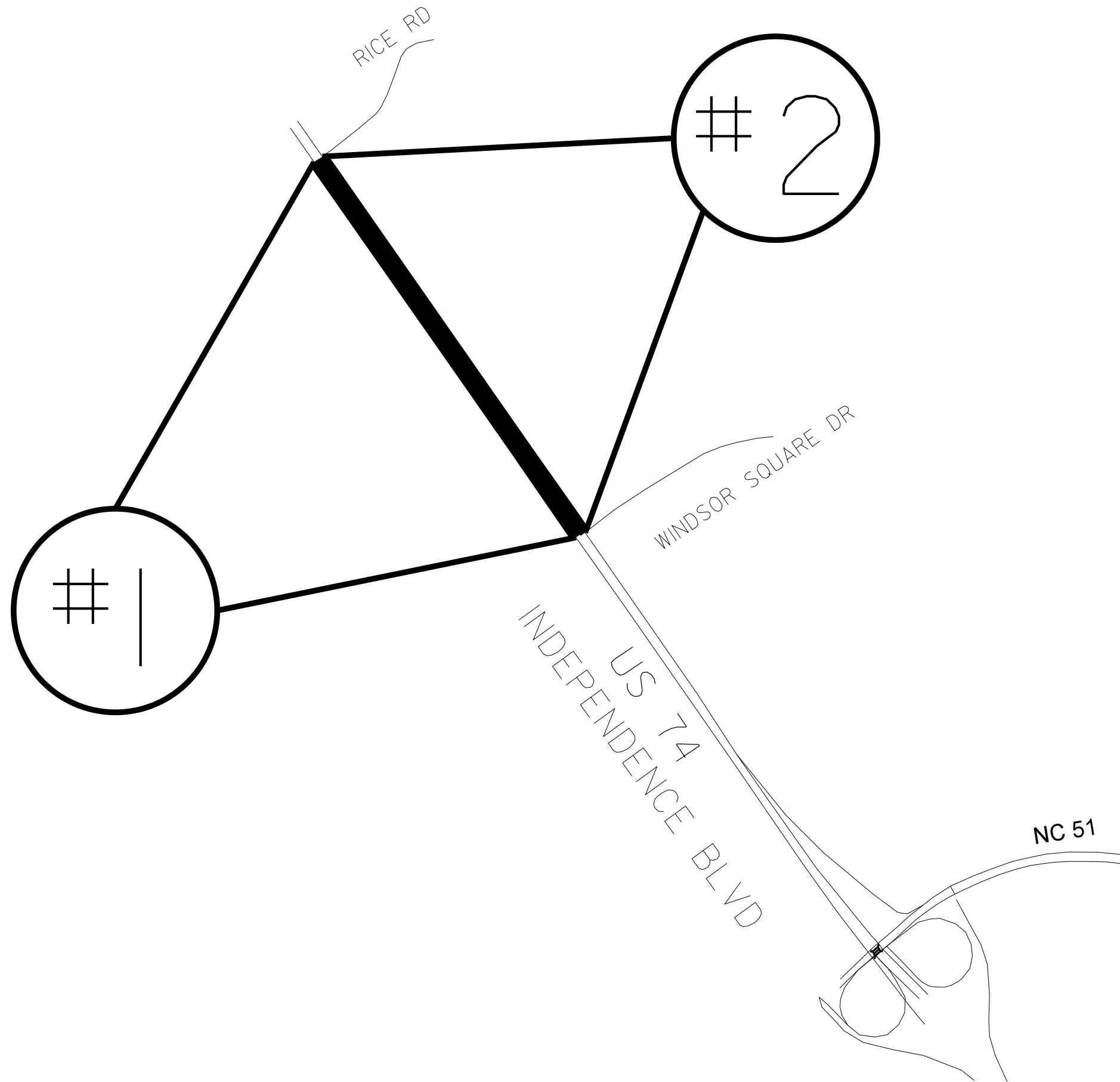


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601		
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

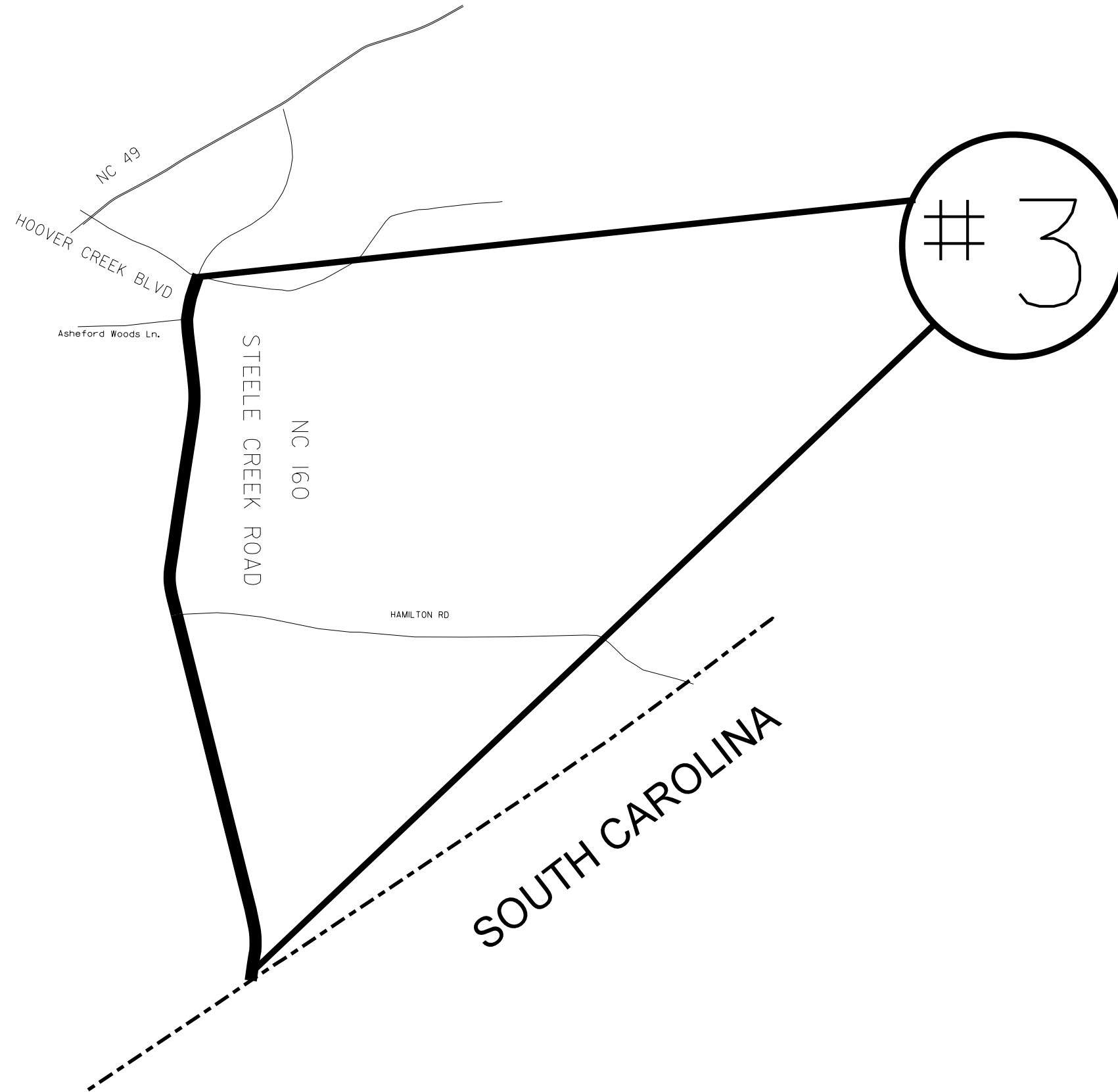
NORTH CAROLINA

PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #1 US 74/INDEPENDENCE BLVD EBL  
0.73 MILES  
FROM .10 MILES PAST RICE ROAD  
TO PAVEMENT JOINT .14 MILES  
PAST WINDSOR SQUARE RIVE

MAP #2 US 74/INDEPENDENCE BLVD WBL  
0.73 MILES  
FROM .14 MILES WINDSOR SQUARE DRIVE  
TO .10 MILES PAST RICE ROAD

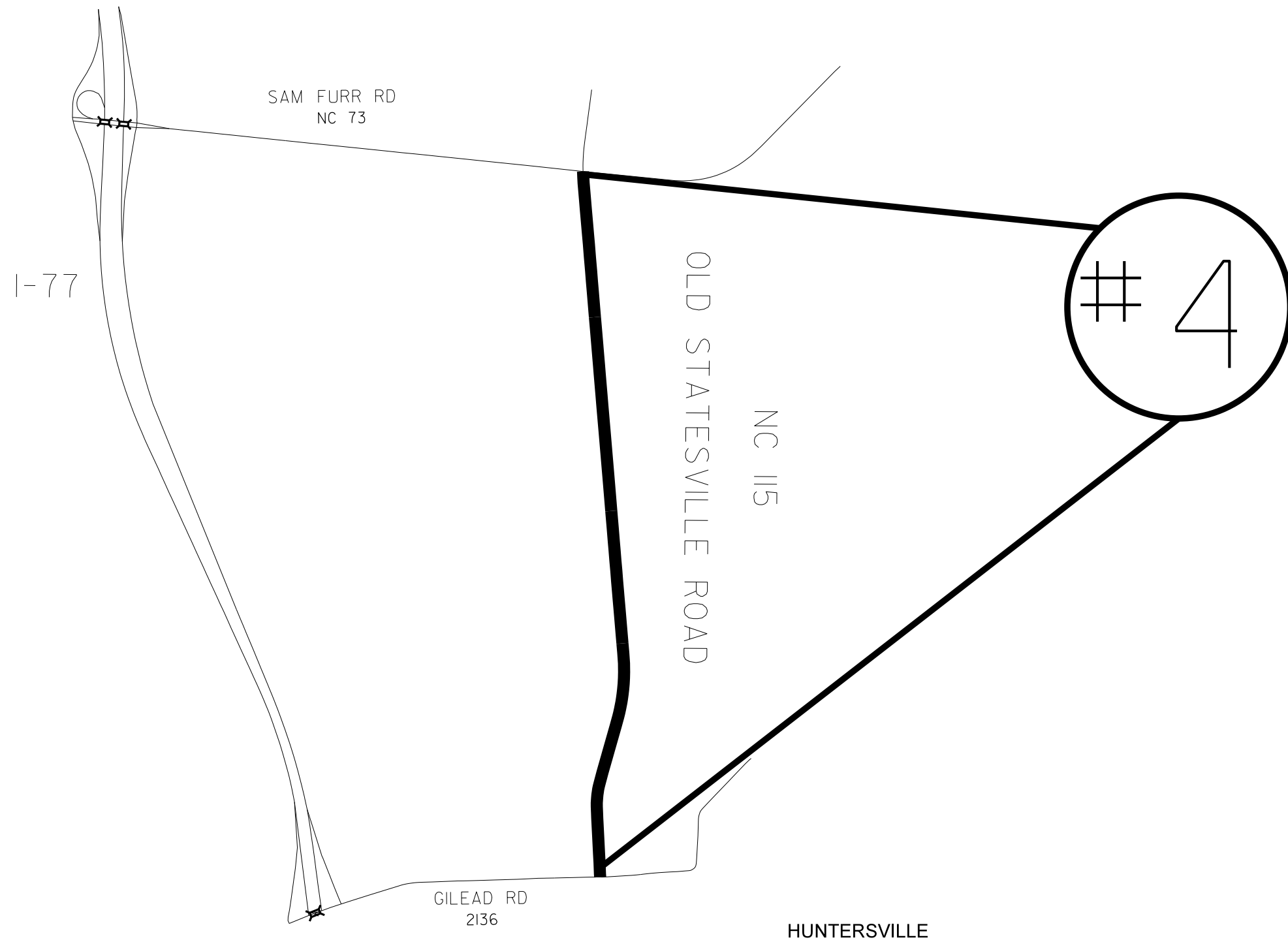
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	2	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**MECKLENBURG COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #3 NC 160/STEELE CREEK ROAD  
 1.60 MILES  
 FROM SOUTH CAROLINA STATE LINE  
 TO HOOVER CREEK BLVD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	3	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

