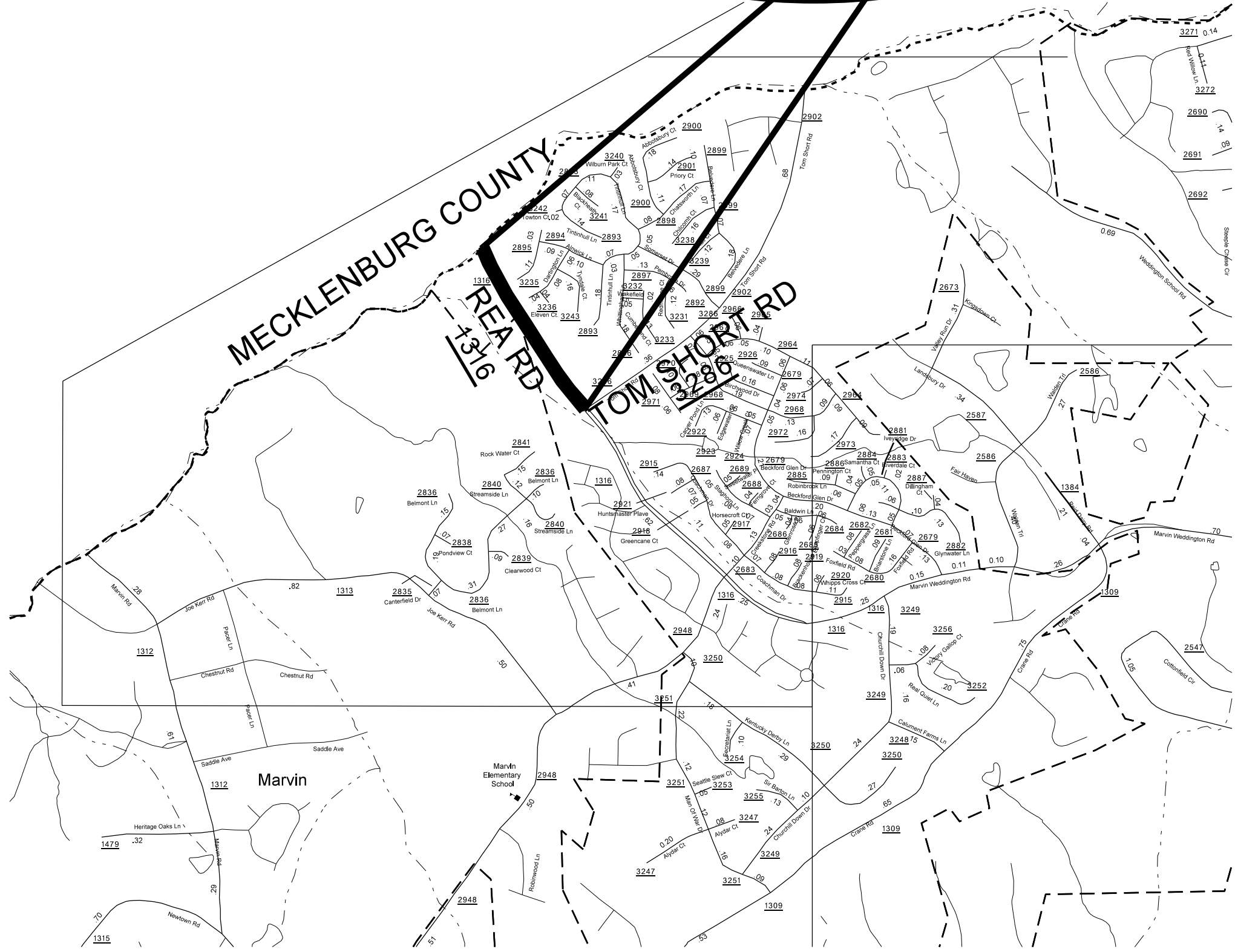


#5-6

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I - ETC. 2017CPT.I0.07.2090I.7		
F.A. PROJECT NO.			



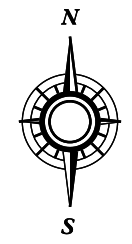
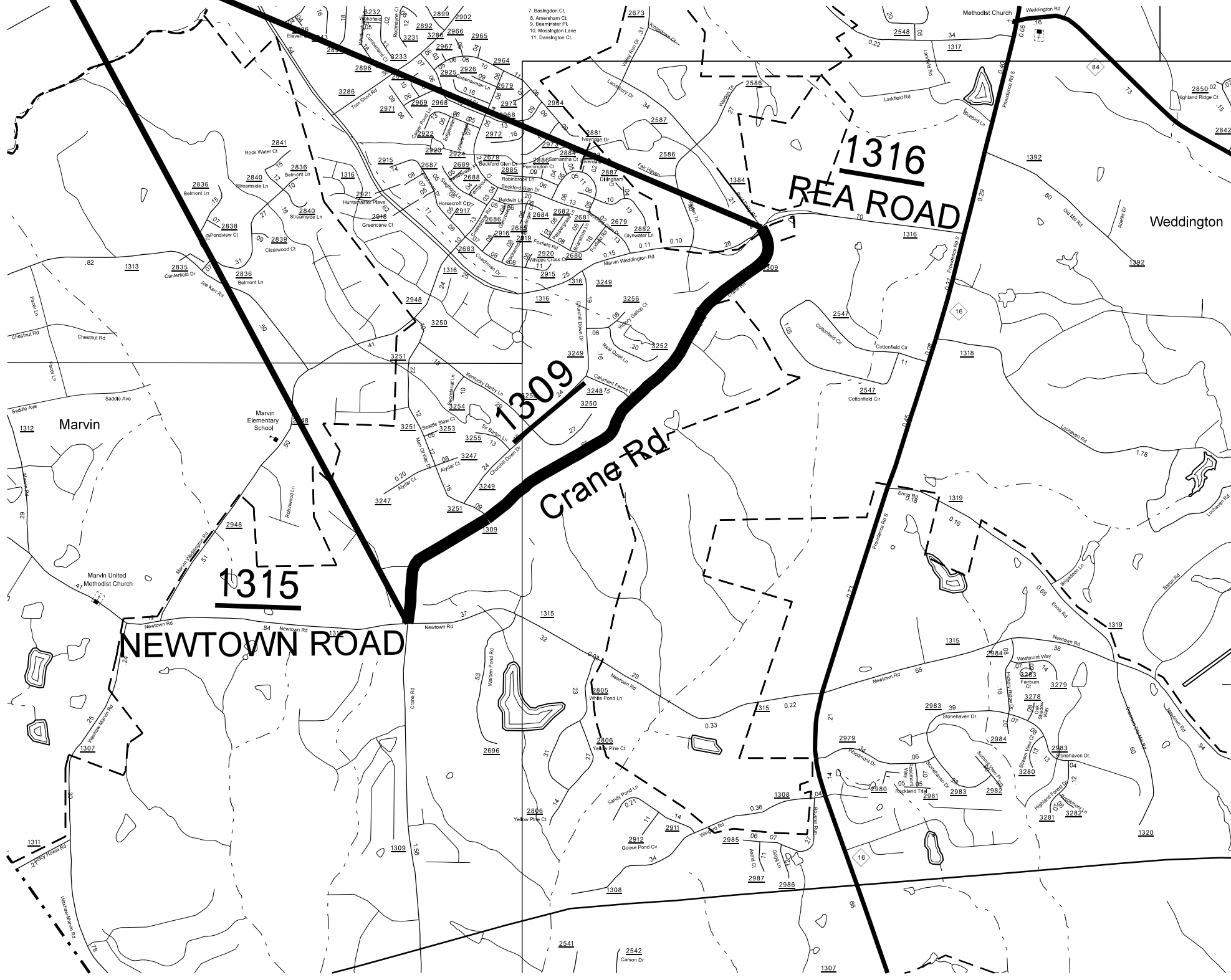
ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA
PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #5 SR 1316 REA RD
 0.55
FROM SR 3286 TOM SHORT RD
TO MECKLENBURG COUNTY LINE

MAP #6 SR 1316 REA RD
 0.54
FROM MECKLENBURG COUNTY LINE
TO SR 3286 TOM SHORT RD

#7

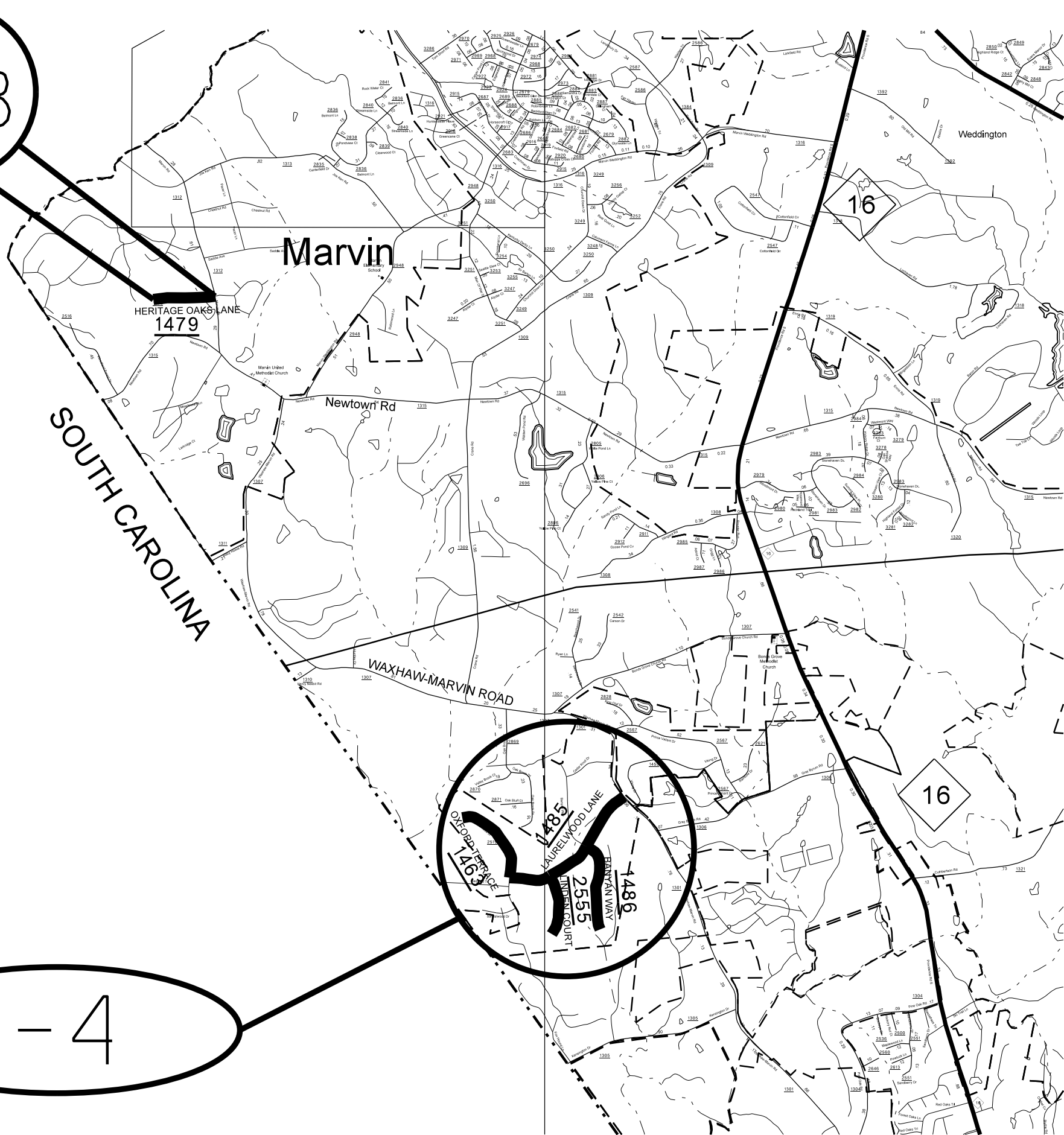
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901 - ETC. 2017CPT.10.07.20901.7	2	
F.A. PROJECT NO.			



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 #7 SR 1309 CRANE ROAD
1.90 MILES
FROM SR 1315 NEWTOWN ROAD
TO SR 1316 REA ROAD

38



1-4

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I - ETC. 2017CPT.I0.07.2090I.7	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 #38 SR 1479 HERITAGE OAKS LANE
0.31 MILES
FROM SR 1312 MARVIN ROAD
TO END OF MAINTENANCE

- MAP #1 SR 1485 LAURELWOOD LANE
0.77 MILES
FROM SR 1301 WAXHAW-MARVIN ROAD
TO SR 2519 SANDLEWOOD DRIVE

- MAP #2 SR SR 1486 BANYAN WAY
0.45 MILES
FROM SR 1485 LAURELWOOD LANE
TO END OF MAINTENANCE

- MAP #3 SR 2519 SANDLEWOOD DRIVE
0.45 MILES
FROM SR 1485 LAURELWOOD LANE
TO END OF MAINTENANCE

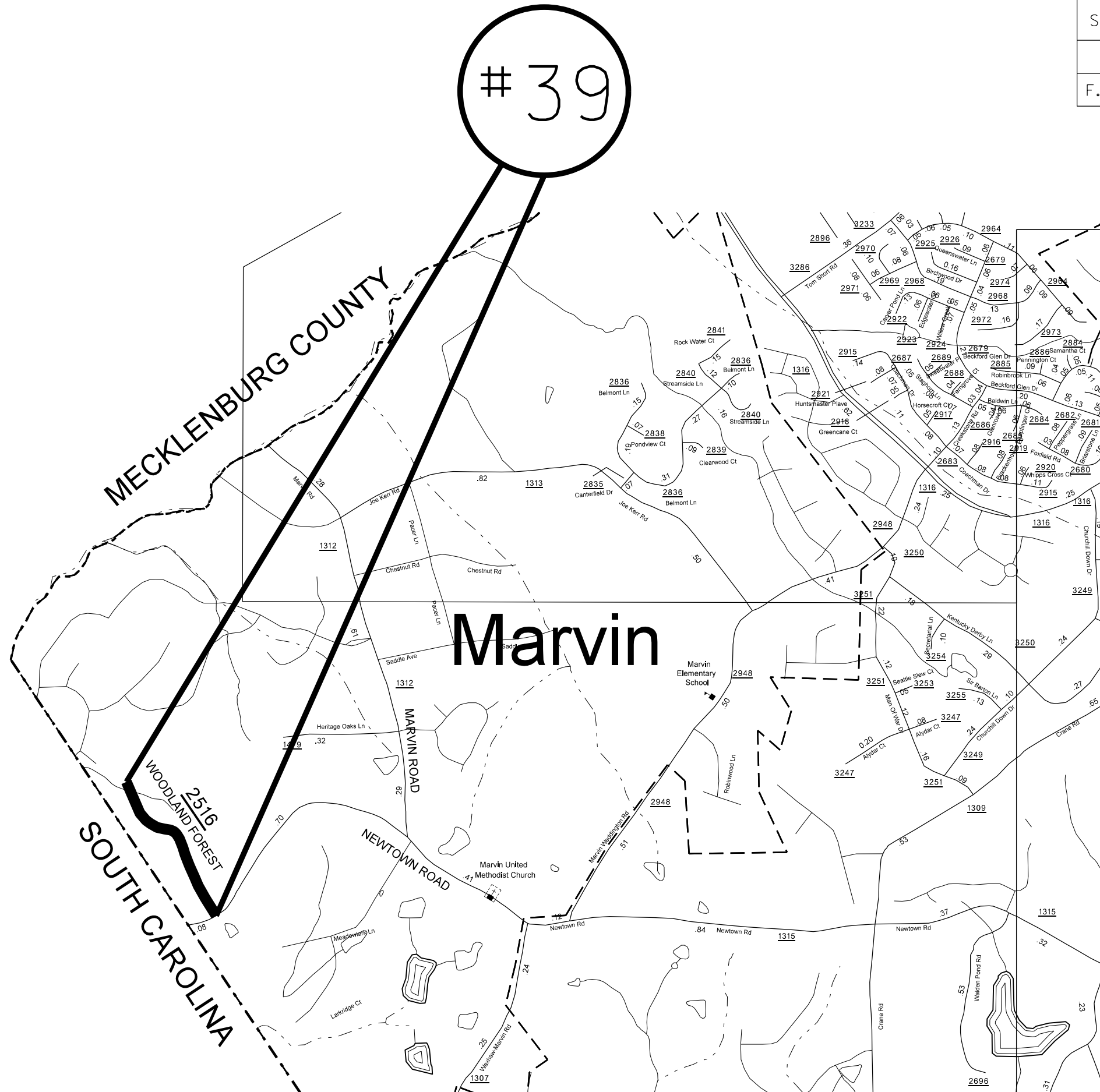
- MAP #4 SR 2555 LINDEN COURT
0.32 MILES
FROM SR 1485 LAURELWOOD LANE
TO END OF MAINTENANCE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901 - ETC. 2017CPT.10.07.20901.7	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 #39 SR 2516 WOODLAND FOREST
0.48 MILES
FROM SR 1315 NEWTOWN ROAD
TO END OF MAINTENANCE



#27-29

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I - ETC. 2017CPT.I0.07.2090I.7	6	
F.A. PROJECT NO.			



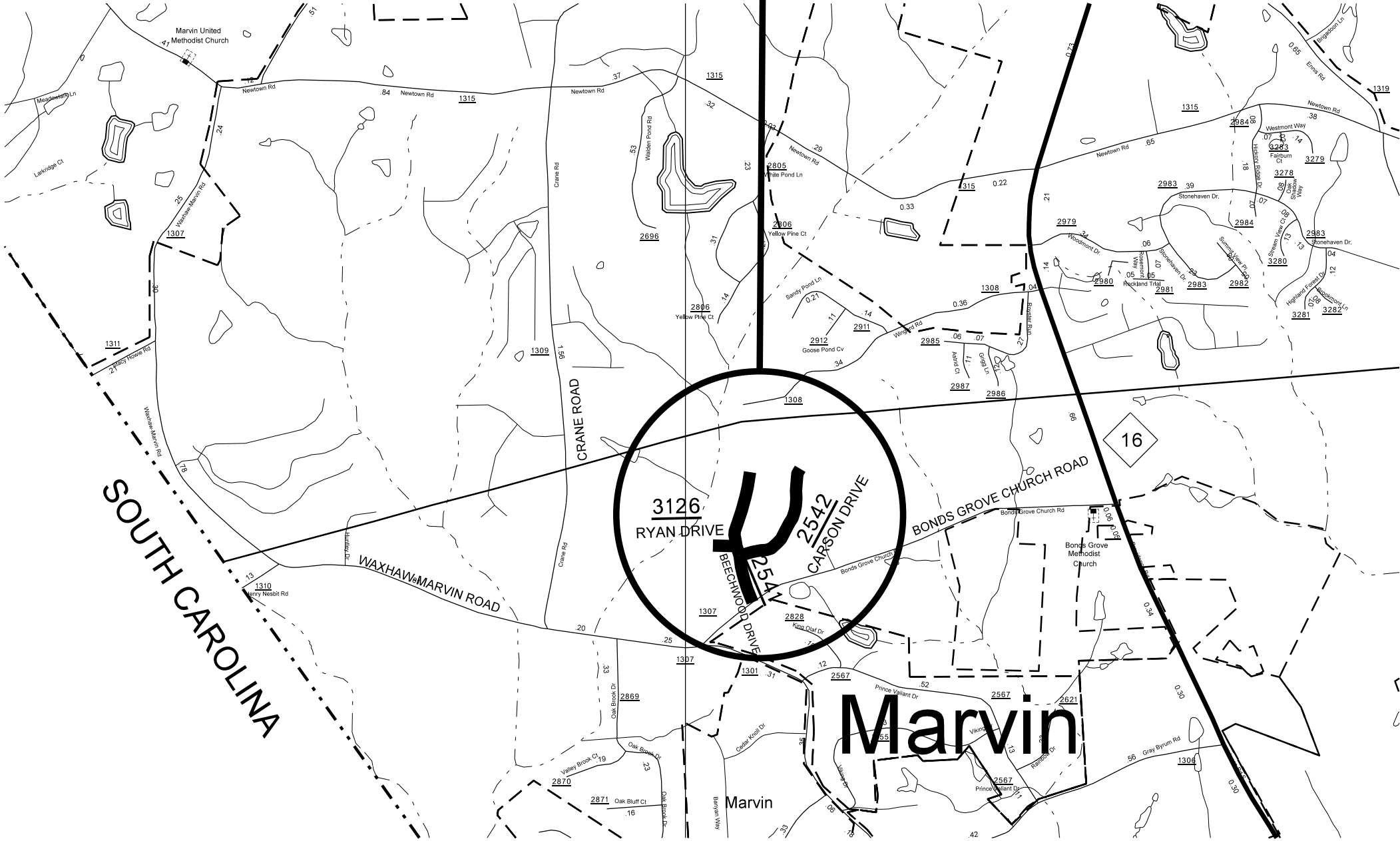
ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA

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

MAP #27 SR 2541 BEECHWOOD DRIVE
 0.39 MILES
 FROM SR 1307 BONDS GROVE CHURCH ROAD
 TO END OF MAINTENANCE

MAP #28 SR 3126 RYAN DRIVE
 0.08 MILES
 FROM SR 2541 BEECHWOOD DRIVE
 TO END OF MAINTENANCE

MAP #29 SR 2542 CARSON DRIVE
 0.36 MILES
 FROM SR 2541 BEECHWOOD DRIVE
 TO END OF MAINTENANCE



Marvin

SOUTH CAROLINA

WAXHAW-MARVIN ROAD

CRANE ROAD

BONDS GROVE CHURCH ROAD

3126 RYAN DRIVE

2541 BEECHWOOD DRIVE

2542 CARSON DRIVE

16

#9

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



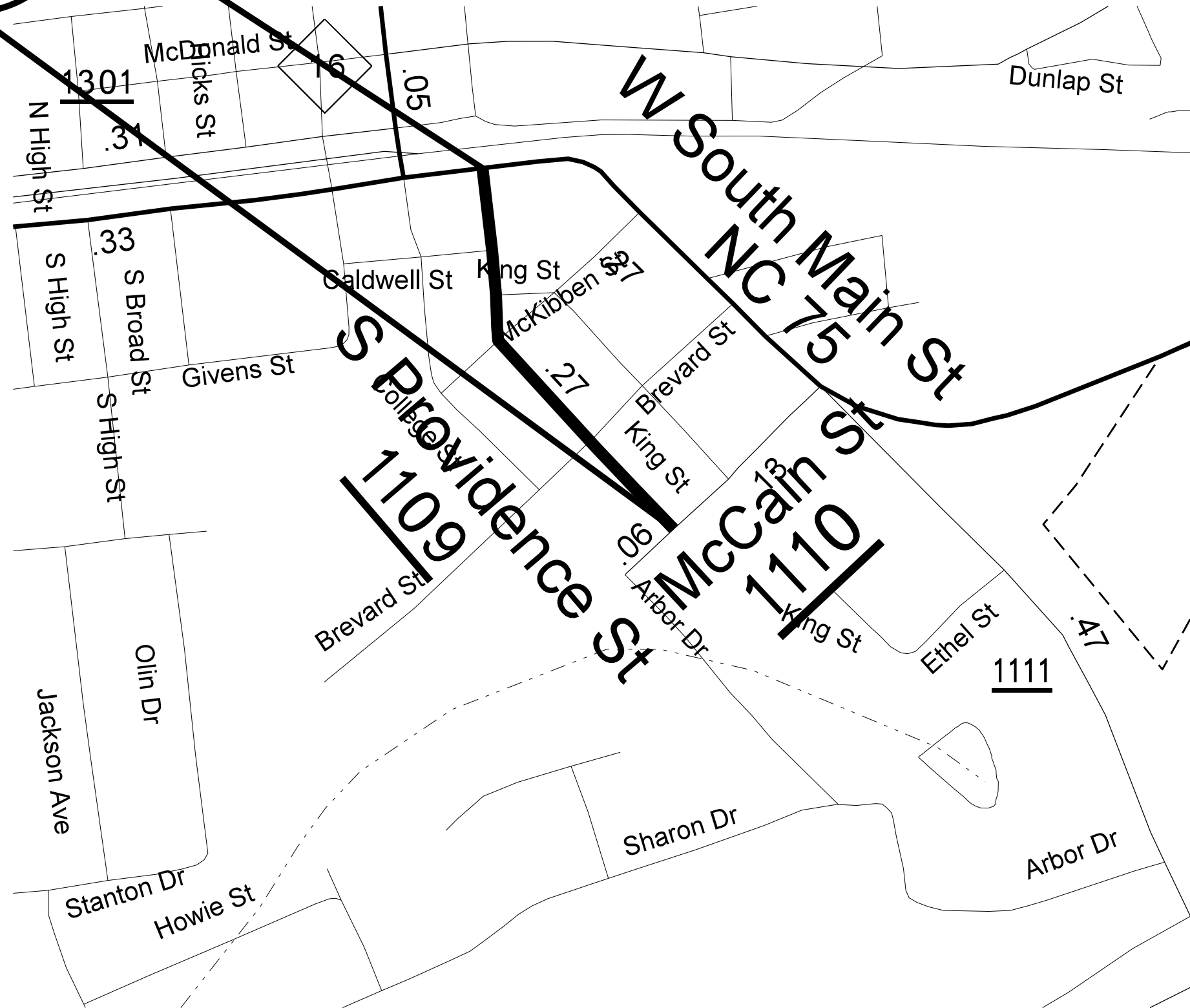
ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

