 27)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.I0.58.20902.8, 2016CPT.I0.64.I0901.I8, ETC.	14	
F.A. PROJECT NO.			

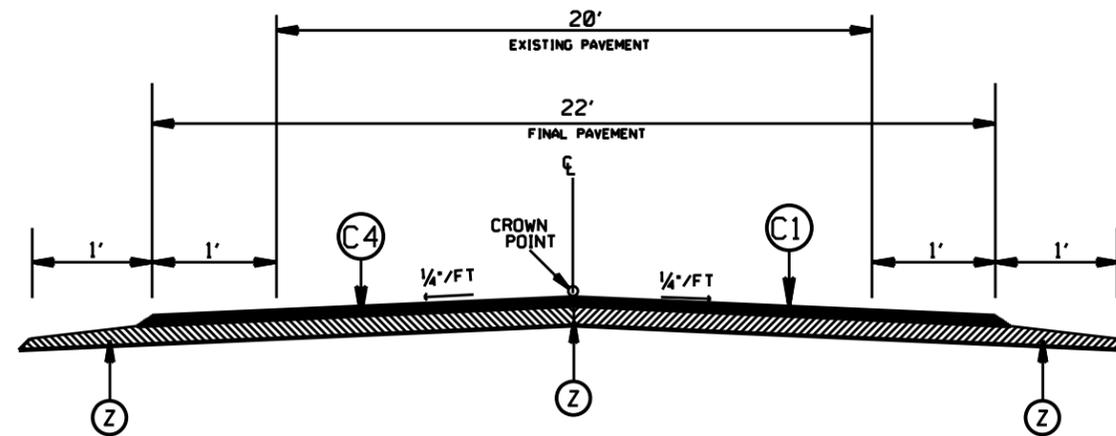
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.5" SF9.5A ASPHALT CON. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL #78M, TO BE PLACED AT THE END OF EACH DAY'S PRODUCTION.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROPOSED 6" OF ASPHALT CONC. BASE COURSE, B25.0B, AT AN AVERAGE RATE 342 LBS. PER SQ. YD., IN EACH OF TWO LAYERS.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 2"
(V3)	MILLING OF EXISTING PAVEMENT, 2.0" DEPTH
(Z)	FULL DEPTH RECLAMATION

2016-2017  
UNION COUNTY RESURFACING

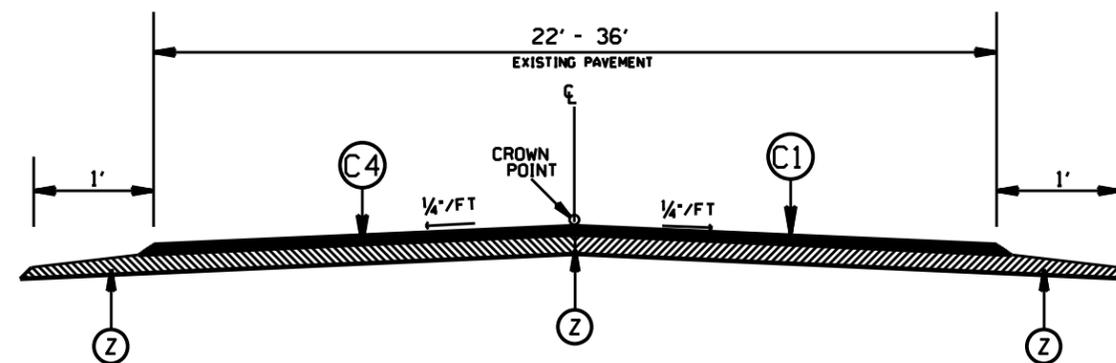
SCALE	-NA-		REVISIONS
DATE	01/15		
DWG. BY	AMD		
DESIGN BY	AMD		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.10901.18, ETC.	15	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 5

SR 1341 TWELVE MILE CREEK (MAP 21)  
\*SEE NOTE 3 & 5



TYPICAL SECTION NO. 6

SR 1341 TWELVE MILE CREEK (MAP 21)  
FROM STA: 34+67 TO STA: 146+54  
\*SEE NOTE 3 & 5

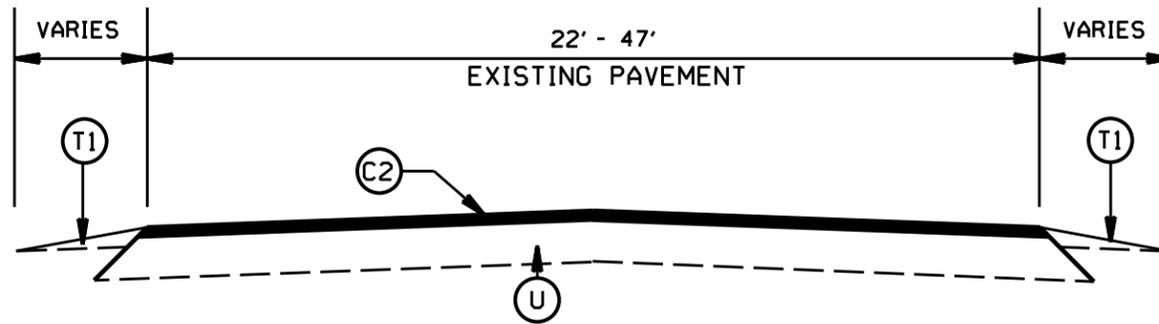
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.5" SF9.5A ASPHALT CON. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
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(E1)	PROPOSED 6" OF ASPHALT CONC. BASE COURSE, B25.0B, AT AN AVERAGE RATE 342 LBS. PER SQ. YD., IN EACH OF TWO LAYERS.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 2"
(V3)	MILLING OF EXISTING PAVEMENT, 2.0" DEPTH
(Z)	FULL DEPTH RECLAMATION

