

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.37 - 10CR.10901.39 10CR.20901.94 - 10CR.20901.103	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 2.1 MILES

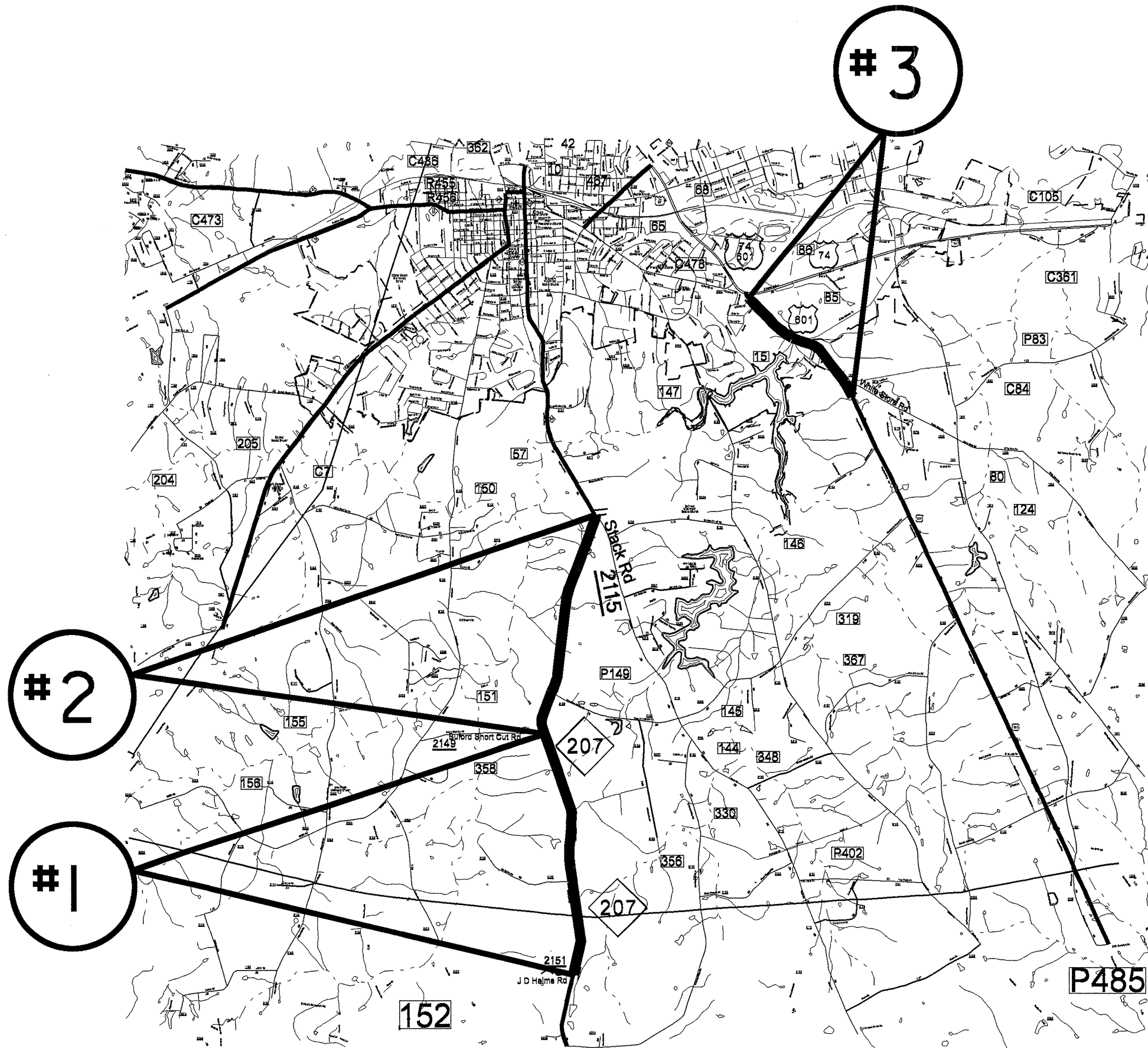
FROM PAVEMENT JOINT AT  
SR 2151 (JD HELMS ROAD)  
TO SR 2149 (BUFORD SHORTCUT ROAD)

MAP #2 NC 207 1.9 MILES

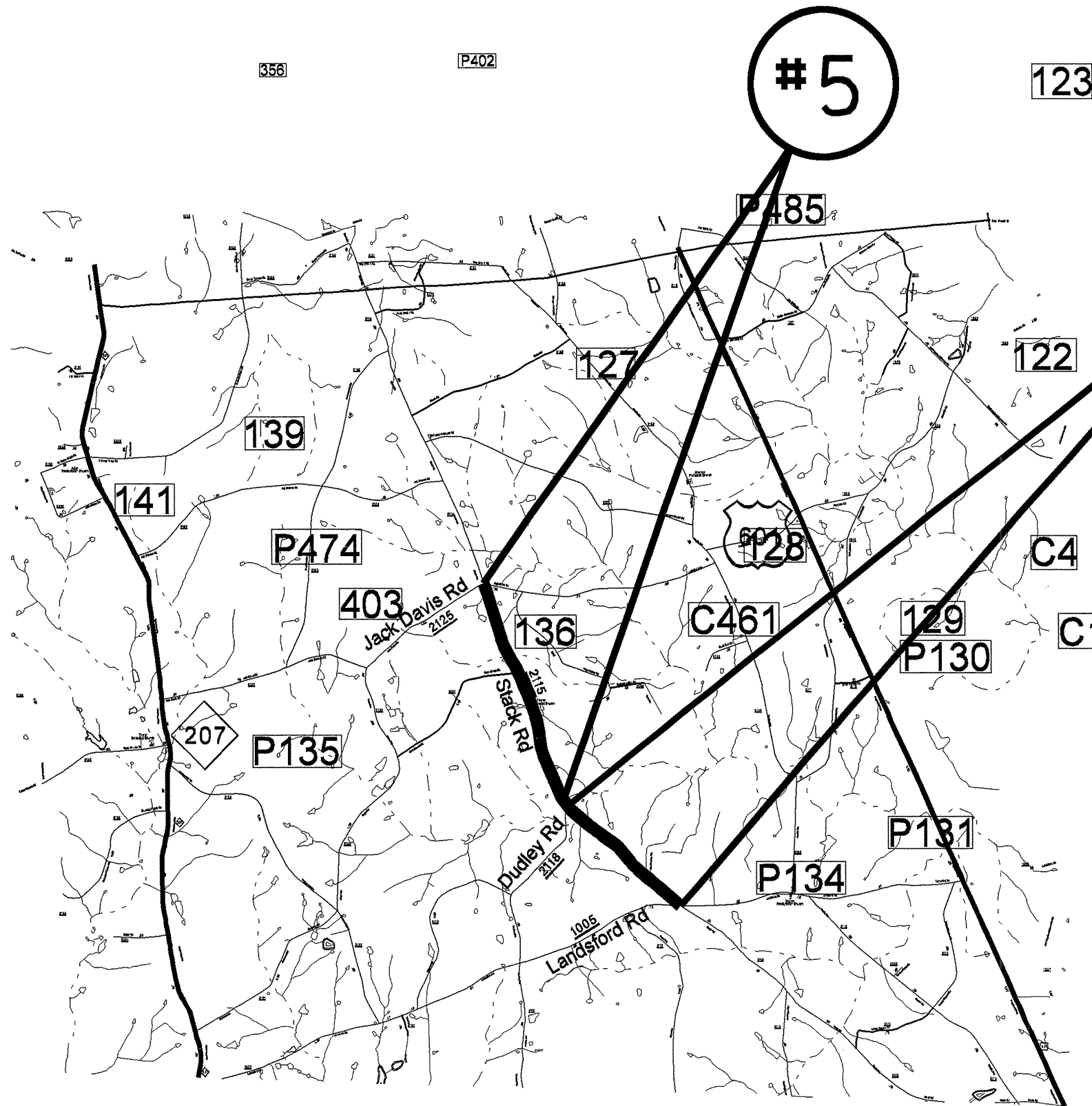
FROM SR 2149 (BUFORD SHORTCUT ROAD)  
TO SR 2115 (STACK ROAD)

MAP #3 US 601 SOUTH 1.3 MILES

FROM PAVEMENT JOINT AT  
JACK IN THE BOX ENTRANCE  
TO END OF 2'6" CURB AND GUTTER



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.37 - 10CR.10901.39 10CR.20901.94 - 10CR.20901.103	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

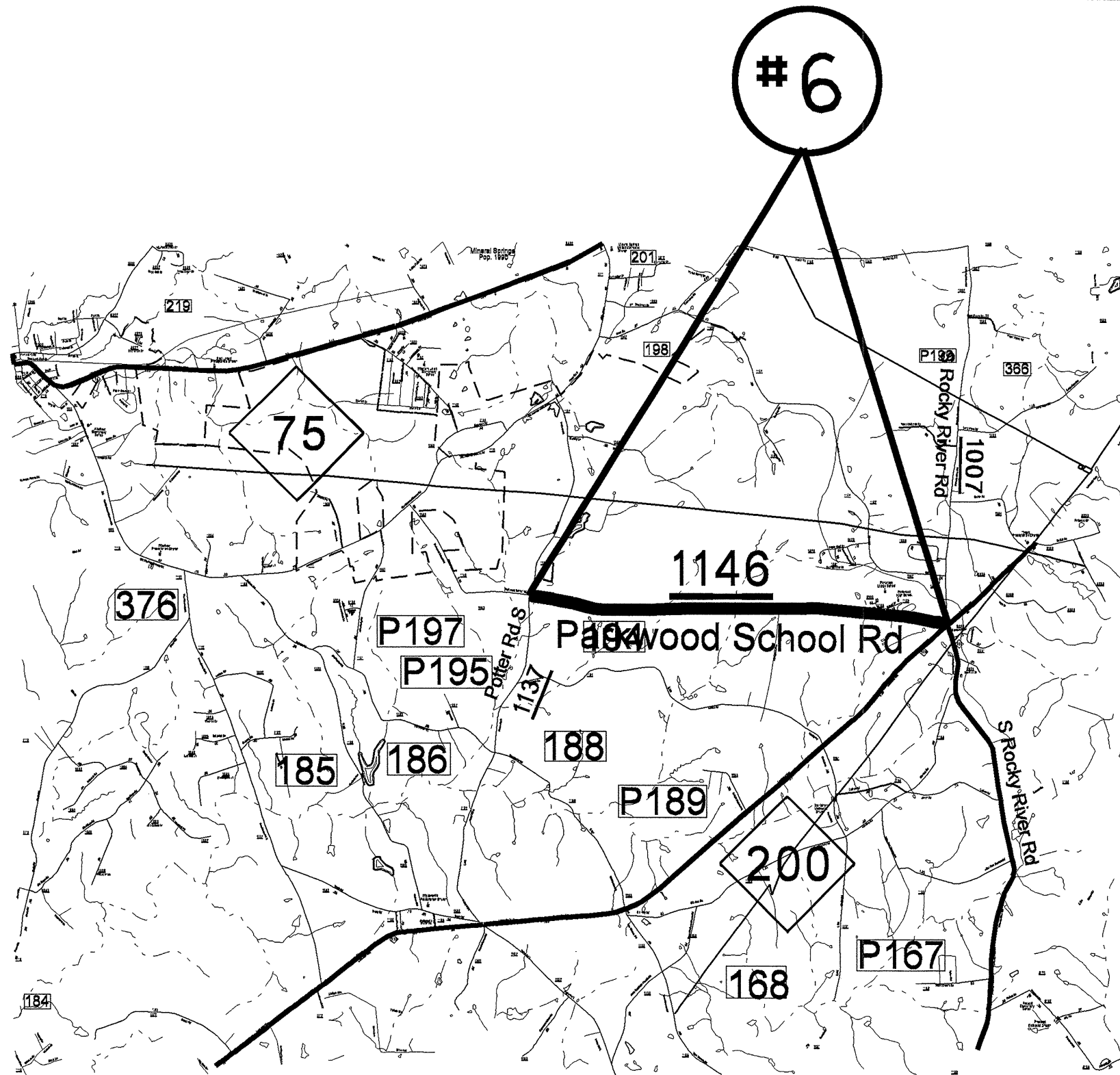
MAP #4 SR 2115 (STACK ROAD) 1.1 MILES

FROM SR 1005 (LANDSFORD ROAD)  
 TO SR 2118 (DUDLEY ROAD)

MAP #5 SR 2115 (STACK ROAD) 1.7 MILES

FROM SR 2118 (DUDLEY ROAD)  
 TO SR 2125 (JACK DAVIS ROAD)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.37 - 10CR.10901.39 10CR.20901.94 - 10CR.20901.103	3	
F.A. PROJECT NO.			