NORTH CAROLINA

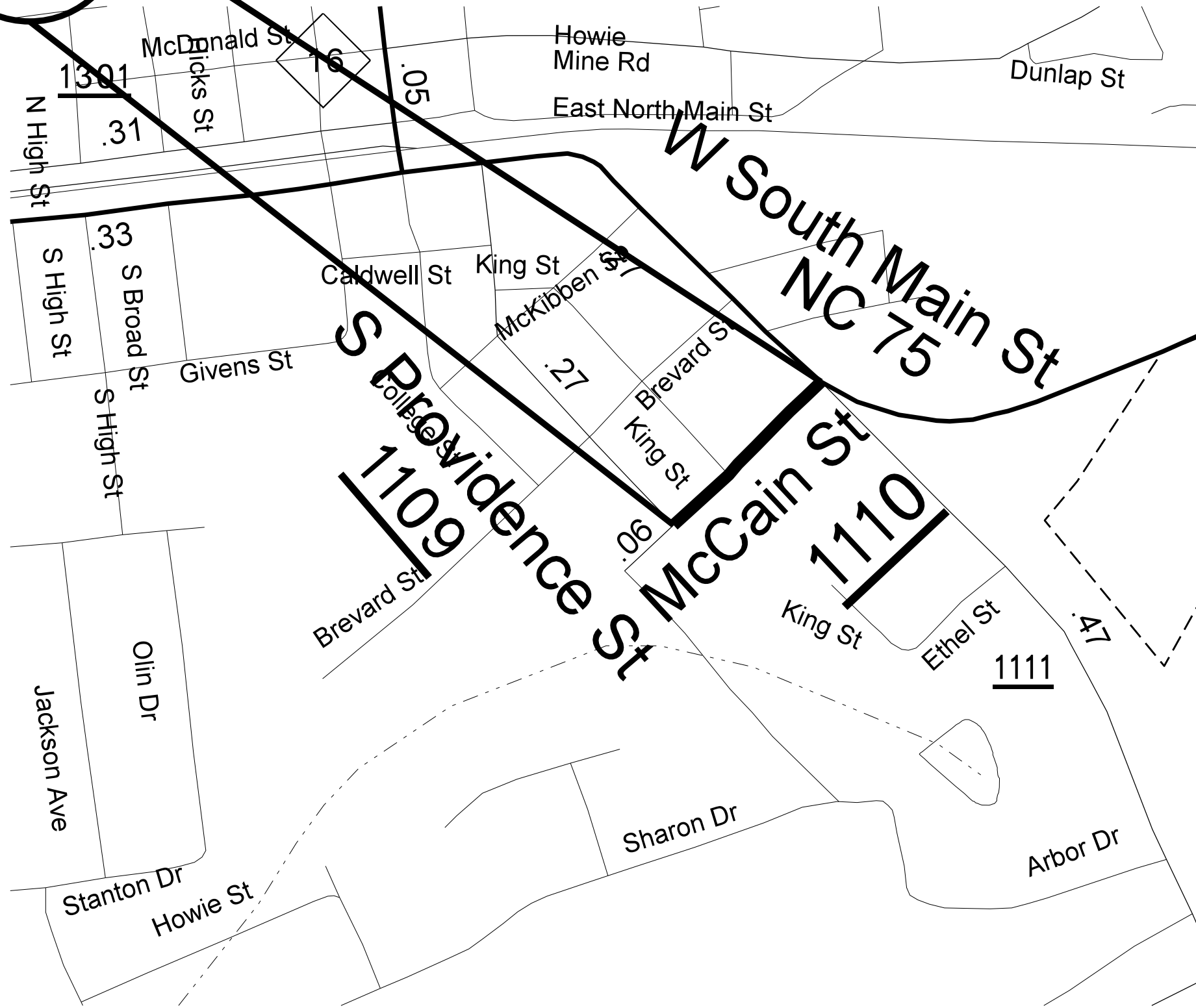
PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #9 SR 1109 S PROVIDENCE ST
0.28 MILES
FROM NC 75
TO SR 1110 McCAIN ST



10

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901 - ETC. 2017CPT.10.07.20901.7	8	
F.A. PROJECT NO.			



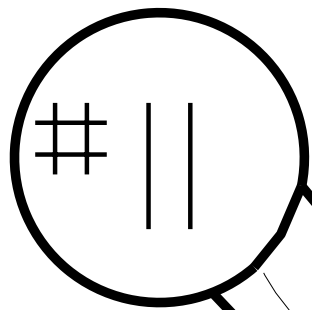
ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

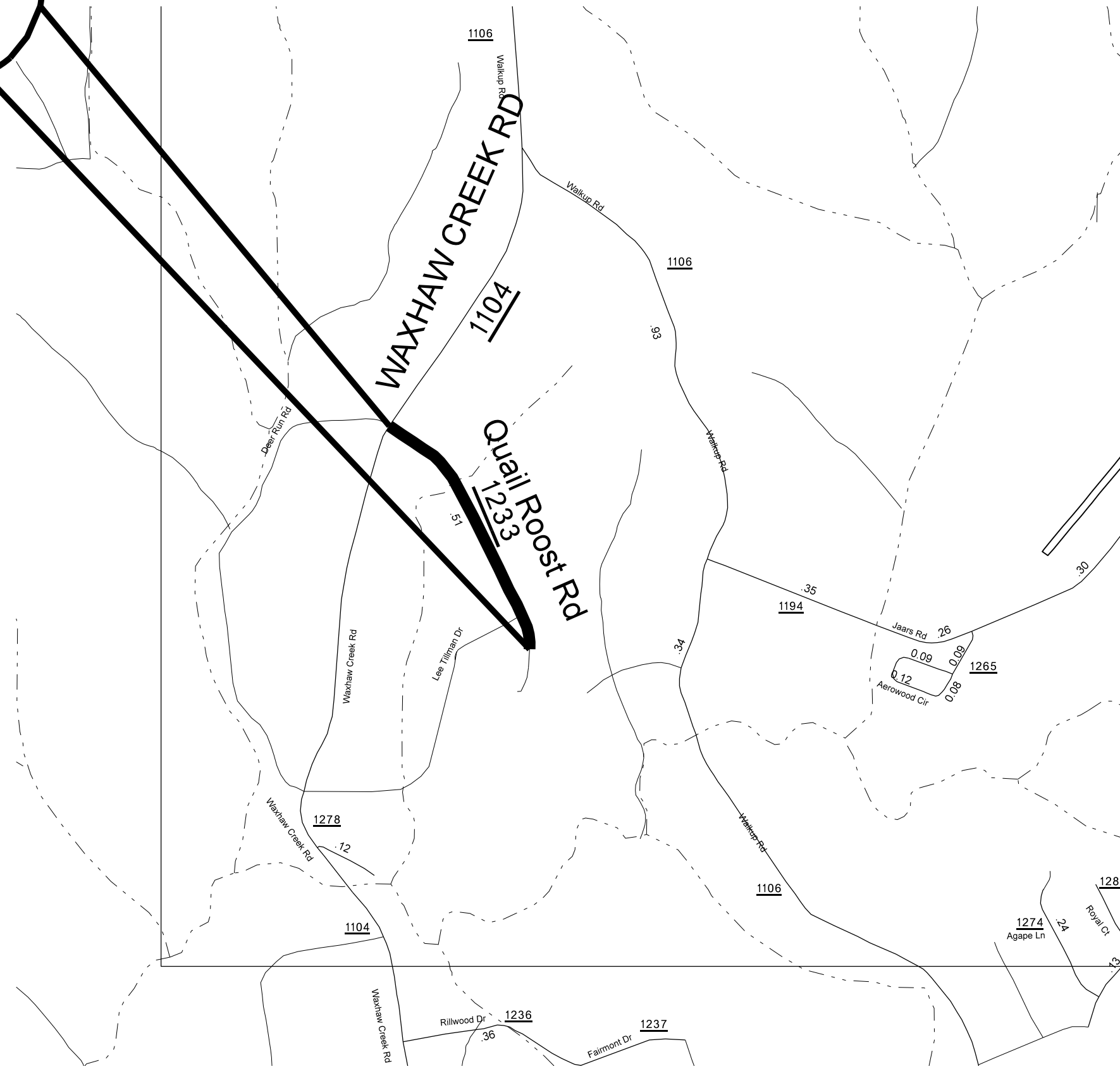
NORTH CAROLINA

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

MAP #10 SR 1110 McCAIN ST
0.17 MILES
FROM NC 75
TO EOM



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901 - ETC. 2017CPT.10.07.20901.7	9	
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 #11 SR 1233 QUAIL ROOST DRIVE
0.50 MILES
FROM SR 1104 WAXHAW CREEK RD
TO END OF MAINTENANCE

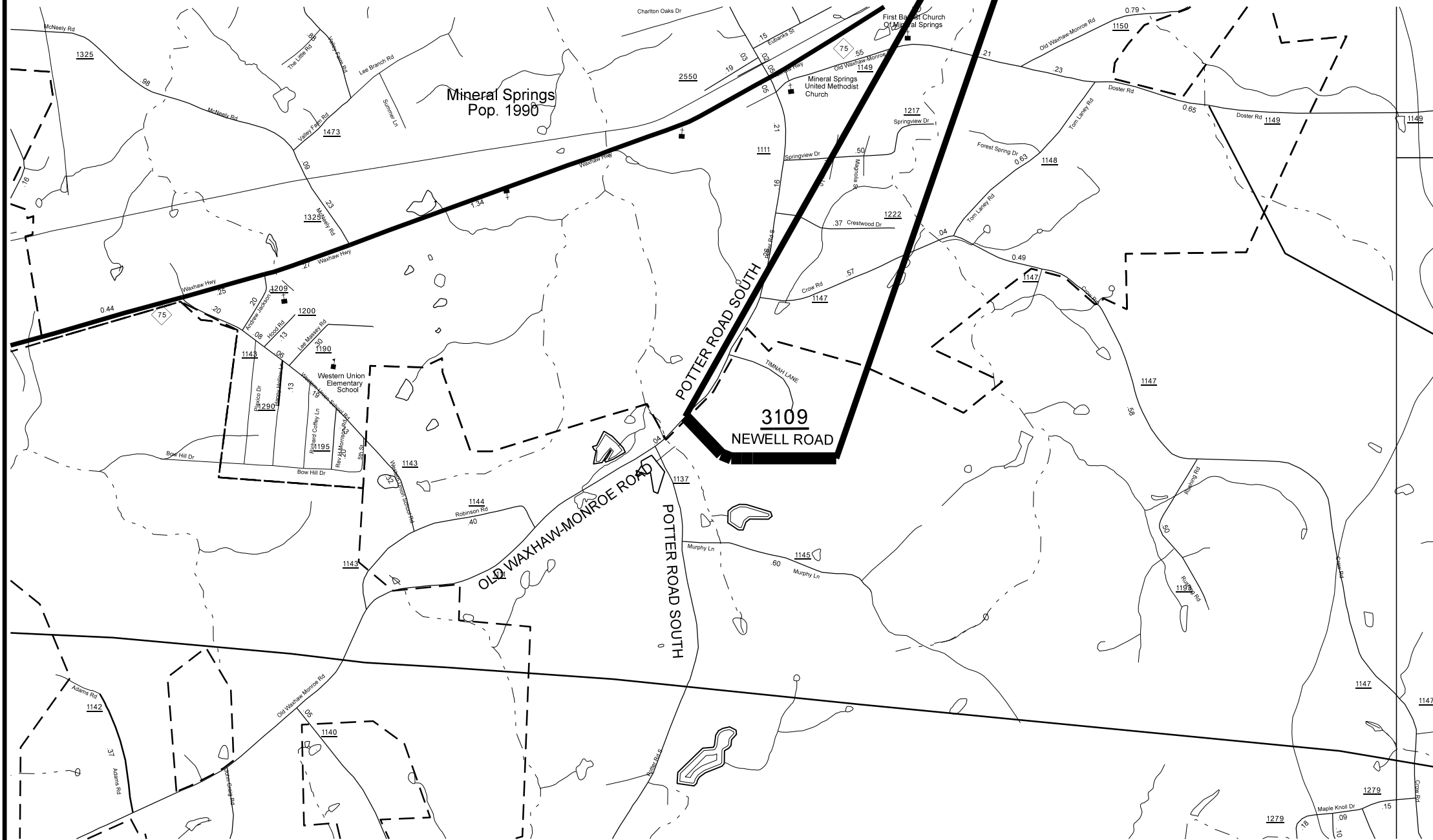
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901 - ETC. 2017CPT.10.07.20901.7	10	
F.A. PROJECT NO.			

#12



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

MAP #12 SR 3109 NEWELL DRIVE
0.48 MILES
FROM SR 1111 POTTER ROAD SOUTH
TO END OF MAINTENANCE



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I - ETC. 2017CPT.I0.07.2090I.7		
F.A. PROJECT NO.			

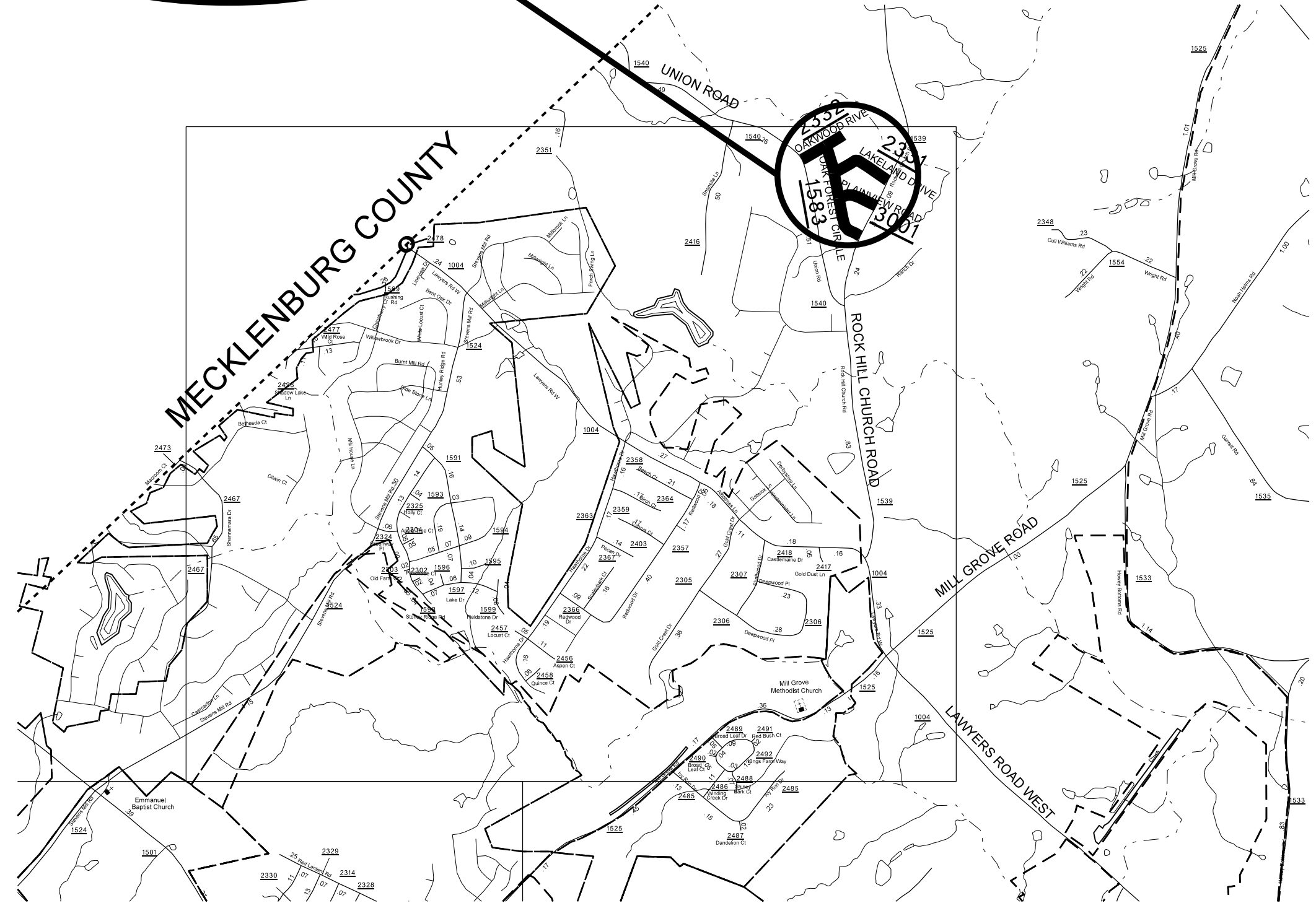
#13-16



ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA

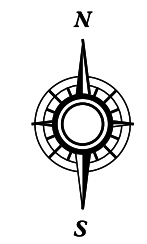
PREPARED BY THE
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- MAP #13 SR 1583 OAK FOREST CIRCLE
0.33 MILES
FROM SR 2332 OAKWOOD DRIVE
TO SR 1539 ROCK HILL CHURCH ROAD
- MAP #14 SR 2331 LAKELAND DRIVE
0.20 MILES
SR 1583 OAK FOREST CIRCLE
TO SR 1539 ROCK HILL CHURCH ROAD
- MAP #15 SR 2332 OAKWOOD DRIVE
0.16 MILES
FROM SR 1540 UNION ROAD
TO END OF MAINTENANCE
- MAP #16 SR SR 3001 PLAINVIEW DRIVE
0.12 MILES
FROM SR 1583 OAK FOREST CIRCLE
TO SR 1539 ROCK HILL CHURCH ROAD



#17-19

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I - ETC. 2017CPT.I0.07.2090I.7	12	
F.A. PROJECT NO.			



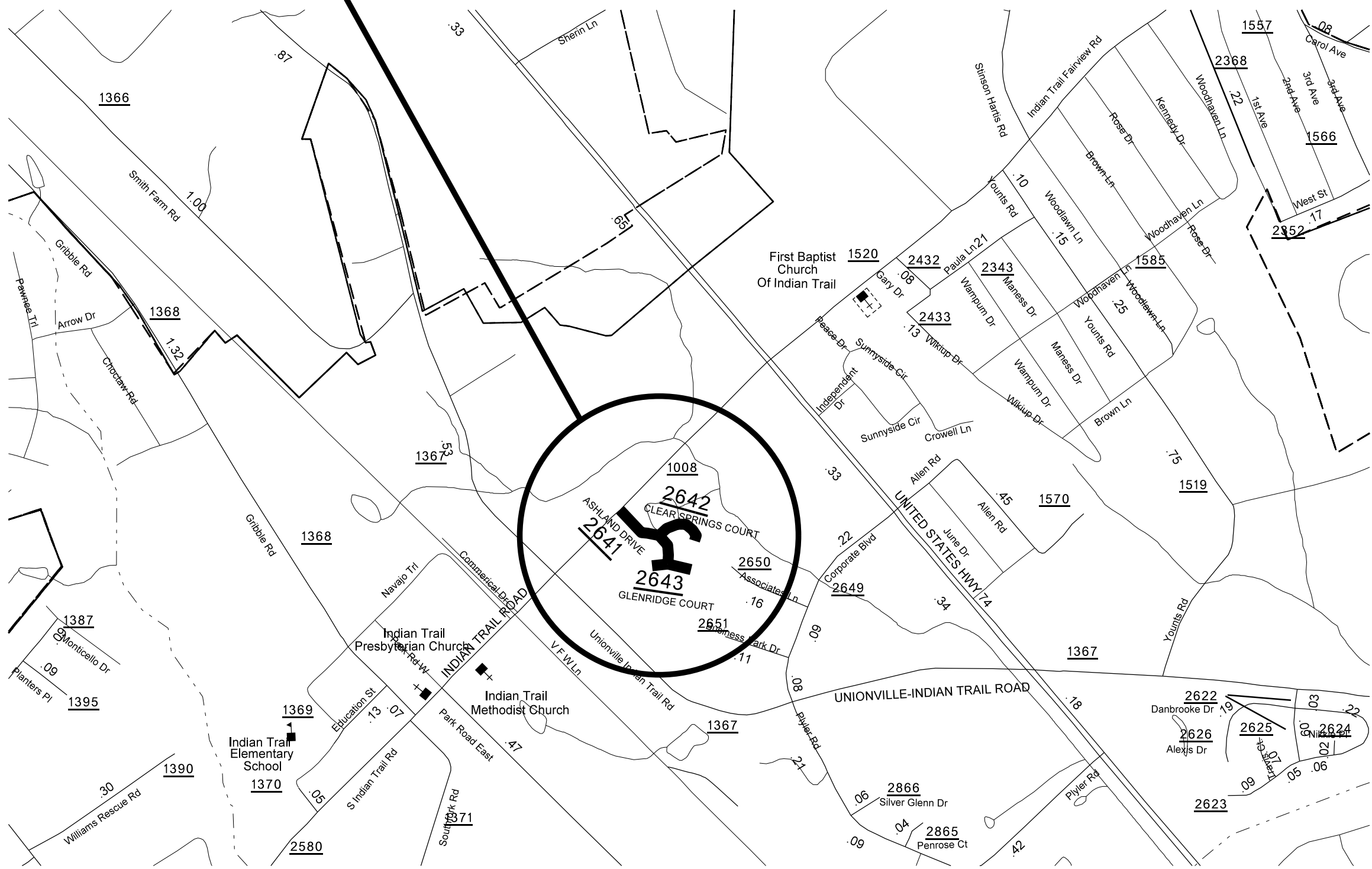
ENLARGED MUNICIPAL AND SUBURBAN AREAS
UNION COUNTY
 NORTH CAROLINA

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

MAP #17 SR 2641 ASHLAND DRIVE
 0.14 MILES
 FROM SR 1008 INDIAN TRAIL ROAD
 TO END OF MAINTENANCE

MAP #18 SR SR 2642 CLEAR SPRINGS COURT
 0.09 MILES
 FROM SR 2641 ASHLAND DRIVE
 TO END OF MAINTENANCE

MAP #19 SR SR 2643 GLENRIDGE COURT
 0.07 MILES
 FROM END OF MAINTENANCE
 TO END OF MAINTENANCE



#20-21

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I - ETC. 2017CPT.I0.07.2090I.7	13	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