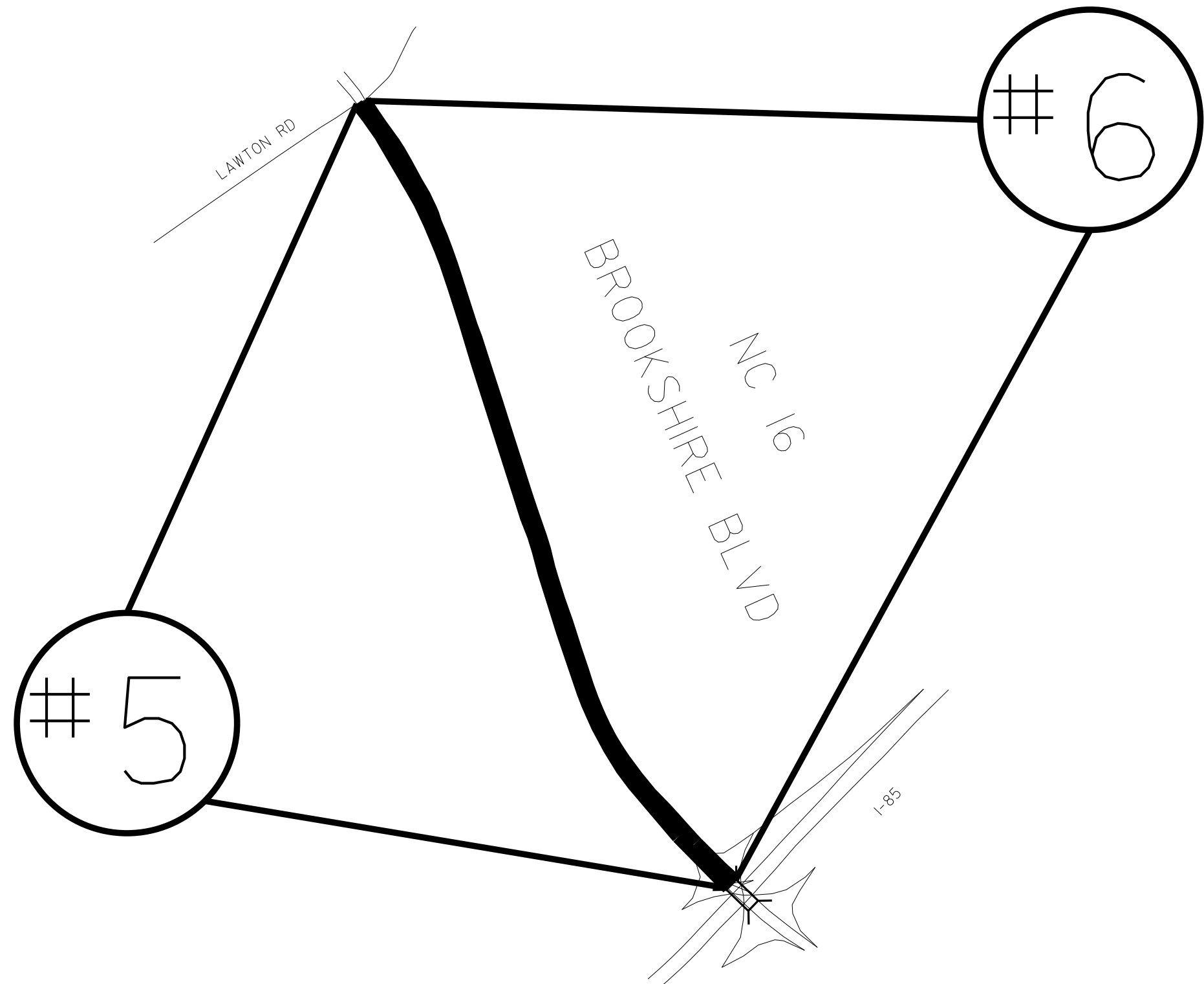
# MECKLENBURG COUNTY

NORTH CAROLINA

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #4 NC 115/OLD STATESVILLE ROAD  
1.92 MILES  
FROM SR 2136 GILEAD ROAD  
TO NC 73 SAM FURR ROAD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	4	
F.A. PROJECT NO.			

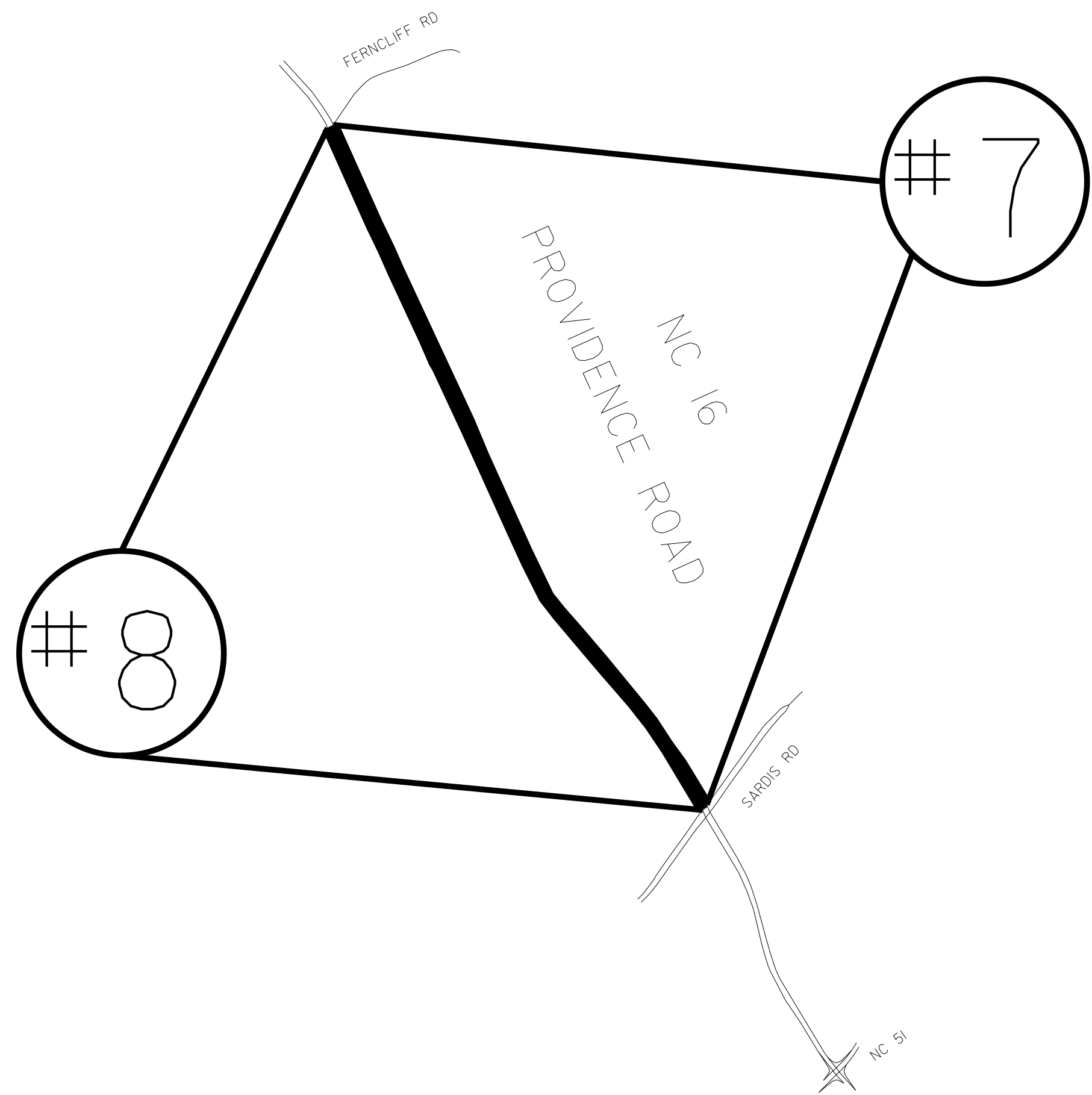


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**MECKLENBURG COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #5 NC 16/BROOKSHIRE BLVD SBL  
 0.83 MILES  
 FROM LAWTON ROAD  
 TO I-85 BRIDGE

MAP #6 NC 16/BROOKSHIRE BLVD NBL  
 0.83 MILES  
 FROM I-85 BRIDGE  
 TO LAWTON ROAD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	5	
F.A. PROJECT NO.			