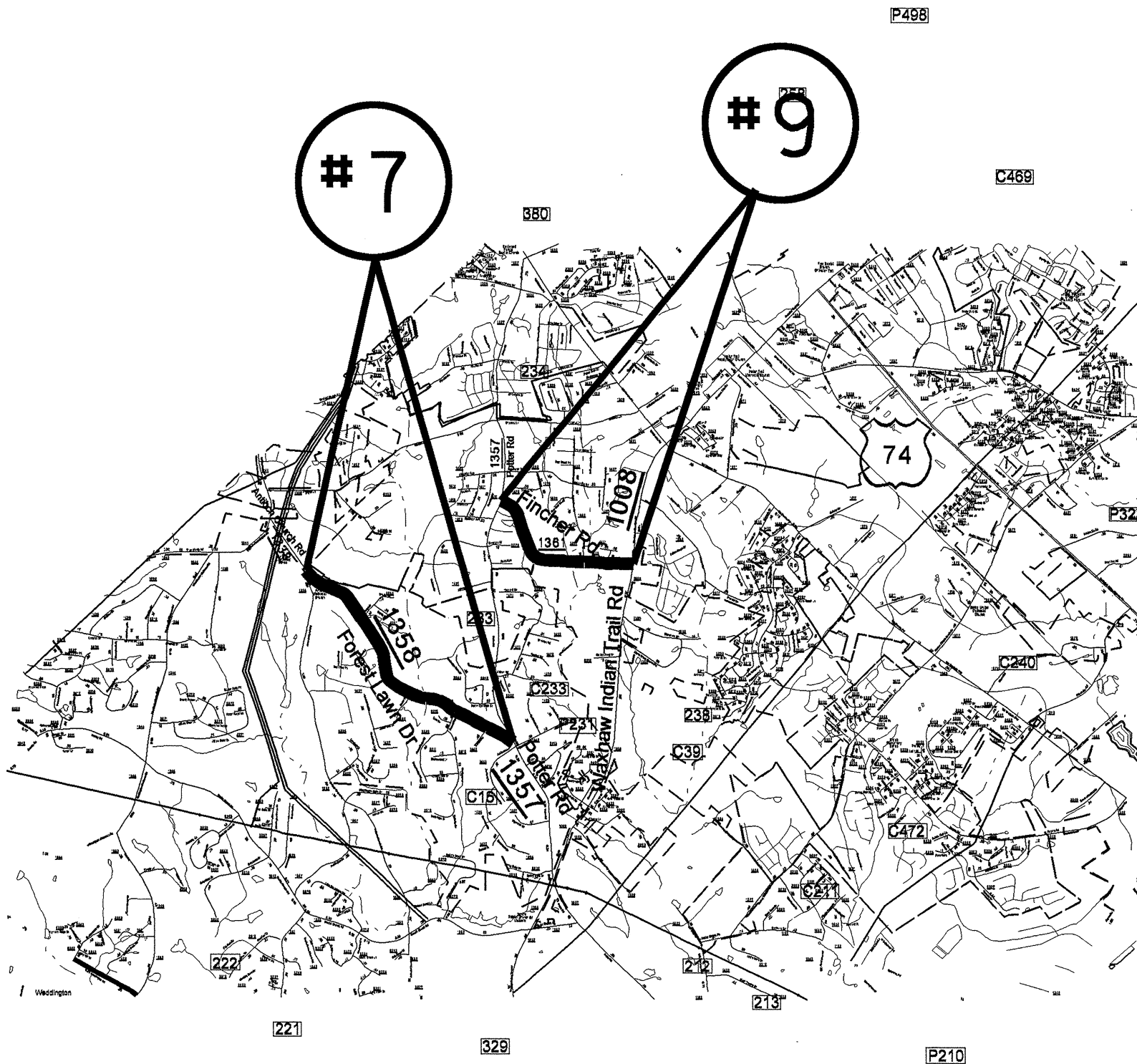


  
 ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

**MAP #6 SR 1146 (PARKWOOD SCHOOL ROAD)**  
**3.0 MILES**

**FROM SR 1007 (ROCKY RIVER ROAD)**  
**TO SR 1137 (POTTER ROAD)**

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.37 - 10CR.10901.39 10CR.20901.94 - 10CR.20901.103	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

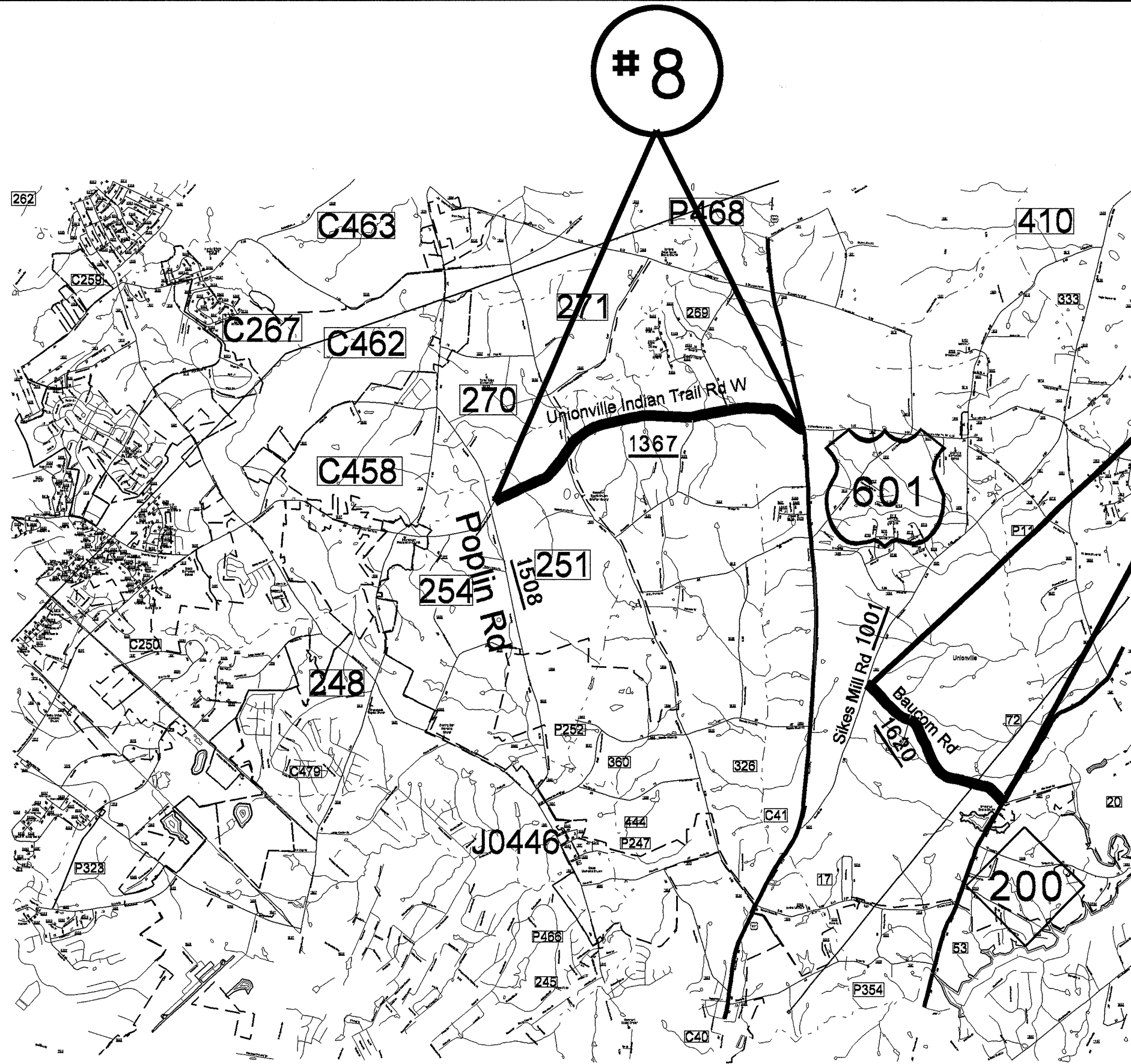
**MAP #7 SR 1358 (FOREST LAWN) 1.9 MILES**

**FROM SR 1357 (POTTER ROAD) TO BEGINNING  
 OF CURB AND GUTTER AT  
 SR 1338 (ANTIOCH CHURCH ROAD)**

**MAP #9 SR 1361 (FINCHER ROAD) 1.2 MILES**

**FROM SR 1008 (WAXHAW-INDIAN TRAIL ROAD)  
 TO SR 1357 (POTTER ROAD)**

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	IOCR.10901.37 - IOCR.10901.39 IOCR.20901.94 - IOCR.20901.103	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