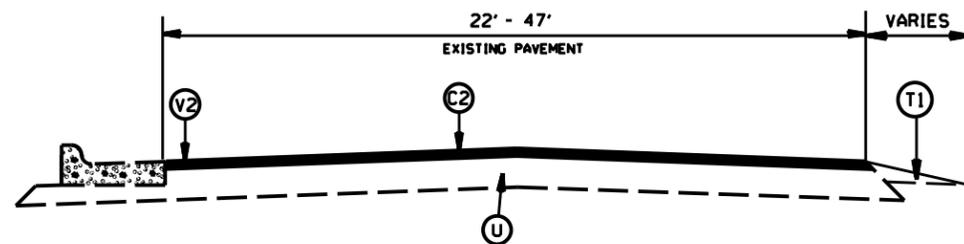
2016-2017  
UNION COUNTY RESURFACING

SCALE	-NA-	REVISIONS
DATE	01/16	
DWG. BY	AMC	
DESIGN BY	AMC	
APPROVED	CLA	

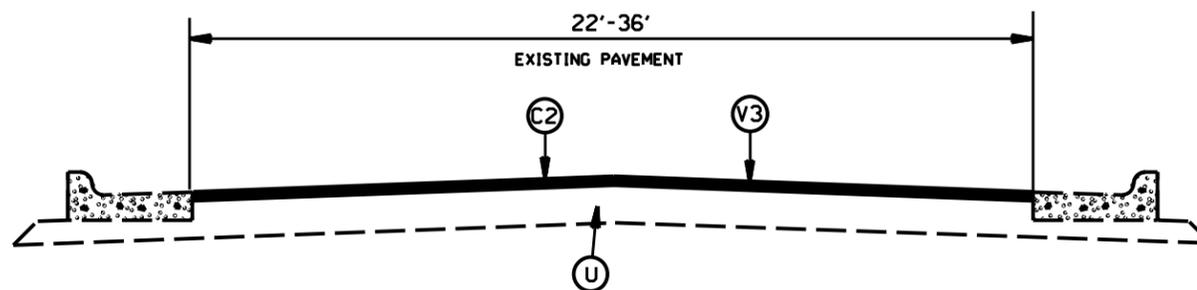




TYPICAL SECTION NO. 7  
SR 2948 MARVIN SCHOOL ROAD (MAP 20)



TYPICAL SECTION NO. 8  
SR 2948 MARVIN SCHOOL ROAD (MAP 20)  
FROM STA: 30+55 TO STA: 35+30  
\*SEE PROFILE MILLING DETAIL



TYPICAL SECTION NO. 9  
SR 2948 MARVIN SCHOOL ROAD (MAP 20)  
FROM STA: 83+10 TO STA: END OF MAP

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.10901.18, ETC.	16	
F.A. PROJECT NO.			

PAVEMENT SCHEDULE

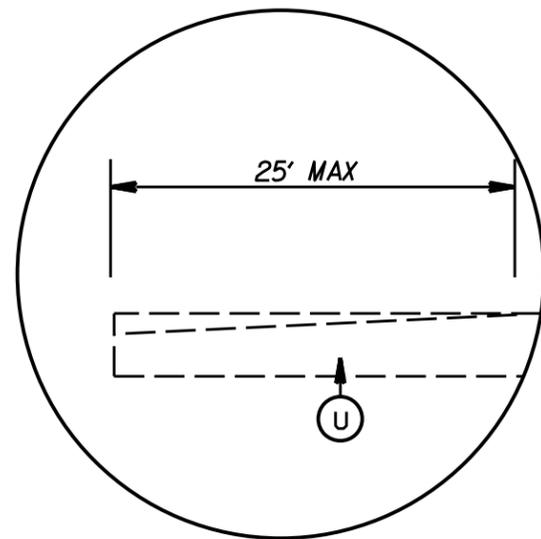
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
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(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROPOSED 6" OF ASPHALT CONC. BASE COURSE, B25.0B, AT AN AVERAGE RATE 342 LBS. PER SQ. YD., IN EACH OF TWO LAYERS.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 2"
(V3)	MILLING OF EXISTING PAVEMENT, 2.0" DEPTH
(Z)	FULL DEPTH RECLAMATION

2016-2017  
UNION COUNTY RESURFACING

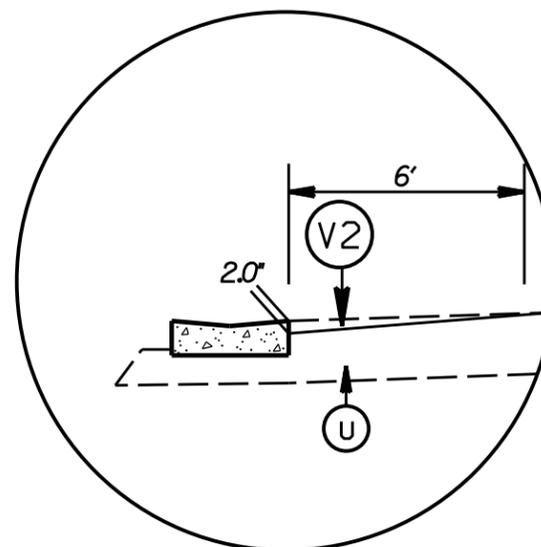
SCALE	-NA-	REVISIONS
DATE	01/16	
DWG. BY	AMD	
DESIGN BY	AMD	
APPROVED	CLA	



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.10901.18, ETC.	17	
F.A. PROJECT NO.			



DETAIL FOR INCIDENTAL MILLING (0" TO 2.0")

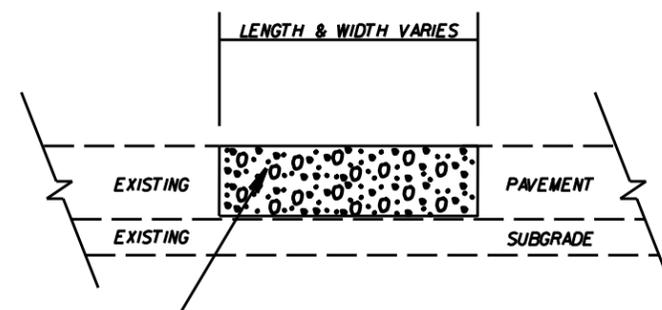


DETAIL FOR PROFILE MILLING (0" TO 2.0")

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.5" SF9.5A ASPHALT CON. SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
(C4)	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL #78M, TO BE PLACED AT THE END OF EACH DAY'S PRODUCTION.
(D1)	PROPOSED 2.5" ASPHALT CONC. INTERMEDIATE CORSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROPOSED 6" OF ASPHALT CONC. BASE COURSE, B25.0B, AT AN AVERAGE RATE 342 LBS. PER SQ. YD., IN EACH OF TWO LAYERS.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING OF EXISTING PAVEMENT, 1.5" DEPTH.
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 2"
(V3)	MILLING OF EXISTING PAVEMENT, 2.0" DEPTH
(Z)	FULL DEPTH RECLAMATION

PATCHING DETAIL



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

2016-2017  
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	01/16		
DWG. BY	AMC		
DESIGN BY	AMC		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.10.58.20902.8, 2016CPT.10.64.10901.18, ETC.	18	
F.A. PROJECT NO.			