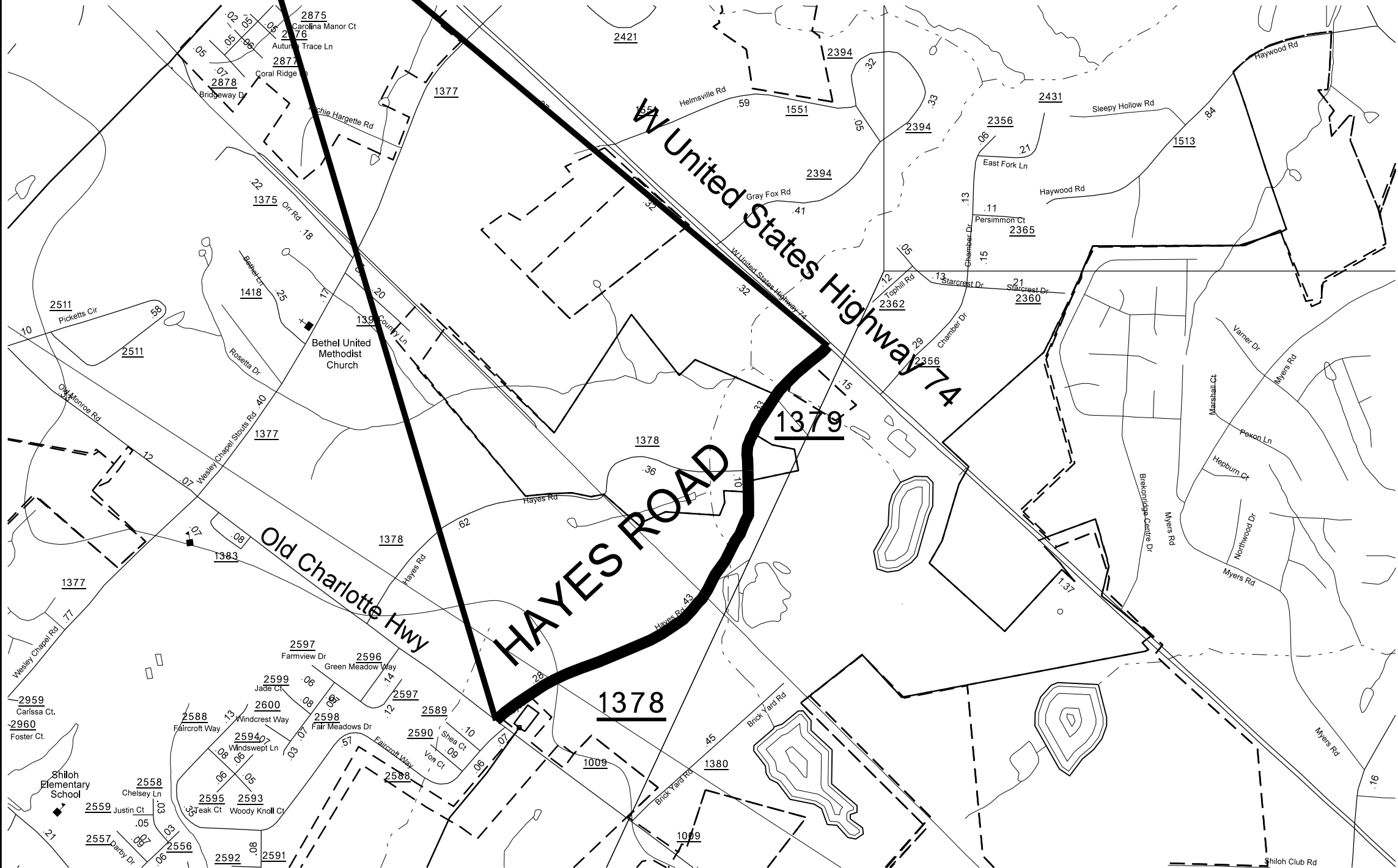
UNION COUNTY

NORTH CAROLINA

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

MAP #20 SR 1378 HAYES ROAD
0.80 MILES
FROM SR 1379 HAYES ROAD
TO SR 1009 OLD CHARLOTTE HWY

MAP #21 SR 1379 HAYES ROAD
0.34 MILES
FROM US 74
TO SR 1378 HAYES ROAD

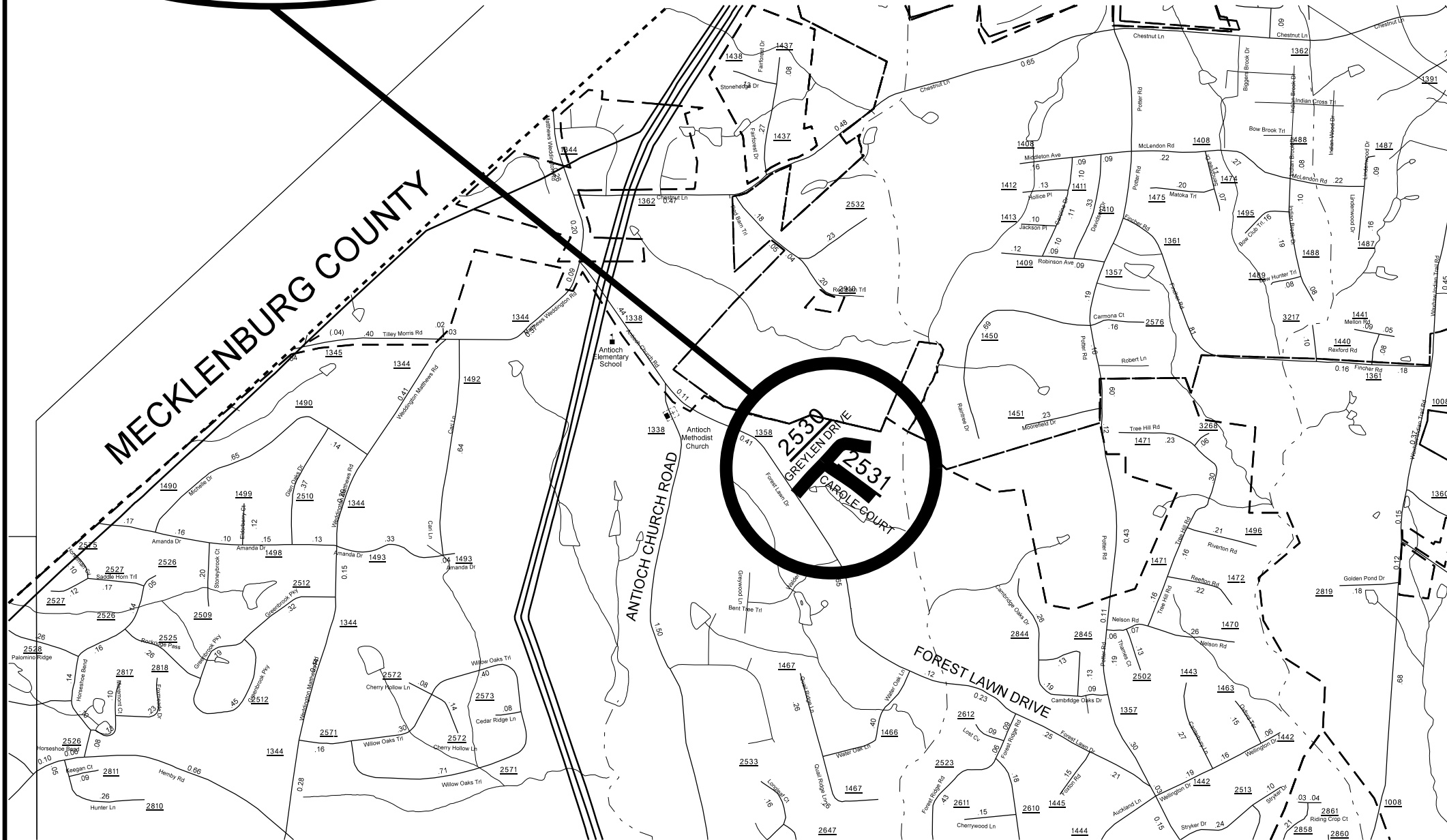


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I - ETC. 2017CPT.I0.07.2090I.7	14	
F.A. PROJECT NO.			

#22-23



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



MAP #22 SR 2530 GREYLEN DRIVE
 0.28 MILES
 FROMS SR 1358 FOREST LAWN DRIVE
 TO END OF MAINTNANCE

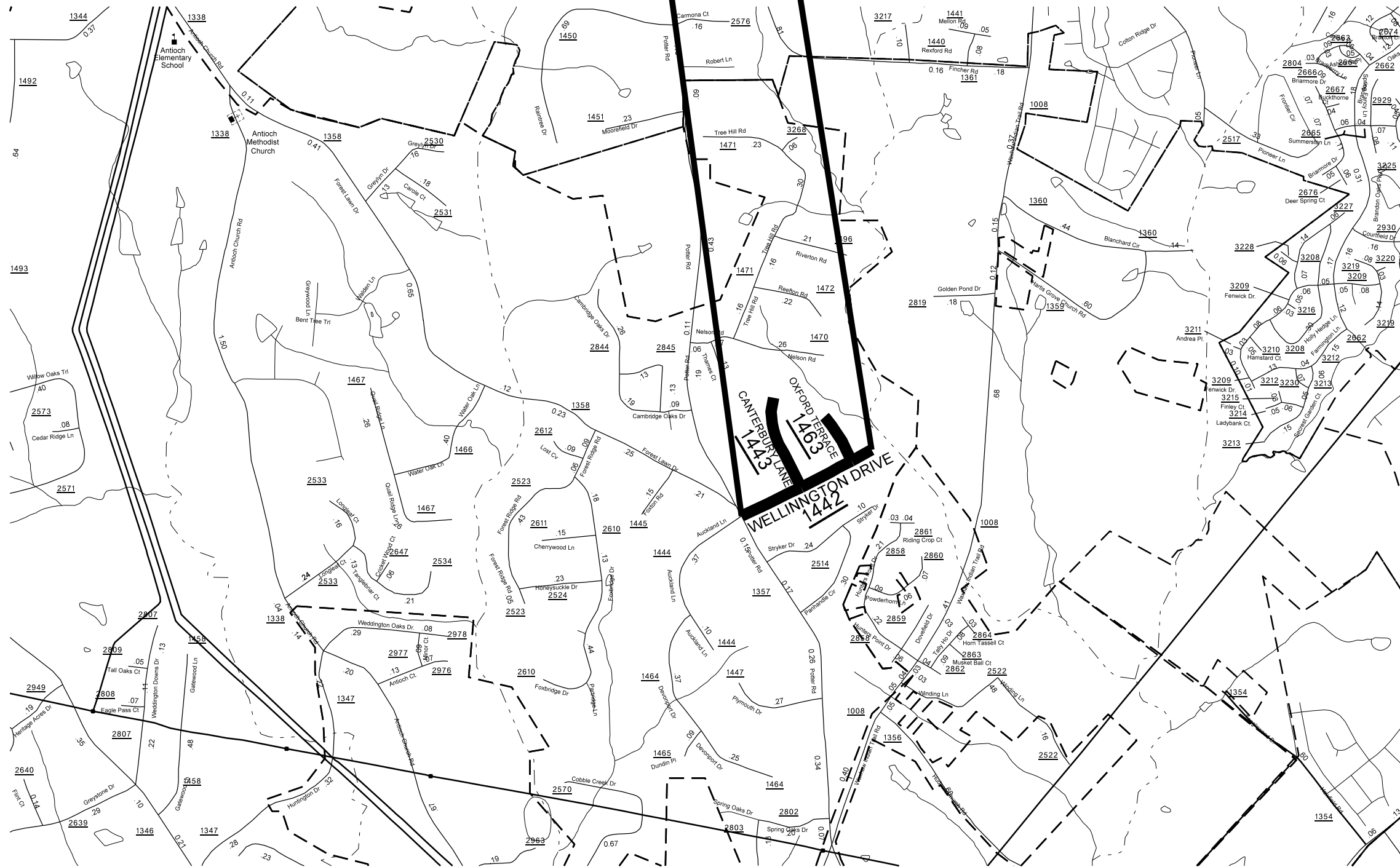
MAP #23 SR 2531 CAROLE COURT
 0.17 MILES
 FROM SR 2530 GREYLYN DRIVE
 TO END OF MAINTNANCE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.20901 - ETC. 2017CPT.I0.07.20901.7	15	
F.A. PROJECT NO.			

#24-26



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



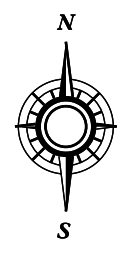
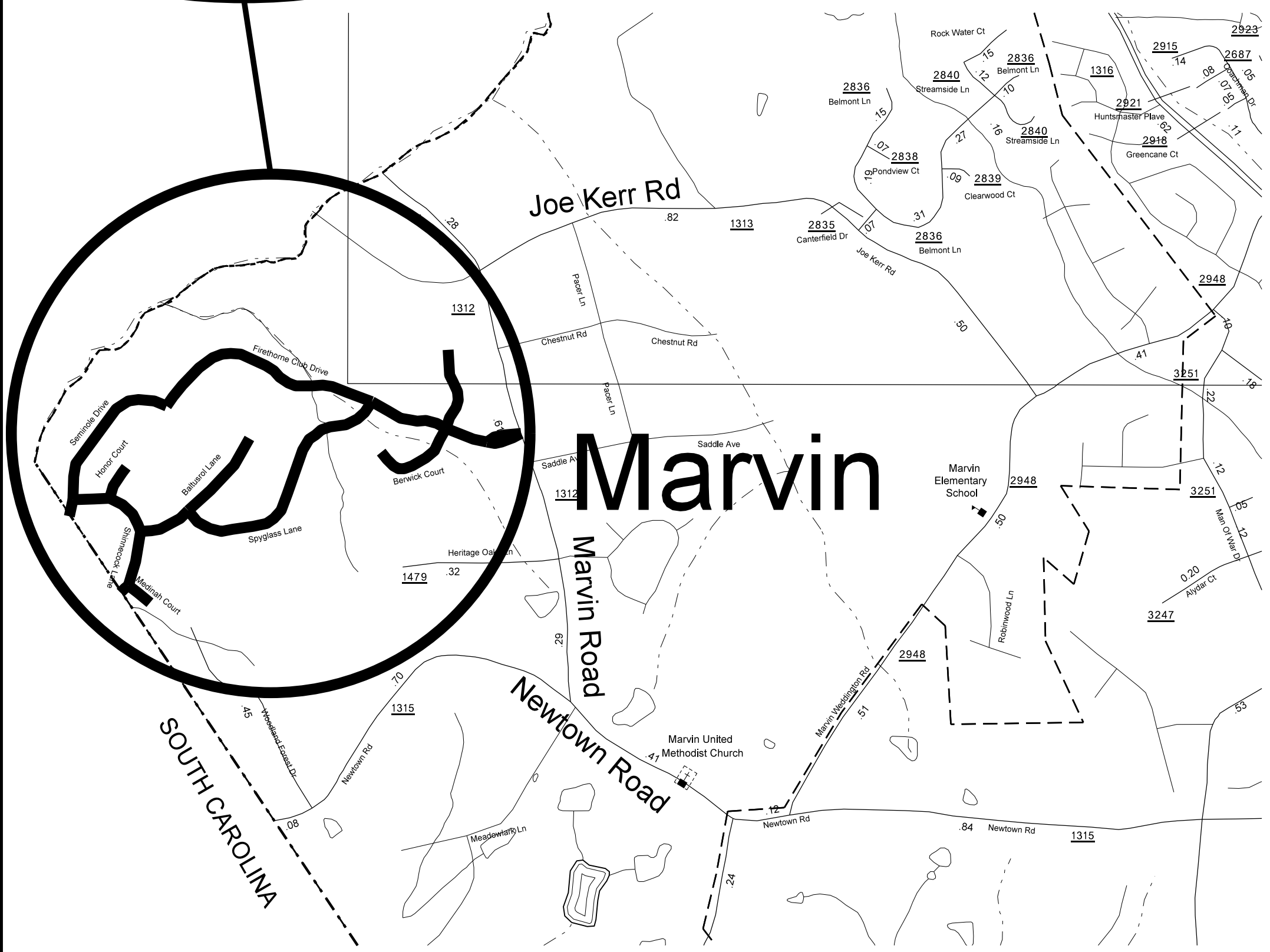
MAP #24 SR 1442 WELLINGTON DRIVE
 0.41 MILES
 FROM SR 1357 POTTER ROAD
 TO END OF MAINTENANCE

MAP #25 SR 1443 CANTEBURY LANE
 0.27 MILES
 FROM SR 1442 WELLINGTON DRIVE
 TO END OF MAINTENANCE

MAP #26 SR 1463 OXFORD TERRACE
 0.13 MILES
 FROM SR 1442 WELLINGTON DRIVE
 TO END OF MAINTENANCE

#30-37

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901 - ETC. 2017CPT.10.07.20901.7	16	
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 #30 SR 3198 BERWICK COURT
 (0.36 MILES)
 FROM SR 3194 FIRETHORNE CLUB DRIVE
 TO CUL DE SAC

MAP #31 SR 3196 SEMINOLE DRIVE
 (0.36 MILES)
 FROM SR 3194 FIRETHORNE CLUB DRIVE
 TO SOUTH CAROLINA STATE LINE

MAP #32 SR 3199 SHINNECOCK LANE
 (0.30 MILES)
 FROM SR 3196 SEMINOLE DRIVE TO
 SOUTH CAROLINA STATE LINE

MAP #33 SR 3194 FIRETHORNE CLUB DRIVE
 (0.84 MILES)
 FROM SR 1312 MARVIN ROAD TO
 CUL DE SAC

MAP # 34 SR 3638 MEDINAH COURT
 (0.06 MILES)
 FROM SR 3199 SHINNECOCK LANE TO
 CUL DE SAC

MAP #35 SR 3195 SPYGLASS LANE
 (0.51 MILES)
 FROM SR 3194 FIRETHORNE CLUB DRIVE TO
 SR 3197 BALTUSROL LANE

MAP #36 SR 3637 HONOR COURT
 (0.085 MILES)
 FROM SR 3199 SHINNECOCK LANE TO
 CUL DE SAC

MAP #37 SR 3197 BALTUSROL LANE
 (0.31 MILES)
 FROM SR 3199 SHINNECOCK LANE TO
 CUL DE SAC

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901 - ETC. 2017CPT.10.07.20901.7	17	
F.A. PROJECT NO.			

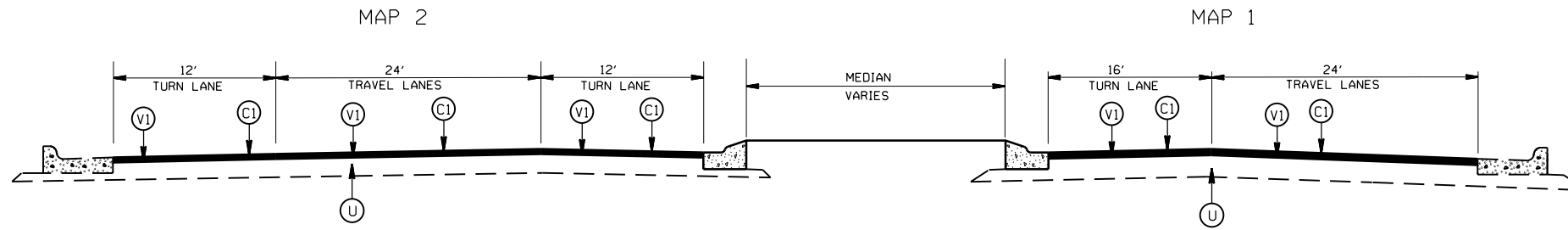
40



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

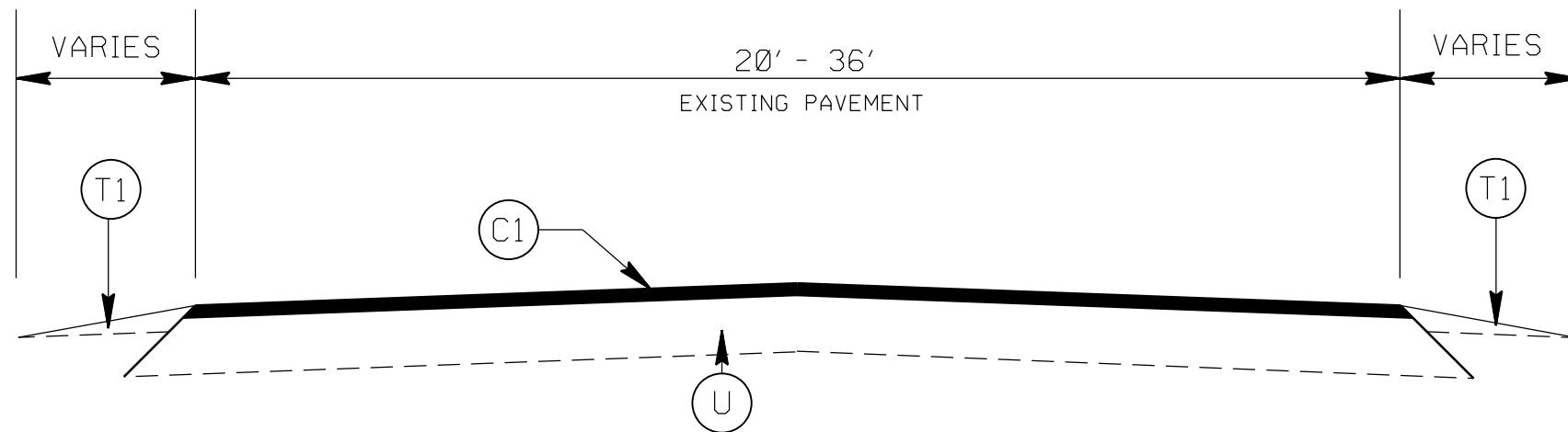
MAP #40 SR 2100 EAST FRANKLIN STREET
 (1.5 MILES)
 FROM 5 POINTS INTERSECTION TO US 74

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	18	
F.A. PROJECT NO.			




TYPICAL SECTION NO. 1
 SR 1316 REA ROAD (MAP 5)
 SR 1316 REA ROAD (MAP 6)
 *SEE NOTE 1

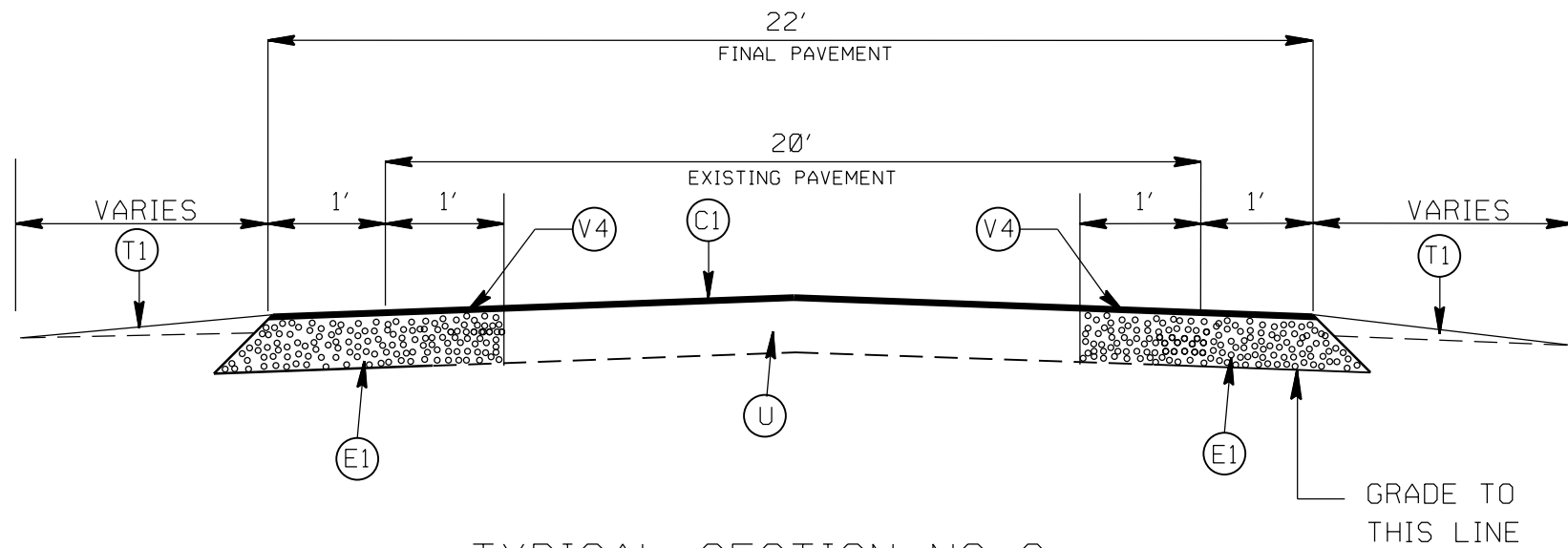
PAVEMENT SCHEDULE	
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT



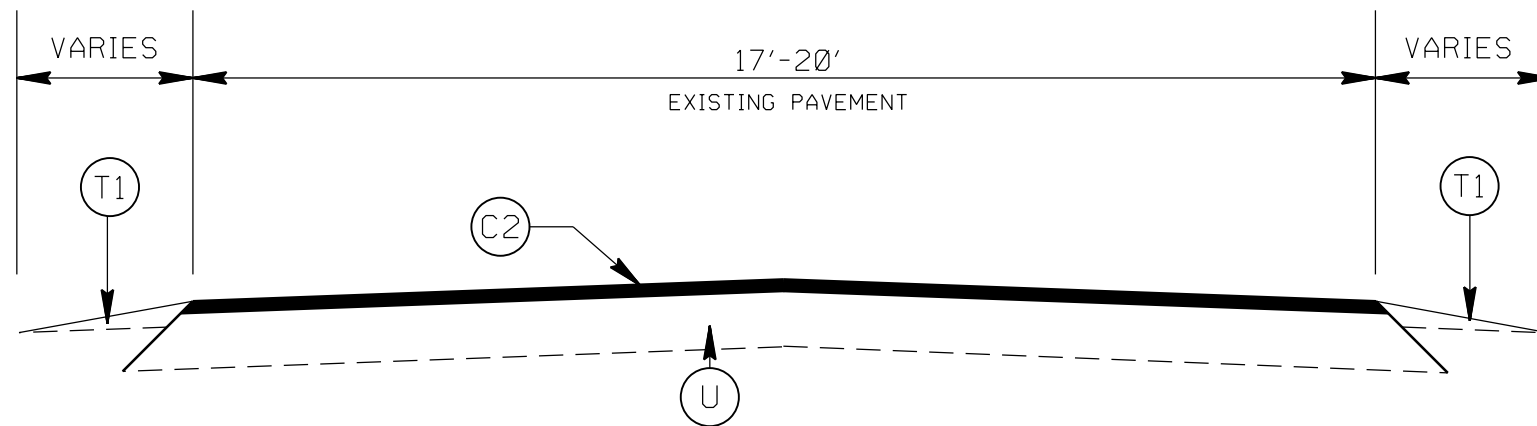
TYPICAL SECTION NO. 2
 SR 1309 CRANE ROAD (MAP 7)
 SR 1315 NEWTOWN ROAD (MAP 8)
 SR 1378 HAYES ROAD (MAP 20)
 SR 1379 HAYES (MAP 21)
 * SEE NOTE 3