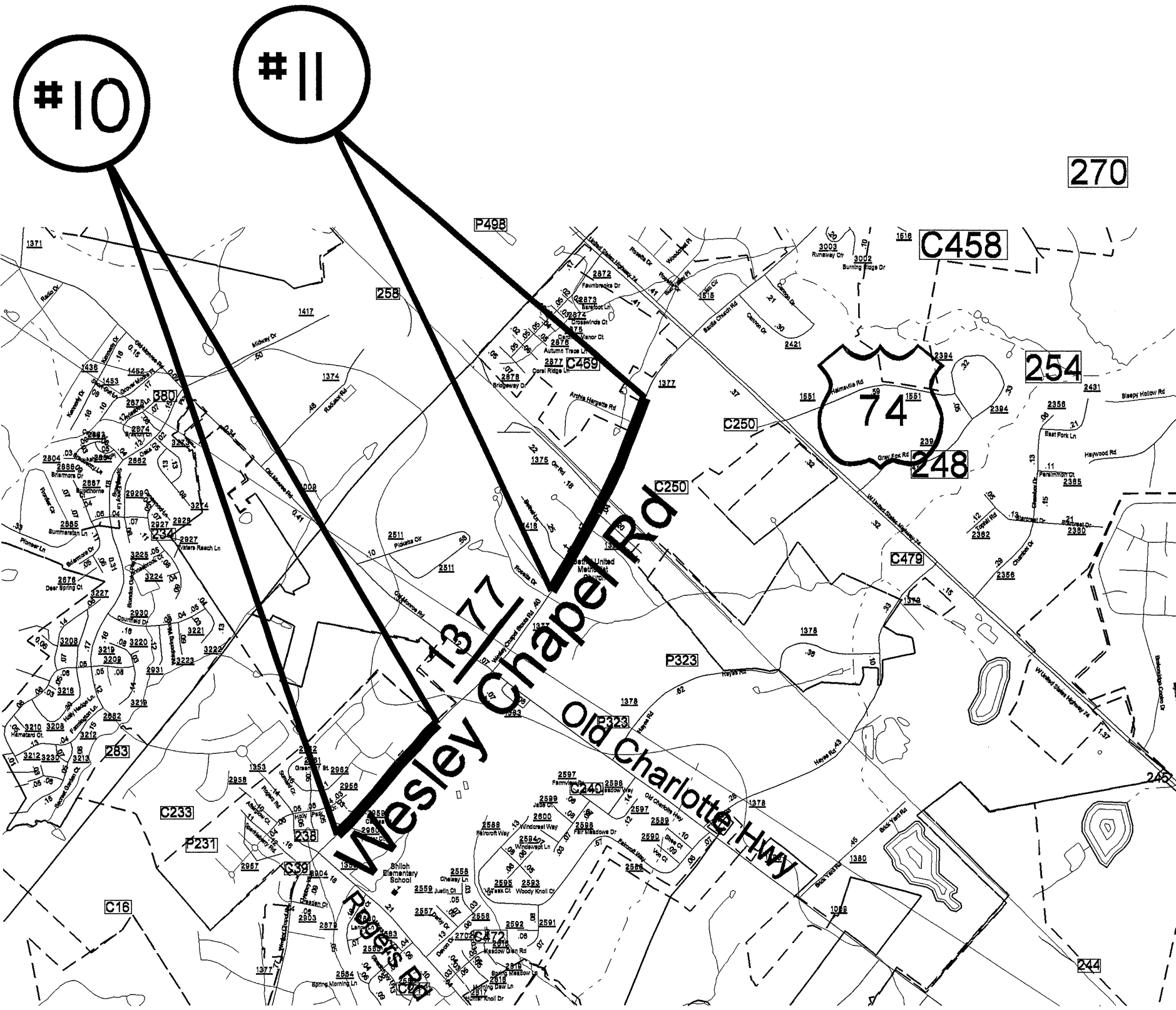
**MAP #8 SR 1367**  
**(UNIONVILLE-INDIAN TRAIL ROAD)**  
**2.8 MILES**

**FROM PAVEMENT JOINT EAST**  
**OF SR 1508 (POPLIN ROAD)**  
**TO US 601 NORTH**

**MAP #13 SR 1620 (BAUCOM ROAD) 1.6 MILES**

**FROM NC 200 NORTH**  
**TO SR 1001(SIKES MILL ROAD)**

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.37 - 10CR.10901.39 10CR.20901.94 - 10CR.20901.103	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 #10 SR 1377 (WESLEY CHAPEL ROAD)**  
**0.6 MILES**

**FROM PAVEMENT JOINT 610' NORTH  
 OF RODGERS ROAD INTERSECTION  
 TO PAVEMENT JOINT AT  
 HARRIS TEETER ENTRANCE**

**MAP #11 SR 1377 (WESLEY CHAPEL ROAD)**  
**0.7 MILES**

**FROM PAVEMENT JOINT NORTH OF  
 SR 1009 (OLD CHARLOTTE HWY)  
 TO PAVEMENT JOINT SOUTH OF US 74**

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.37 - 10CR.10901.39 10CR.20901.94 - 10CR.20901.103	7	
F.A. PROJECT NO.			

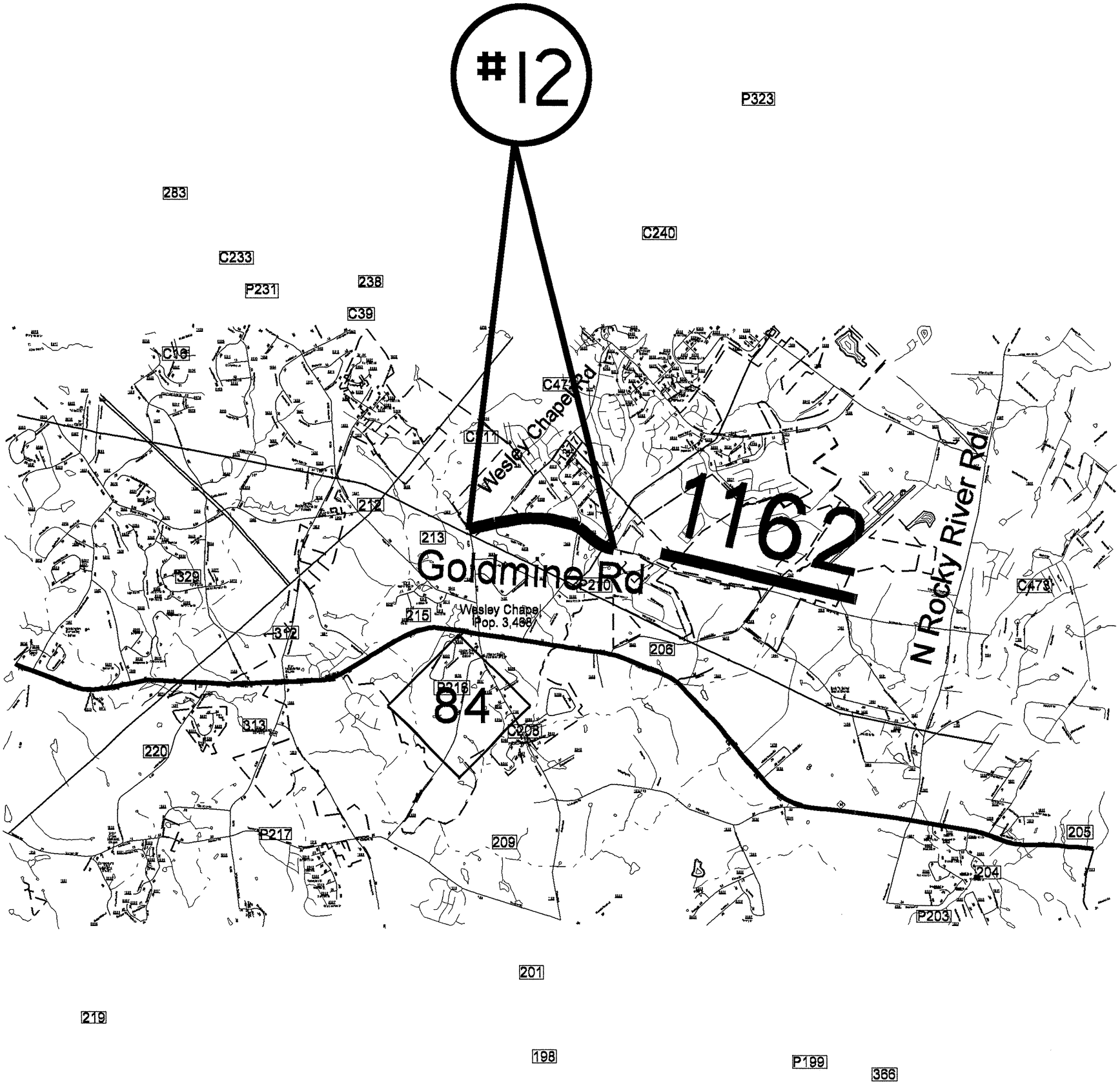


ENLARGED MUNICIPAL AND SUBURBAN AREAS

# UNION COUNTY

NORTH CAROLINA

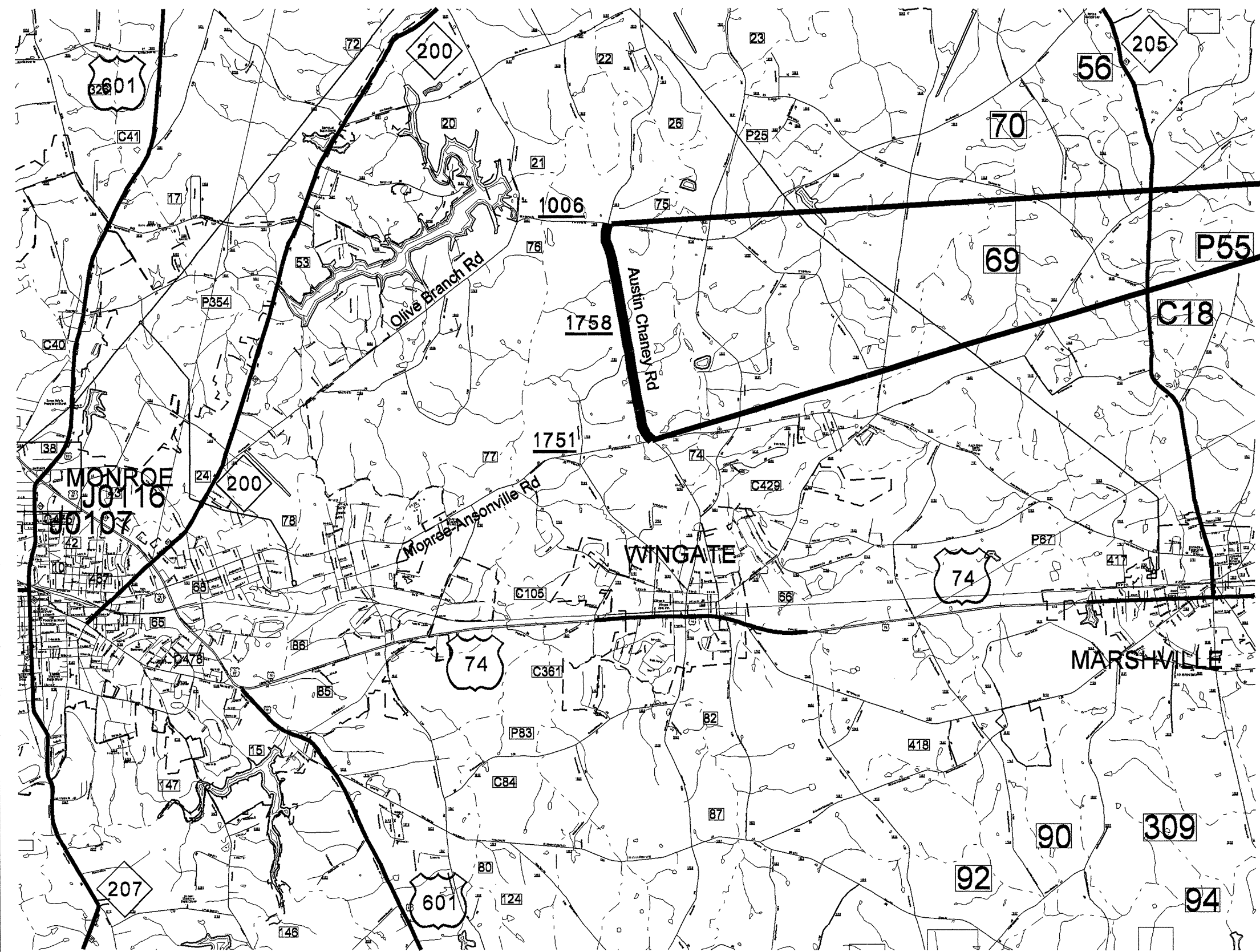
PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3



MAP #12 SR 1162 (GOLDMINE ROAD) 1.5 MILES

FROM PAVEMENT JOINT EAST  
OF SR 1377 (WESLEY CHAPEL ROAD ROUNDABOUT)  
TO PAVEMENT JOINT NORTHWEST  
OF CORPORATE CENTER DRIVE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.37 - 10CR.10901.39 10CR.20901.94 - 10CR.20901.109	7A	
F.A. PROJECT NO.			