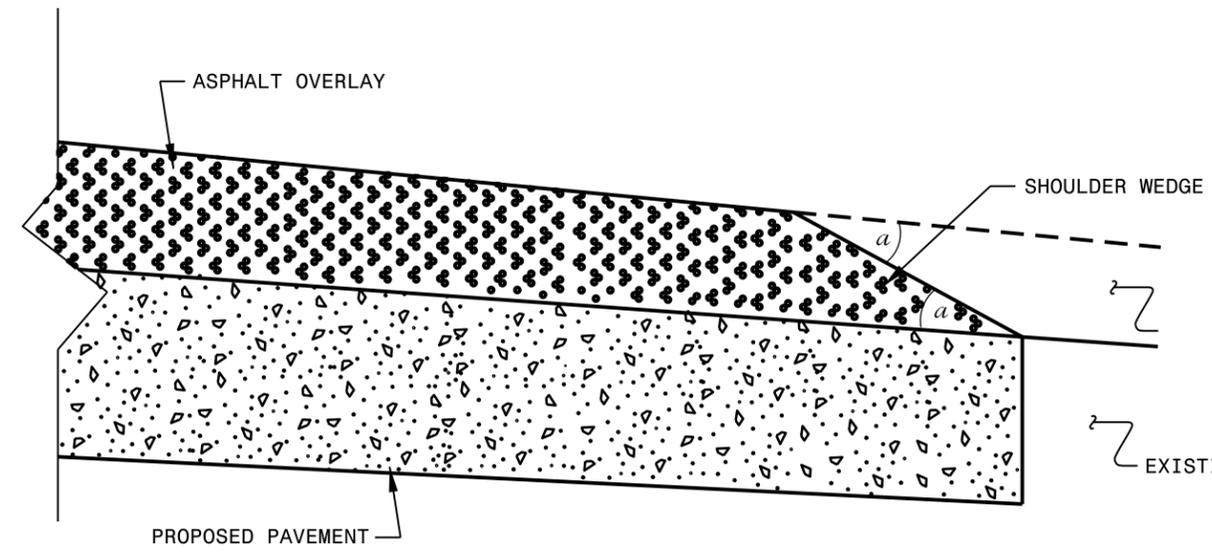
*NOTES:*

- 1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.*
- 2: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER.*
- 3: FULL DEPTH RECLAMATION AND AST SHALL BE COMPLETED ON MAP 21 PRIOR TO THE ASPHALT OVERLAY.*
- 4: ON MAP 2, MILL AND FILL BRIDGE WITH 1.5" OF S9.5B.*
- 5: WIDENING WITH AGGREGATE BASE COURSE, ON MAP 21, WILL BE DONE BY STATE FORCES.*

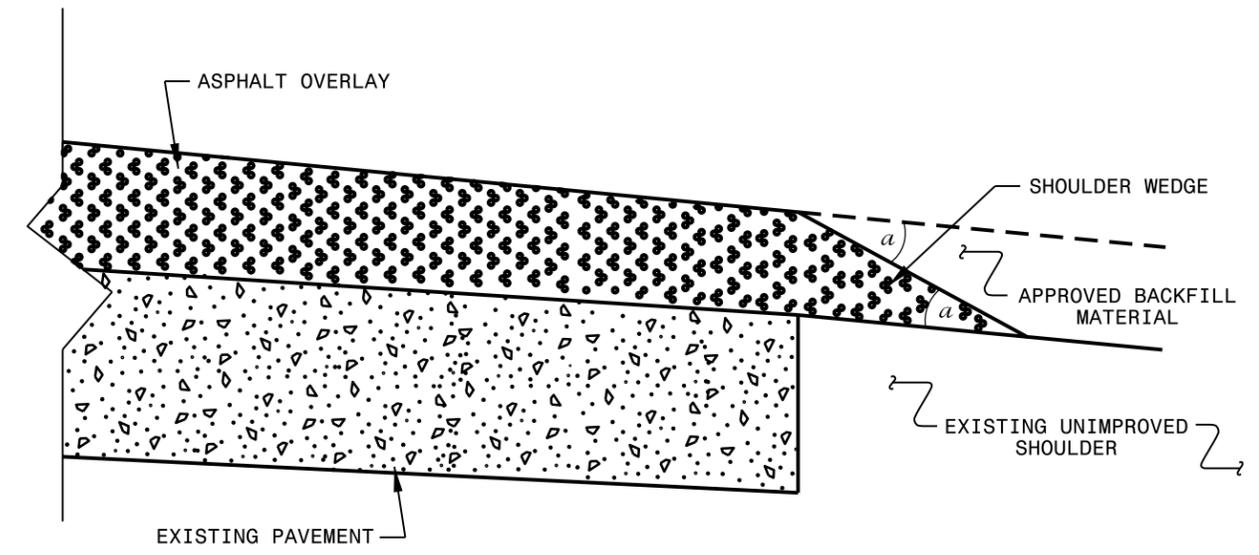
*2016-2017  
ANSON COUNTY RESURFACING*

SCALE	-NA-		REVISIONS	
DATE	11/15			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

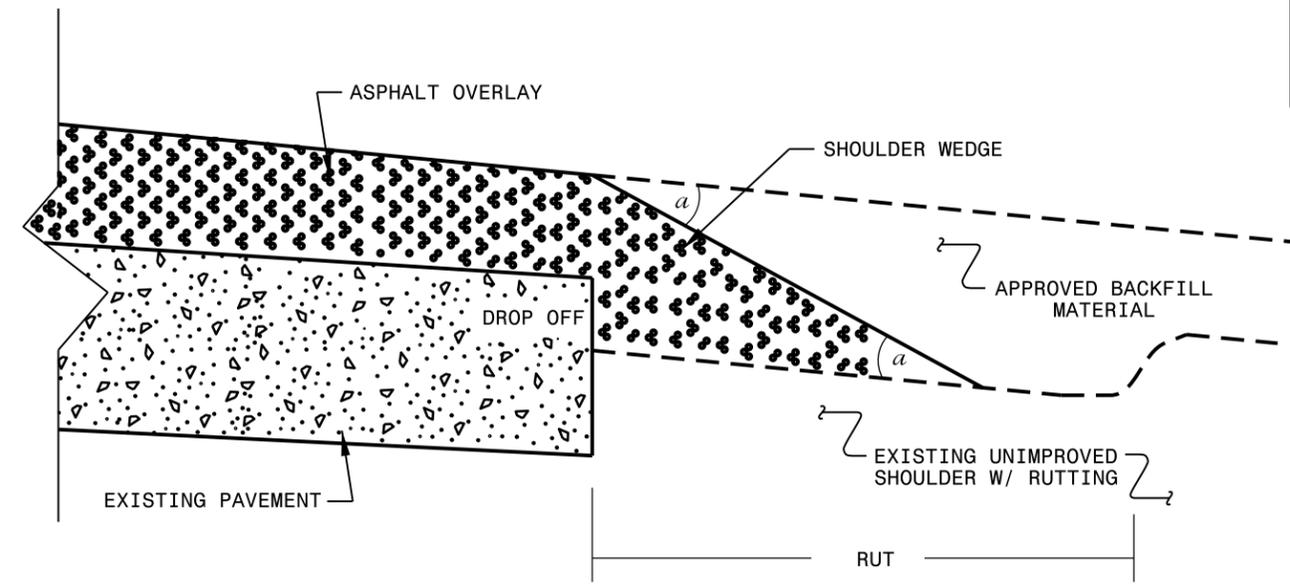
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**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.: susr/details/stand/shoulderwedgedetail.dgn			