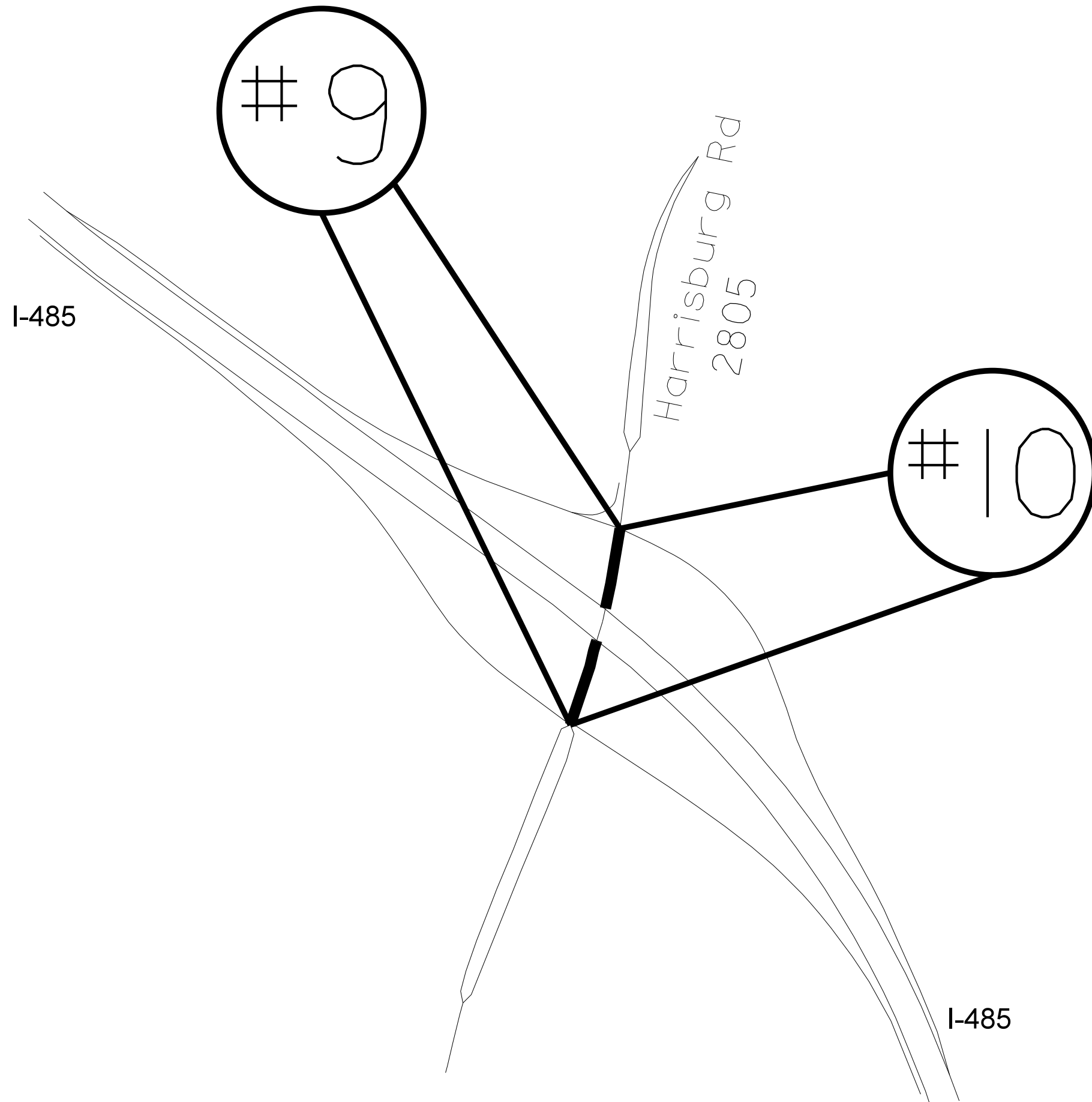


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**MECKLENBURG COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #7 NC 16/PROVIDENCE ROAD NBL  
 1.58 MILES  
 FROM SARDIS ROAD  
 TO FERNCLIFF ROAD

MAP #8 NC 16/PROVIDENCE ROAD SBL  
 1.58 MILES  
 FROM FERNCLIFF ROAD  
 TO SARDIS ROAD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	6	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**MECKLENBURG COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #9 SR 2805 HARRISBURG ROAD SBL  
 0.16 MILES  
 FROM I-485 OUTER ON RAMP  
 TO I-485 INNER OFF RAMP

MAP #10 SR 2805 HARRISBURG ROAD NBL  
 0.15 MILES  
 FROM I-485 INNER ON RAMP  
 TO I-485 OUTER OFF RAMP

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	7	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

NORTH CAROLINA

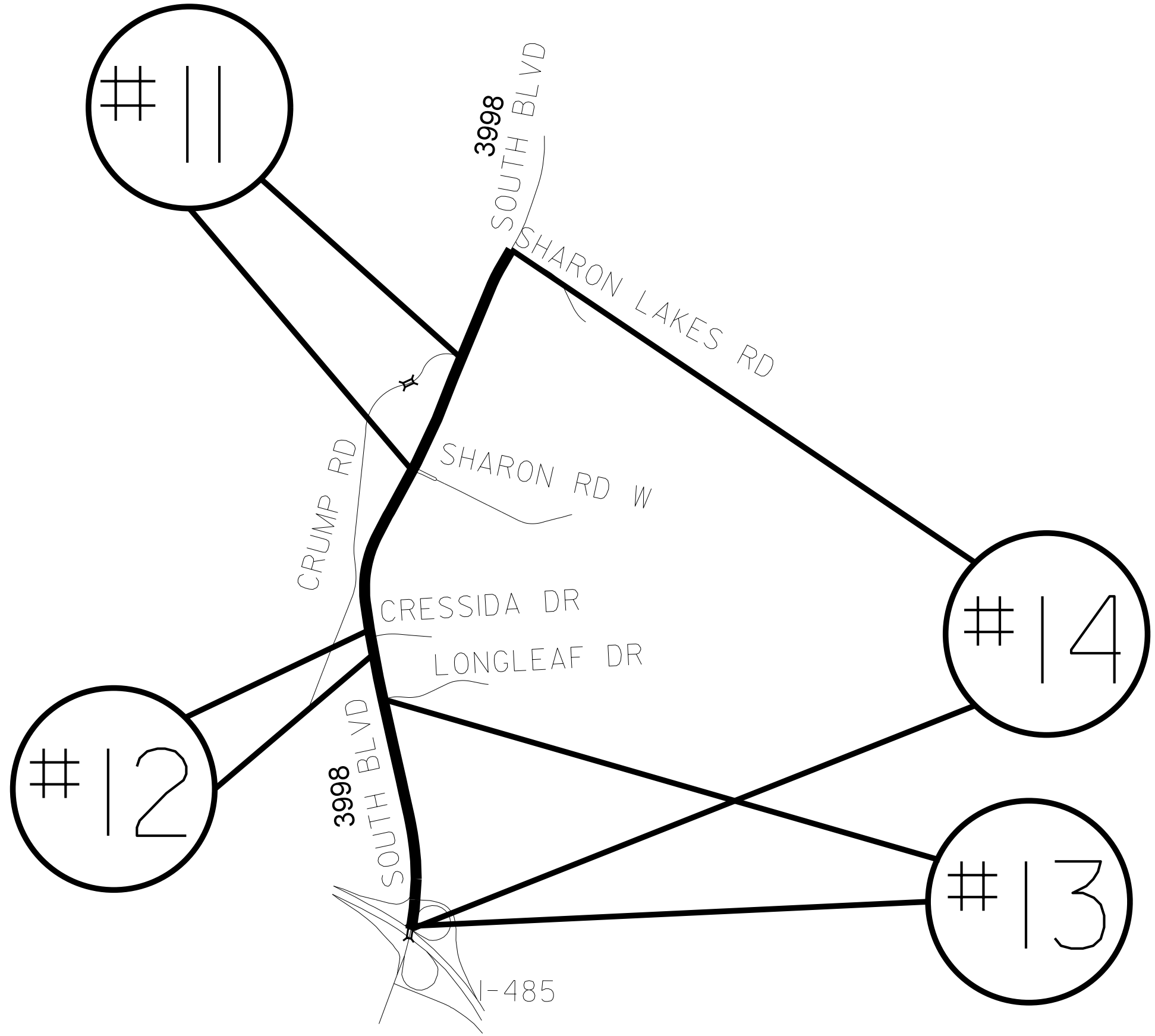
PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #11 SR 3998 SOUTH BLVD SBL  
0.32 MILES  
FROM .05 MILES NORTH OF CRUMP ROAD  
TO .10 SOUTH OF SHARON ROAD W

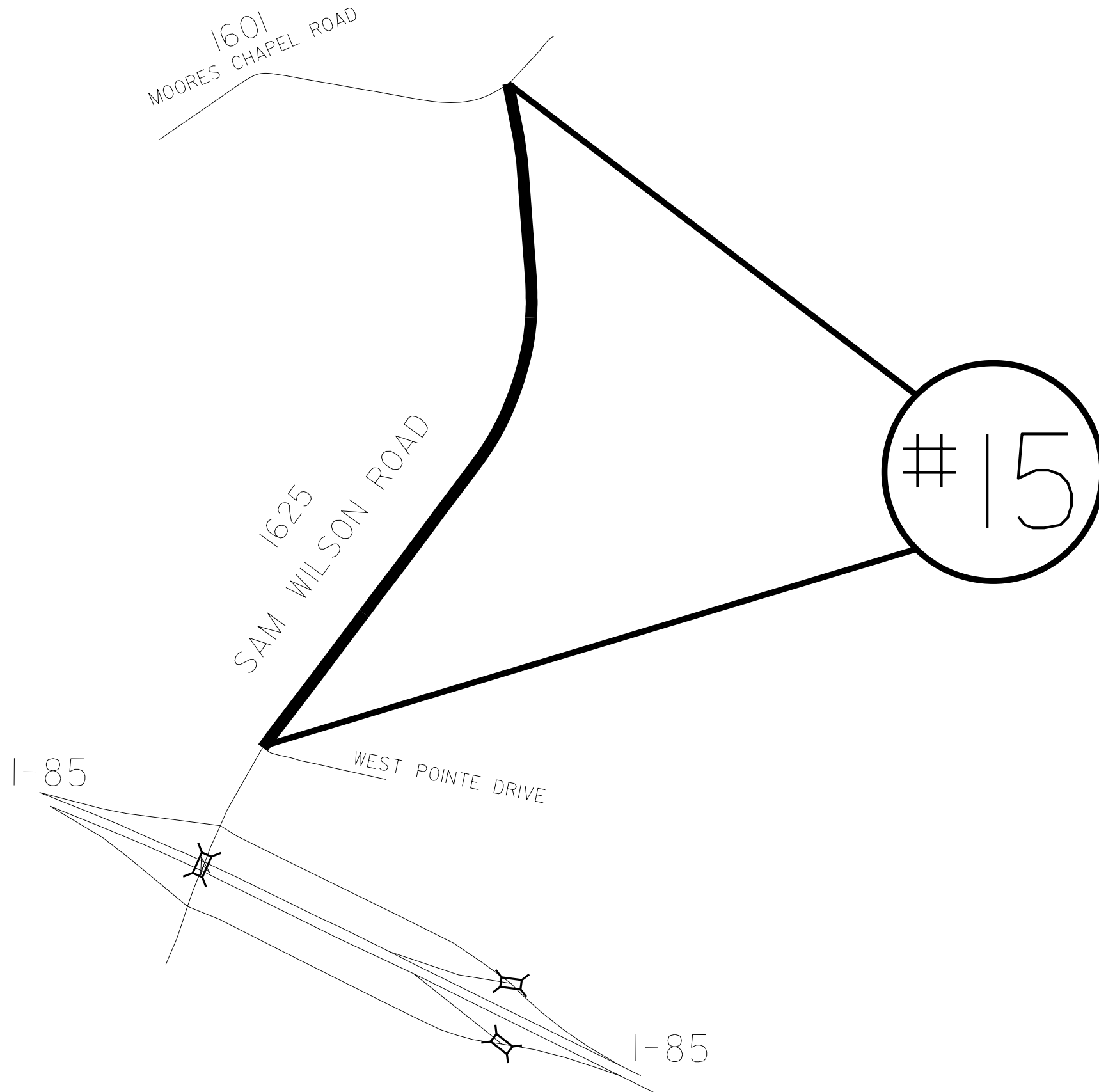
MAP #12 SR 3998 SOUTH BLVD SBL  
0.18 MILES  
FROM .09 MILES NORTH OF CRESSIDA DRIVE  
TO .09 MILES SOUTH OF CRESSIDA DRIVE