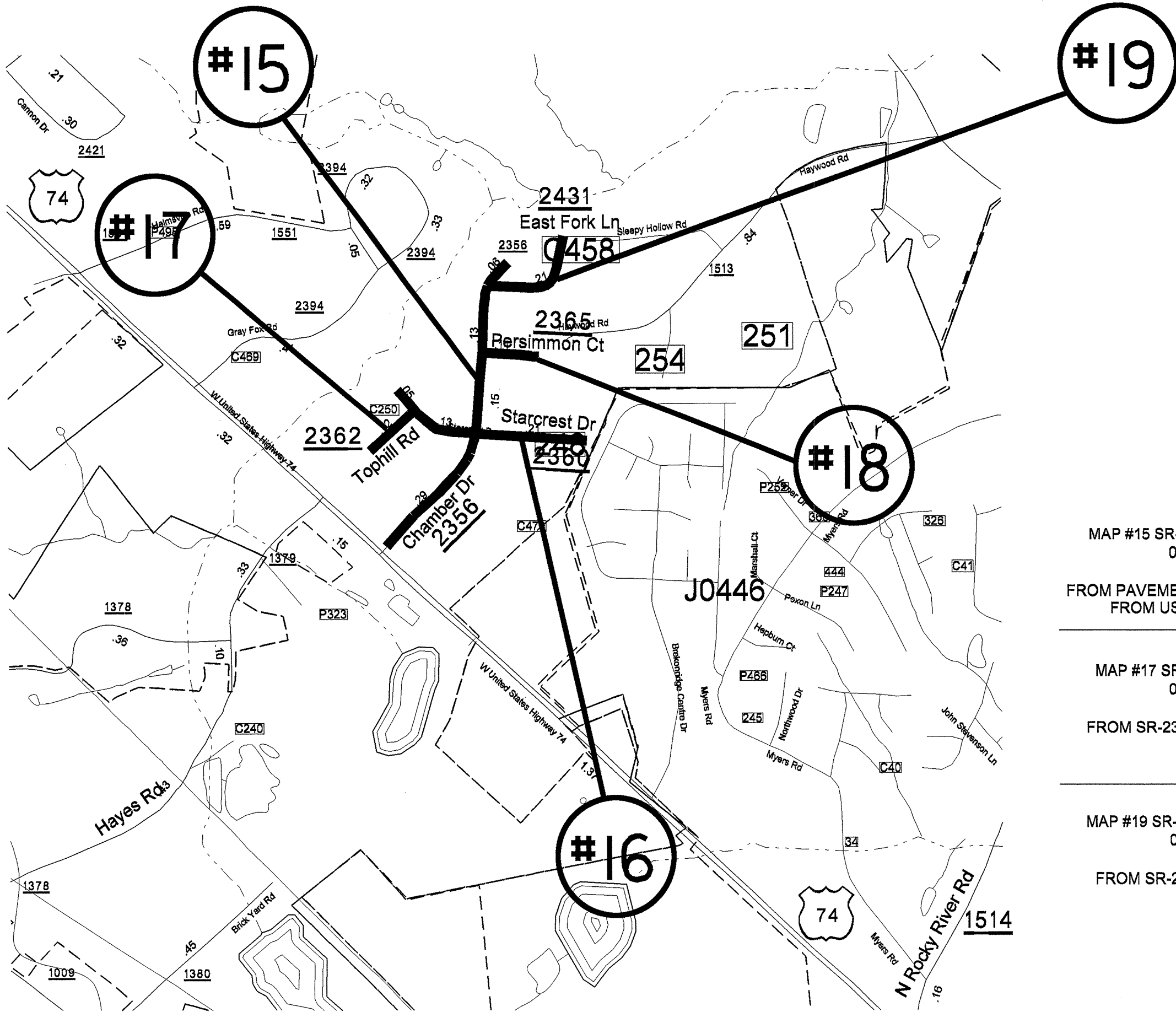
#14



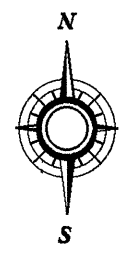
ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #14 SR-1758 (AUSTIN CHANEY RD)  
 1.95 MILES  
 FROM SR-1006 (OLIVE BRANCH RD) TO  
 SR-1751 (MONROE-ANSONVILLE RD)





STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	IOCR.10901.37 - IOCR.10901.39 IOCR.20901.94 - IOCR.20901.109	7B	
F.A. PROJECT NO.			



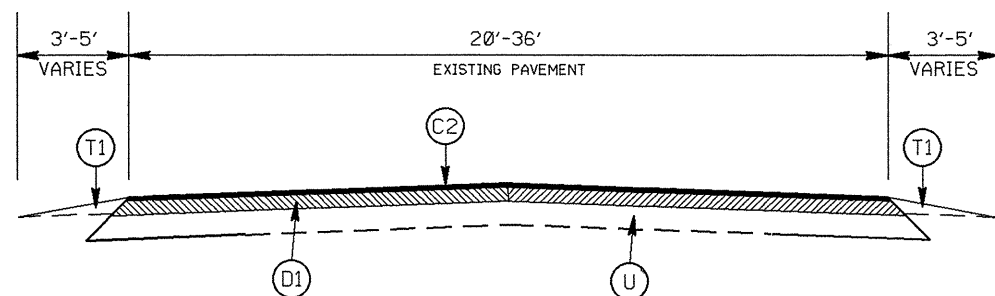
ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**UNION COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #15 SR-2356 (CHAMBER DR) 0.57 MILES  FROM PAVEMENT JOINT APPROX 315' FROM US HWY 74 TO EOM	MAP #16 SR-2360 (STARCREST DR) 0.39 MILES  FROM EOM TO EOM
MAP #17 SR-2362 (TOPHILL RD) 0.12 MILES  FROM SR-2360 (STARCREST DR) TO EOM	MAP #18 SR-2365 (PERSIMMON CT) 0.12 MILES  FROM SR-2356 (CHAMBER DR) TO EOM
MAP #19 SR-2431 (EAST FORK LN) 0.22 MILES  FROM SR-2356 (CHAMBER DR) TO EOM	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR099037 - 10CR099039 10CR099034 - 10CR099040	8	
F.A. PROJECT NO.			

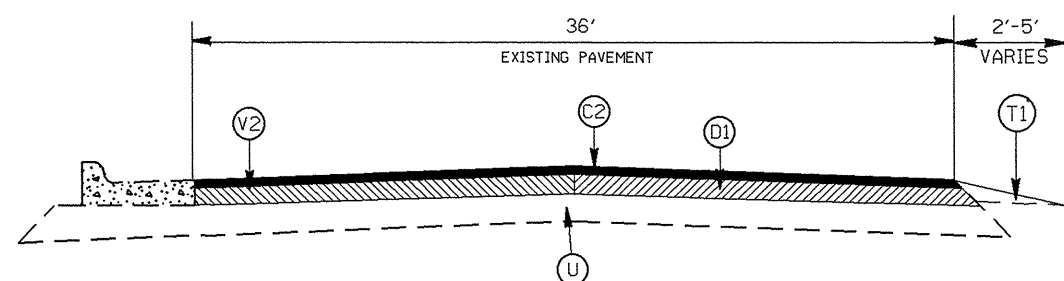
### PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 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. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING 6" OF EXISTING PAVEMENT (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(V2)	Ø - 1.5" PROFILE MILLING
(V3)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.



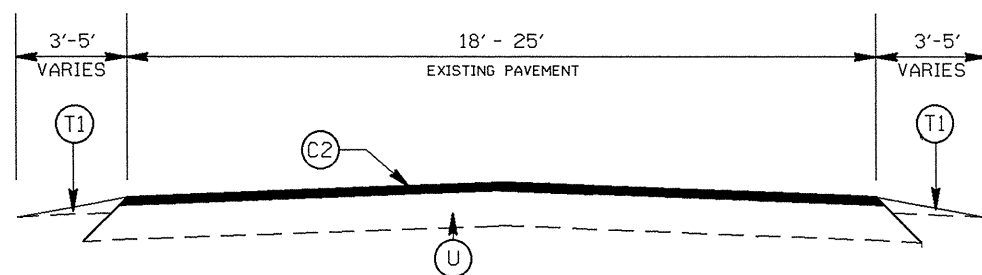
TYPICAL SECTION NO. 1

SR 2115 STACK ROAD (MAP 4 & 5)  
 SR 1377 WESLEY CHAPEL ROAD (MAP 10)  
 FROM STA. 10+00 TO 39+68  
 NC 207 (MAP 1 & 2)  
 SR 1146 PARKWOOD SCHOOL ROAD (MAP 6)  
 FROM STA. 21+65 TO STA. 36+65



TYPICAL SECTION NO. 2

SR 1377 WESLEY CHAPEL ROAD (MAP 10)  
 FROM STA. 39+68 TO STA. 41+68



TYPICAL SECTION NO. 3

SR 1358 FOREST LAWN (MAP 7)  
 SR 1367 UNIONVILLE - INDIAN TRAIL ROAD (MAP 8)  
 SR 1361 FINCHER ROAD (MAP 9)  
 SR 1377 WESLEY CHAPEL ROAD (MAP 11)  
 SR 1162 GOLDMINE ROAD (MAP 12)  
 SR 2356 CHAMBER DRIVE (MAP 15) STA. 12+57 TO END  
 SR 2360 STARCREST DRIVE (MAP 16)  
 SR 2362 TOP HILL ROAD (MAP 17)  
 SR 2365 PERSIMMON COURT (MAP 18)  
 SR 2431 EAST FORK LANE (MAP 19)

#### NOTES:

- 1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 2: ON MAP 7, BRIDGE TO BE MILLED 1.5" AND OVERLAID WITH 1.5" S9.5B".
- 3: ON MAP 3, DO NOT MILL OR RESURFACE OVER BRIDGE.
- 4: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.
- 5: TRENCHING OF BASE COURSE TO INCLUDE 6" OF MILLING EXISTING ASPHALT PAVEMENT.
- 6: TYPICAL # 5, SOME AREAS ON MAP 13 WILL REQUIRE SHOULDER CONSTRUCTION/DITCHING. AREAS TO BE DETERMINED BY ENGINEER.

2014-2015  
 UNION COUNTY RESURFACING

SCALE	-NA-
DATE	02/14
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	JWJ

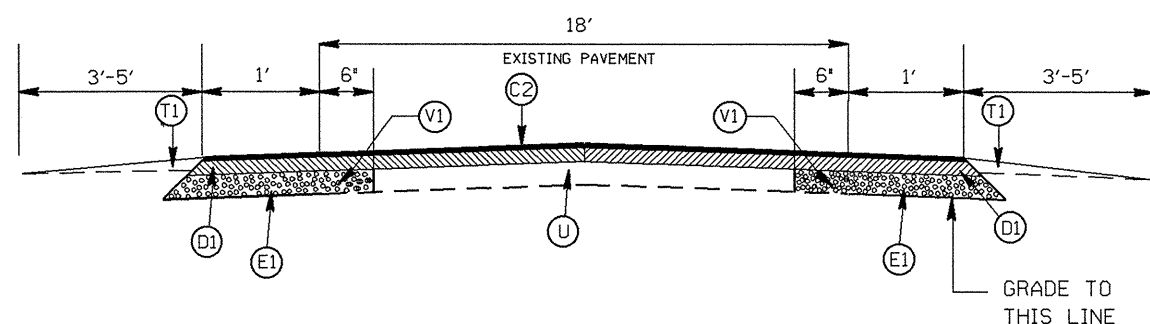


REVISIONS	

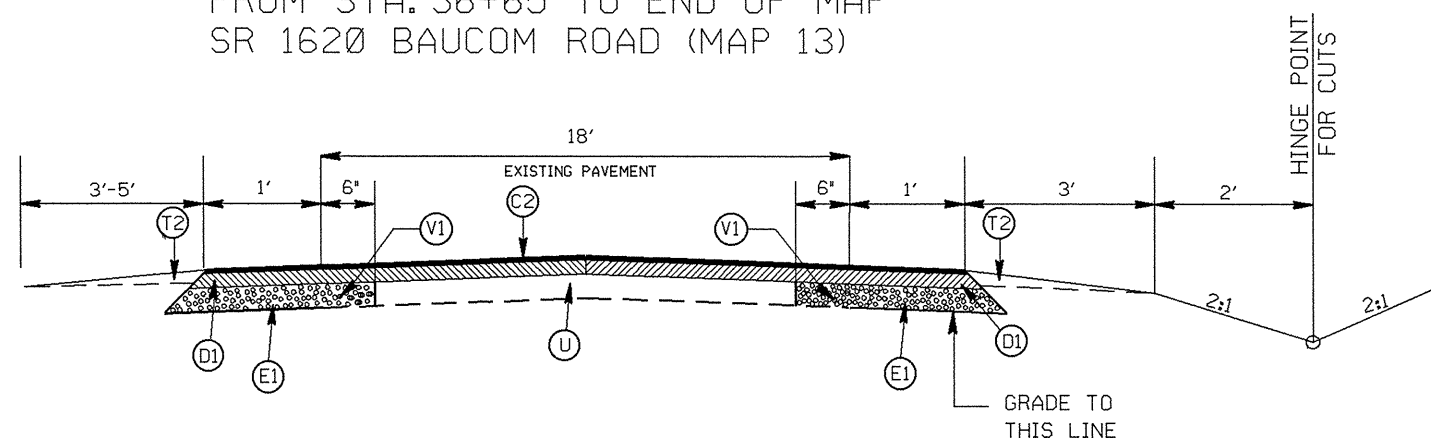
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	DCR10903.37 - 10CR10903.38 DCR10903.34 - 10CR10903.09	9	
F.A. PROJECT NO.			