2019-2020 UNION COUNTY RESURFACING		
SCALE	-NA-	
DATE	07/18	
DWG. BY	AMO	
DESIGN BY	AMO	
APPROVED	CLA	
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	19	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 3
 SR 1309 CRANE ROAD (MAP 7)
 APPROX. STA. 10+00 - STA. 19+75
 APPROX. STA. 32+50 - END OF PROJECT



TYPICAL SECTION NO. 4
 SR 1479 HERITAGE OAK LANE (MAP 38)
 SR 1583 OAK FOREST CIRCLE (MAP 13)
 SR 2331 LAKELAND DRIVE (MAP 14)
 SR 2332 OAKWOOD DRIVE (MAP 15)
 SR 3001 PLAINVIEW DRIVE (MAP 16)

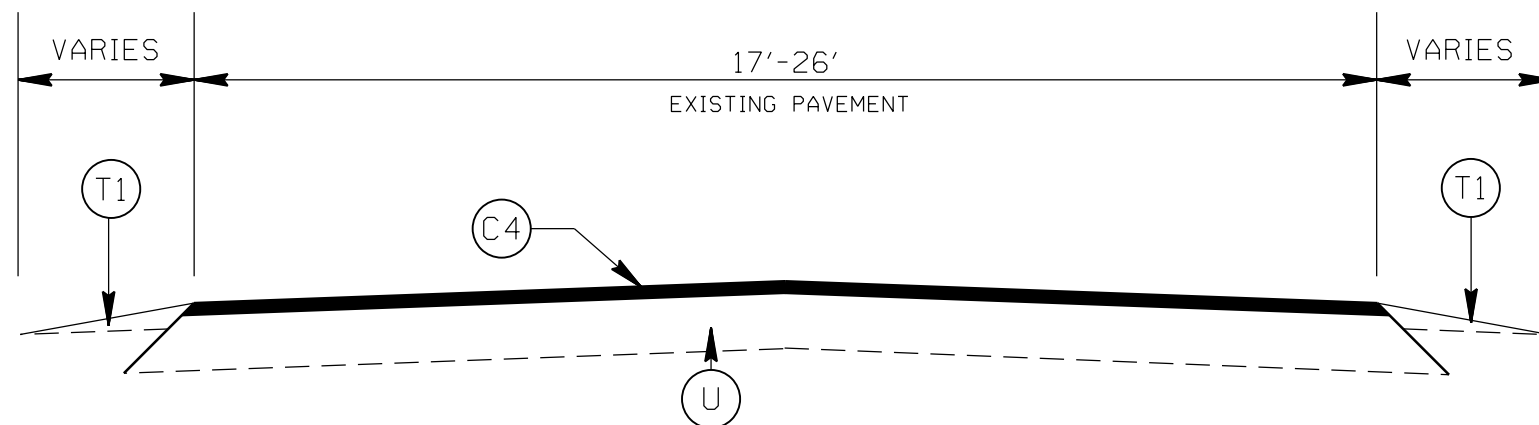
PAVEMENT SCHEDULE

(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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

2019-2020
 UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS	
DATE	07/18			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I.I - ETC. 2017CPT.I0.07.2090I.7	20	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 5
 SR 1485 LAURELWOOD LANE (MAP 1)
 SR 2541 BEECHWOOD DRIVE (MAP 27)
 SR 3126 RYAN DRIVE (MAP 28)
 SR 2542 CARSON DRIVE (MAP 29)
 SR 1109 SOUTH PROVIDENCE STREET (MAP 9)
 APPROX. STA: 12+30 TO 14+25, STA: 18+30 TO 20+15
 SR 1110 MCCAIN STREET (MAP 10)
 APPROX. STA. 10+00 TO 17+00
 SR 1233 QUAIL ROOST DRIVE (MAP 11)
 SR 3109 NEWELL DRIVE (MAP 12)

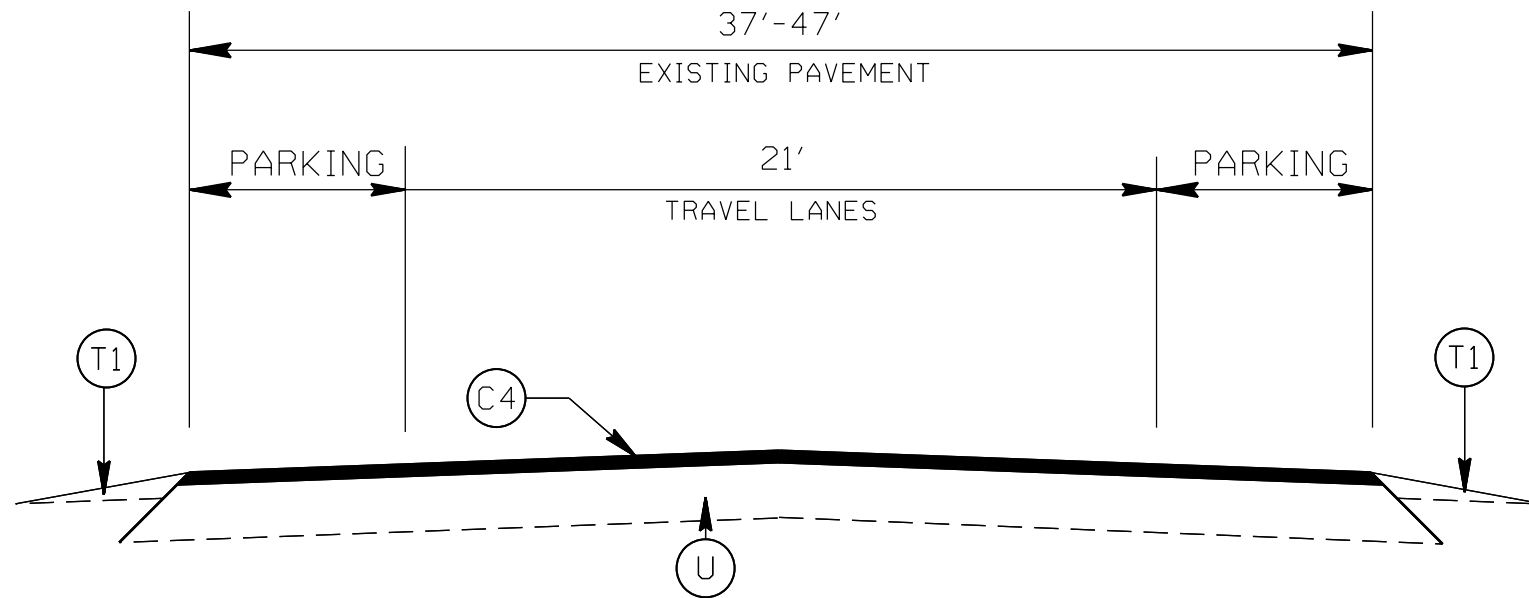
PAVEMENT SCHEDULE

(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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, Ø - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, Ø - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

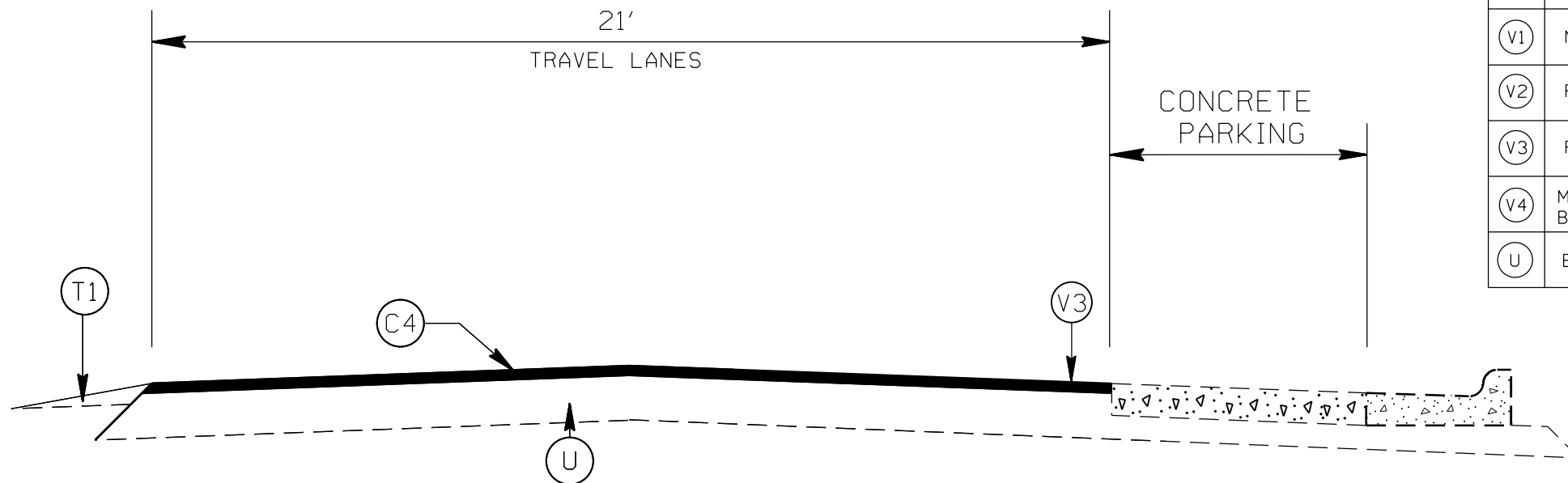
2019-2020
 UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	07/18		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I.I - ETC. 2017CPT.I0.07.2090I.7	21	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 6
SR 1109 SOUTH PROVIDENCE STREET (MAP 9)
APPROX. STA. 10+00 TO STA. 11+55



TYPICAL SECTION NO. 7
SR 1109 SOUTH PROVIDENCE STREET (MAP 9)
APPROX. STA. 11+55 TO STA. 12+30

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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

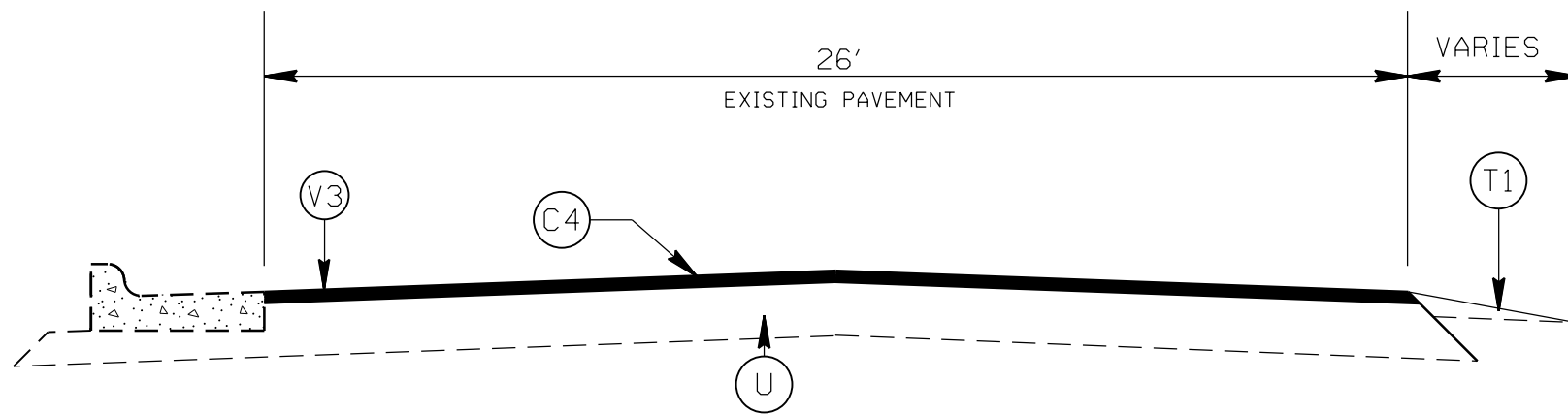
2019-2020
UNION COUNTY RESURFACING

SCALE -NA-
DATE 07/18
DWG. BY AMO
DESIGN BY AMO
APPROVED CLA

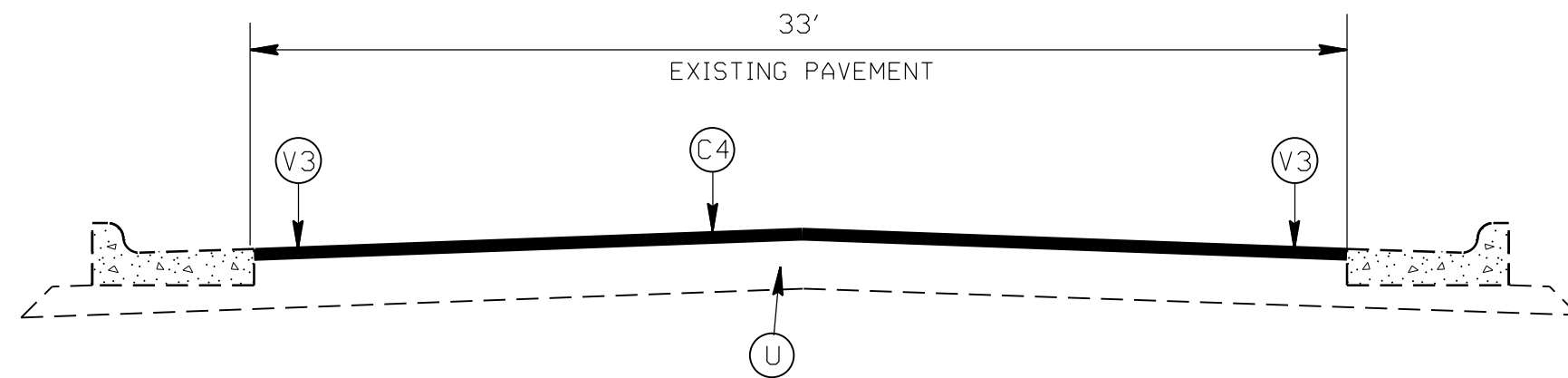


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	22	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 8
SR 1109 SOUTH PROVIDENCE STREET (MAP 9)
APPROX. STA. 14+25 TO STA. 18+30



TYPICAL SECTION NO. 9
SR 1109 SOUTH PROVIDENCE STREET (MAP 9)
APPROX. STA. 20+15 TO STA. 21+80

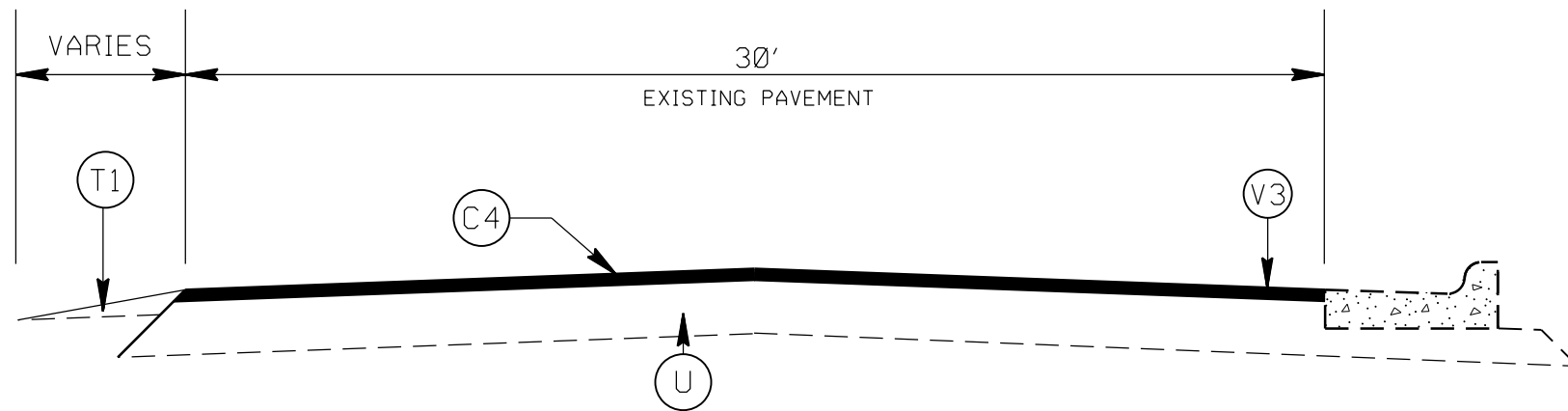
PAVEMENT SCHEDULE

(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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

2019-2020
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS	
DATE	07/18			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

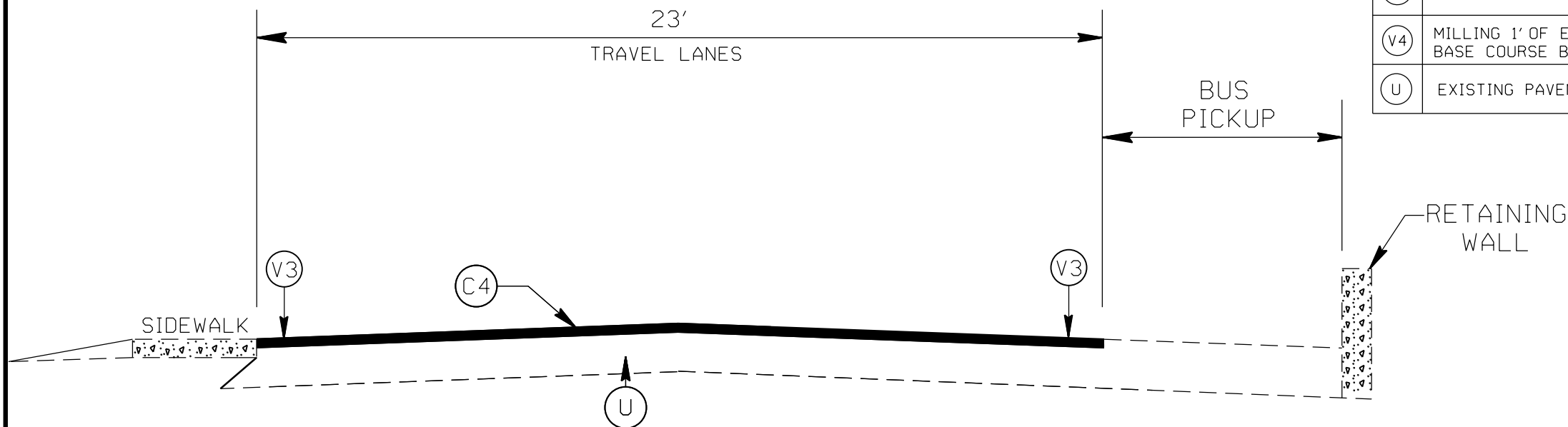
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.I0.I0.2090I.I - ETC. 2017CPT.I0.07.2090I.7	23	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 10
SR 1109 SOUTH PROVIDENCE STREET (MAP 9)
APPROX. STA. 21+80 TO STA. 23+80

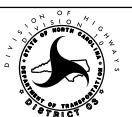
PAVEMENT SCHEDULE

(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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

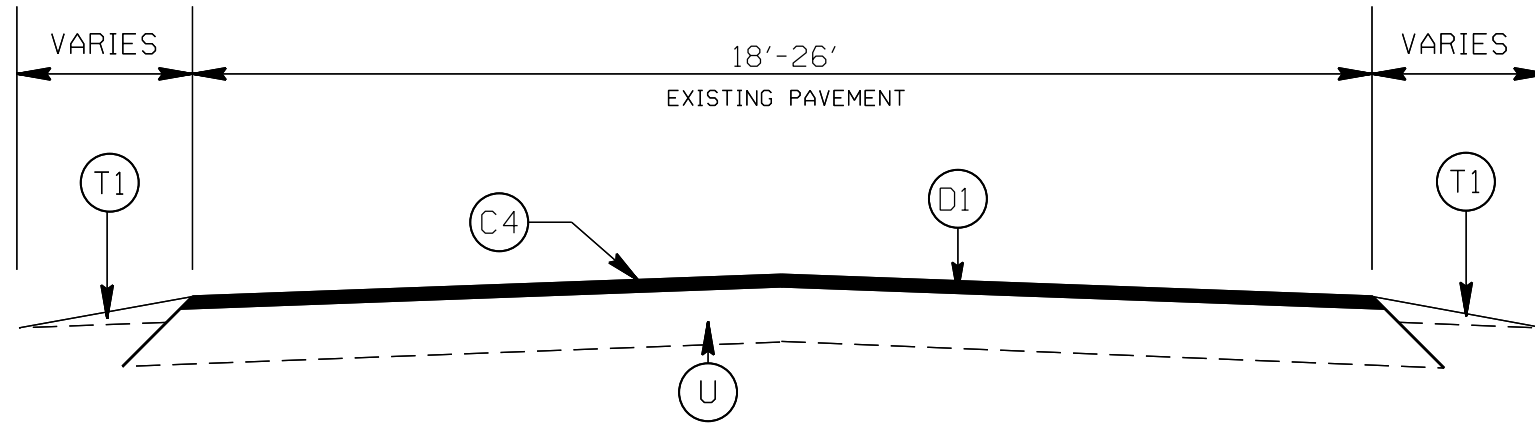


TYPICAL SECTION NO. 11
SR 1110 MCCAIN STREET (MAP 10)
APPROX. STA. 17+00 TO STA. 19+20

2019-2020
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	07/18		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	24	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 12
 SR 1486 BANYAN WAY (MAP 2)
 SR 2516 WOODLAND FOREST (MAP 39)
 SR 2530 GREYLYN DRIVE (MAP 22)
 *SEE NOTE 4
 SR 2531 CAROLE COURT (MAP 23)
 SR 1442 WELLINGTON DRIVE (MAP 24)
 SR 1443 CANTERBURY LANE (MAP 25)
 SR 1463 OXFORD TERRACE (MAP 26)

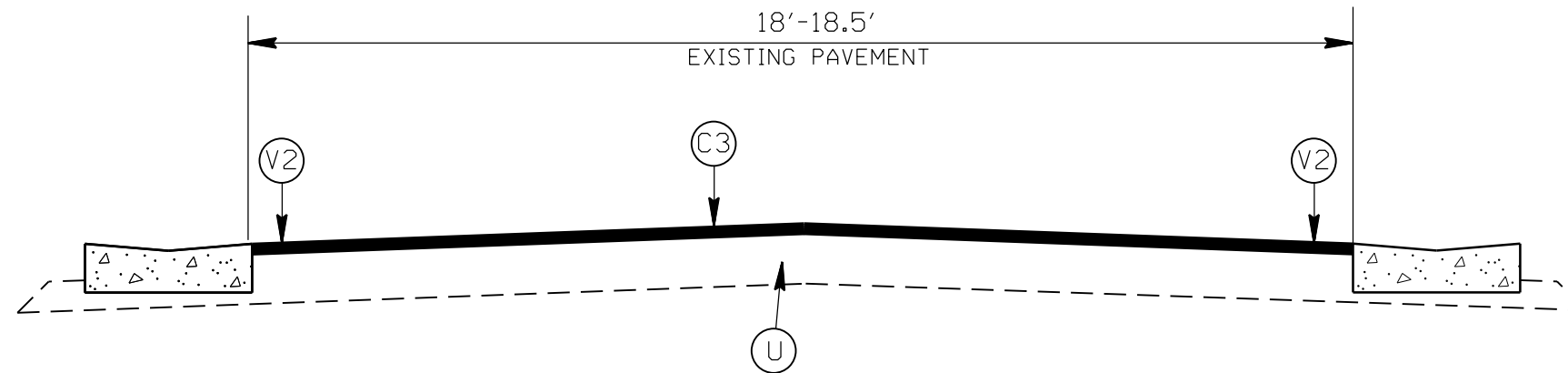
PAVEMENT SCHEDULE

(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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