MAP #13 SR 3998 SOUTH BLVD SBL  
0.60 MILES  
FROM LONGLEAF DRIVE TO I-485 BRIDGE

MAP #14 SR 3998 SOUTH BLVD NBL  
1.92 MILES  
FROM I-485 BRIDGE TO SHARON LAKES ROAD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	8	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

## MECKLENBURG COUNTY

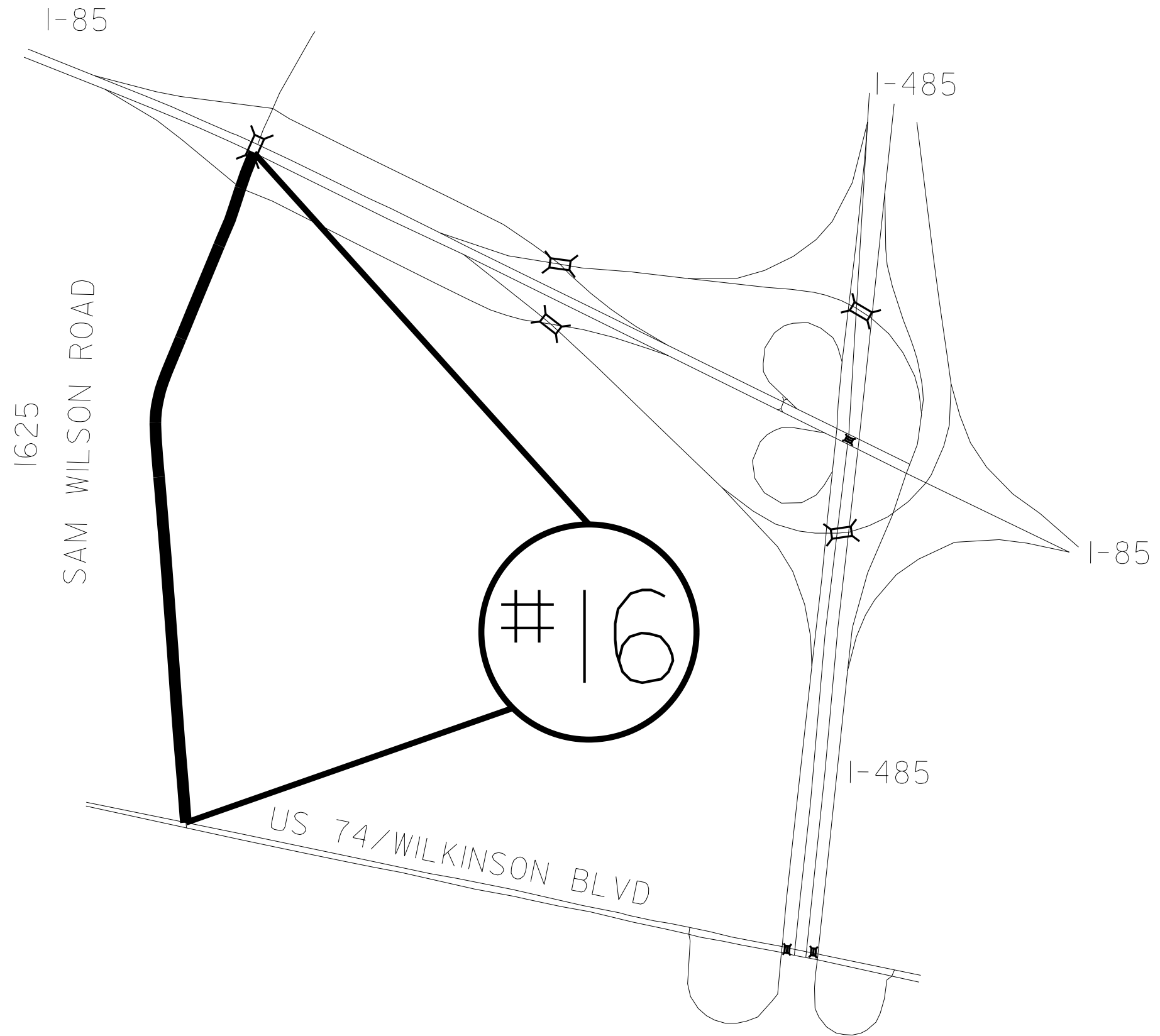
NORTH CAROLINA

PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #15 SR 1625 SAM WILSON ROAD  
0.96 MILES  
FROM PAVEMENT JOINT AT WEST POINTE DRIVE  
TO SR 1601 MOORES CHAPEL ROAD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	9	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

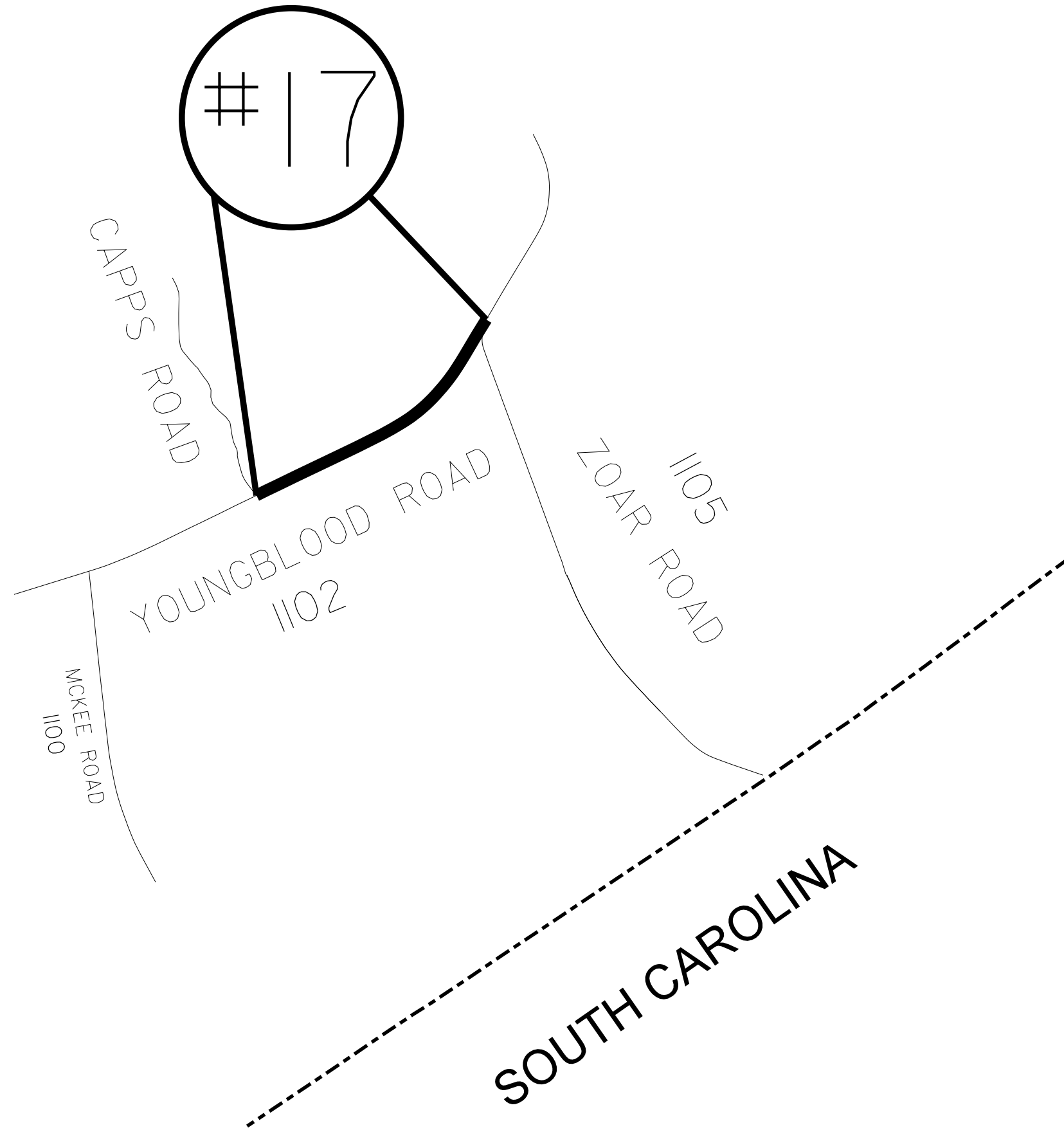
# MECKLENBURG COUNTY

NORTH CAROLINA

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #16 SR 1625 SAM WILSON ROAD  
0.88 MILES  
FROM US 74/WILKINSON BLVD  
TO I-85 BRIDGE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	10	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

NORTH CAROLINA

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #17 SR 1102 YOUNGBLOOD ROAD  
0.67 MILES  
FROM SR 1105 ZOAR ROAD  
TO CARPS ROAD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601		
F.A. PROJECT NO.			



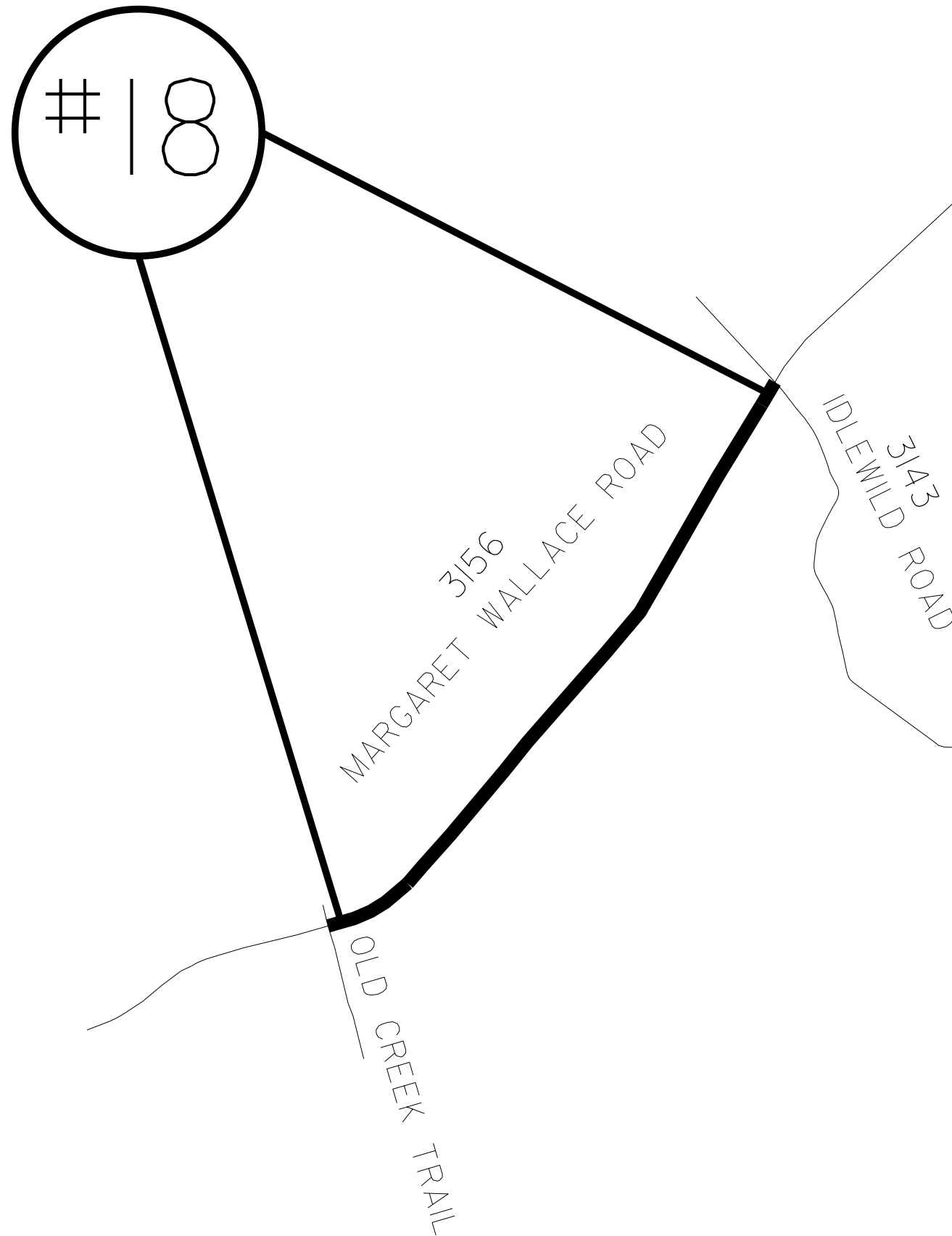
ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