### PAVEMENT SCHEDULE

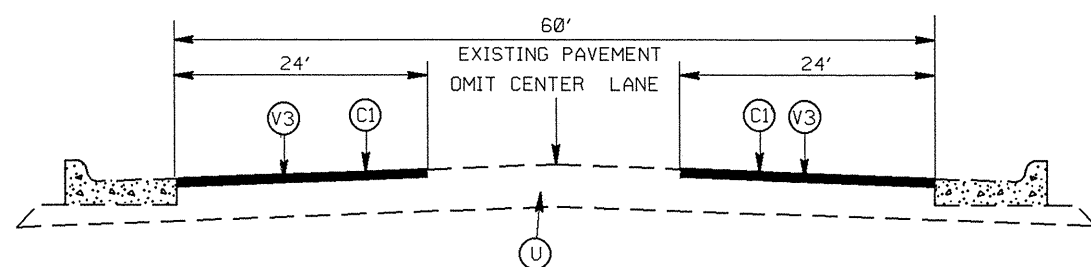
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING 6" OF EXISTING PAVEMENT (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(V2)	Ø - 1.5" PROFILE MILLING
(V3)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.



TYPICAL SECTION NO. 4  
SR 1146 PARKWOOD SCHOOL ROAD (MAP 6)  
FROM STA. 10+00 TO STA. 21+65  
FROM STA. 36+65 TO END OF MAP  
SR 1620 BAUCOM ROAD (MAP 13)



TYPICAL SECTION NO. 5  
SR 1620 BAUCOM ROAD (MAP 13)  
\* SEE NOTE 6



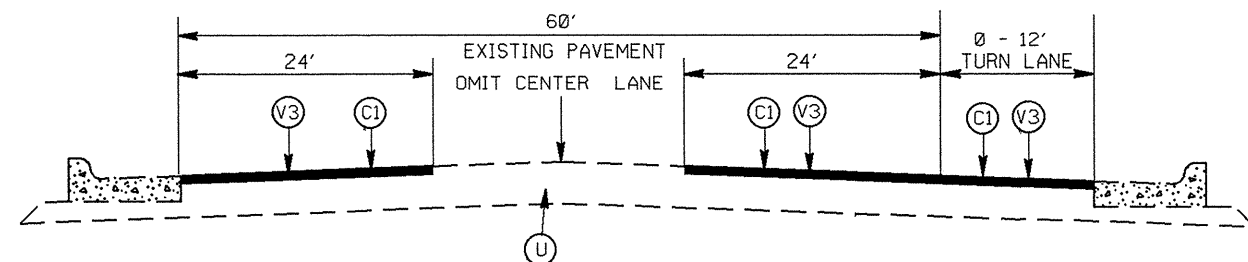
TYPICAL SECTION NO. 6  
US 601 SOUTH (MAP 3)  
TRAVEL LANES

**NOTES:**

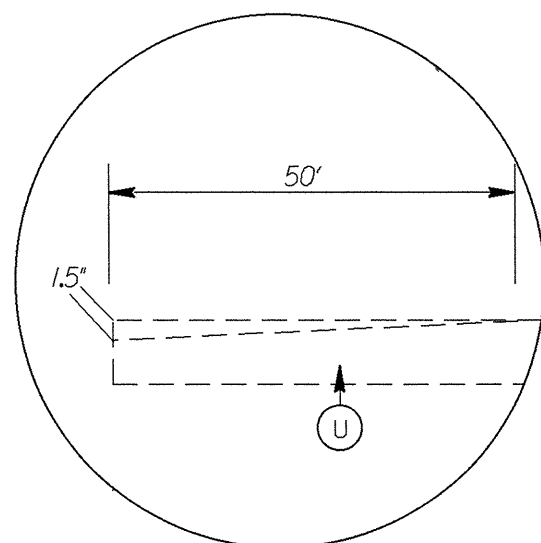
- 1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 2: ON MAP 7, BRIDGE TO BE MILLED 1.5" AND OVERLAID WITH 1.5" S9.5B".
- 3: ON MAP 3, DO NOT MILL OR RESURFACE OVER BRIDGE.
- 4: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.
- 5: TRENCHING OF BASE COURSE TO INCLUDE 6" OF MILLING EXISTING ASPHALT PAVEMENT.
- 6: TYPICAL # 5, SOME AREAS ON MAP 13 WILL REQUIRE SHOULDER CONSTRUCTION/DITCHING. AREAS TO BE DETERMINED BY ENGINEER.

2014-2015 UNION COUNTY RESURFACING			REVISIONS
SCALE	-NA-		
DATE	02/14		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	JWU		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	60R2090.37 - 60R2090.38 60R2090.34 - 60R2090.04	10	
F.A. PROJECT NO.			

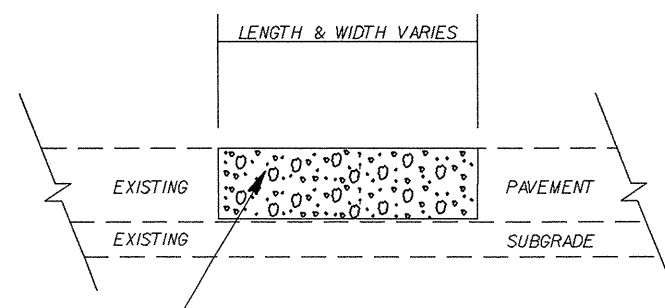


TYPICAL SECTION NO. 7  
US 601 SOUTH (MAP 3)  
NORTH BOUND OUTSIDE  
TURN LANES ONLY



DETAIL FOR INCIDENTAL MILLING (0" TO 1.5")

PATCHING DETAIL



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

### PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 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. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING 6" OF EXISTING PAVEMENT (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(V2)	Ø - 1.5" PROFILE MILLING
(V3)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.

#### NOTES:

1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2: ON MAP 7, BRIDGE TO BE MILLED 1.5" AND OVERLAID WITH 1.5" S9.5B".

3: ON MAP 3, DO NOT MILL OR RESURFACE OVER BRIDGE.

4: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.

5: TRENCHING OF BASE COURSE TO INCLUDE 6" OF MILLING EXISTING ASPHALT PAVEMENT.

6: TYPICAL # 5, SOME AREAS ON MAP 13 WILL REQUIRE SHOULDER CONSTRUCTION/DITCHING. AREAS TO BE DETERMINED BY ENGINEER.

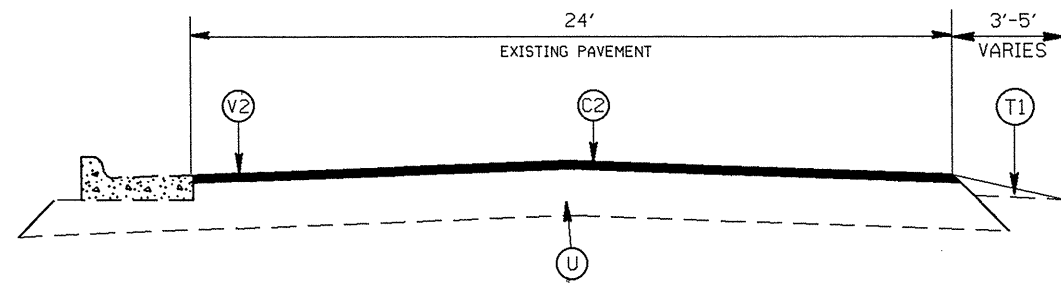
2014 - 2015  
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	02/14		
DWG. BY	AWO		
DESIGN BY	AWO		
APPROVED	JWU		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	SCP-2000.37 - 00R-2000.38 RCP-2000.54 - 00R-2000.68	IOA	
F.A. PROJECT NO.			

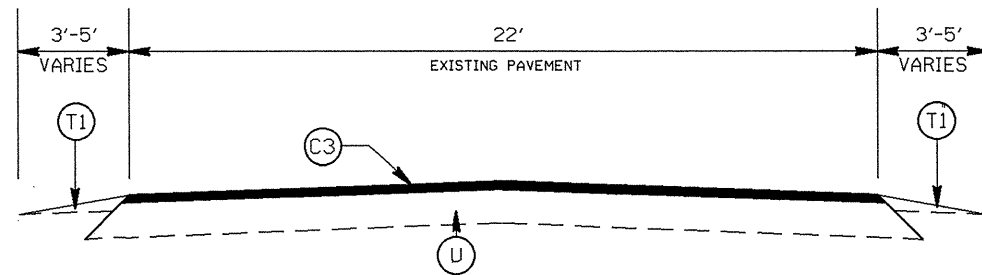
### PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 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. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(U)	EXISTING PAVEMENT
(T1)	SHOULDER RECONSTRUCTION
(T2)	SHOULDER CONSTRUCTION
(V1)	MILLING 6" OF EXISTING PAVEMENT (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(V2)	Ø - 1.5" PROFILE MILLING
(V3)	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH.



TYPICAL SECTION NO. 8

SR 2356 CHAMBERS DRIVE (MAP 15) STA. 10+00 TO STA. 12+57



TYPICAL SECTION NO. 9

SR 1758 AUSTIN CHANEY ROAD (MAP 14)

#### NOTES:

1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2: ON MAP 7, BRIDGE TO BE MILLED 1.5" AND OVERLAID WITH 1.5" S9.5B".

3: ON MAP 3, DO NOT MILL OR RESURFACE OVER BRIDGE.

4: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.

5: TRENCHING OF BASE COURSE TO INCLUDE 6" OF MILLING EXISTING ASPHALT PAVEMENT.

6: TYPICAL # 5, SOME AREAS ON MAP 13 WILL REQUIRE SHOULDER CONSTRUCTION/DITCHING. AREAS TO BE DETERMINED BY ENGINEER.