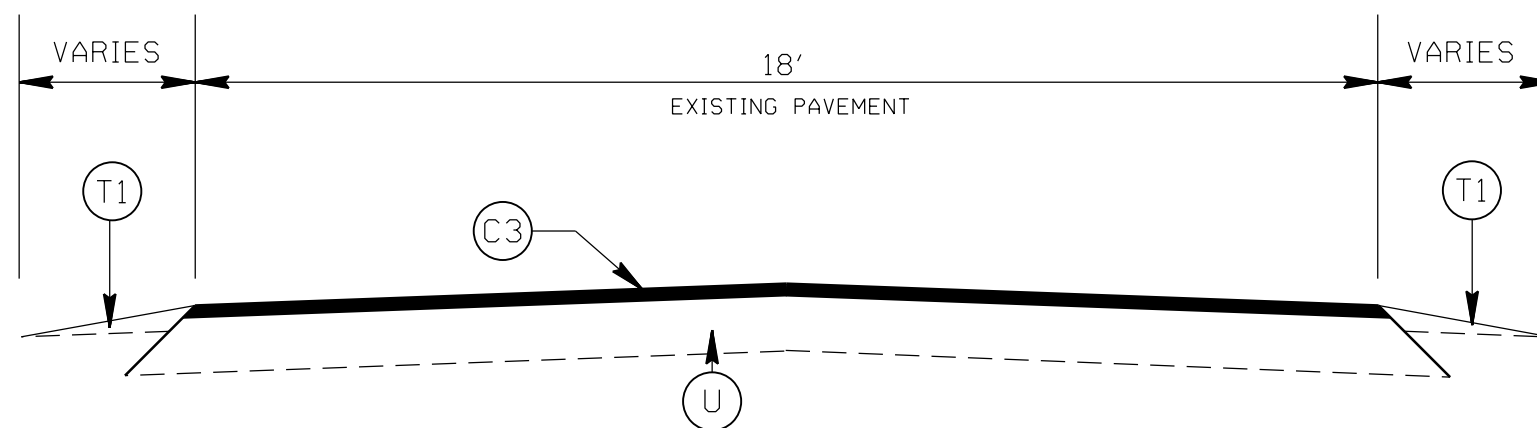
2019-2020
 UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	07/18		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	25	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 13
 SR 2641 ASHLAND DRIVE (MAP 17)
 SR 2642 CLEAR SPRINGS COURT (MAP 18)
 SR 2643 GLENRIDGE COURT (MAP 19)



TYPICAL SECTION NO. 14
 SR 2519 SANDLEWOOD DRIVE (MAP 3)
 SR 2555 LINDEN COURT (MAP 4)

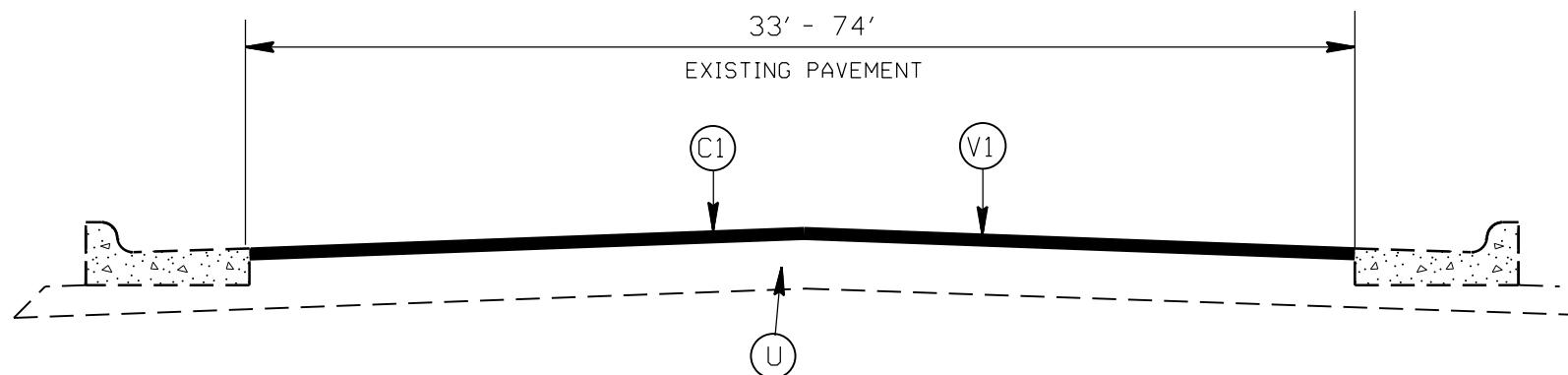
PAVEMENT SCHEDULE

(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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
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(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

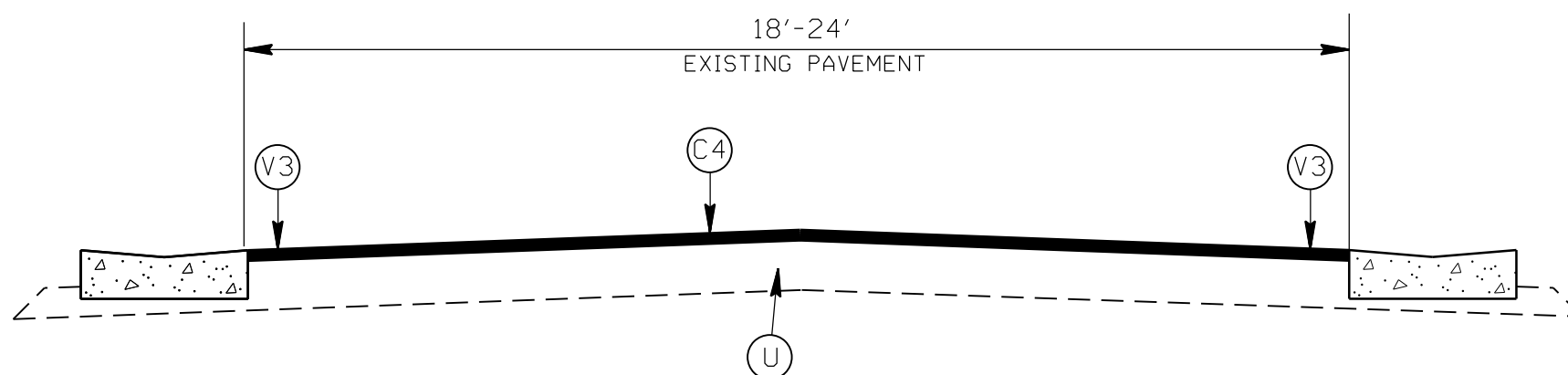
2019-2020
 UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS	
DATE	07/18			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	26	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 15
SR 2100 EAST FRANKLIN STREET (MAP 40)



TYPICAL SECTION NO. 16
SR 3198 BERWICK COURT (MAP 30)
SR 3196 SEMINOLE DRIVE (MAP 31)
SR 3199 SHINNECOCK LANE (MAP 32)
SR 3194 FIRETHORNE CLUB DRIVE (MAP 33)
SR 3638 MEDINAH COURT (MAP 34)
SR 3195 SPYGLASS LANE (MAP 35)
SR 3637 HONOR COURT (MAP 36)
SR 3197 BALTUSROL LANE (MAP 37)
*SEE NOTE 5 FOR MAPS 31, 33, 35

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 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT

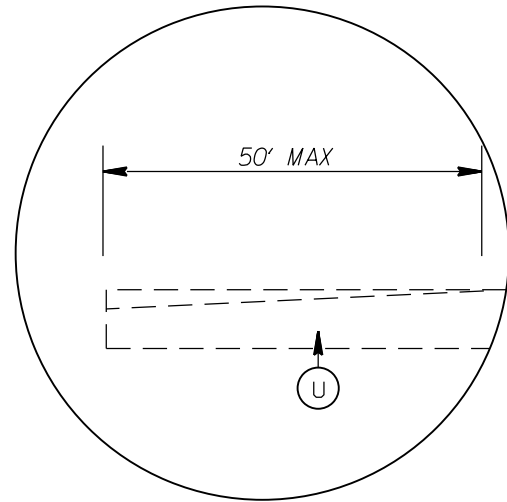
2019-2020
UNION COUNTY RESURFACING
CONTRACT

SCALE	-NA-		REVISIONS	
DATE	7/18			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

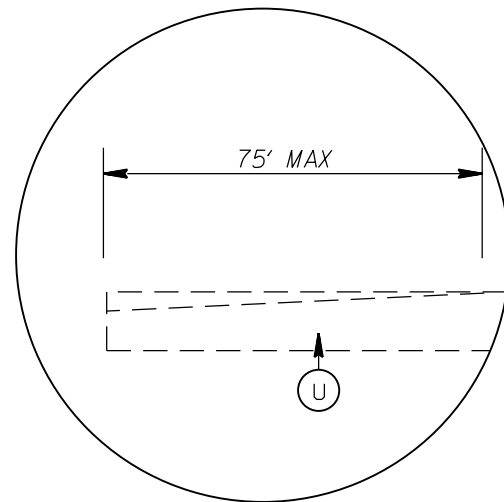
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	27	
F.A. PROJECT NO.			

PAVEMENT SCHEDULE

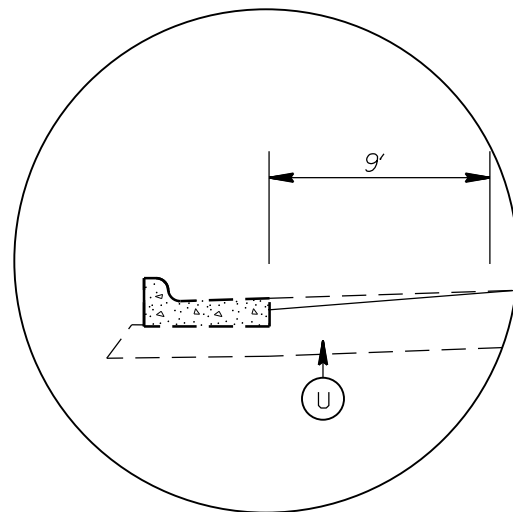
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
(C3)	PROP. APPROX. 1.25" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
(C4)	PROP. APPROX. 1.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
(D1)	AST MAT COAT # 78M
(E1)	PROP. APPROX. 5" ASPHALT BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS PER SQYD.
(T1)	SHOULDER RECONSTRUCTION
(V1)	MILLING EXISTING ASPHALT, 1.5" IN DEPTH
(V2)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.25"
(V3)	PROFILE MILLING EXISTING ASPHALT, 0 - 1.0"
(V4)	MILLING 1' OF EXISTING PAVEMENT, 5" IN DEPTH. (SEE S.P. FOR "TRENCHING FOR BASE COURSE BY MILLING.")
(U)	EXISTING PAVEMENT



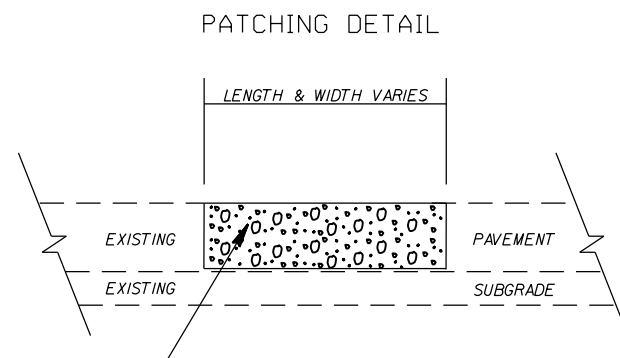
DETAIL FOR INCIDENTAL MILLING (0" TO 1.0")



DETAIL FOR INCIDENTAL MILLING (0" TO 1.5")



DETAIL FOR PROFILE MILLING



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

2019-2020 UNION COUNTY RESURFACING			REVISIONS	
SCALE	-NA-			
DATE	07/18			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	28	
F.A. PROJECT NO.			

NOTES:

1. ON MAPS 5 AND 6, SKIP BRIDGES.

2. SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER.

3. ON MAP 8, MILL AND FILL BRIDGE WITH 1.5" S9.5C.

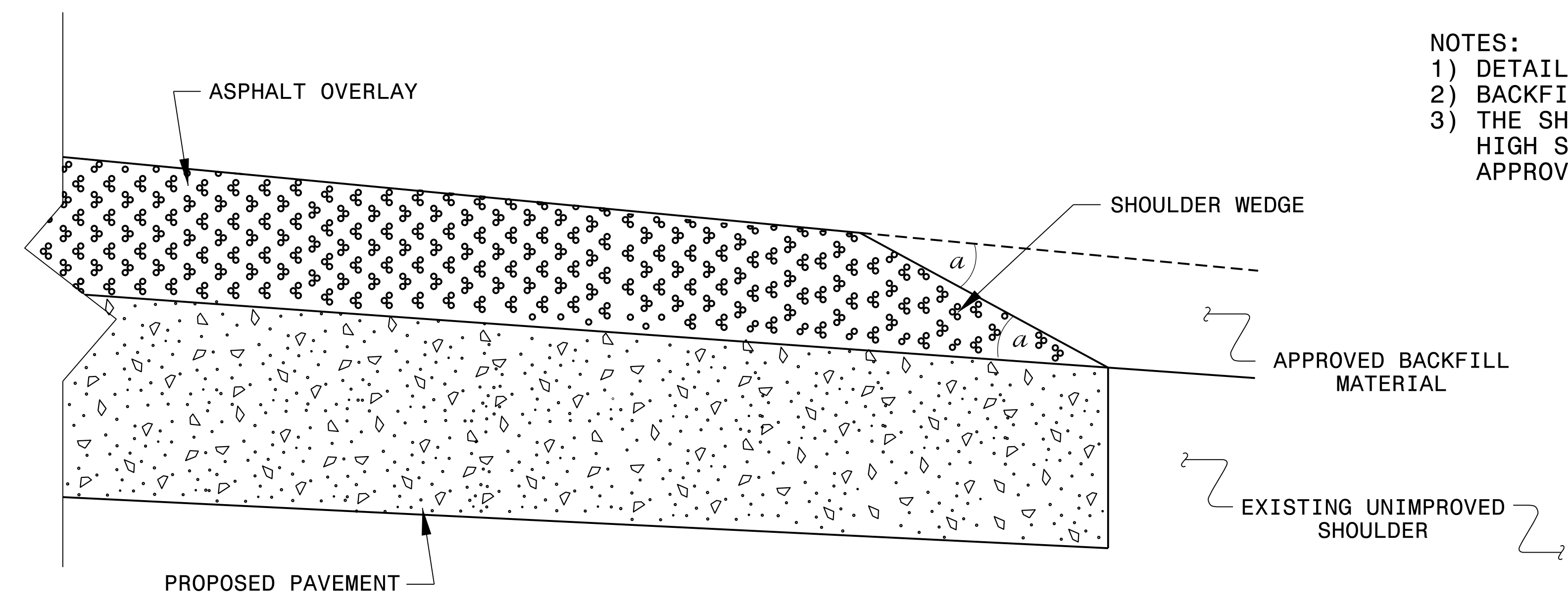
4. ON MAP 22, PROFILE MILL 0 - 1" AROUND MEDIAN ISLAND.

5. ON MAPS 31, 33, AND 35 MILL 1" FOR TIE IN TO SPEED HUMPS.

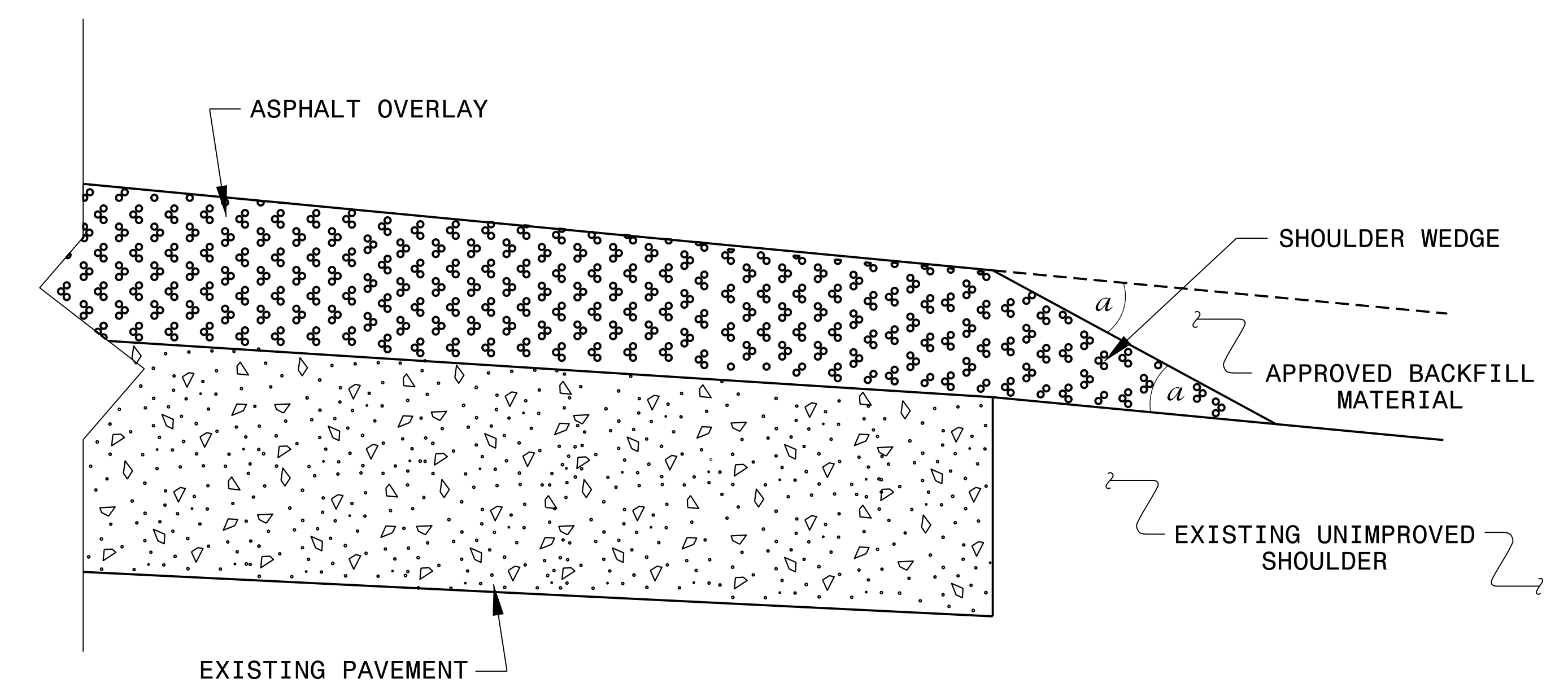
2019-2020
UNION COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	07/18		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

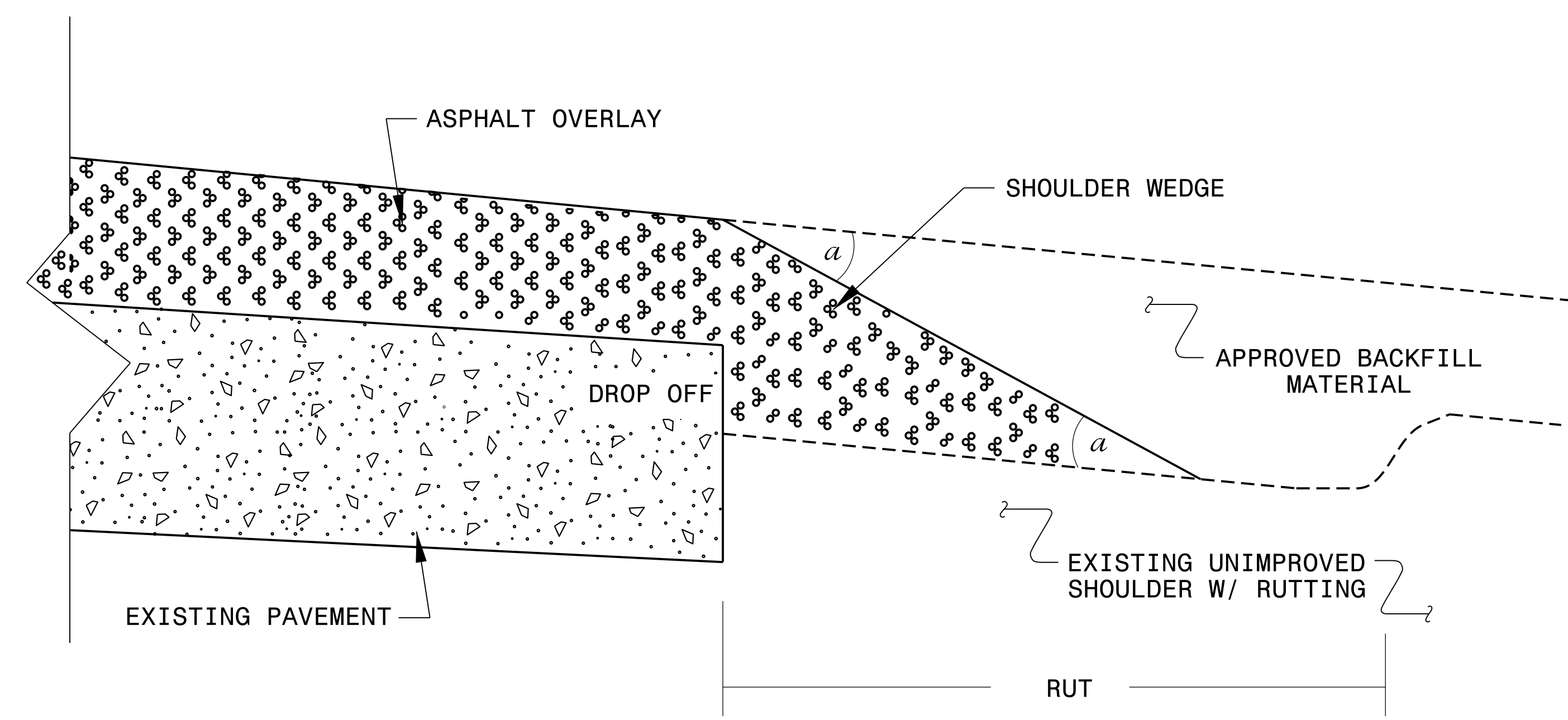
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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)

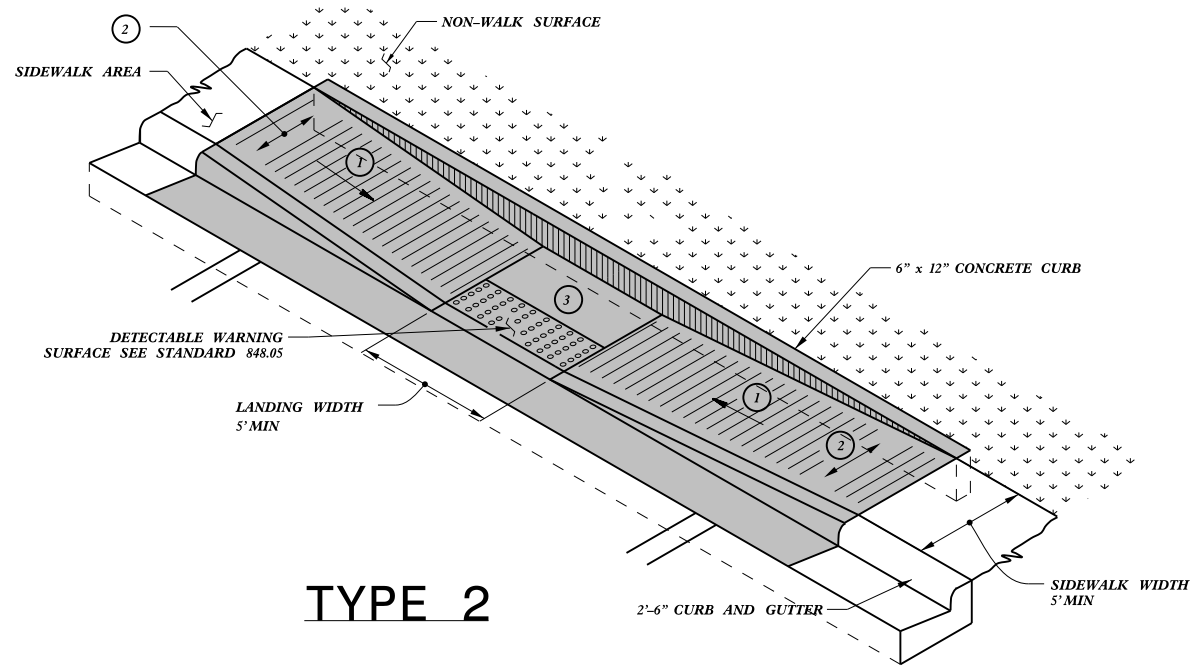
- SHOULDER WEDGE ANGLE = 30°



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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