NORTH CAROLINA

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #18 SR 3156 MARGARET WALLACE ROAD  
1.03 MILES  
FROM SR 3143 IDLEWILD ROAD  
TO OLD CREEK TRAIL



#19  
AND  
#20

#22

#21

EAST ROCKY RIVER

LECHEVAL LANE  
5391

CALLOWAY HILLS LANE  
5392

SHEARER RD  
2418

DEERHAVEN COURT  
5393

CABARRUS COUNTY

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	12	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

NORTH CAROLINA

PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

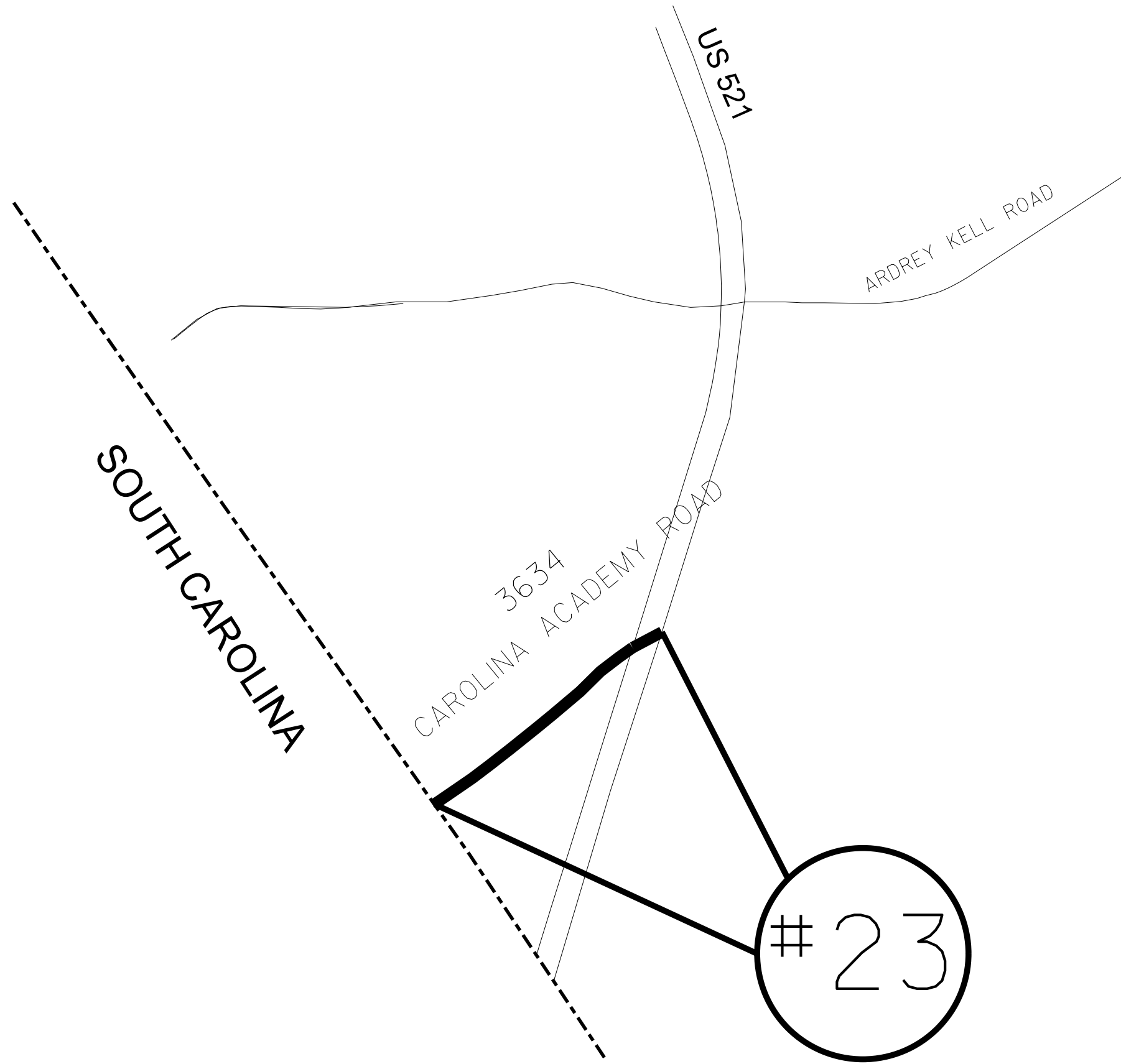
MAP #19 SR 5391 LECHEVAL LANE  
0.08 MILES  
FROM SR 2418 SHEARER ROAD  
TO SR 5392 CALLOWAY HILLS LANE

MAP #20 SR 5391 LECHEVAL LANE  
0.08 MILES  
FROM SR 5392 CALLOWAY HILLS LANE  
TO SR 2418 SHEARER ROAD

MAP #21 SR 5393 DEERHAVEN COURT  
0.06 MILES  
FROM SR 5392 CALLOWAY HILLS LANE TO  
END OF MAINTANANCE

MAP #22 5392 CALLOWAY HILLS LANE  
0.93 MILES  
FROM SR 5391 LECHEVAL LANE  
TO SR 5391 LECHEVAL LANE

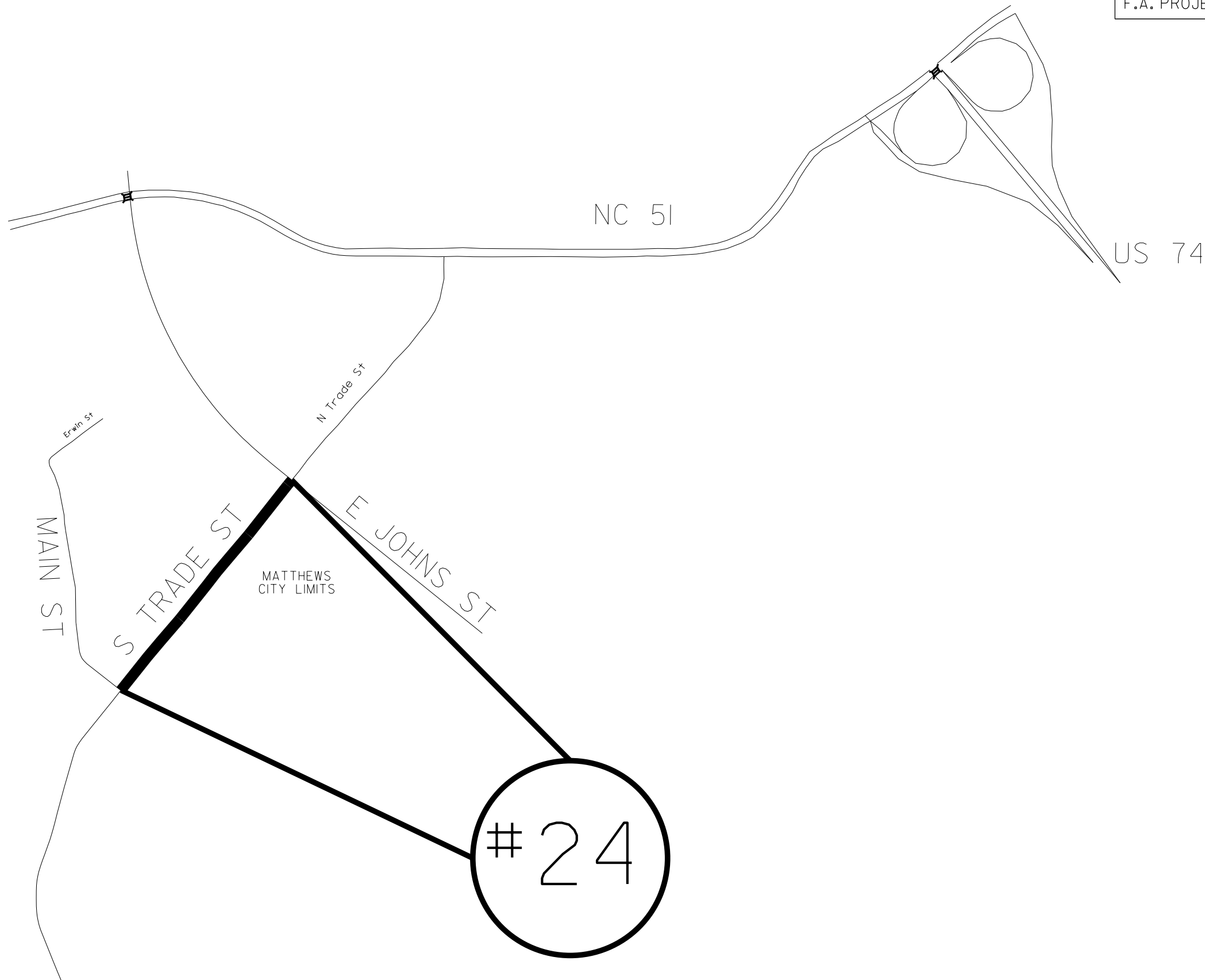
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	13	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**MECKLENBURG COUNTY**  
 NORTH CAROLINA  
PREPARED BY THE  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #23 SR 3634 CAROLINA ACADEMY ROAD  
 0.17 MILES  
 FROM US 521 TO  
 SOUTH CAROLINA STATE LINE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	14	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