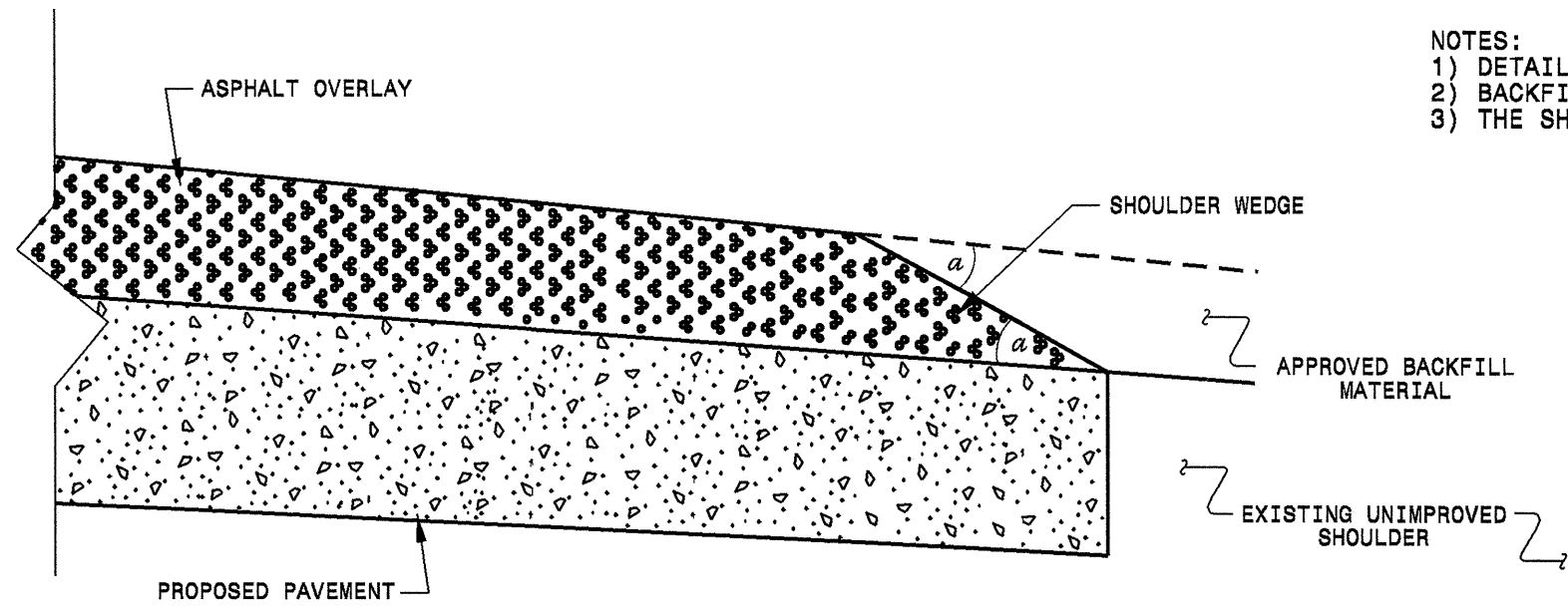
2014 - 2015  
UNION COUNTY RESURFACING

SCALE -NA-  
DATE 02/14  
DWG. BY AMO  
DESIGN BY AMO  
APPROVED JWU

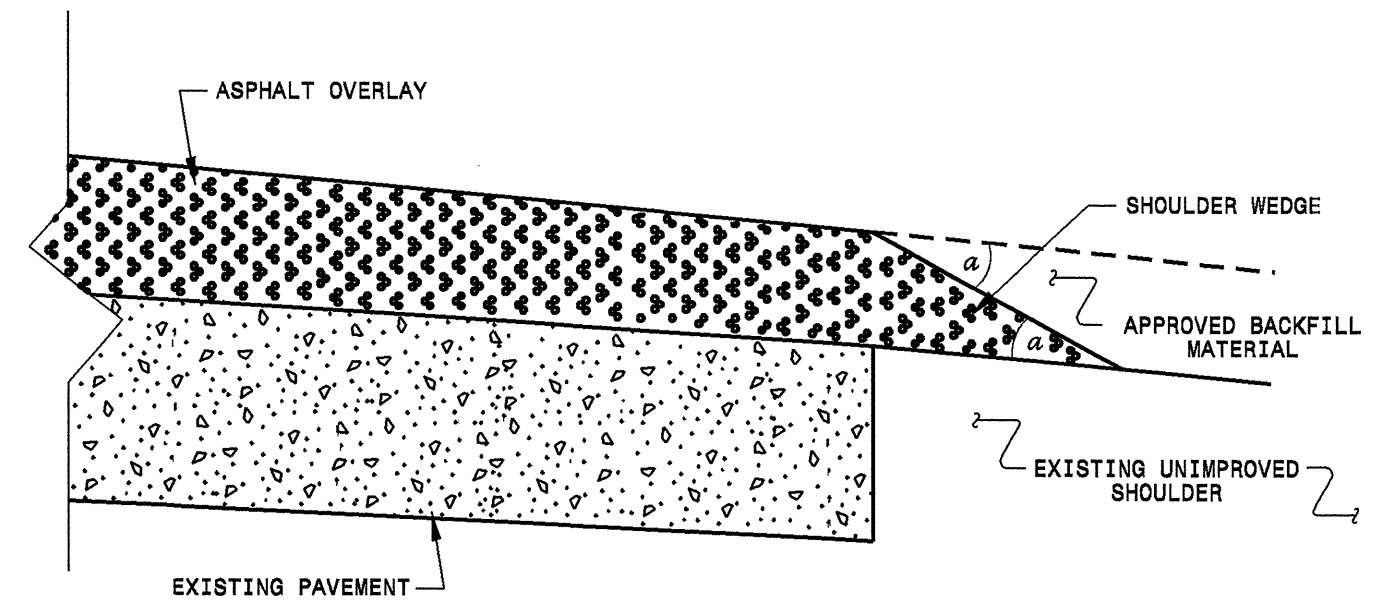


REVISIONS

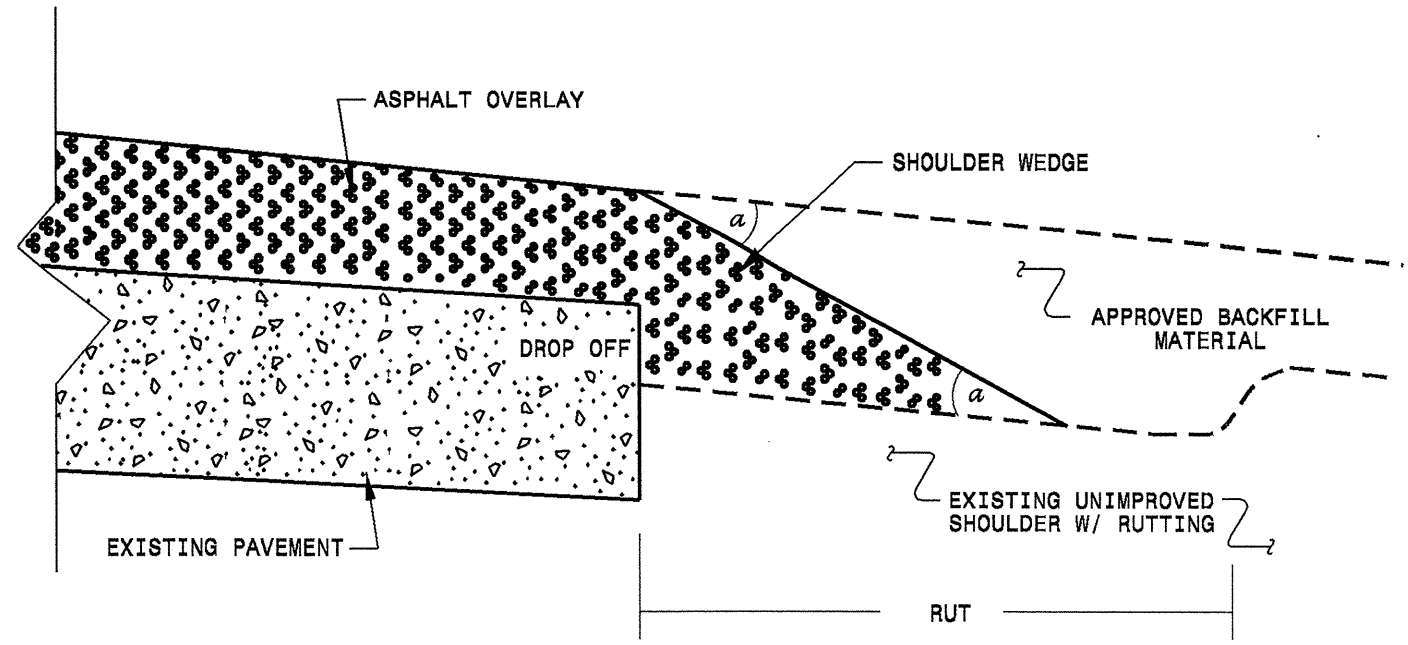

- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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°

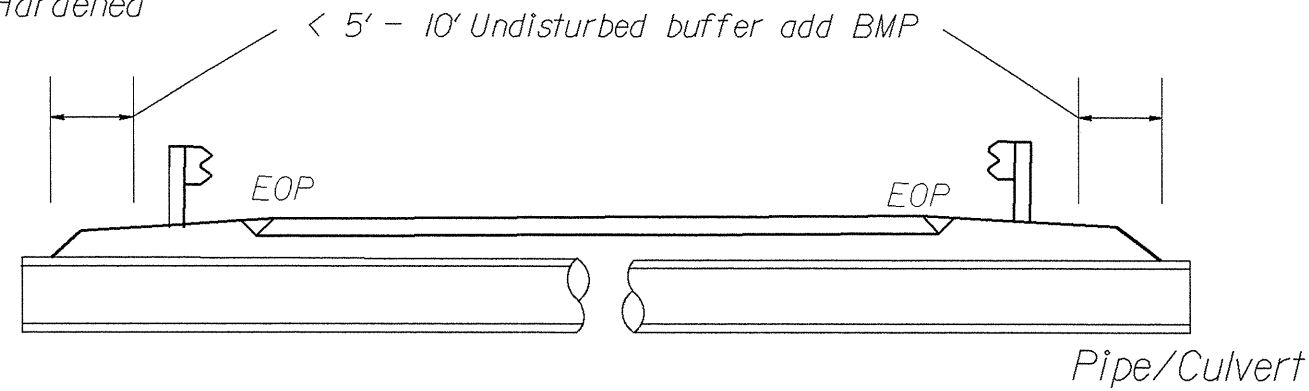
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 10/18/12
CHECKED BY:	DATE:
FILE SPEC: s:\uwn\details\stand\shoulderwedgestdet11.dgn	

10-FEB-2014 15:08 C:\projects\Resurfacing Projects\Revised Shoulder Wedge Detail.dgn  
 USER: T.SPELL

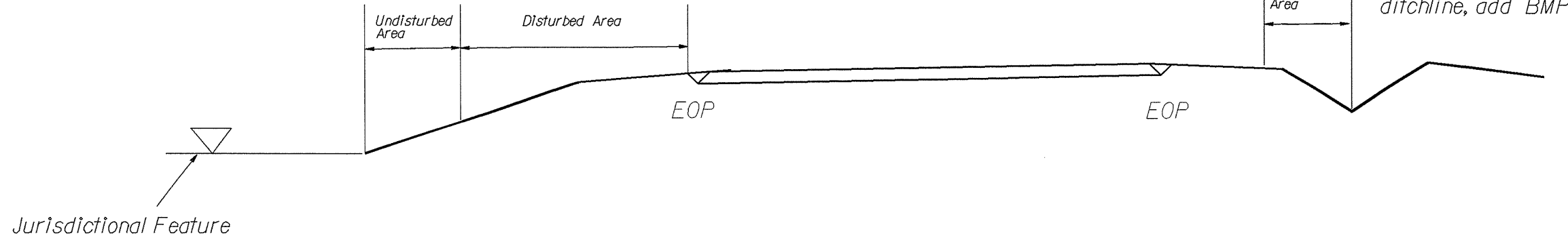
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