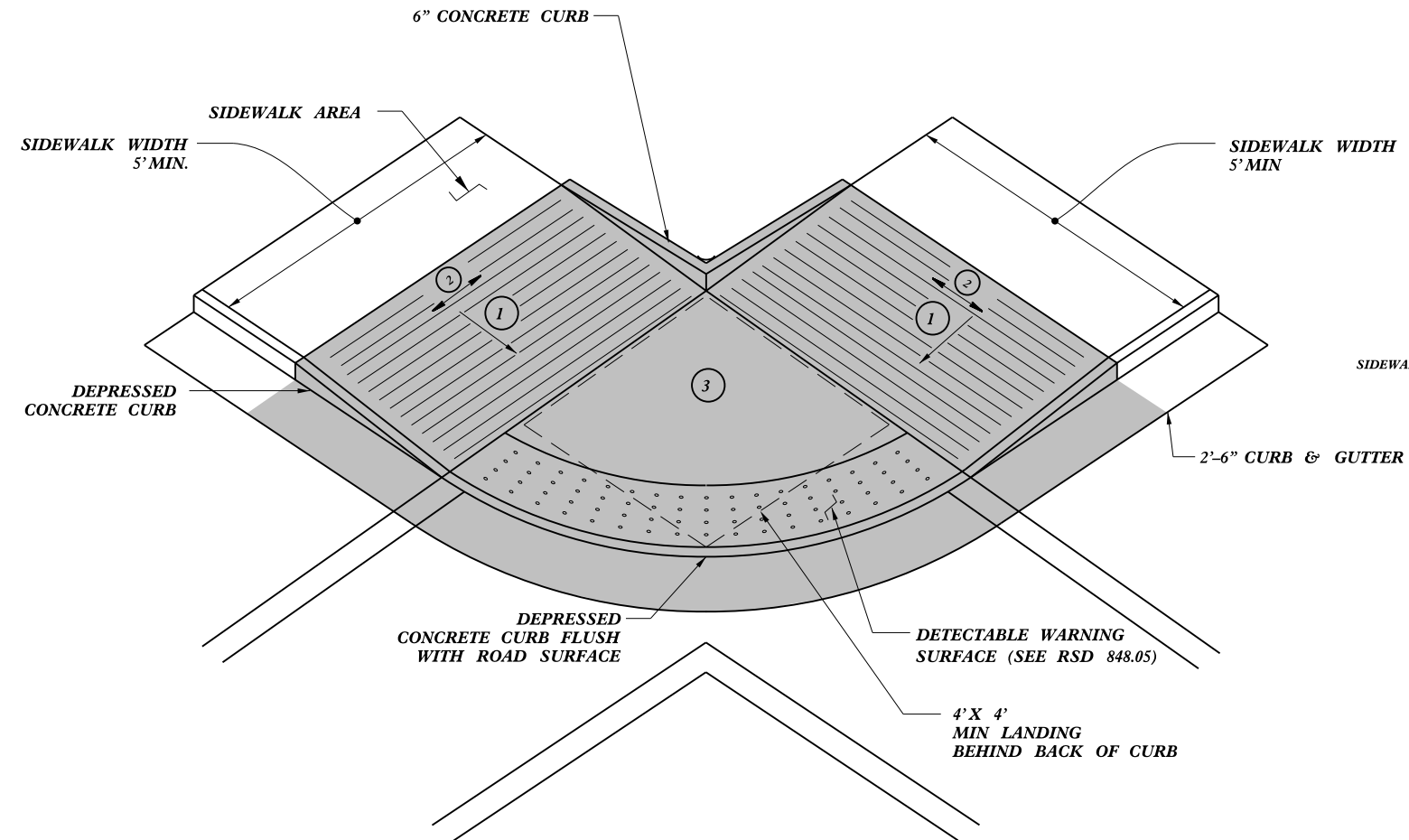
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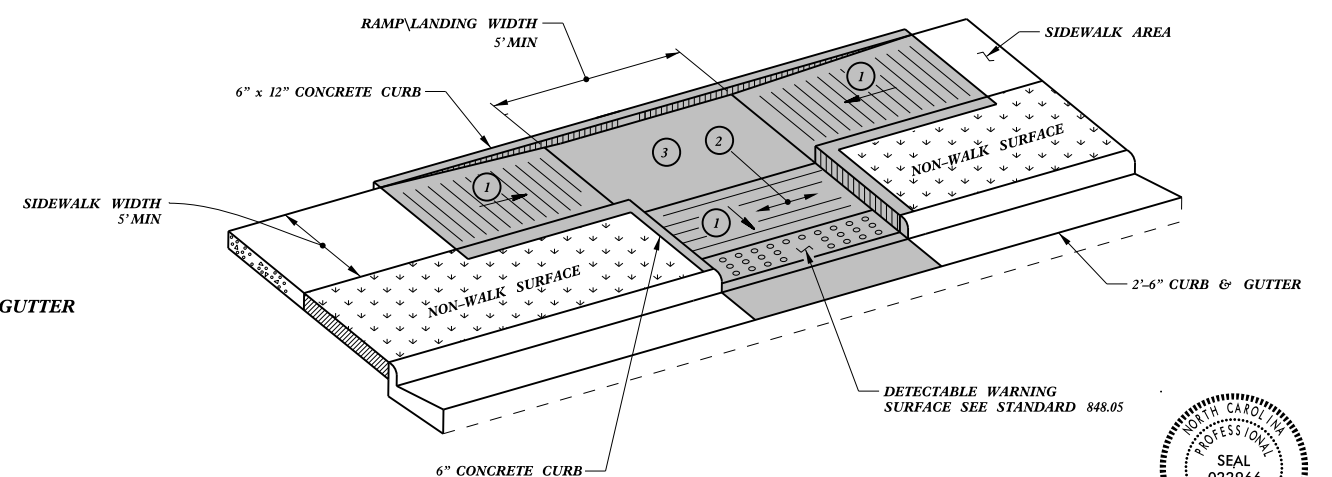
TYPE 2

PAY LIMITS FOR 1 CURB RAMP

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



TYPE 2A



TYPE 3



11/18/2015

449E8E25522144E
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS
Parallel Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dwg

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99
SYNOPSIS OF CONSTRUCTION DETAILS

PROJECT NO.	SHEET NO.
2020CPT.10.10.20901.1- ETC.	31
2020CPT.10.07.20901.7	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	1" MILLING	0" TO 1.5" MILLING	0" TO 1" MILLING	0" TO 1.25" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX
										MI	FT	CY	TONS	SMI	SY	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	
2020CPT.10.10.20901.1	Union	1	SR 1485 LAURELWOOD LANE/ROUTE 40001485	FROM SR 1301 WAXHAW-MARVIN RD TO SR 2519 SANDLEWOOD DR, MILEPOST 0 TO 0.77	5	2	2WU	NO	NO	0.772	20	79		1.50						223		614	318			62
TOTAL FOR MAP NO. 1										0.772		79		1.50						223		614	318			62
2020CPT.10.10.20901.1	Union	2	SR 1486 BANYAN WAY/ROUTE 40001486	FROM SR 1485 LAURELWOOD LANE TO EOM, MILEPOST 0 TO 0.42	12	2	2WU	NO	NO	0.423	20	45		0.80						112		322	174			33
TOTAL FOR MAP NO. 2										0.423		45		0.80						112		322	174			33
2020CPT.10.10.20901.1	Union	3	SR 2519 SANDLEWOOD DRIVE/ROUTE 40002519	FROM SR 1485 LAURELWOOD LANE TO EOM, MILEPOST 0 TO 0.46	14	2		NO	NO	0.463	18	47		0.90						167		395	177			38
TOTAL FOR MAP NO. 3										0.463		47		0.90					167		395	177			38	
2020CPT.10.10.20901.1	Union	4	SR 2555 LINDEN COURT/ROUTE 40002555	FROM SR 1485 LAURELWOOD LANE TO EOM, MILEPOST 0 TO 0.32	14	2		NO	NO	0.321	18	35		0.60						167		278				19
TOTAL FOR MAP NO. 4										0.321		35		0.60					167		278				19	
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.1										1.979		206		3.80					669		1,609	669			152	
2020CPT.10.10.20901.2	Union	5	SR 1316 REA ROAD/ROUTE 40001316	FROM SR 3286 TOM SHORT RD TO MECKLENBURG COUNTY LINE, MILEPOST 2.46 TO 2.93	1	4	MD	NO	NO	0.465	24				7,046					400				673	179	52
TOTAL FOR MAP NO. 5										0.465					7,046				400				673	179	52	
2020CPT.10.10.20901.2	Union	6	SR 1316 REA ROAD/ROUTE 40001316	FROM MECKLENBURG COUNTY LINE TO TOM SHORT RD, MILEPOST 0 TO 0.47	1	4	MD	NO	NO	0.47	24				7,955					400				735	181	56
TOTAL FOR MAP NO. 6										0.47					7,955				400				735	181	56	
2020CPT.10.10.20901.2	Union	7	SR 1309 CRANE ROAD/ROUTE 40001309	FROM SR 1315 NEWTOWN RD TO SR 1316 REA ROAD, MILEPOST 1.57 TO 3.47	2,3	2	2WU	NO	NO	1.9	20	300	38	3.80				315		425	700			2,456	524	213
TOTAL FOR MAP NO. 7										1.9		300	38	3.80			315		425	700			2,456	524	213	
2020CPT.10.10.20901.2	Union	8	SR 1315 NEWTOWN ROAD/ROUTE 40001315	FROM PVMNT JNT 0.15 MILE WEST OF NC 16 TO SR 1309 CRANE RD, MILEPOST 11.87 TO 13.23	2	2	2WU	NO	NO	1.357	23	207	30	2.70	425					455				1,900	525	148
TOTAL FOR MAP NO. 8										1.357		207	30	2.70	425				455				1,900	525	148	
2020CPT.10.10.20901.2	Union	9	SR 1109 SOUTH PROVIDENCE STREET/ROUTE 40001109	FROM NC 75 TO SR 1110 MCCAIN STREET, MILEPOST 0 TO 0.28	7,8,9,10	2	2WU	NO	NO	0.276	18-33	30		0.60				1,168		456		416	123			36
TOTAL FOR MAP NO. 9										0.276		30		0.60			1,168		456		416	123			36	
2020CPT.10.10.20901.2	Union	10	SR 1110 MCCAIN STREET/ROUTE 40001110	FROM NC 75 TO EOM, MILEPOST 0 TO 0.17	5,11	2	2WU	NO	NO	0.174	18-23	18		0.30				440		208		163	75			16
TOTAL FOR MAP NO. 10										0.174		18		0.30			440		208		163	75			16	

PROJECT NO.	SHEET NO.
2020CPT.10.10.20901.1- ETC.	
2020CPT.10.07.20901.7	32

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1704000000-E	1775000000-E	1838000000-E	1838500000-N	2600000000-N	2605000000-N	2612000000-E	2830000000-N	2845000000-N	6000000000-E	6009000000-E	6012000000-E	6071010000-E	6071020000-E					
												PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	RETROFIT EXISTING CURB RAMP	CONCRETE CURB RAMP	6" DRIVEWAYS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	WATTLE	POLYACRYLAMIDE (PAM)					
												MI	FT	TONS	SY	GAL	WK	EA	EA	SY	EA	EA	LF	TN	TN	LF	LB			
2020CPT.10.10.20901.1	Union	1	SR 1485 LAURELWOOD LANE/ROUTE 40001485	FROM SR 1301 WAXHAW-MARVIN RD TO SR 2519 SANDLEWOOD DR, MILEPOST TO 0.77	5	2	2WU	NO	NO	0.772	20																			
TOTAL FOR MAP NO. 1												0.772		347																
2020CPT.10.10.20901.1	Union	2	SR 1486 BANYAN WAY/ROUTE 40001486	FROM SR 1485 LAURELWOOD LANE TO EOM, MILEPOST 0 TO 0.42	12	2	2WU	NO	NO	0.423	20																			
TOTAL FOR MAP NO. 2												0.423		189	4,960	1,740	0.20													
2020CPT.10.10.20901.1	Union	3	SR 2519 SANDLEWOOD DRIVE/ROUTE 40002519	FROM SR 1485 LAURELWOOD LANE TO EOM, MILEPOST 0 TO 0.46	14	2		NO	NO	0.463	18																			
TOTAL FOR MAP NO. 3												0.463		184																
2020CPT.10.10.20901.1	Union	4	SR 2555 LINDEN COURT/ROUTE 40002555	FROM SR 1485 LAURELWOOD LANE TO EOM, MILEPOST 0 TO 0.32	14	2		NO	NO	0.321	18																			
TOTAL FOR MAP NO. 4												0.321		50																
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.1												1.979		770	4,960	1,740	0.20													
2020CPT.10.10.20901.2	Union	5	SR 1316 REA ROAD/ROUTE 40001316	FROM SR 3286 TOM SHORT RD TO MECKLENBURG COUNTY LINE, MILEPOST 2.46 TO 2.93	1	4	MD	NO	NO	0.465	24																			
TOTAL FOR MAP NO. 5												0.465		186																
2020CPT.10.10.20901.2	Union	6	SR 1316 REA ROAD/ROUTE 40001316	FROM MECKLENBURG COUNTY LINE TO TOM SHORT RD, MILEPOST 0 TO 0.47	1	4	MD	NO	NO	0.47	24																			
TOTAL FOR MAP NO. 6												0.47		188																
2020CPT.10.10.20901.2	Union	7	SR 1309 CRANE ROAD/ROUTE 40001309	FROM SR 1315 NEWTOWN RD TO SR 1316 REA ROAD, MILEPOST 1.57 TO 3.47	2,3	2	2WU	NO	NO	1.9	20								225	2	570	57	28	570	1					
TOTAL FOR MAP NO. 7												1.9		612						225	2	570	57	28	570	1				
2020CPT.10.10.20901.2	Union	8	SR 1315 NEWTOWN ROAD/ROUTE 40001315	FROM PVMNT JNT 0.15 MILE WEST OF NC 16 TO SR 1309 CRANE RD, MILEPOST 11.87 TO 13.23	2	2	2WU	NO	NO	1.357	23									1	204	27	14	204	1					
TOTAL FOR MAP NO. 8												1.357		612						1	204	27	14	204	1					
2020CPT.10.10.20901.2	Union	9	SR 1109 SOUTH PROVIDENCE STREET/ROUTE 40001109	FROM NC 75 TO SR 1110 MCCAIN STREET, MILEPOST 0 TO 0.28	7,8,9,10	2	2WU	NO	NO	0.276	18-33									4	4									
TOTAL FOR MAP NO. 9												0.276		140						1.00	4	4								
2020CPT.10.10.20901.2	Union	10	SR 1110 MCCAIN STREET/ROUTE 40001110	FROM NC 75 TO EOM, MILEPOST 0 TO 0.17	5,11	2	2WU	NO	NO	0.174	18-23									1	2									
TOTAL FOR MAP NO. 10												0.174		85						2.00	1	2								

PROJECT NO.	SHEET NO.
2020CPT.10.10.20901.1- ETC.	33
2020CPT.10.07.20901.7	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E			1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1575000000-E				
												BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	1" MILLING	0" TO 1.5" MILLING	0" TO 1" MILLING	0" TO 1.25" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX			
												MI	FT	CY	TONS	SMI	SY	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS		
'2020CPT.10.10.20901.2	Union	11	SR 1233 QUAIL ROOST DRIVE/ROUTE 40001233	FROM SR 1104 WAXHAW CREEK RD TO EOM, MILEPOST 0 TO 0.48	5	2	2WU	NO	NO	0.598	18	60		1.20					100		404	255			44				
TOTAL FOR MAP NO. 11												0.598	60	1.20						100		404	255			44			
'2020CPT.10.10.20901.2	Union	12	SR 3109 NEWELL DRIVE/ROUTE 40003109	FROM SR 1111 S. POTTER ROAD TO EOM, MILEPOST 0 TO 0.49	5	2	2WU	NO	NO	0.485	20	50		1.00					112		710	243			64				
TOTAL FOR MAP NO. 12												0.485	50	1.00						112		710	243			64			
'2020CPT.10.10.20901.2	Union	13	SR 1583 OAK FOREST CIRCLE/ROUTE 40001583	FROM SR 2232 OAKWOOD DRIVE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.33	4	2	2WU	NO	NO	0.329	19	50	75	0.70					175		377	145			35				
TOTAL FOR MAP NO. 13												0.329	50	75	0.70					175		377	145			35			
'2020CPT.10.10.20901.2	Union	14	SR 2331 LAKELAND DRIVE/ROUTE 40002331	FROM SR 1583 OAK FOREST CIRCLE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.20	4	2	2WU	NO	NO	0.202	19	31	40	0.40					317		317	88			27				
TOTAL FOR MAP NO. 14												0.202	31	40	0.40					317		317	88			27			
'2020CPT.10.10.20901.2	Union	15	SR 2332 OAKWOOD DRIVE/ROUTE 40002332	FROM SR 1540 UNION ROAD TO EOM, MILEPOST 0 TO 0.15	4	2	2WU	NO	NO	0.152	19-20	23	60	0.30					167		184	40			12				
TOTAL FOR MAP NO. 15												0.152	23	60	0.30					167		184	40			12			
'2020CPT.10.10.20901.2	Union	16	SR 3001 PLAINVIEW DRIVE/ROUTE 4000	FROM SR 1583 OAK FOREST CIRCLE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.12	4	2	2WU	NO	NO	0.122	20	19	25	0.20					333		131	40			9				
TOTAL FOR MAP NO. 16												0.122	19	25	0.20					333		131	40			9			
'2020CPT.10.10.20901.2	Union	17	SR 2641 ASHLAND DRIVE/ROUTE 40002641	FROM SR 1008 INDIAN TRAIL ROAD TO EOM, MILEPOST 0 TO 0.13	13	2	2WU	NO	NO	0.133	18.5							700	170		131	57			13				
TOTAL FOR MAP NO. 17												0.133								700	170		131	57		13			
'2020CPT.10.10.20901.2	Union	18	SR 2642 CLEAR SPRINGS COURT/ROUTE 40002642	FROM 2641 ASHLAND DRIVE TO EOM, MILEPOST 0 TO 0.09	13	2	2WU	NO	NO	0.091	18							480	150		95	40			9				
TOTAL FOR MAP NO. 18												0.091								480	150		95	40		9			
'2020CPT.10.10.20901.2	Union	19	SR 2643 GLENRIDGE COURT/ROUTE 40002643	FROM EOM TO EOM, MILEPOST 0 TO 0.08	13	2	2WU	NO	NO	0.076	18							400	150		83	40			8				
TOTAL FOR MAP NO. 19												0.076								400	150		83	40		8			
'2020CPT.10.10.20901.2	Union	20	SR 1378 HAYES ROAD/ROUTE 40001378	FROM SR 1379 HAYES ROAD TO SR 1009 OLD CHARLOTTE HIGHWAY, MILEPOST 1 TO 1.8	2	2	2WU	NO	NO	0.803	20	122	20	1.80					333				915	387	80				
TOTAL FOR MAP NO. 20												0.803	122	20	1.80					333				915	387	80			
'2020CPT.10.10.20901.2	Union	21	SR 1379 HAYES ROAD/ROUTE 40001379	FROM US 74 TO SR 1379 HAYES ROAD, MILEPOST 0 TO 0.34	2	2	2WU	NO	NO	0.341	20	53	35	0.70					333				413	440	53				
TOTAL FOR MAP NO. 21												0.341	53	35	0.70					333				413	440	53			
'2020CPT.10.10.20901.2	Union	22	SR 2530 GREYLIN DRIVE/ROUTE 40002530	FROM SR 1358 FOREST LAWN DRIVE TO EOM, MILEPOST 0 TO 0.28	12	2	2WU	NO	NO	0.279	18-26	30		0.60			200		152		209	107			21				
TOTAL FOR MAP NO. 22												0.279	30	0.60				200		152		209	107			21			
'2020CPT.10.10.20901.2	Union	23	SR 2531 CAROLE COURT/ROUTE 40002531	FROM SR 2530 GREYLIN DRIVE TO EOM, MILEPOST 0 TO 0.18	12	2	2WU	NO	NO	0.174	18	18		0.40					100		135	69			14				
TOTAL FOR MAP NO. 23												0.174	18	0.40						100		135	69			14			
'2020CPT.10.10.20901.2	Union	24	SR 1442 WELLINGTON DRIVE/ROUTE 40001442	FROM SR 1357 POTTERS RD TO EOM, MILEPOST 0 TO 0.41	12	2	2WU	NO	NO	0.409	20	42		0.80					112		312	169			32				
TOTAL FOR MAP NO. 24												0.409	42	0.80						112		312	169			32			
'2020CPT.10.10.20901.2	Union	25	SR 1443 CANTERBURY LANE/ROUTE 40001443	FROM SR 1442 WELLINGTON DRIVE TO EOM, MILEPOST 0 TO 0.27	12	2	2WU	NO	NO	0.27	20	30		0.50					112		214	104			21				
TOTAL FOR MAP NO. 25												0.27	30	0.50						112		214	104			21			
'2020CPT.10.10.20901.2	Union	26	SR 1463 OXFORD TERRACE/ROUTE 40001463	FROM SR 1442 WELLINGTON DRIVE TO EOM, MILEPOST 0 TO 0.14	12	2	2WU	NO	NO	0.135	20	15		0.30					112		118	54			12				
TOTAL FOR MAP NO. 26												0.135	15	0.30						112		118	54			12			
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.2												9.241	1,098	323	16.30	15,426				315	1,808	1,580	5,272	700	3,999	1,649	7,092	2,236	975

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1704000000-E	1775000000-E	1838000000-E	1838500000-N	2600000000-N	2605000000-N	2612000000-E	2830000000-N	2845000000-N	6000000000-E	6009000000-E	6012000000-E	6071010000-E	6071020000-E					
												PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	RETROFIT EXISTING CURB RAMP	CONCRETE CURB RAMP	6" DRIVEWAYS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	WATTLE	POLYACRYLA MIDE (PAM)					
												MI	FT	TONS	SY	GAL	WK	EA	EA	SY	EA	EA	LF	TN	TN	LF	LB			
'2020CPT.10.10.20901.2	Union	11	SR 1233 QUAIL ROOST DRIVE/ROUTE 40001233	FROM SR 1104 WAXHAW CREEK RD TO EOM, MILEPOST 0 TO 0.48	5	2	2WU	NO	NO	0.598	18																			
TOTAL FOR MAP NO. 11												0.598		290																
'2020CPT.10.10.20901.2	Union	12	SR 3109 NEWELL DRIVE/ROUTE 40003109	FROM SR 1111 S. POTTER ROAD TO EOM, MILEPOST 0 TO 0.49	5	2	2WU	NO	NO	0.485	20																			
TOTAL FOR MAP NO. 12												0.485		245																
'2020CPT.10.10.20901.2	Union	13	SR 1583 OAK FOREST CIRCLE/ROUTE 40001583	FROM SR 2232 OAKWOOD DRIVE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.33	4	2	2WU	NO	NO	0.329	19											50	7	3	50					
TOTAL FOR MAP NO. 13												0.329		250								50	7	3	50					
'2020CPT.10.10.20901.2	Union	14	SR 2331 LAKELAND DRIVE/ROUTE 40002331	FROM SR 1583 OAK FOREST CIRCLE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.20	4	2	2WU	NO	NO	0.202	19											30	4	2	30					
TOTAL FOR MAP NO. 14												0.202		100								30	4	2	30					
'2020CPT.10.10.20901.2	Union	15	SR 2332 OAKWOOD DRIVE/ROUTE 40002332	FROM SR 1540 UNION ROAD TO EOM, MILEPOST 0 TO 0.15	4	2	2WU	NO	NO	0.152	19-20											23	3	2	23					
TOTAL FOR MAP NO. 15												0.152		68								23	3	2	23					
'2020CPT.10.10.20901.2	Union	16	SR 3001 PLAINVIEW DRIVE/ROUTE 4000	FROM SR 1583 OAK FOREST CIRCLE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.12	4	2	2WU	NO	NO	0.122	20											18	2	1	18					
TOTAL FOR MAP NO. 16												0.122		30								18	2	1	18					
'2020CPT.10.10.20901.2	Union	17	SR 2641 ASHLAND DRIVE/ROUTE 40002641	FROM SR 1008 INDIAN TRAIL ROAD TO EOM, MILEPOST 0 TO 0.13	13	2	2WU	NO	NO	0.133	18.5					1.00	1					4	1							
TOTAL FOR MAP NO. 17												0.133		65							1.00	1			4	1				
'2020CPT.10.10.20901.2	Union	18	SR 2642 CLEAR SPRINGS COURT/ROUTE 40002642	FROM 2641 ASHLAND DRIVE TO EOM, MILEPOST 0 TO 0.09	13	2	2WU	NO	NO	0.091	18												4							
TOTAL FOR MAP NO. 18												0.091		45											4					
'2020CPT.10.10.20901.2	Union	19	SR 2643 GLENRIDGE COURT/ROUTE 40002643	FROM EOM TO EOM, MILEPOST 0 TO 0.08	13	2	2WU	NO	NO	0.076	18												3							
TOTAL FOR MAP NO. 19												0.076		40											3					
'2020CPT.10.10.20901.2	Union	20	SR 1378 HAYES ROAD/ROUTE 40001378	FROM SR 1379 HAYES ROAD TO SR 1009 OLD CHARLOTTE HIGHWAY, MILEPOST 1 TO 1.8	2	2	2WU	NO	NO	0.803	20											132	18	9	132					
TOTAL FOR MAP NO. 20												0.803		440								132	18	9	132					
'2020CPT.10.10.20901.2	Union	21	SR 1379 HAYES ROAD/ROUTE 40001379	FROM US 74 TO SR 1379 HAYES ROAD, MILEPOST 0 TO 0.34	2	2	2WU	NO	NO	0.341	20											51	7	3	51					
TOTAL FOR MAP NO. 21												0.341		170								51	7	3	51					
'2020CPT.10.10.20901.2	Union	22	SR 2530 GREYLIN DRIVE/ROUTE 40002530	FROM SR 1358 FOREST LAWN DRIVE TO EOM, MILEPOST 0 TO 0.28	12	2	2WU	NO	NO	0.279	18-26																			
TOTAL FOR MAP NO. 22												0.279		112	3,039	1,065	0.20													
'2020CPT.10.10.20901.2	Union	23	SR 2531 CAROLE COURT/ROUTE 40002531	FROM SR 2530 GREYLIN DRIVE TO EOM, MILEPOST 0 TO 0.18	12	2	2WU	NO	NO	0.174	18																			
TOTAL FOR MAP NO. 23												0.174		72	1,840	645														
'2020CPT.10.10.20901.2	Union	24	SR 1442 WELLINGTON DRIVE/ROUTE 40001442	FROM SR 1357 POTTERS RD TO EOM, MILEPOST 0 TO 0.41	12	2	2WU	NO	NO	0.409	20																			
TOTAL FOR MAP NO. 24												0.409		185	4,798	1,680	0.20													
'2020CPT.10.10.20901.2	Union	25	SR 1443 CANTERBURY LANE/ROUTE 40001443	FROM SR 1442 WELLINGTON DRIVE TO EOM, MILEPOST 0 TO 0.27	12	2	2WU	NO	NO	0.27	20																			
TOTAL FOR MAP NO. 25												0.27		108	3,173	1,115	0.20													
'2020CPT.10.10.20901.2	Union	26	SR 1463 OXFORD TERRACE/ROUTE 40001463	FROM SR 1442 WELLINGTON DRIVE TO EOM, MILEPOST 0 TO 0.14	12	2	2WU	NO	NO	0.135	20																			
TOTAL FOR MAP NO. 26												0.135		56	1,584	555														
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.2												9.241		4,099	14,434	5,060	0.60	4.00	1	225	16	10	1,078	125	62	1,078	2			