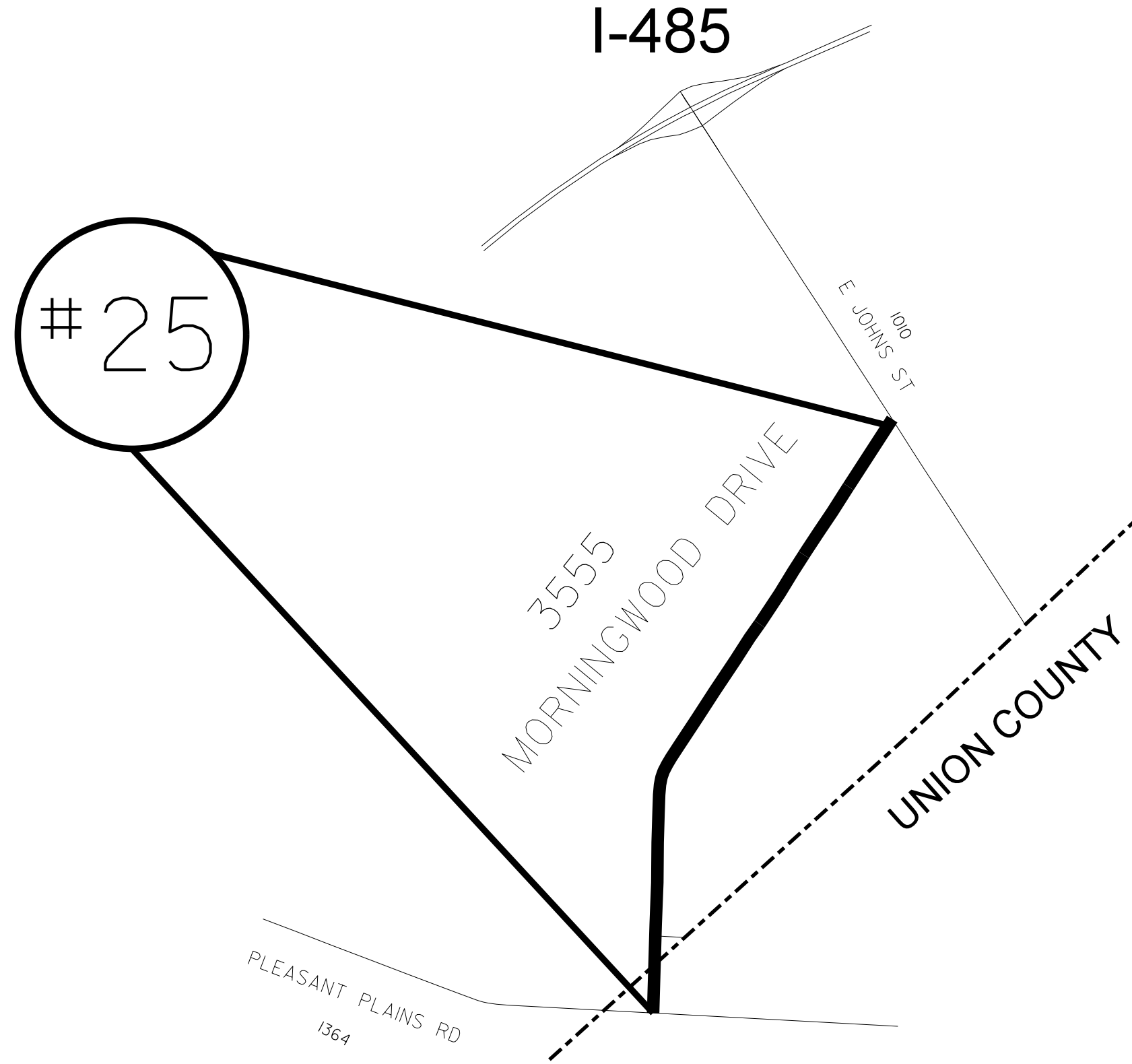
NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #24 SR 3448 SOUTH TRADE STREET  
0.29 MILES  
FROM MAIN STREET  
TO SR 1010 E JOHNS STREET

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	15	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

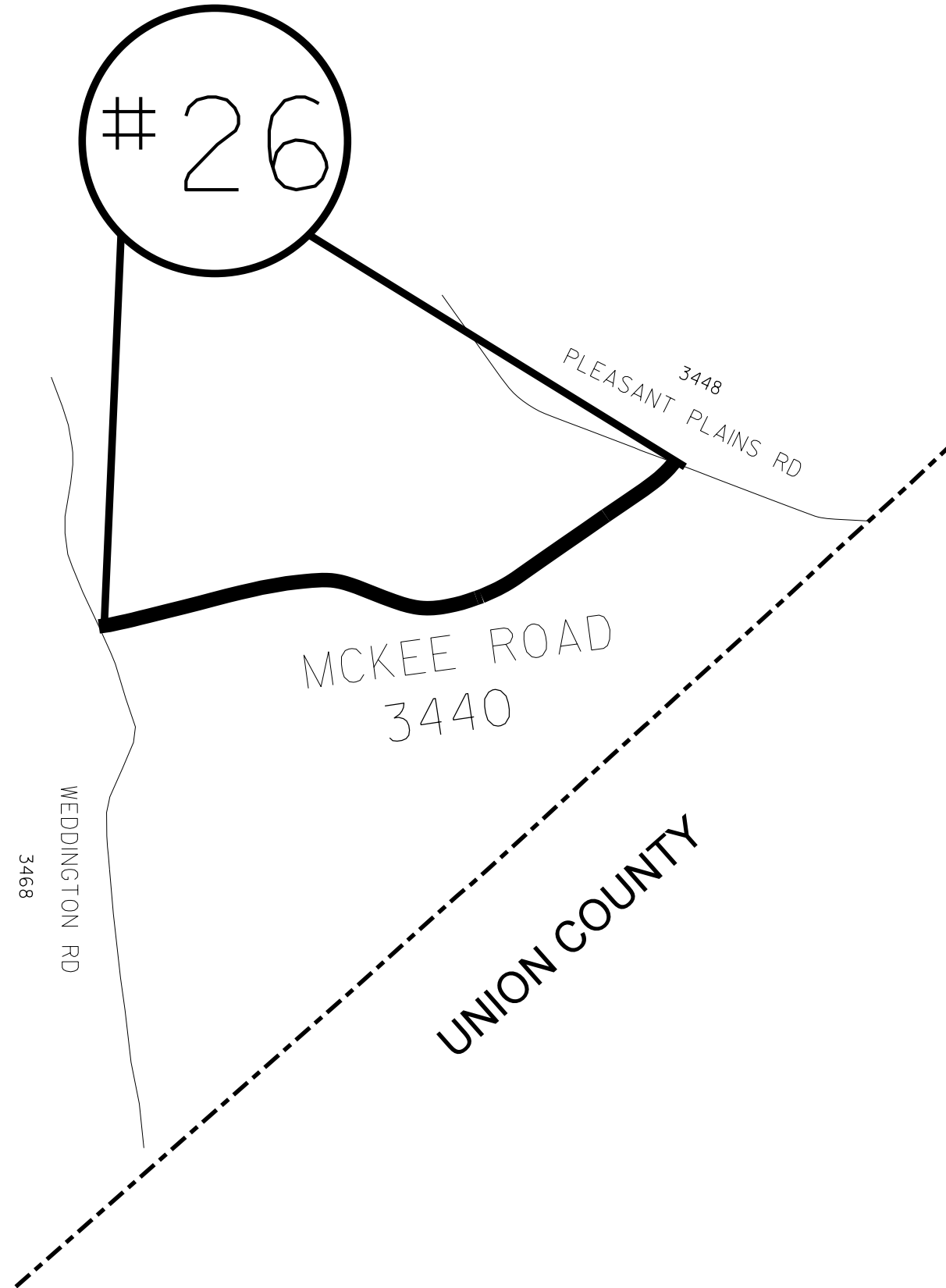
# MECKLENBURG COUNTY

NORTH CAROLINA

PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #25 SR 3555 MORNINGWOOD DRIVE  
0.58 MILES  
FROM SR 1010 E JOHNS STREET  
TO SR 1364 PLEASANT PLAINS ROAD

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	16	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

NORTH CAROLINA

PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #26 SR 3440 MCKEE ROAD  
1.16 MILES  
FROM SR 3448 PLEASANT PLAINS ROAD  
TO SR 3468 WEDDINGTON ROAD



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NC	2021CPT.10.15.10601 2021CPT.10.15.20601	17	
F.A. PROJECT NO.			

# 27

ROBINSON CHURCH RD

CAMP STEWART RD  
2808

TIMBERTOP LN

Harrisburg Rd  
2805

FIRST RUN COURT



ENLARGED MUNICIPAL AND SUBURBAN AREAS

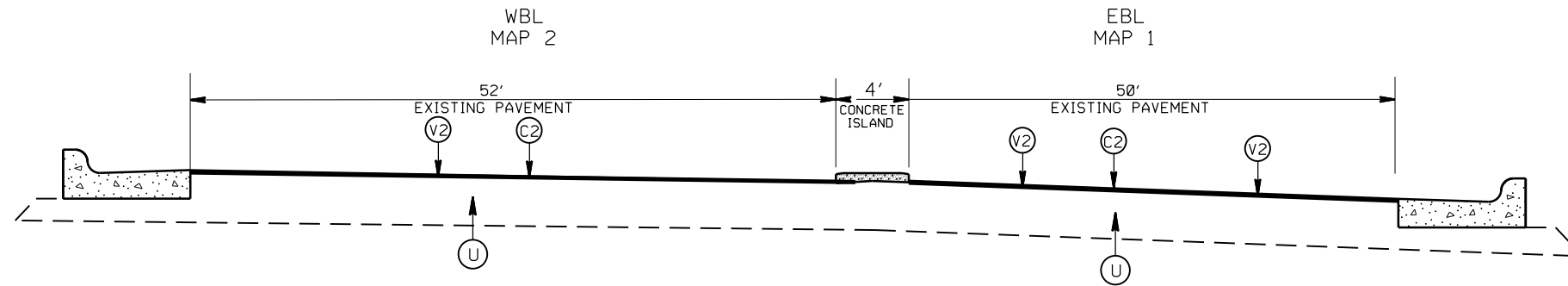
# MECKLENBURG COUNTY

NORTH CAROLINA

PREPARED BY THE  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 2

MAP #27 SR 2805 HARRISBURG ROAD  
1.48 MILES  
FROM SR 2808 CAMP STEWART ROAD  
TO FIRST RUN COURT

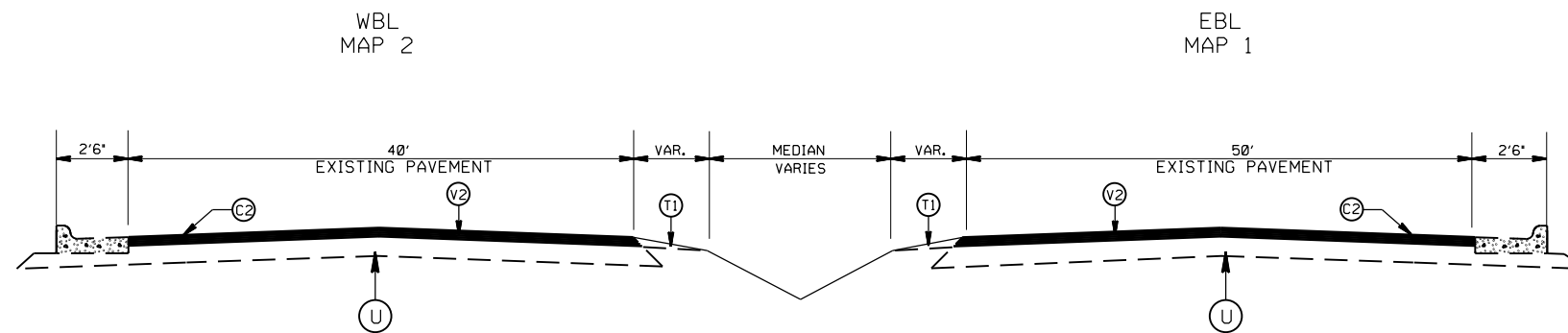
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	18	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 1  
US 74 EBL AND WBL (MAPS 1 AND 2)  
APPROX. STA: 10+00 TO 17+85