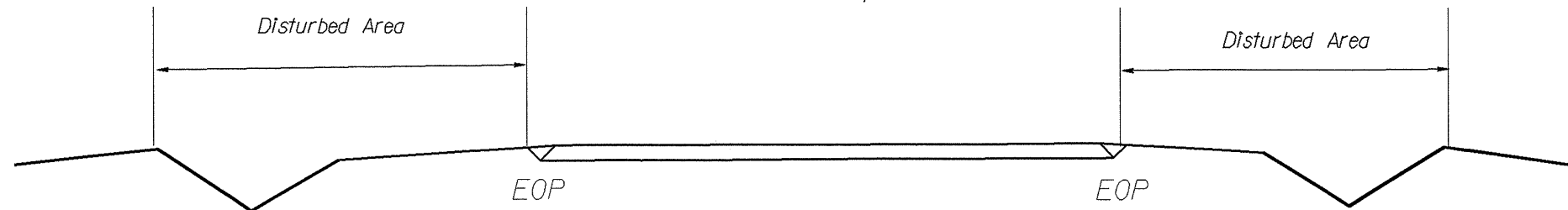
# EROSION CONTROL DETAIL



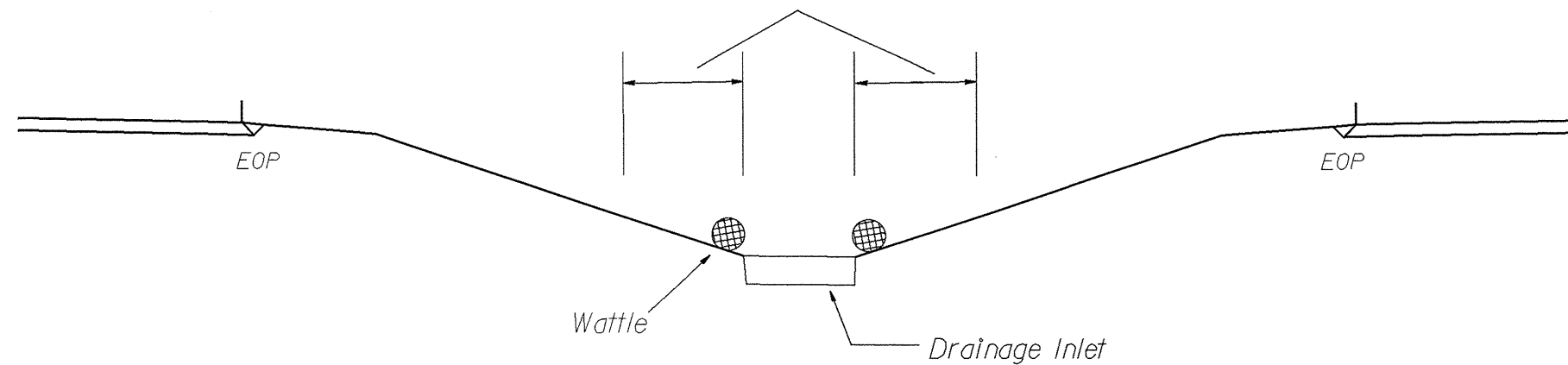
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



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

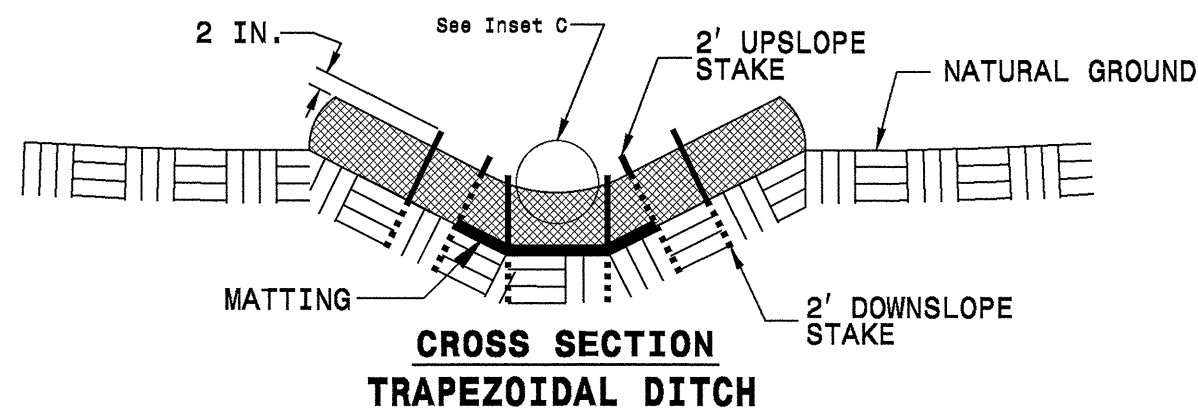
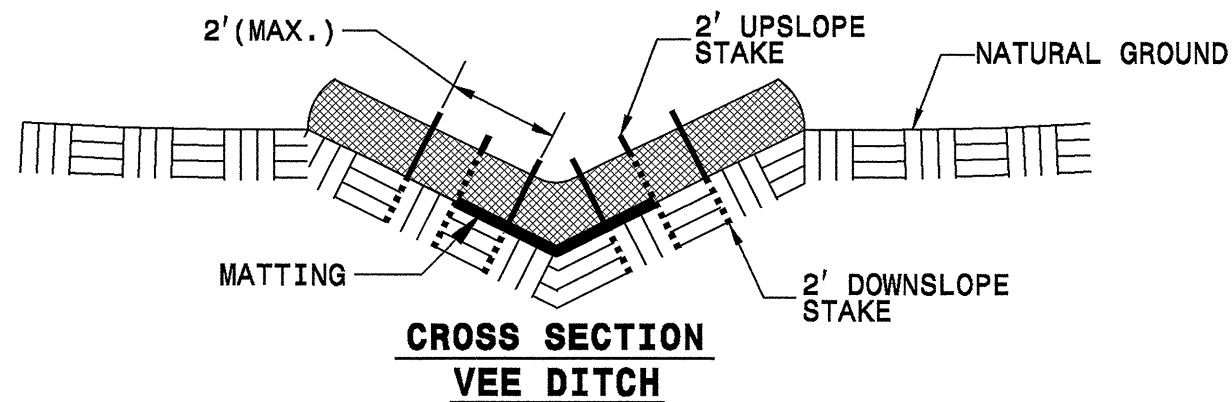
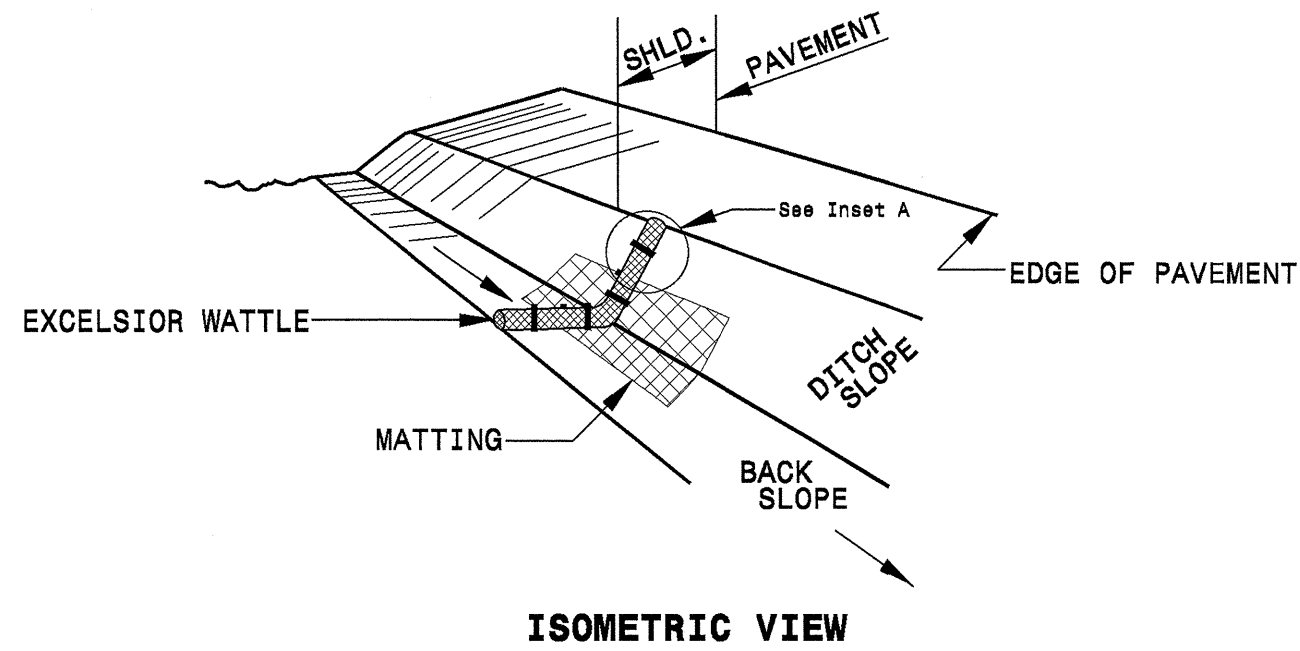


< 5' - 10' Undisturbed buffer from inlet, add wattle



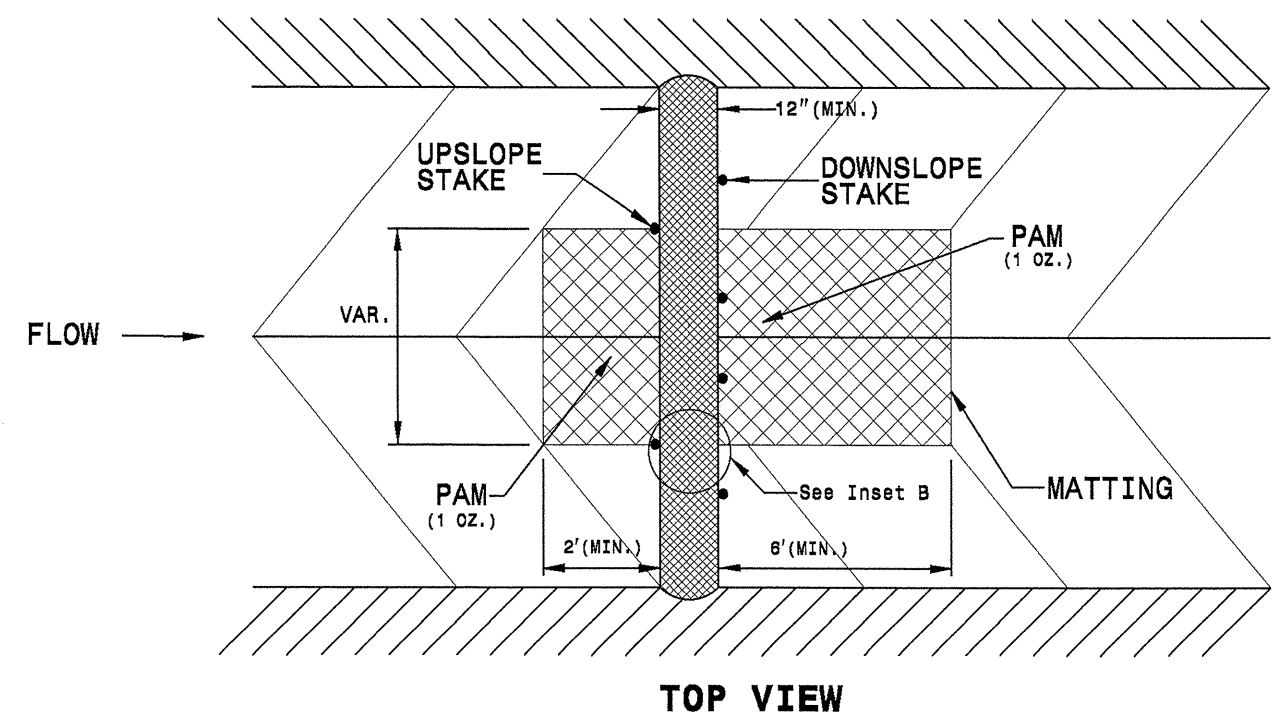
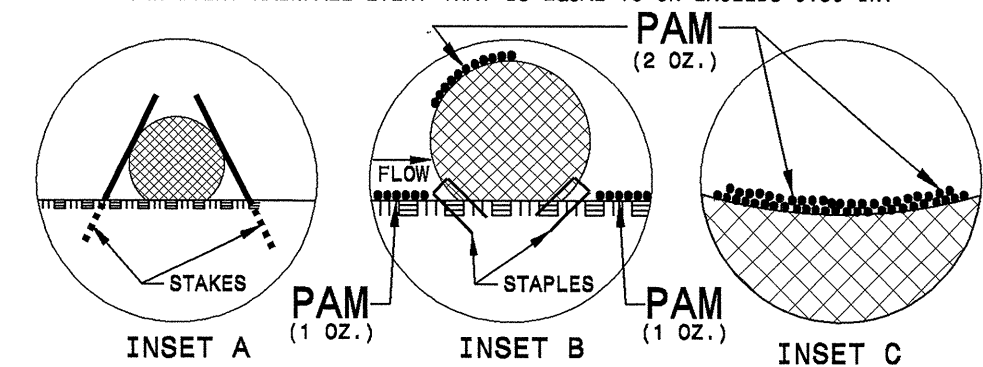
NOT TO SCALE