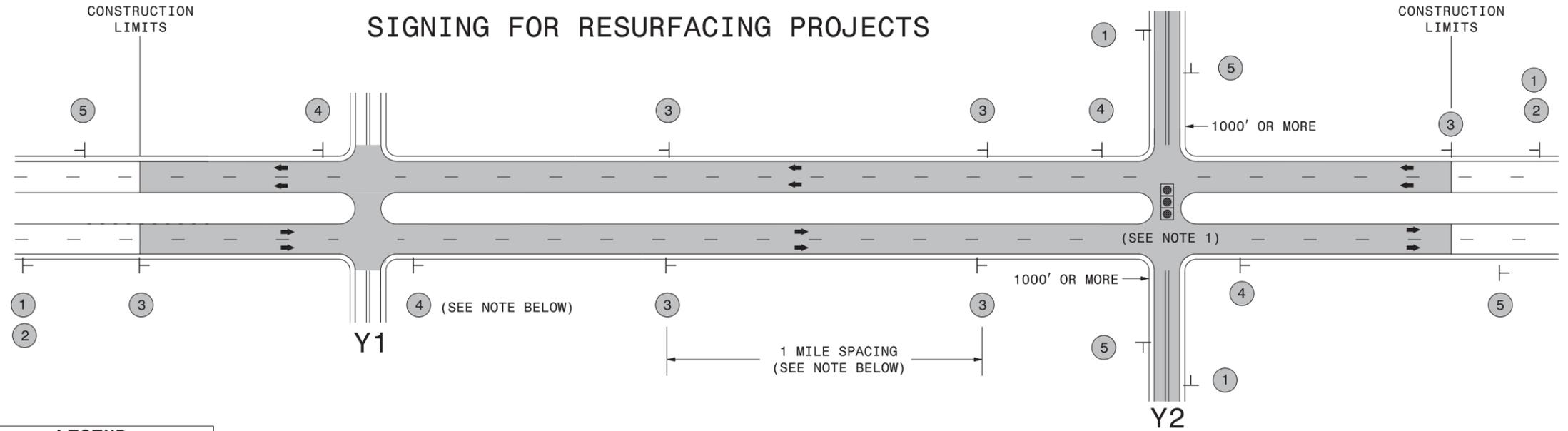
SYSTEMS DESIGN  
 USER NAME

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.10.58.20902.8, etc.	20	

### SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	SOIL CEMENT BASE (FULL DEPTH RECLAIMATION) SY	PORTLAND CEMENT FOR SOIL CEMENT BASE TON	INCIDENTAL STONE BASE TONS	SHOULDER CONSTRUCTION SMI	SHOULDER RECONSTRUCTION SMI	1.5" MILLING SY	2" MILLING SY	0" TO 2" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.08 TONS	INTERMEDIATE COURSE, I19.08 TONS	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ASPHALT SURFACE TREATMENT, DOUBLE SEAL SY	EMULSION FOR ASPHALT SURFACE TREATMENT GAL	RETROFIT EXISTING CURB RAMP (STD. 848.06) EA	6" DRIVEWAYS SY	ADJ. OF METER OR VALVE BOX EA	TEMP. SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLY-ACRYLAMIDE (PAM) LB			
2016CPT.10.64.10901.18	Union	1	NC 16/ ROUTE # 3000001689	FROM SR 1315 NEW TOWN ROAD TO SR 1316 REA ROAD MILEPOST 6.22 TO 4.82	1	2	2WU	NO	NO	1.4	38	390			80		2.80						3,430			206	880					175	3	240	32	16	240	1			
2016CPT.10.64.20901.19	Union	2	SR 1301 WAXHAW-MARVIN ROAD/ ROUTE # 4000130189	FROM SR 1304 PINE OAK ROAD TO SR 1307 BONDS GROVE CHURCH ROAD MILEPOST 1.62 TO 4.52	2	2	2WU	NO	NO	2.7	22	1,298			432		5.40	362					6,164	3,898	1,117		602	1,436				3	100	4	405	54	27	405	1		
		3	SR 1307 WAXHAW-MARVIN ROAD/ ROUTE # 4000130789	FROM SR 1310 HENRY NESBIT ROAD TO SR 1315 NEW TOWN ROAD MILEPOST 0.00 TO 1.55	2	2	2WU	NO	NO	1.55	22	765			128		3.10						3,163	1,975			270	880				25	8	240	32	16		1			
<b>TOTAL FOR PROJ NO. 2016CPT.10.64.20901.19</b>										<b>4.25</b>		<b>2,063</b>			<b>560</b>		<b>8.50</b>	<b>362</b>					<b>9,327</b>	<b>5,873</b>	<b>1,117</b>		<b>872</b>	<b>2,316</b>			<b>3</b>	<b>125</b>	<b>12</b>	<b>645</b>	<b>86</b>	<b>43</b>	<b>405</b>	<b>2</b>			
2016CPT.10.64.20901.20	Union	4	SR 1445 FOXTON ROAD/ ROUTE # 4000144589	FROM SR 1358 FOREST LAWN DRIVE TO DEAD END MILEPOST 0.00 TO 0.15	4	2	2WU	NO	NO	0.15	20				3			1,778							165	11							1	23	3	1	23	1			
		5	SR 1466 WATER OAK LANE/ ROUTE # 4000146689	FROM SR 1358 FOREST LAWN DRIVE TO SR 1467 QUAIL RIDGE LANE MILEPOST 0.00 TO 0.40	4	2	2WU	NO	NO	0.4	20							4,523							440	29							1	59	8	4	59				
		6	SR 2523 FOREST RIDGE ROAD/ ROUTE # 4000252389	FROM SR 1358 FOREST LAWN DRIVE TO DEAD END MILEPOST 0.00 TO 0.62	4	2	2WU	NO	NO	0.62	20				3				7,156							728	49							92	12	6	92				
		7	SR 2524 HONEYSUCKLE DRIVE/ ROUTE # 4000252489	FROM SR 2523 FOREST RIDGE ROAD TO SR 2610 FOXBRIDGE DRIVE MILEPOST 0.00 TO 0.24	4	2	2WU	NO	NO	0.24	20								2,689							271	18							35	5	3	35				
<b>TOTAL FOR PROJ NO. 2016CPT.10.64.20901.20</b>										<b>1.41</b>					<b>6</b>			<b>16,146</b>							<b>1,604</b>	<b>107</b>						<b>2</b>	<b>209</b>	<b>28</b>	<b>14</b>	<b>209</b>	<b>1</b>				
2016CPT.10.64.20901.21	Union	8	SR 2526 HORSESHOE BEND/ ROUTE # 4000252689	FROM SR 1346 HEMBY ROAD TO CUL-DE-SAC MILEPOST 0.00 TO 0.66	4	2	2WU	NO	NO	0.66	20							7,705							713	48								98	13	6	98				
		9	SR 2527 SADDLE HORN TRAIL/ ROUTE # 4000252789	FROM SR 2526 HORSESHOE BEND TO CUL-DE-SAC MILEPOST 0.00 TO 0.32	4	2	2WU	NO	NO	0.32	20							3,800							374	25								48	7	1	48				
		10	SR 2528 PALOMINO RIDGE/ ROUTE # 4000252889	FROM SR 2526 HORSESHOE BEND TO CUL-DE-SAC MILEPOST 0.00 TO 0.26	4	2	2WU	NO	NO	0.26	20							3,034								281	19							38	5	2	38				
		11	SR 2535 STIRRUP COURT/ ROUTE # 4000253589	FROM SR 2526 HORSESHOE BEND TO CUL-DE-SAC MILEPOST 0.00 TO 0.66	4	2	2WU	NO	NO	0.66	20							7,818								724	49							100	14	7	100				
		12	SR 2575 HORSEMAN COVE/ ROUTE # 4000257589	FROM SR 2527 SADDLE HORN TRAIL TO CUL-DE-SAC MILEPOST 0.00 TO 0.09	4	2	2WU	NO	NO	0.09	20							1,156								96	6							98	13	7	98				
<b>TOTAL FOR PROJ NO. 2016CPT.10.64.20901.21</b>										<b>1.99</b>					<b>23</b>			<b>23,513</b>							<b>2,188</b>	<b>147</b>							<b>382</b>	<b>52</b>	<b>23</b>	<b>382</b>					