PROJECT NO.	SHEET NO.
2020CPT.10.10.20901.1- ETC.	35
2020CPT.10.07.20901.7	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	010600000-E	122000000-E	124500000-E	129700000-E	130800000-E			133000000-E	149100000-E	151900000-E	152000000-E	152300000-E	152400000-E	157500000-E	
												BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	1" MILLING	0" TO 1.5" MILLING	0" TO 1" MILLING	0" TO 1.25" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX
												MI	FT	TONS	TONS	TONS	SY	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS
2020CPT.10.10.20901.3	Union	27	SR 2541 BEECHWOOD DRIVE/ROUTE 40002541	FROM SR 1307 BONDS GROVE RD TO EOM, MILEPOST 0 TO 0.39	5	2	2WU	NO	NO	0.389	18.5	40		0.80					103		277	159			29	
TOTAL FOR MAP NO. 27										0.389		40		0.80					103		277	159			29	
2020CPT.10.10.20901.3	Union	28	SR 3126 RYAN DRIVE/ROUTE 40003126	FROM SR 2541 BEECHWOOD DR TO EOM, MILEPOST 0 TO 0.08	5	2	2WU	NO	NO	0.076	18	8		0.20					100		70	33			7	
TOTAL FOR MAP NO. 28										0.076		8		0.20					100		70	33			7	
2020CPT.10.10.20901.3	Union	29	SR 2542 CARSON DRIVE/ROUTE 40002542	FROM SR 2541 BEECHWOOD DRIVE TO CUL DE SAC, MILEPOST 0 TO 0.32	5	2	2WU	NO	NO	0.322	18	35		0.60					100		206				14	
TOTAL FOR MAP NO. 29										0.322		35		0.60					100		206				14	
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.3										0.787		83		1.60					303		553	192			50	
2020CPT.10.10.20901.4	Union	30	SR 3198 BERWICK COURT ROUTE # 40003198	FROM SR 3194 FIRETHORNE CLUB DRIVE TO CUL DE SAC MILEPOST 0 TO 0.36	16	2	2WU	NO	NO	0.36	18										230				15	
TOTAL FOR MAP NO. 30										0.36											230				15	
2020CPT.10.10.20901.4	Union	31	SR 3196 SEMINOLE DRIVE ROUTE # 40003196	FROM SR 3194 FIRETHORNE CLUB DRIVE TO SOUTH CAROLINA STATE LINE MILEPOST 0 TO 0.36	16	2	2WU	NO	NO	0.36	24				535						310				21	
TOTAL FOR MAP NO. 31										0.36					535					310					21	
2020CPT.10.10.20901.4	Union	32	SR 3199 SHINNECOCK LANE ROUTE # 40003199	FROM SR 3196 SEMINOLE DRIVE TO SOUTH CAROLINA STATE LINE MILEPOST 0 TO 0.3	16	2	2WU	NO	NO	0.3	24									200	256				17	
TOTAL FOR MAP NO. 32										0.3										200	256				17	
2020CPT.10.10.20901.4	Union	33	SR 3194 FIRETHORNE CLUB DRIVE ROUTE #40003194	FROM SR 1312 MARVIN ROAD TO CUL DE SAC MILEPOST 0 TO 0.84	16	2	2WU	NO	NO	0.84	18-24									400	630				42	
TOTAL FOR MAP NO. 33										0.84										400	630				42	
2020CPT.10.10.20901.4	Union	34	SR 3638 MEDINAH COURT ROUTE # 40003638	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.06	16	2	2WU	NO	NO	0.06	18										40				3	
TOTAL FOR MAP NO. 34										0.06										40				3		
2020CPT.10.10.20901.4	Union	35	SR 3195 SPYGLASS LANE ROUTE # 40003195	FROM SR 3194 FIRETHORNE CLUB DRIVE TO SR 3197 BALTUSROL LANE MILEPOST 0 TO 0.51	16	2	2WU	NO	NO	0.51	24				1,067						435				29	
TOTAL FOR MAP NO. 35										0.51					1,067					435				29		
2020CPT.10.10.20901.4	Union	36	SR 3637 HONOR COURT ROUTE # 40003637	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.085	16	2	2WU	NO	NO	0.085	18										55				4	
TOTAL FOR MAP NO. 36										0.085										55				4		
2020CPT.10.10.20901.4	Union	37	SR 3197 BALTUSROL LANE ROUTE # 40003197	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.31	16	2	2WU	NO	NO	0.31	18-24										230				15	
TOTAL FOR MAP NO. 37										0.31										230				15		
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.4										2.825					3,737				29,837		600		2,186			146
2020CPT.10.10.20901.5	Union	38	SR 1479 HERITAGE OAK LANE/ROUTE 40001479	FROM SR 1312 MARVIN RD TO EOM, MILEPOST 0 TO 0.3	4	2	2WU	NO	NO	0.306	20	47	45	0.60						167	348	116			31	
TOTAL FOR MAP NO. 38										0.306		47	45	0.60					167	348	116			31		
2020CPT.10.10.20901.5	Union	39	SR 2516 WOODLAND FOREST DRIVE/ROUTE 40002516	FROM SR 1315 NEWTOWN ROAD TO EOM, MILEPOST 0 TO 0.44	12	2	2WU	NO	NO	0.439	20	45		0.90						112	311	182			33	
TOTAL FOR MAP NO. 39										0.439		45		0.90					112	311	182			33		
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.5										0.745		92	45	1.50					279		659	298			64	
2020CPT.10.07.20901.7	Union	40	SR 2100 E. FRANKLIN STREET/ ROUTE # 4000210089	FROM 5 POINTS INTERSECTION TO US 74 MILEPOST 2.14-3.68	15	5	MU	NO	NO	1.5	33-74				30,733										177	
TOTAL FOR MAP NO. 40										1.5					30,733									177		
TOTAL FOR PROJ NO. 2020CPT.10.07.20901.7										1.5					30,733								177			
GRAND TOTAL										17.077		1,479	368	23.20	46,159	3,737	315	31,645	1,580	7,123	700	9,006	2,808	10,048	2,236	1,564

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1704000000-E	1775000000-E	1838000000-E	1838500000-N	2600000000-N	2605000000-N	2612000000-E	2830000000-N	2845000000-N	6000000000-E	6009000000-E	6012000000-E	6071010000-E	6071020000-E									
												PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	RETROFIT EXISTING CURB RAMP	CONCRETE CURB RAMP	6" DRIVEWAYS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	WATTLE	POLYACRYLAMIDE (PAM)									
												MI	FT	TONS	SY	GAL	WK	EA	EA	SY	EA	EA	LF	TN	TN	LF	LB							
2020CPT.10.10.20901.3	Union	27	SR 2541 BEECHWOOD DRIVE/ROUTE 40002541	FROM SR 1307 BONDS GROVE RD TO EOM, MILEPOST 0 TO 0.39	5	2	2WU	NO	NO	0.389	18.5	176																						
TOTAL FOR MAP NO. 27												0.389		176																				
2020CPT.10.10.20901.3	Union	28	SR 3126 RYAN DRIVE/ROUTE 40003126	FROM SR 2541 BEECHWOOD DR TO EOM, MILEPOST 0 TO 0.08	5	2	2WU	NO	NO	0.076	18	36																						
TOTAL FOR MAP NO. 28												0.076		36																				
2020CPT.10.10.20901.3	Union	29	SR 2542 CARSON DRIVE/ROUTE 40002542	FROM SR 2541 BEECHWOOD DRIVE TO CUL DE SAC, MILEPOST 0 TO 0.32	5	2	2WU	NO	NO	0.322	18	30																						
TOTAL FOR MAP NO. 29												0.322		30																				
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.3												0.787		242																				
2020CPT.10.10.20901.4	Union	30	SR 3198 BERWICK COURT ROUTE # 40003198	FROM SR 3194 FIRETHORNE CLUB DRIVE TO CUL DE SAC MILEPOST 0 TO 0.36	16	2	2WU	NO	NO	0.36	18	40																						
TOTAL FOR MAP NO. 30												0.36		40									9											
2020CPT.10.10.20901.4	Union	31	SR 3196 SEMINOLE DRIVE ROUTE # 40003196	FROM SR 3194 FIRETHORNE CLUB DRIVE TO SOUTH CAROLINA STATE LINE MILEPOST 0 TO 0.36	16	2	2WU	NO	NO	0.36	24	40																						
TOTAL FOR MAP NO. 31												0.36		40						1.00			8											
2020CPT.10.10.20901.4	Union	32	SR 3199 SHINNECOCK LANE ROUTE # 40003199	FROM SR 3196 SEMINOLE DRIVE TO SOUTH CAROLINA STATE LINE MILEPOST 0 TO 0.3	16	2	2WU	NO	NO	0.3	24	30																						
TOTAL FOR MAP NO. 32												0.3		30									3											
2020CPT.10.10.20901.4	Union	33	SR 3194 FIRETHORNE CLUB DRIVE ROUTE #40003194	FROM SR 1312 MARVIN ROAD TO CUL DE SAC MILEPOST 0 TO 0.84	16	2	2WU	NO	NO	0.84	18-24	84																						
TOTAL FOR MAP NO. 33												0.84		84										18										
2020CPT.10.10.20901.4	Union	34	SR 3638 MEDINAH COURT ROUTE # 40003638	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.06	16	2	2WU	NO	NO	0.06	18																							
TOTAL FOR MAP NO. 34												0.06												1										
2020CPT.10.10.20901.4	Union	35	SR 3195 SPYGLASS LANE ROUTE # 40003195	FROM SR 3194 FIRETHORNE CLUB DRIVE TO SR 3197 BALTUSROL LANE MILEPOST 0 TO 0.51	16	2	2WU	NO	NO	0.51	24	50																						
TOTAL FOR MAP NO. 35												0.51		50						1.00			11											
2020CPT.10.10.20901.4	Union	36	SR 3637 HONOR COURT ROUTE # 40003637	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.085	16	2	2WU	NO	NO	0.085	18																							
TOTAL FOR MAP NO. 36												0.085												2										
2020CPT.10.10.20901.4	Union	37	SR 3197 BALTUSROL LANE ROUTE # 40003197	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.31	16	2	2WU	NO	NO	0.31	18-24	40																						
TOTAL FOR MAP NO. 37												0.31		40						1.00			7											
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.4												2.825		284						3.00			59											
2020CPT.10.10.20901.5	Union	38	SR 1479 HERITAGE OAK LANE/ROUTE 40001479	FROM SR 1312 MARVIN RD TO EOM, MILEPOST 0 TO 0.3	4	2	2WU	NO	NO	0.306	20	120																						
TOTAL FOR MAP NO. 38												0.306		120															45	6	3	45		
2020CPT.10.10.20901.5	Union	39	SR 2516 WOODLAND FOREST DRIVE/ROUTE 40002516	FROM SR 1315 NEWTOWN ROAD TO EOM, MILEPOST 0 TO 0.44	12	2	2WU	NO	NO	0.439	20	198	5,147	1,805	0.20																			
TOTAL FOR MAP NO. 39												0.439		198	5,147	1,805	0.20													45	6	3	45	
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.5												0.745		318	5,147	1,805	0.20														45	6	3	45
2020CPT.10.07.20901.7	Union	40	SR 2100 E. FRANKLIN STREET/ ROUTE # 4000210089	FROM 5 POINTS INTERSECTION TO US 74 MILEPOST 2.14-3.68	15	5	MU	NO	NO	1.5	33-74	743																						
TOTAL FOR MAP NO. 40												1.5		743						12.00		7												
TOTAL FOR PROJ NO. 2020CPT.10.07.20901.7												1.5		743						12.00		7												
GRAND TOTAL												17.077		6,456	24,541	8,605	1.00			19.00		8		225		75		10		1,123	131	65	1,123	2

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.10.10.20901.1- ETC.		
2020CPT.10.07.20901.7	38	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4810000000-E		4820000000-E		4825000000-E	4830000000-E	4835000000-E	4840000000-N		4845000000-N						
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" WHITE PAINT	4" YELLOW PAINT	8" WHITE PAINT	8" YELLOW PAINT	12" WHITE PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG SCHOOL	PAINT MSG RXR	PAINT LT ARROW	PAINT RT ARROW	WHITE PAINT PAVEMENT MARKING HANDICAP SYMBOL	PAINT STR ARROW	MERGE ARROW		
								MI	FT	SF	LS	HR	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA				
'2020CPT.10.10.20901.2	Union	11	SR 1233 QUAIL ROOST DRIVE/ROUTE 40001233	FROM SR1104 WAXHAW CREEK RD TO EOM, MILEPOST 0 TO 0.48	5	2	2WU	0.598	18		*																	
TOTAL FOR MAP NO. 11									0.598																			
'2020CPT.10.10.20901.2	Union	12	SR 3109 NEWELL ROAD/ROUTE 40003109	FROM SR 1111 S. POTTER ROAD TO EOM, MILEPOST 0 TO 0.49	5	2	2WU	0.485	20		*																	
TOTAL FOR MAP NO. 12									0.485																			
'2020CPT.10.10.20901.2	Union	13	SR 1583 OAK FOREST CIRCLE/ROUTE 40001583	FROM SR 2232 OAKWOOD DRIVE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.33	4	2	2WU	0.329	19		*																	
TOTAL FOR MAP NO. 13									0.329																			
'2020CPT.10.10.20901.2	Union	14	SR 2331 LAKELAND DRIVE/ROUTE 40002331	FROM SR 1583 OAK FOREST CIRCLE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.20	4	2	2WU	0.202	19		*																	
TOTAL FOR MAP NO. 14									0.202																			
'2020CPT.10.10.20901.2	Union	15	SR 2332 OAKWOOD DRIVE/ROUTE 40002332	FROM SR 1540 UNION ROAD TO EOM, MILEPOST 0 TO 0.15	4	2	2WU	0.152	19-20		*																	
TOTAL FOR MAP NO. 15									0.152																			
'2020CPT.10.10.20901.2	Union	16	SR 3001 PLAINVIEW DRIVE/ROUTE 4000	FROM SR 1583 OAK FOREST CIRCLE TO SR 1539 ROCK HILL CHURCH ROAD, MILEPOST 0 TO 0.12	4	2	2WU	0.122	20		*																	
TOTAL FOR MAP NO. 16									0.122																			
'2020CPT.10.10.20901.2	Union	17	SR 2641 ASHLAND DRIVE/ROUTE 40002641	FROM SR 1008 INDIAN TRAIL ROAD TO EOM, MILEPOST 0 TO 0.13	13	2	2WU	0.133	18.5		*																	
TOTAL FOR MAP NO. 17									0.133																			
'2020CPT.10.10.20901.2	Union	18	SR 2642 CLEAR SPRINGS COURT/ROUTE 40002642	FROM 2641 ASHLAND DRIVE TO EOM, MILEPOST 0 TO 0.09	13	2	2WU	0.091	18		*																	
TOTAL FOR MAP NO. 18									0.091																			
'2020CPT.10.10.20901.2	Union	19	SR 2643 GLENRIDGE COURT/ROUTE 40002643	FROM EOM TO EOM, MILEPOST 0 TO 0.08	13	2	2WU	0.076	18		*																	
TOTAL FOR MAP NO. 19									0.076																			
'2020CPT.10.10.20901.2	Union	20	SR 1378 HAYES ROAD/ROUTE 40001378	FROM SR 1379 HAYES ROAD TO SR 1009 OLD CHARLOTTE HIGHWAY, MILEPOST 1 TO 1.8	2	2	2WU	0.803	20		*		8,480	8,480			100	70		4								
TOTAL FOR MAP NO. 20									0.803				8,480	8,480		100	70		4									
'2020CPT.10.10.20901.2	Union	21	SR 1379 HAYES ROAD/ROUTE 40001379	FROM US 74 TO SR 1379 HAYES ROAD, MILEPOST 0 TO 0.34	2	2	2WU	0.341	20		*		3,600	3,600														
TOTAL FOR MAP NO. 21									0.341				3,600	3,600														
'2020CPT.10.10.20901.2	Union	22	SR 2530 GREYLIN DRIVE/ROUTE 40002530	FROM SR 1358 FOREST LAWN DRIVE TO EOM, MILEPOST 0 TO 0.28	12	2	2WU	0.279	18-26		*																	
TOTAL FOR MAP NO. 22									0.279																			
'2020CPT.10.10.20901.2	Union	23	SR 2531 CAROLE COURT/ROUTE 40002531	FROM SR 2530 GREYLIN DRIVE TO EOM, MILEPOST 0 TO 0.18	12	2	2WU	0.174	18		*																	
TOTAL FOR MAP NO. 23									0.174																			
'2020CPT.10.10.20901.2	Union	24	SR 1442 WELLINGTON DRIVE/ROUTE 40001442	FROM SR 1357 POTTERS RD TO EOM, MILEPOST 0 TO 0.41	12	2	2WU	0.409	20		*																	
TOTAL FOR MAP NO. 24									0.409																			
'2020CPT.10.10.20901.2	Union	25	SR 1443 CANTERBURY LANE/ROUTE 40001443	FROM SR 1442 WELLINGTON DRIVE TO EOM, MILEPOST 0 TO 0.27	12	2	2WU	0.27	20		*																	
TOTAL FOR MAP NO. 25									0.27																			
'2020CPT.10.10.20901.2	Union	26	SR 1463 OXFORD TERRACE/ROUTE 40001463	FROM SR 1442 WELLINGTON DRIVE TO EOM, MILEPOST 0 TO 0.14	12	2	2WU	0.135	20		*																	
TOTAL FOR MAP NO. 26									0.135																			
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.2									9.241		126.0		12.00	56,489	56,697	526	124	60	100	386	18	4	17	5	1			
													113,186	650				22				23						

ON MAPS 5 THRU 8, 20, 21 AND 40 ALL PAINT MARKINGS SHALL BE TEMPORARY PAINT. ONE 15 MIL APPLICATION WITH GLASS BEADS.

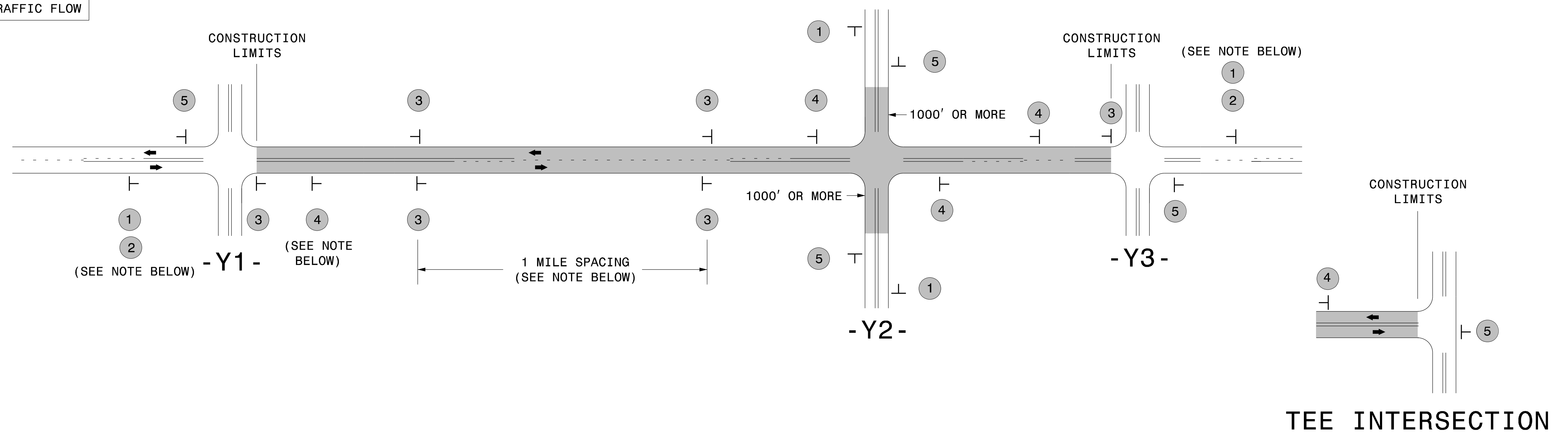
PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.10.10.20901.1- ETC.		
2020CPT.10.07.20901.7	39	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4810000000-E	4820000000-E	4825000000-E	4830000000-E	4835000000-E	4840000000-N	4845000000-N												
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" WHITE PAINT	4" YELLOW PAINT	8" WHITE PAINT	8" YELLOW PAINT	12" WHITE PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG SCHOOL	PAINT MSG RXR	PAINT LT ARROW	PAINT RT ARROW	WHITE PAVEMENT MARKING HANDICAP SYMBOL	PAINT STR ARROW	MERGE ARROW					
										SF	LS	HR	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA					
2020CPT.10.10.20901.3	Union	27	SR 2541 BEECHWOOD DRIVE/ROUTE 40002541	FROM SR 1307 BONDS GROVE RD TO EOM, MILEPOST 0 TO 0.39	5	2	2WU	0.389	18.5		*																				
TOTAL FOR MAP NO. 27									0.389																						
2020CPT.10.10.20901.3	Union	28	SR 3126 RYAN DRIVE/ROUTE 40003126	FROM SR 2541 BEECHWOOD DR TO EOM, MILEPOST 0 TO 0.08	5	2	2WU	0.076	18		*																				
TOTAL FOR MAP NO. 28									0.076																						
2020CPT.10.10.20901.3	Union	29	SR 2542 CARSON DRIVE/ROUTE 40002542	FROM SR 2541 BEECHWOOD DRIVE TO CUL DE SAC, MILEPOST 0 TO 0.32	5	2	2WU	0.322	18		*																				
TOTAL FOR MAP NO. 29									0.322																						
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.3									0.787																						
2020CPT.10.10.20901.4	Union	30	SR 3198 BERWICK COURT ROUTE # 40003198	FROM SR 3194 FIRETHORNE CLUB DRIVE TO CUL DE SAC, MILEPOST 0 TO 0.36	16	2	2WU	0.36	18		*																				
TOTAL FOR MAP NO. 30									0.36																						
2020CPT.10.10.20901.4	Union	31	SR 3196 SEMINOLE DRIVE ROUTE # 40003196	FROM SR 3194 FIRETHORNE CLUB DRIVE TO SOUTH CAROLINA STATE LINE MILEPOST 0 TO 0.36	16	2	2WU	0.36	24		*																				
TOTAL FOR MAP NO. 31									0.36																						
2020CPT.10.10.20901.4	Union	32	SR 3199 SHINNECOCK LANE ROUTE # 40003199	FROM SR 3196 SEMINOLE DRIVE TO SOUTH CAROLINA STATE LINE MILEPOST 0 TO 0.3	16	2	2WU	0.3	24		*				128																
TOTAL FOR MAP NO. 32									0.3					128																	
2020CPT.10.10.20901.4	Union	33	SR 3194 FIRETHORNE CLUB DRIVE ROUTE #40003194	FROM SR 1312 MARVIN ROAD TO CUL DE SAC MILEPOST 0 TO 0.84	16	2	2WU	0.84	18-24		*				128																
TOTAL FOR MAP NO. 33									0.84					128																	
2020CPT.10.10.20901.4	Union	34	SR 3638 MEDINAH COURT ROUTE # 40003638	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.06	16	2	2WU	0.06	18		*																				
TOTAL FOR MAP NO. 34									0.06																						
2020CPT.10.10.20901.4	Union	35	SR 3195 SPYGLASS LANE ROUTE # 40003195	FROM SR 3194 FIRETHORNE CLUB DRIVE TO SR 3197 BALTUSROL LANE MILEPOST 0 TO 0.51	16	2	2WU	0.51	24		*				128																
TOTAL FOR MAP NO. 35									0.51					128																	
2020CPT.10.10.20901.4	Union	36	SR 3637 HONOR COURT ROUTE # 40003637	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.085	16	2	2WU	0.085	18		*																				
TOTAL FOR MAP NO. 36									0.085																						
2020CPT.10.10.20901.4	Union	37	SR 3197 BALTUSROL LANE ROUTE # 40003197	FROM SR 3199 SHINNECOCK LANE TO CUL DE SAC MILEPOST 0 TO 0.31	16	2	2WU	0.31	18-24		*				122																
TOTAL FOR MAP NO. 37									0.31					122																	
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.4									2.825					506																	
2020CPT.10.10.20901.5	Union	38	SR 1479 HERITAGE OAK LANE/ROUTE 40001479	FROM SR 1312 MARVIN RD TO EOM, MILEPOST 0 TO 0.3	4	2	2WU	0.306	20		*																				
TOTAL FOR MAP NO. 38									0.306																						
2020CPT.10.10.20901.5	Union	39	SR 2516 WOODLAND FOREST DRIVE/ROUTE 40002516	FROM SR 1315 NEWTOWN ROAD TO EOM, MILEPOST 0 TO 0.44	12	2	2WU	0.439	20		*																				
TOTAL FOR MAP NO. 39									0.439																						
TOTAL FOR PROJ NO. 2020CPT.10.10.20901.5									0.745																						
2020CPT.10.07.20901.7	Union	40	SR 2100 E. FRANKLIN STREET/ ROUTE # 4000210089	FROM 5 POINTS INTERSECTION TO US 74 MILEPOST 2.14-3.68	15	5	MU	1.5	33-74	126.0	*	40.00	5,565	33,313	175	110			418	12		58	4		2	4					
TOTAL FOR MAP NO. 40									1.5	126	40	5,565	33,313	175	110			418	12		58	4		2	4						
TOTAL FOR PROJ NO. 2020CPT.10.07.20901.7									1.5	126	40	5,565	33,313	175	110			418	12		58	4		2	4						
												38,878	285					12					68								
GRAND TOTAL									17.077	252	1	52	62,054	90,010	1,207	234	60	100	804	30	4	75	9	1	2	4					
												152,064	1,441					34					91								