# 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.





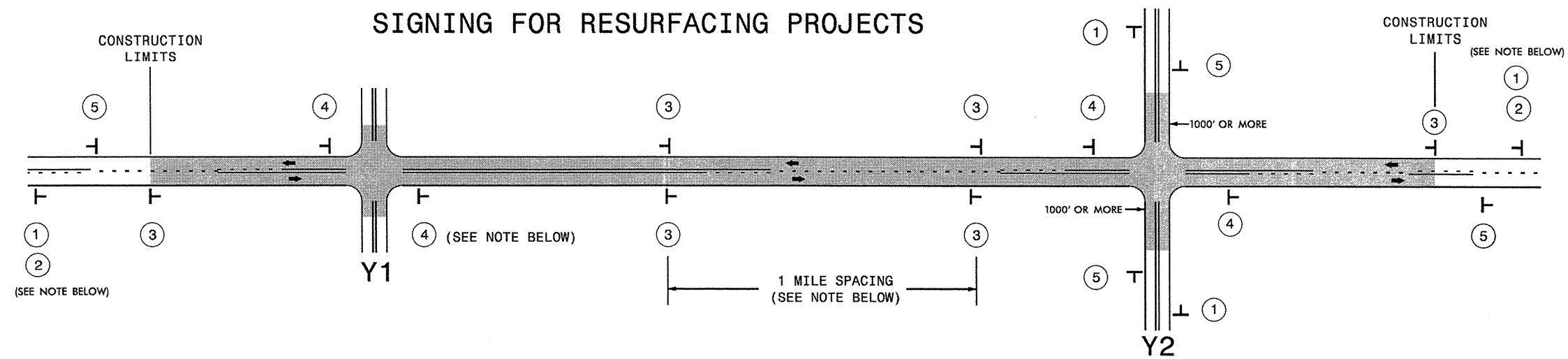


PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10901.37, ETC.	15	
10CR.20901.94, ETC.		

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E		4695000000-E	4697000000-E	4705000000-E	4710000000-E	4721000000-E			4725000000-E			4810000000-E		4900000000-N																					
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M YELLOW THERMO	4" X 120 M WHITE THERMO	8" X 90 M YELLOW THERMO	8" X 120 M WHITE THERMO	16" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO MSG STOP 120 M	THERMO MSG AHEAD 120 M	THERMO MSG SCHOOL 120 M	THERMO RXR 120 M	THERMO LT ARROW 90 M	THERMO LT & RT ARROW 90 M	THERMO RT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	YELLOW & YELLOW MARKERS	CYAN & RED MARKERS																			
NO		NO			NO					SF	LS	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA																			
10CR.10901.37	Union	1	HWY 207	FROM PAVEMENT JOINT AT SR 2151 (JD HELMS ROAD) TO SR 2149 (BUFORD SHORTCUT ROAD) MILEPOST 5.2 TO MILEPOST 7.3	1	2	2WU	2.1	21	187.6	1.00	22,286	16,511	42												22,176	16,401	139																				
10CR.10901.38	Union	2	HWY 207	FROM SR 2149 (BUFORD SHORTCUT ROAD) TO SR 2115 (STACK ROAD) MILEPOST 7.3 TO MILEPOST 1.9	1	2	2WU	1.9	21	187.6	*	20,184	18,497	10				26	8	5							20,064	18,377	126																			
10CR.10901.39	Union	3	HWY 601 SOUTH	FROM PAVEMENT JOINT AT ENTRANCE TO JACK IN THE BOX TO END OF 2'6" CURB AND GUTTER MILEPOST 12 TO MILEPOST 13.3	6,7	5	MU	1.3	60	126.0	*		14,898	4,102				42				1	1	2		4,102	17,160	166	210																			
10CR.20901.94	Union	4	SR 2115 STACK ROAD	FROM SR 1005 (LANDSFORD RD) TO SR 2118 (DUDLEY ROAD) MILEPOST 2.4 TO MILEPOST 3.5	1	2	2WU	1.1	22	187.6	*	11,492	10,117	13				40								11,402	10,037	72																				
10CR.20901.95	Union	5	SR 2115 STACK ROAD	FROM SR 2118 (DUDLEY ROAD) TO SR 2125 (JACK DAVIS ROAD) MILEPOST 3.4 TO MILEPOST 5.1	1	2	2WU	1.7	20	187.6	*	18,298	17,098	60				20								17,998	17,098	113																				
10CR.20901.96	Union	6	SR 1146 PARKWOOD SCHOOL ROAD	FROM SR 1007 (ROCKY RIVER ROAD) TO SR 1137 (POTTER ROAD) MILEPOST 0 TO 30	1,4	2	2WU	3	18	187.6	*	31,984	18,439	500	150				140	8	5	12		7		31,985	18,439	210	28																			
10CR.20901.97	Union	7	SR 1358 FOREST LAWN DRIVE	FROM SR 1357 (POTTER ROAD) TO BEGINNING OF CURB AND GUTTER AT SR 1338 (ANTIOCH CHURCH ROAD) MILEPOST 0 TO MILEPOST 1.9	3	2	2WU	1.9	19	187.6	*	20,065	19,707	63				20											126																			
10CR.20901.98	Union	8	SR 1367 UNIONVILLE-INDIAN TRAIL ROAD	FROM PAVEMENT JOINT EAST OF SR 1508 (POPLIN ROAD) TO HWY 601 NORTH MILEPOST 8.2 TO MILEPOST 11.0	3	2	2WU	2.8	23	187.6	*	29,414	27,247	50				40											184																			
10CR.20901.99	Union	9	SR 1361 FINCHER ROAD	FROM SR 1008 (WAXHAW-INDIAN TRAIL ROAD) TO SR 1357 (POTTER ROAD) MILEPOST 0 TO MILEPOST 1.2	3	2	2WU	1.2	18	187.6	*	12,672	11,662	50															80																			
	Union	15	SR 2356 CHAMBER DRIVE	FROM PAVEMENT JOINT 315 FT NORTH OF US 74 AND SR 2356 INTERSECTION TO END OF MAINTENANCE	3,8	2	2WU	0.57	24	64	*																																					
	Union	16	SR 2360 STARCREST DRIVE	FROM END OF MAINTENANCE TO END OF MAINTENANCE	3	2	2WU	0.39	24	64	*																																					
	Union	17	SR 2362 TOP HILL ROAD	FROM SR 2360 STARCREST DRIVE TO END OF MAINTENANCE	3	2	2WU	0.12	22	64	*																																					
	Union	18	SR 2365 PERSIMMON COURT	FROM SR 2356 CHAMBER DRIVE TO END OF MAINTENANCE	3	2	2WU	0.12	24	64	*																																					
	Union	19	SR 2431 EAST FORK LANE	FROM SR 2356 CHAMBERS DRIVE TO END OF MAINTENANCE	3	2	2WU	0.22	25	64	*																																					
TOTAL FOR PROJ NO. 10CR.20901.99									2.62	507.6	12,672	11,712	50																80																			
10CR.20901.100	Union	10	SR 1377 WESLEY CHAPEL ROAD	FROM PAVEMENT JOINT 610' NORTH OF RODGERS ROAD INTERSECTION TO PAVEMENT JOINT AT HARRIS TEETER ENTRANCE MILEPOST 1.8 TO MILEPOST 2.4	1,2	2	2WU	0.6	25	187.6	*	6,336	7,868	644	100	105			272				6	6			6,336	7,868	40	39																		
10CR.20901.101	Union	11	SR 1377 WESLEY CHAPEL ROAD	FROM PAVEMENT JOINT NORTH OF SR 1009(OLD CHARLOTTE HWY) TO PAVEMENT JOINT SOUTH OF HWY 74 MILEPOST 2.7 TO MILEPOST 3.4	3	2	2WU	0.7	23	187.6	*	6,558	5,872	38				100	96				4						41																			
10CR.20901.102	Union	12	SR 1162 GOLDMINE ROAD	FROM PAVEMENT JOINT EAST OF SR 1377(WESLEY CHAPEL ROAD ROUNDABOUT) TO PAVEMENT JOINT NORTHWEST OF CORPORATE CENTER DRIVE MILEPOST 7.5 TO MILEPOST 6	3	2	2WU	1.5	20	187.6	*	16,200	15,777	88														102																				
10CR.20901.103	Union	13	SR 1620 BAUCOM ROAD	FROM NC 200 NORTH TO SR 1001 (SIKES MILL ROAD) MILEPOST 0 TO MILEPOST 1.6	4,5	2	2WU	1.6	18	187.6	*	16,580	15,774					40								16,580	15,774	104																				
	Union	14	SR 1758 AUSTIN CHANEY ROAD	FROM SR 1006 (OLIVE BRANCH ROAD) TO SR 1751 (MONROE ANSONVILLE ROAD)	9	2	2WU	1.95	22	64	*	20,554	16,827	13				40	8	5									129																			
TOTAL FOR PROJ NO. 10CR.20901.103									3.55	251.6	37,134	32,614	13				80	8	5								16,580	15,774	233																			
GRAND TOTAL									24.77	2,761.2	1	232,623	216,294	5,673	250	105	100	776	24	15	18	4	14	1	2	130,643	121,154	1,632	277																			
											221,967												61												17												251,797	1,909

## SIGNING FOR RESURFACING PROJECTS



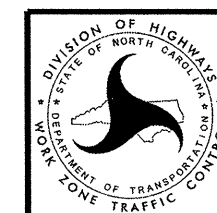
LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">①</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">②</div> </div>	<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <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> </div> </div>	<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; align-items: center; margin: 10px 0;"> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
③	<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <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> </div> </div>	
④	<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <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> </div> </div>	
⑤	<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p> </div> </div>	

8/8/2013 5:17:41 PM WZTC:Resurfacing\2013\Documents\New\_Procedures\_05\_09\_2013\Resurfacing\_AdvWarn\_2Ln.dgn User:mgdrrett



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