2016CPT.10.64.20901.22	Union	13	SR 2610 FOXBRIDGE DRIVE/ ROUTE # 4000261089	FROM SR 2523 FOREST RIDGE ROAD TO CUL-DE-SAC MILEPOST 0.00 TO 0.76	4	2	2WU	NO	NO	0.76	20				23			8,947							915	61								114	16	8	114				
		14	SR 2611 CHERRYWOOD LANE/ ROUTE # 4000261189	FROM SR 2610 FOXBRIDGE DRIVE TO CUL-DE-SAC MILEPOST 0.00 TO 0.15	4	2	2WU	NO	NO	0.15	20							1,778								165	11							23	3	1	23				
		15	SR 2612 LOST COVE ROAD/ ROUTE # 4000261289	FROM SR 2523 FOREST RIDGE ROAD TO CUL-DE-SAC MILEPOST 0.00 TO 0.10	4	2	2WU	NO	NO	0.1	20							1,112								103	7							15	2	1	15				
<b>TOTAL FOR PROJ NO. 2016CPT.10.64.20901.22</b>										<b>1.01</b>					<b>23</b>			<b>11,837</b>							<b>1,183</b>	<b>79</b>							<b>152</b>	<b>21</b>	<b>10</b>	<b>152</b>					
2016CPT.10.64.20901.23	Union	16	SR 1446 CAMP GROUND ROAD/ ROUTE # 4000144689	FROM SR 1327 PLEASANT GROVE ROAD TO SR 1329 BILLY HOWIE ROAD MILEPOST 0.00 TO 0.18	3	2	2WU	NO	NO	0.18	16	50			5	0.18	0.18									194	20	90						27	4	2	27				
2016CPT.10.64.20901.24	Union	17	SR 2512 GREENBROOK PARKWAY/ ROUTE # 4000251289	FROM SR 1344 WEDDINGTON-MATTHEWS ROAD TO SR 2512 GREENBROOK PARKWAY MILEPOST 0.00 TO 0.95	4	2	2WU	NO	NO	0.95	20							10,958							1,079	72	512							140	19	9	140				
2016CPT.10.64.20901.25	Union	18	SR 2515 MOLLIE IRENE DRIVE/ ROUTE # 4000251589	FROM SR 1162 WESLEY CHAPEL ROAD TO DEAD END MILEPOST 0.00 TO 0.30	4	2	2WU	NO	NO	0.3	20				12			3,556							329	22	149							45	6	3	45				
2016CPT.10.64.20901.26	Union	19	SR 2547 COTTONFIELD CIRCLE/ ROUTE # 4000254789	FROM NC 16 TO SR 2547 COTTONFIELD CIRCLE MILEPOST 0.00 TO 1.15	4	2	2WU	NO	NO	1.15	20				29			13,534							1,273	85	570							173	23	12	173				
2016CPT.10.64.20901.27	Union	20	SR 2948 MARVIN SCHOOL ROAD/ ROUTE # 4000294889	FROM SR 1315 NEWTOWN ROAD TO SR 1316 REA ROAD MILEPOST 0.00 TO 1.65	7,8,9	2	2WU	NO	NO	1.65	35				56		3.20	4,467	333	162				3,202			192	880					125	5	240	32	16	240			
2016CPT.10.64.20901.28	Union	21	SR 1341 TWELVE MILE CREEK ROAD/ ROUTE # 4000134189	FROM SR 1346 BEULAH CHURCH ROAD TO SR 1315 NEW TOWN ROAD MILEPOST 0.00 TO 2.63	5,6	2	2WU	NO	NO	2.63	26	482			434																		350	2	395	53	27	395			
2016CPT.10.64.20901.29	Union	22	SR 1408 MIDDLETON AVENUE/ ROUTE # 4000140889	SR 1357 POTTERS ROAD TO DEAD END MILEPOST 0.00 TO 0.32	4	2	2WU	NO	NO	0.32	20							3,763							392	26								1	48	7	3	48	1		
		23	SR 1409 ROBINSON AVENUE/ ROUTE # 4000140989	FROM SR 1357 POTTERS ROAD TO DEAD END MILEPOST 0.00 TO 0.30	4	2	2WU	NO	NO	0.3	20							3,516							369	25								1	45	6	3	45			
		24	SR 1410 DAVIDSON DRIVE/ ROUTE # 4000141089	FROM SR 1408 MIDDLETON AVENUE TO SR 1409 ROBINSON AVENUE MILEPOST 0.00 TO 0.31	4	2	2WU	NO	NO	0.31	20							3,716							366	25								1	48	7	3	48			
		25	SR 1411 CAROLINE DRIVE/ ROUTE # 4000141189	FROM SR 1408 MIDDLETON AVENUE TO SR 1409 ROBINSON AVENUE MILEPOST 0.00 TO 0.30	4	2	2WU	NO	NO	0.3	20							3,529							404	27								2	45	6	3	45			
		26	SR 1412 HOLLICE PLACE/ ROUTE # 4000141289	FROM SR 1411 CAROLINE DRIVE TO DEAD END MILEPOST 0.00 TO 0.14	4	2	2WU	NO	NO	0.14	20							1,600							148	10								1	21	3	1	21			
		27	SR 1413 JACKSON PLACE/ ROUTE # 4000141389	FROM SR 1411 CAROLINE DRIVE TO DEAD END MILEPOST 0.00 TO 0.1	4	2	2WU	NO	NO	0.1	20							1,112							136	9								15	2	1	15				
<b>TOTAL FOR PROJ NO. 2016CPT.10.64.20901.29</b>										<b>1.47</b>							<b>17,236</b>							<b>1,815</b>	<b>122</b>							<b>6</b>	<b>222</b>	<b>31</b>	<b>14</b>	<b>222</b>	<b>1</b>				
2016CPT.10.58.20902.8	Union	21	SR 1341 TWELVE MILE CREEK ROAD/ ROUTE # 4000134189	FROM SR 1346 BEULAH CHURCH ROAD TO SR 1315 NEW TOWN ROAD MILEPOST 0.00 TO 2.63	5,6	2	2WU	NO	NO	2.63	26			40,266	1,349																										
<b>GRAND TOTAL</b>										<b>18.39</b>		<b>2,985</b>	<b>40,266</b>	<b>1,349</b>	<b>1,205</b>	<b>0.18</b>	<b>14.68</b>	<b>97,142</b>	<b>4,467</b>	<b>333</b>	<b>1,151</b>	<b>160</b>	<b>9,327</b>	<b>16,247</b>	<b>1,117</b>	<b>9,665</b>	<b>2,149</b>	<b>5,397</b>				<b>37,232</b>	<b>20,480</b>	<b>3</b>	<b>775</b>	<b>30</b>	<b>2,870</b>	<b>387</b>	<b>189</b>	<b>2,630</b>	<b>5</b>