SIGNING FOR RESURFACING PROJECTS

LEGEND
 ┃ STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

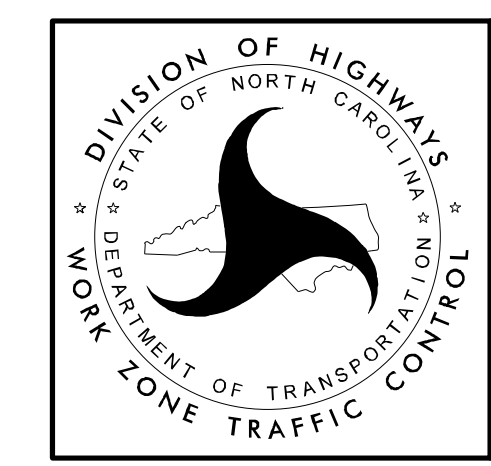
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	2		#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3		- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4		- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



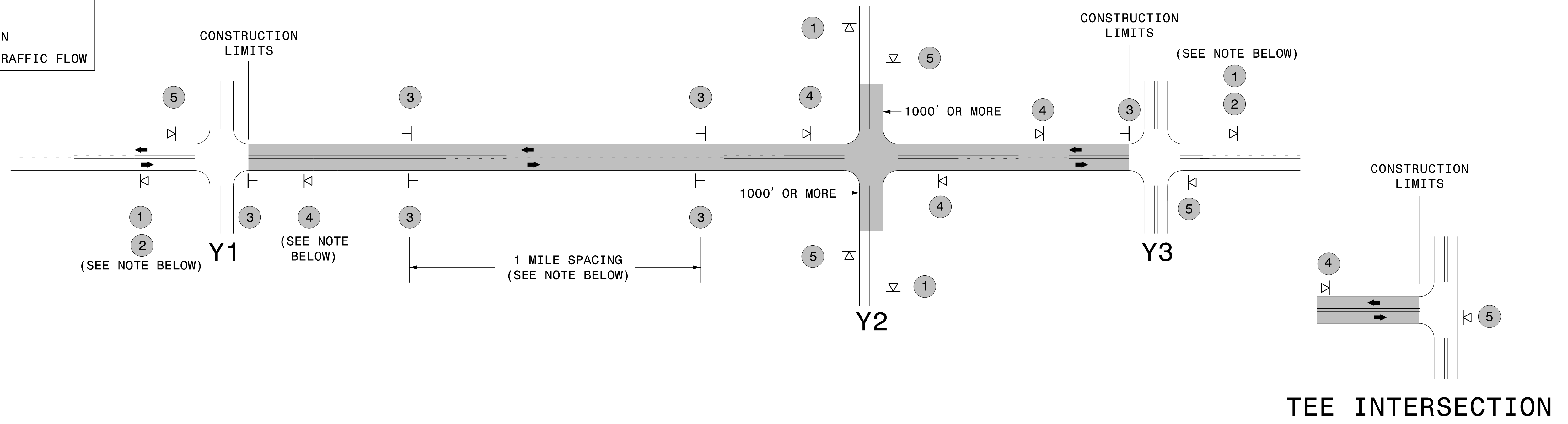
ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

5/15/2017 S:\TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn User:kadai

SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND

- ▷ PORTABLE SIGN
- └ STATIONARY SIGN
- ← DIRECTION OF TRAFFIC FLOW



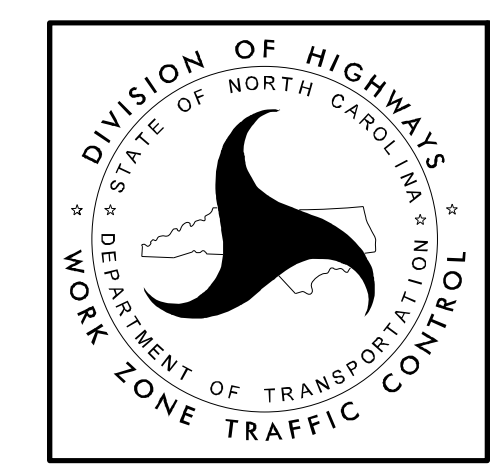
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		<ul style="list-style-type: none"> - PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. - SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS. 	<p>STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> </div> <div> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p> </div> </div>
		<ul style="list-style-type: none"> - ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
		<ul style="list-style-type: none"> - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. 	
		<ul style="list-style-type: none"> - PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION. 	
	<p>THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.</p>		

MAPS LESS THAN 2 MILES

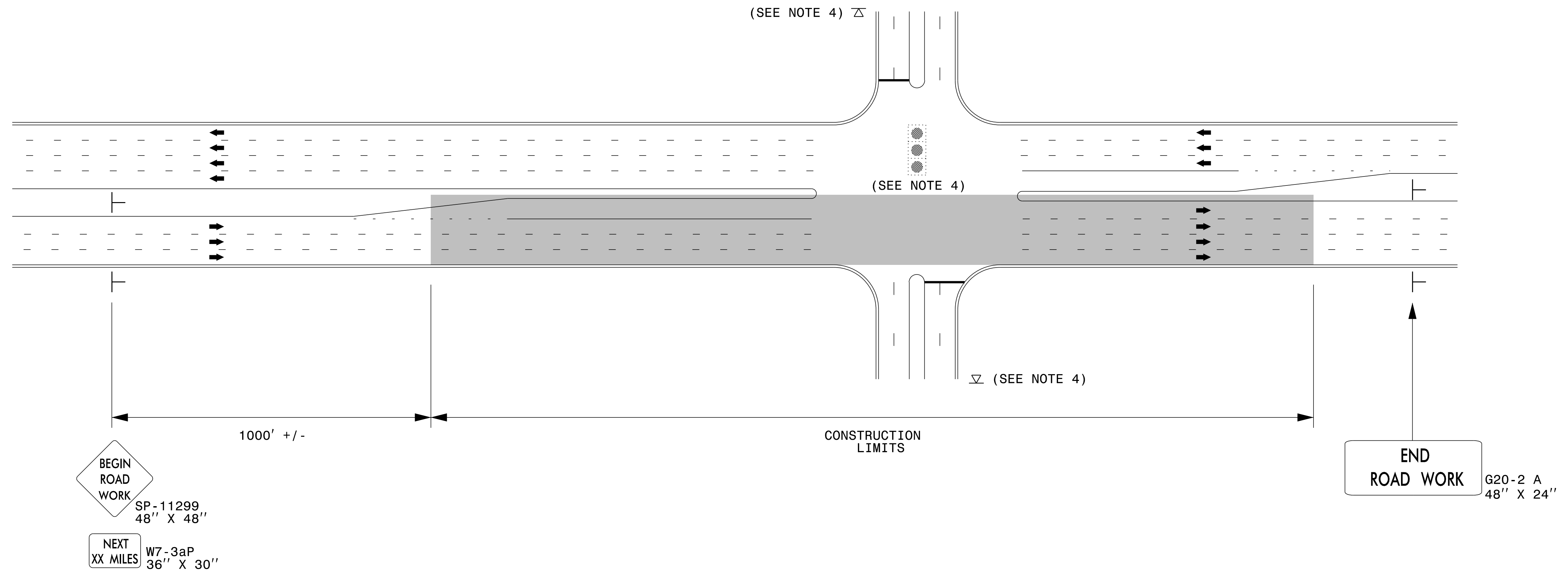
FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.



ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

5/12/2017 S:\TUXWZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln - AST.dgn User:kadai

URBAN / SUBURBAN WORKZONES

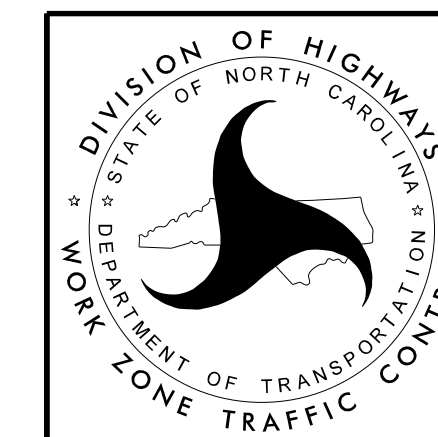


NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) 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.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

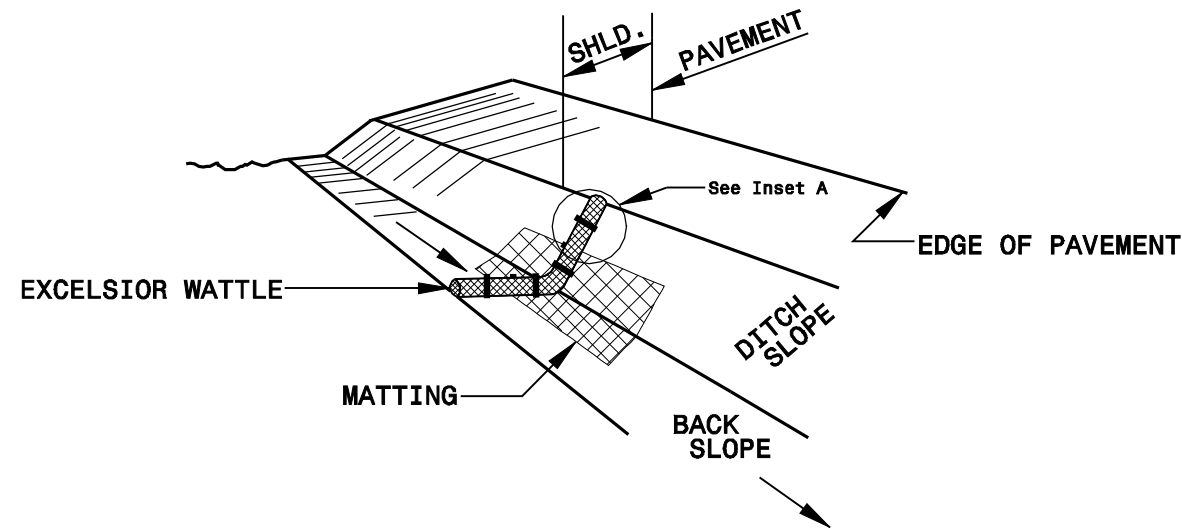
LEGEND

- ┆ STATIONARY SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

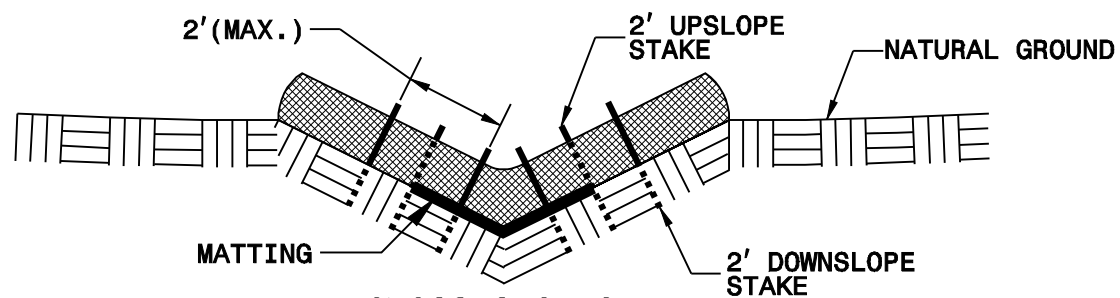


RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

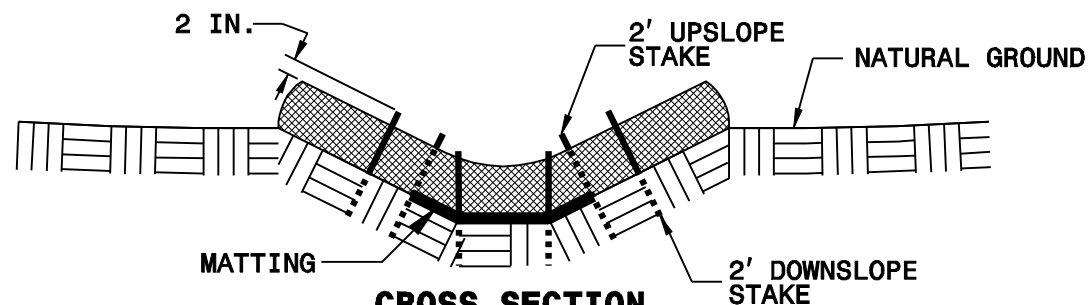
WATTLE DETAIL



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

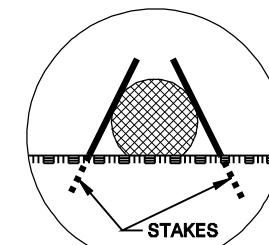
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

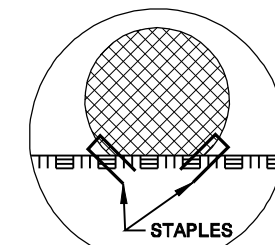
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

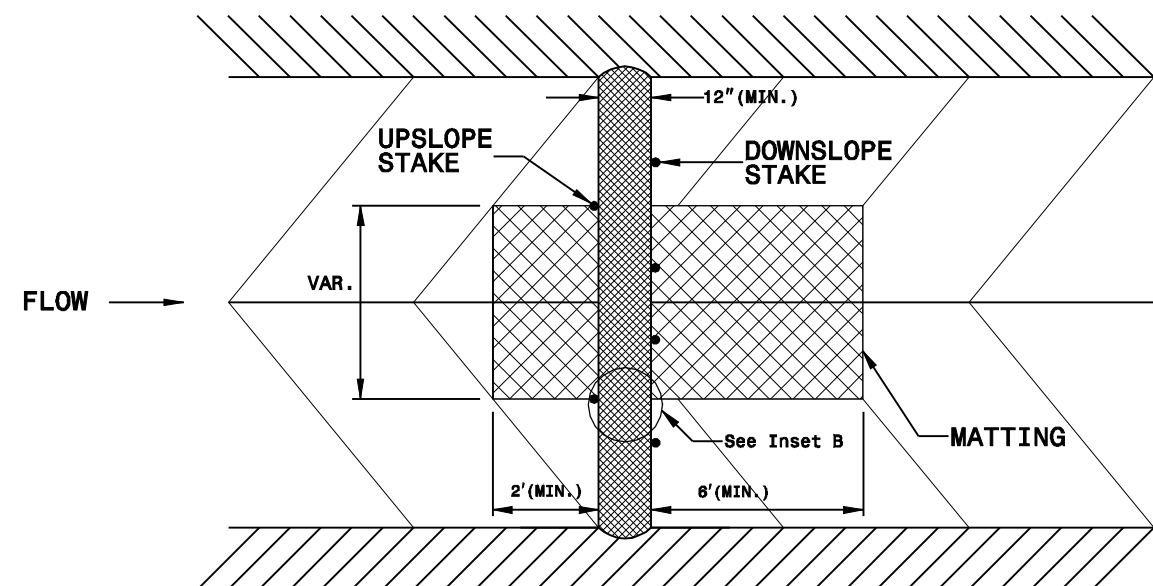
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B

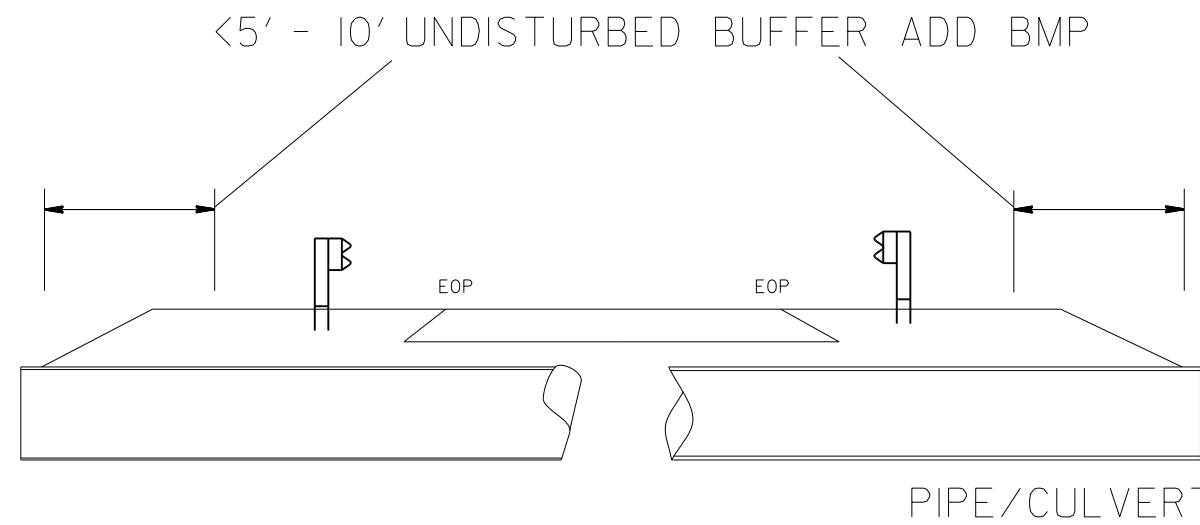


TOP VIEW

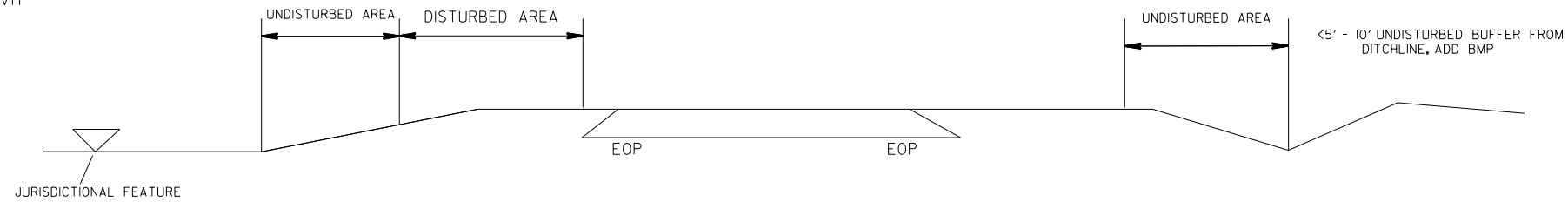
NOTES: LESS THAN 5' - 10' UNDISTURBED BUFFER FROM ROW, DITCHLINE, WATER FEATURE, OR DRAINAGE INLET, ADD BMP.

BMP OPTIONS: WATTLE OR SILT FENCE

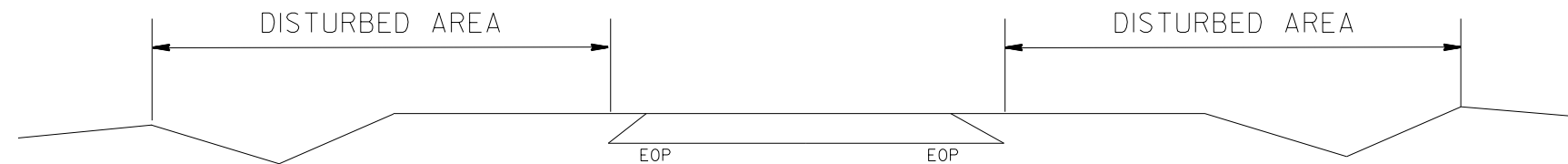
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2020CPT.10.10.20901.1 - ETC. 2017CPT.10.07.20901.7	EC-2	
F.A. PROJECT NO.			



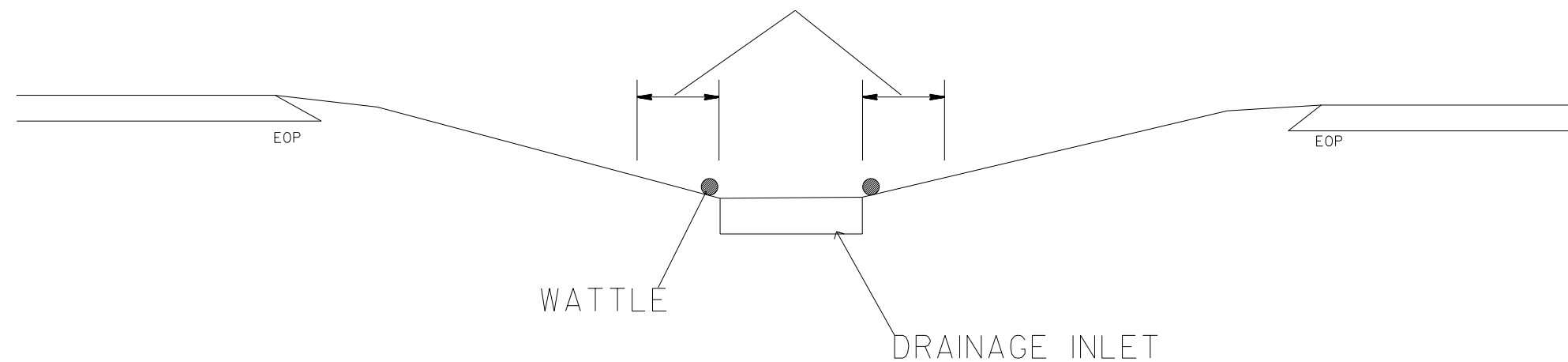
<5' - 10' UNDISTURBED BUFFER FROM JURISDICTIONAL FEATURE ADD BMP




USE BMP'S IF SHOULDERS AND/OR FRONTSLOPES AND/OR DITCHLINE AND/OR BACKSLOPES ARE DISTURBED



<5' - 10' UNDISTURBED BUFFER FROM INLET, ADD WATTLE



<i>EROSION CONTROL DETAIL</i>		
SCALE	-NA-	
DATE	01/18	
DWG. BY	AMO	
DESIGN BY	AMO	
APPROVED	CLA	
REVISIONS		