**LEGEND**  
 ┆ STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

**MAINLINE (-L-) SIGNING**

**-Y- LINE SIGNING**

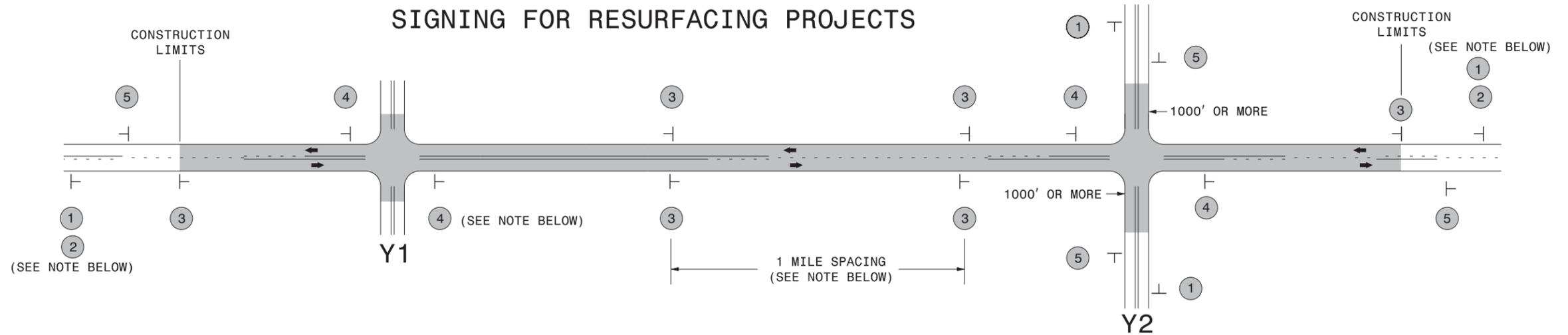
SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></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;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.</li> </ol>
		<p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>	
		<p>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

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**RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS**

## SIGNING FOR RESURFACING PROJECTS

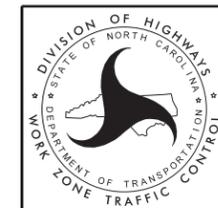


LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

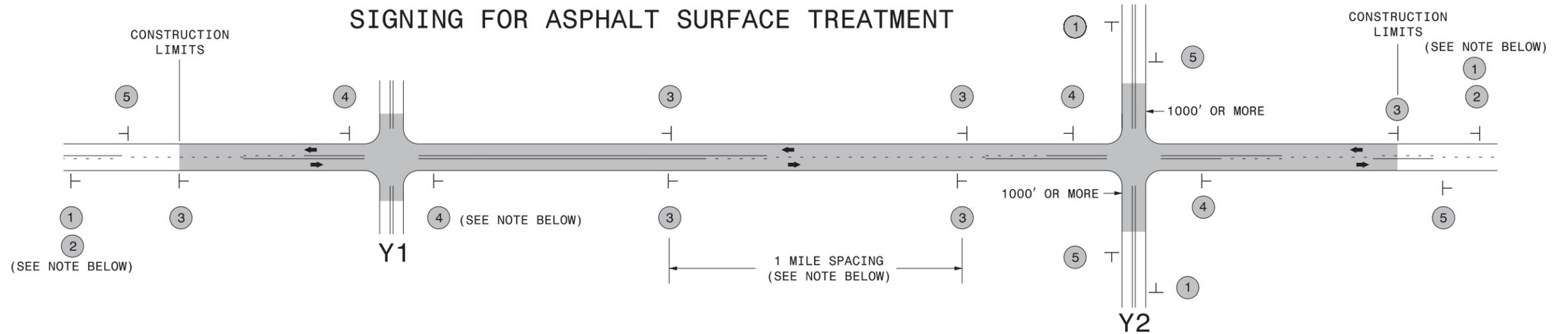
### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p style="text-align: center;"><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></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; align-items: center;"> <div style="text-align: center;">  W20-1 48" X 48"           </div> <div style="text-align: center;">  W20-7 A 48" X 48"           </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3aP 24" X 18"	#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	 SP 13107 48" X 48"	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 SP 13106 48" X 48"	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	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		



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

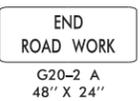
## SIGNING FOR ASPHALT SURFACE TREATMENT



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
1 2	 	<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 RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>
3	 	<p>ALTERNATE THE FOLLOWING TWO SIGNS: STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</p> <p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>
4		<p>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p>
5		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>

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.



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

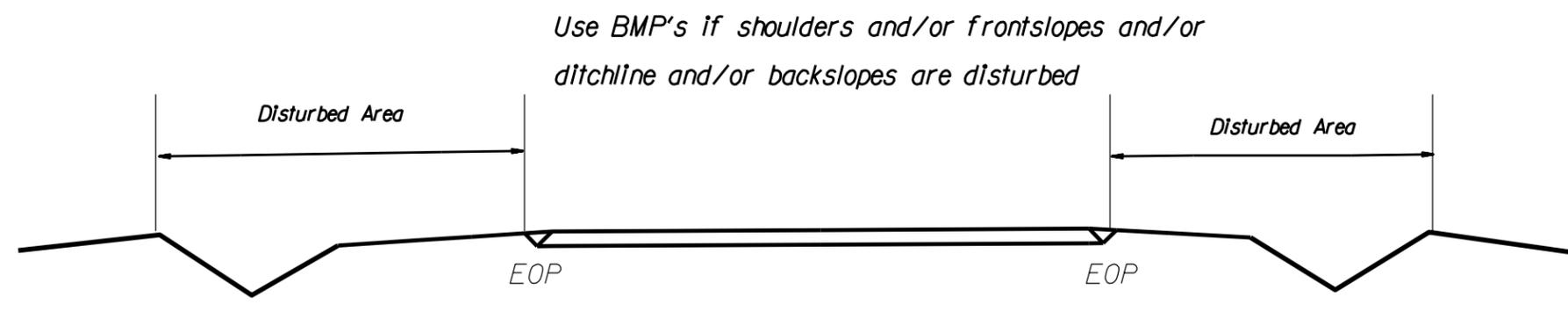
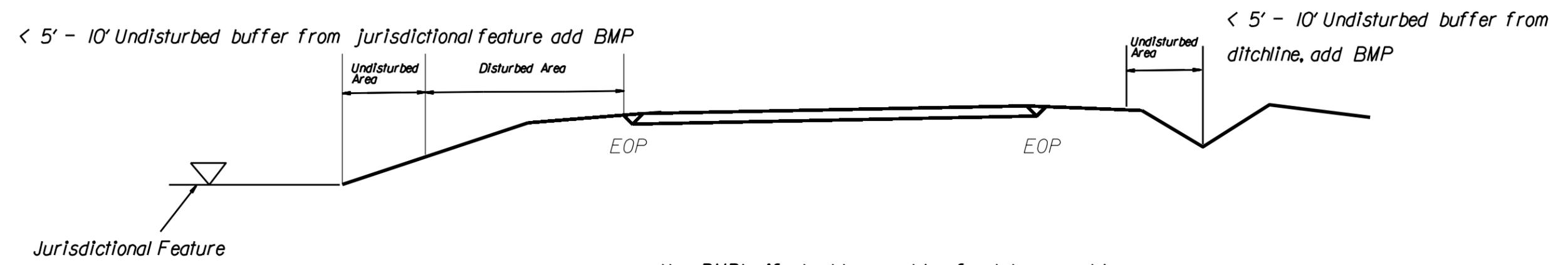
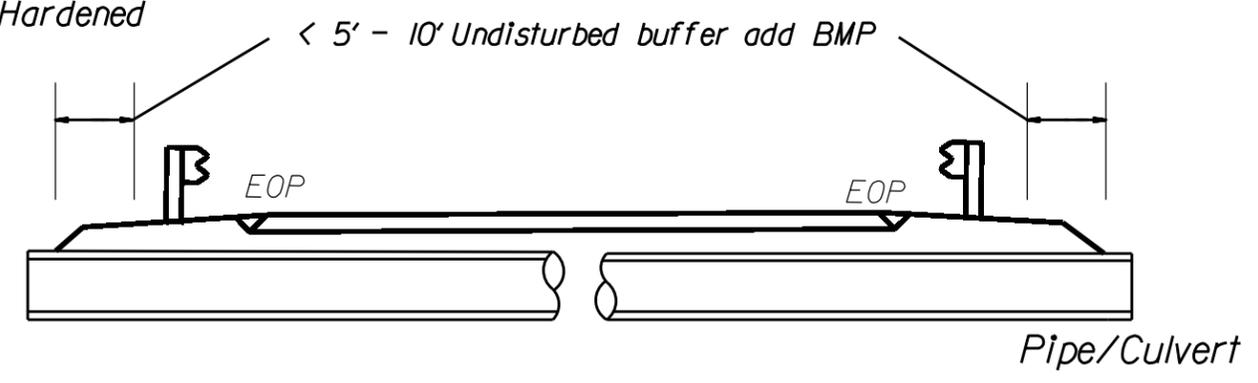


**ADVANCE WARNING SIGNS  
FOR  
ASPHALT SURFACE TREATMENTS  
2 LANE ROADWAYS**

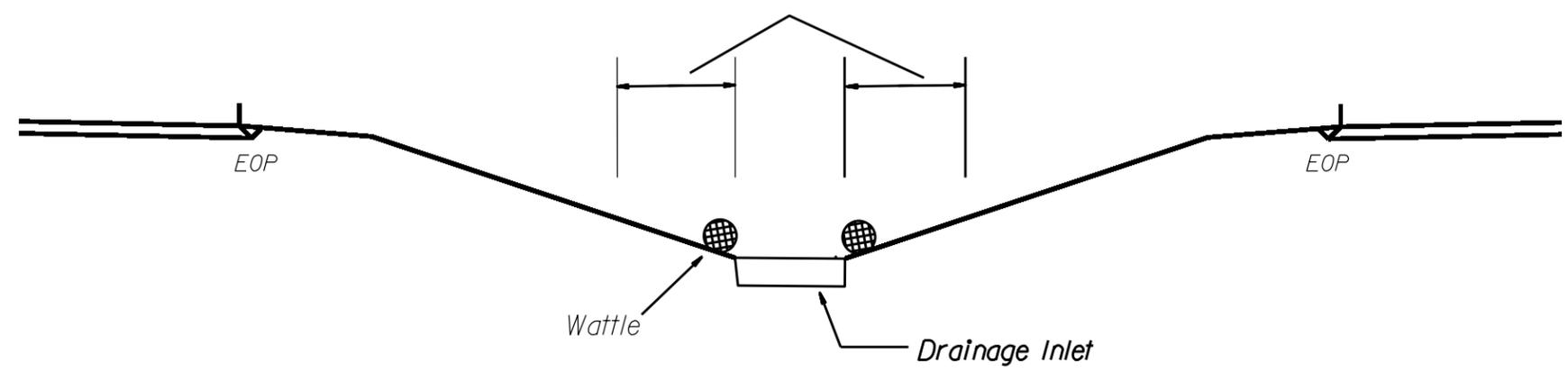
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

# EROSION CONTROL DETAIL

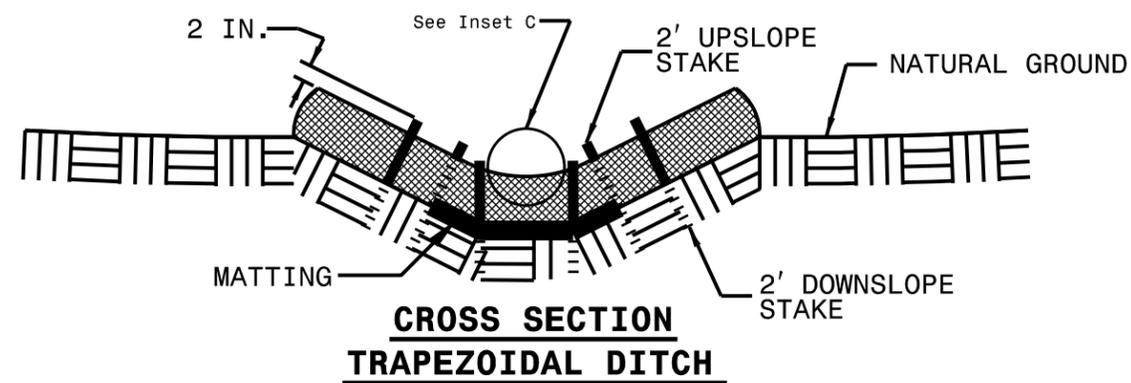
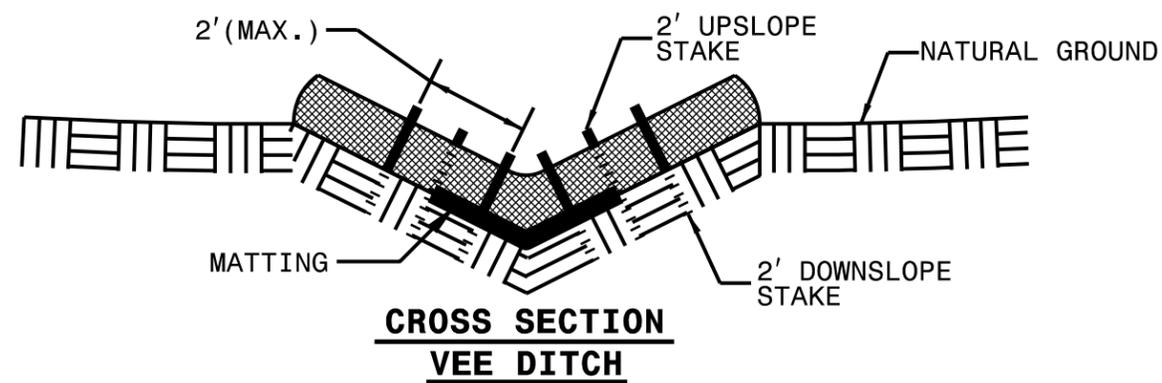
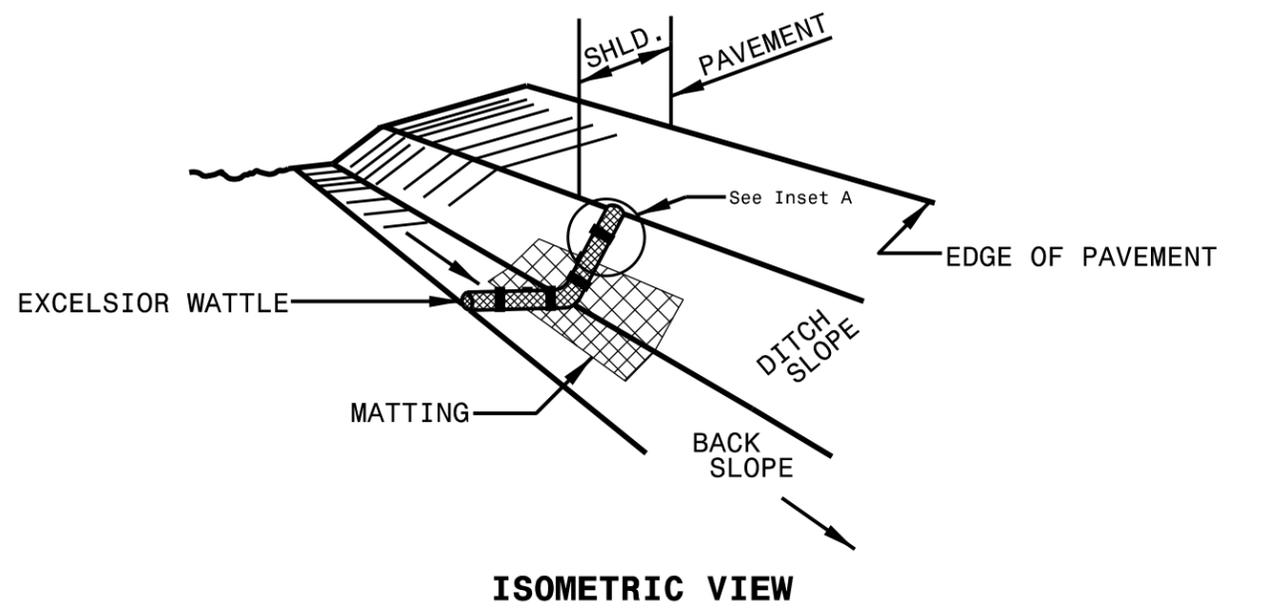


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

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

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

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

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

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.