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

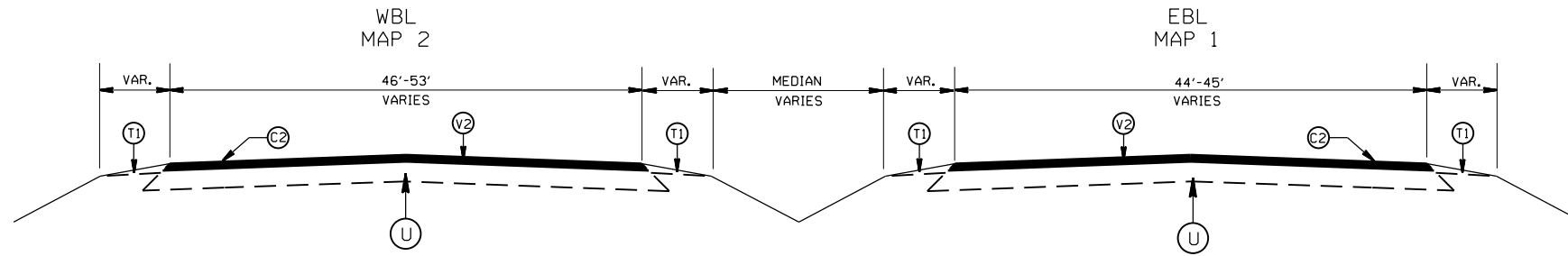


TYPICAL SECTION NO. 2  
US 74 EBL AND WBL (MAPS 1 AND 2)  
APPROX. STA: 17+85 TO 24+20

2021-2022  
MECKLENBURG COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	1/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

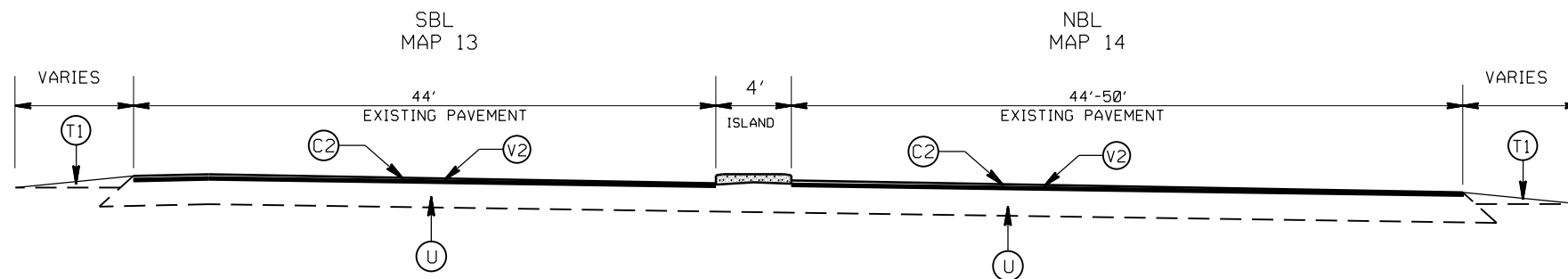
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	19	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 3  
 US 74 EBL AND WBL (MAPS 1 AND 2)  
 APPROX. STA: 24+20 TO 35+05  
 APPROX. STA: 45+45 TO 49+05

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION



TYPICAL SECTION NO. 4  
 SR 3998 SOUTH BLVD NBL (MAP 13)  
 SR 3998 SOUTH BLVD SBL (MAP 14)  
 US 74 INDEPENDENCE BLVD EB (MAP 1)  
 US 74 INDEPENDENCE BLVD WB (MAP 2)  
 APPROX. STA: 35+05 TO 45+45 (MAP 1&2)

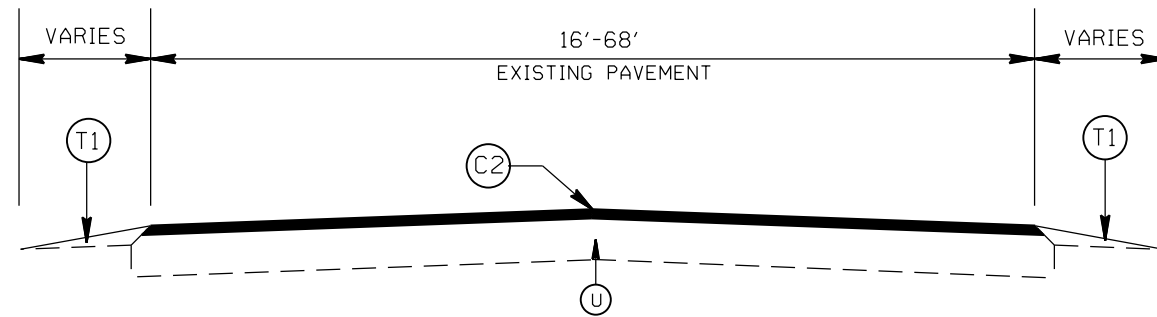
2021-2022  
 MECKLENBURG COUNTY RESURFACING

SCALE -NA-  
 DATE 1/21  
 DWG. BY AMO  
 DESIGN BY AMO  
 APPROVED CLA



REVISIONS

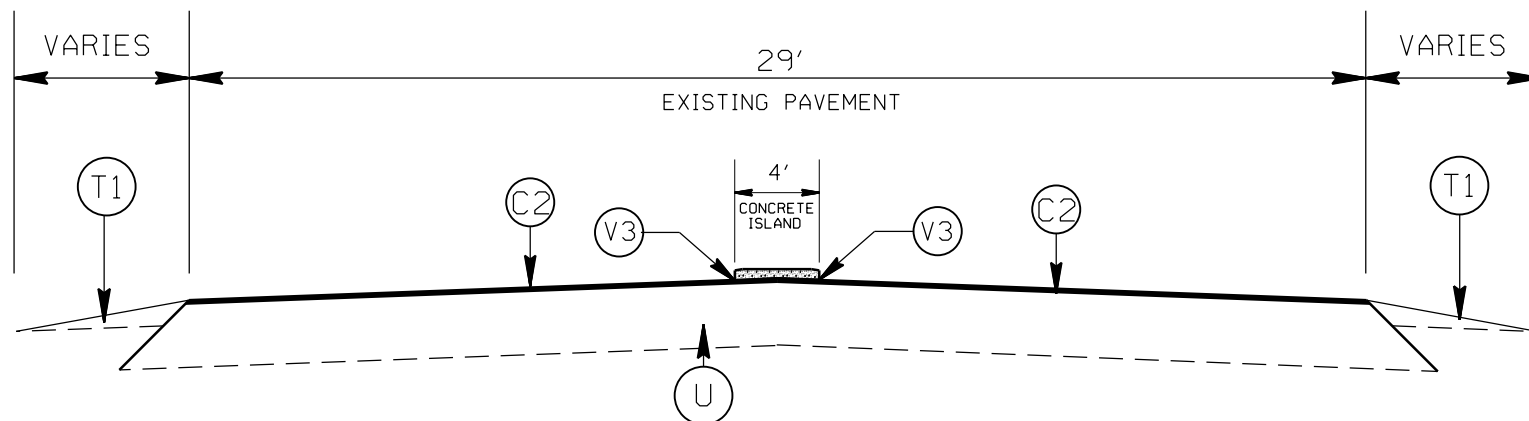

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	20	
F.A. PROJECT NO.			




TYPICAL SECTION NO. 5  
 NC 115 / OLD STATESVILLE ROAD (MAP 4)  
 SR 1102 YOUNGBLOOD ROAD (MAP 17)  
 NC HWY 160 / STEELE CREEK ROAD (MAP 3)  
 SR 1625 SAM WILSON ROAD (MAP 15)  
 SR 1625 SAM WILSON ROAD (MAP 16)  
 SR 3156 MARGARET WALLACE ROAD (MAP 18)  
 SR 3440 MCKEE ROAD (MAP 26)  
 SR 2805 HARRISBURG ROAD (MAP 27)

PAVEMENT SCHEDULE

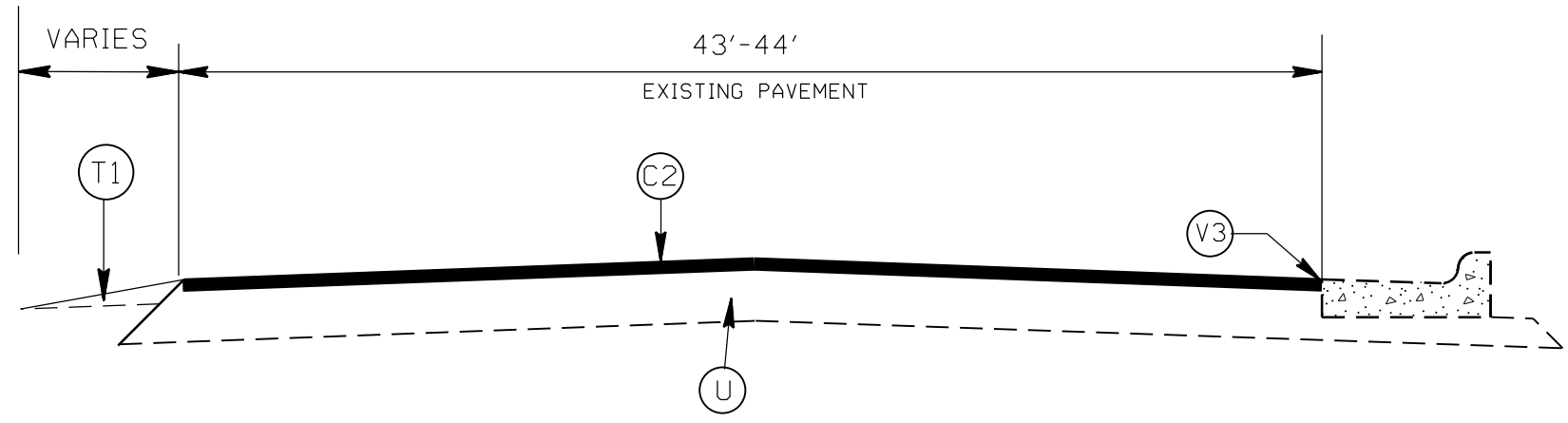
(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION



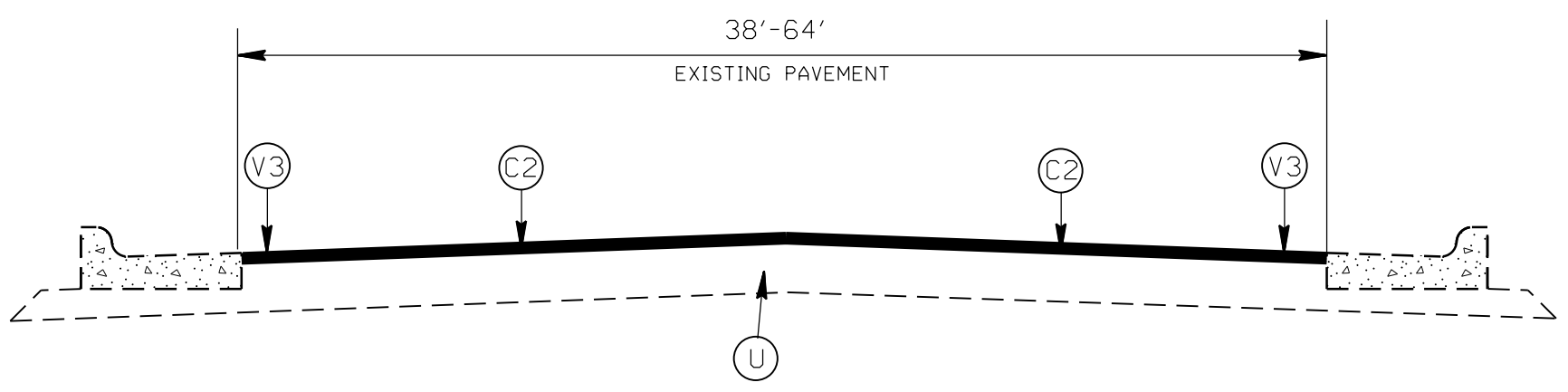
TYPICAL SECTION NO. 6  
 SR 3440 MCKEE ROAD (MAP 26)

2021-2022 MECKLENBURG COUNTY RESURFACING			
SCALE	-NA-		REVISIONS
DATE	1/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	21	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 7  
SR 3440 MCKEE ROAD (MAP 26)



TYPICAL SECTION NO. 8  
SR 3440 MCKEE ROAD (MAP 26)

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

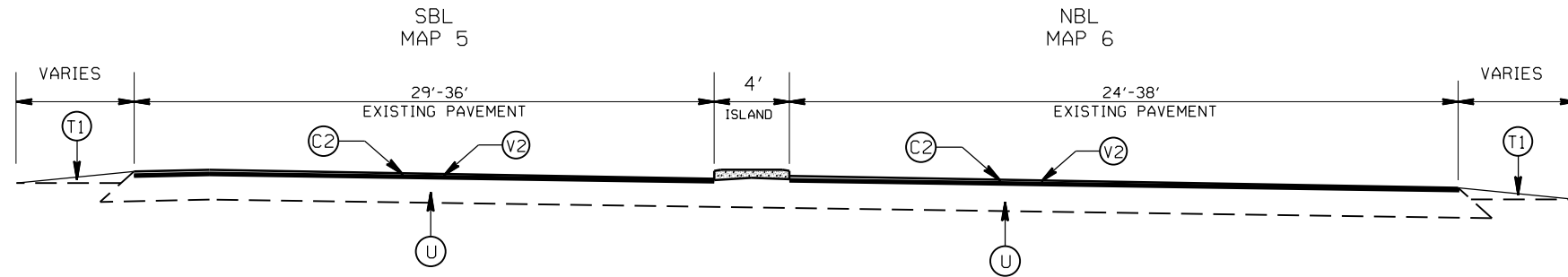
2021-2022  
MECKLENBURG COUNTY RESURFACING

SCALE	-NA-
DATE	1/21
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	CLA



REVISIONS	

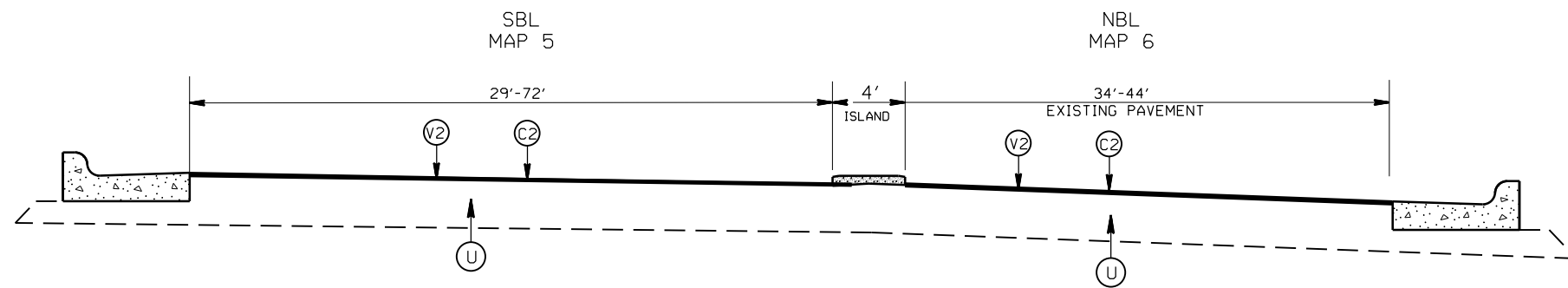
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	22	
F.A. PROJECT NO.			




TYPICAL SECTION NO. 9  
 NC 16 BROOKSHIRE BLVD NBL (MAP 6)  
 NC 16 BROOKSHIRE BLVD SBL (MAP 5)

PAVEMENT SCHEDULE

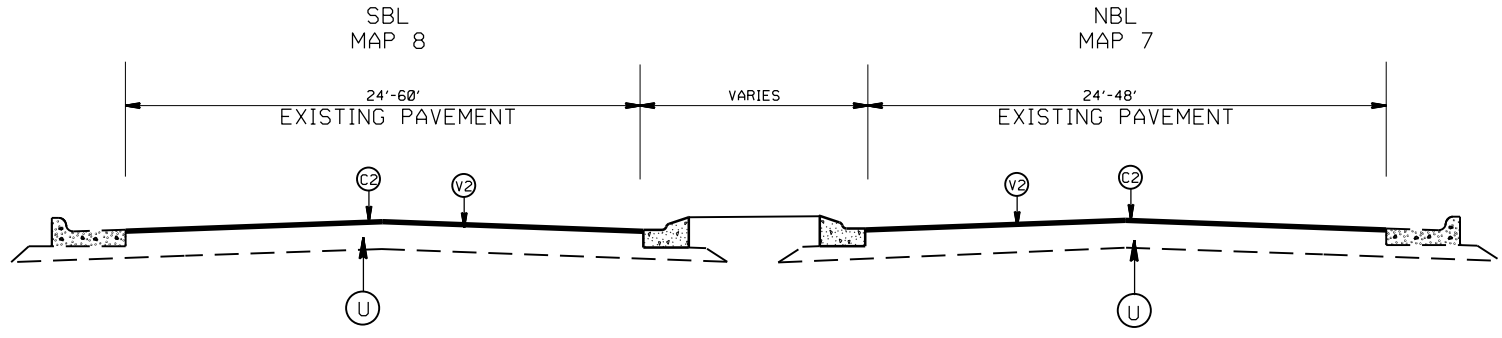
(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION



TYPICAL SECTION NO. 10  
 NC 16 BROOKSHIRE BLVD NBL (MAP 6)  
 NC 16 BROOKSHIRE BLVD SBL (MAP 5)

2021-2022 MECKLENBURG COUNTY RESURFACING			
SCALE	-NA-		REVISIONS
DATE	1/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

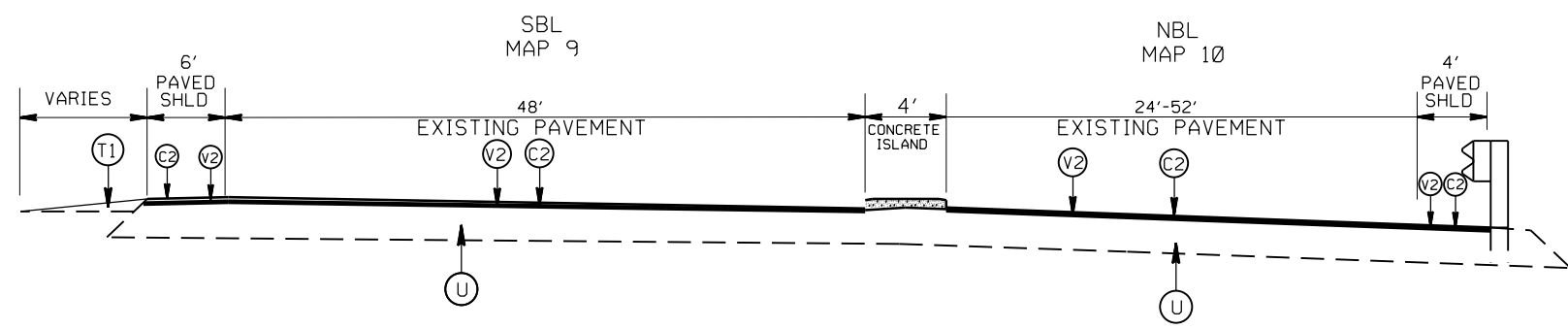
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	23	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 11  
 NC 16/PROVIDENCE ROAD NBL (MAP 7)  
 NC 16/PROVIDENCE ROAD SBL (MAP 8)

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

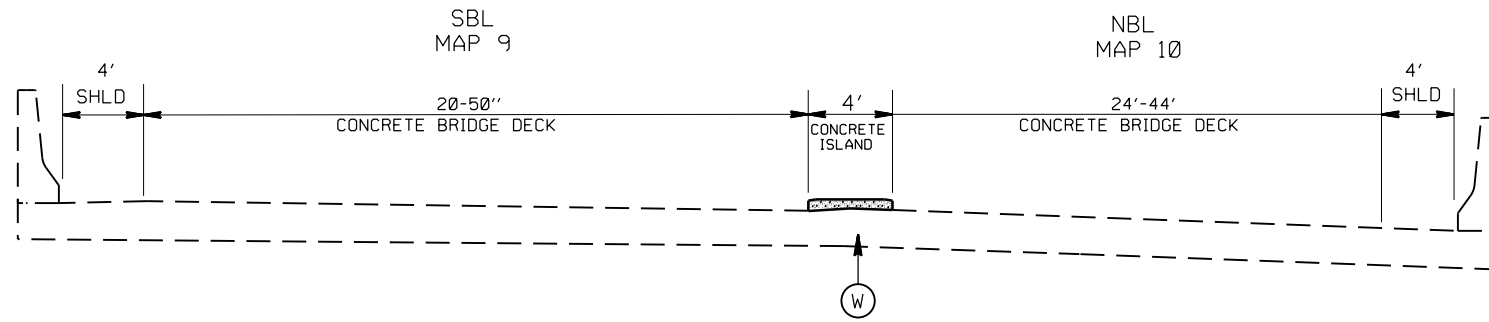


TYPICAL SECTION NO. 12  
 SR 2805 HARRISBURG ROAD (MAPS 9 AND 10)

2021-2022  
 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-		REVISIONS	
DATE	1/21			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

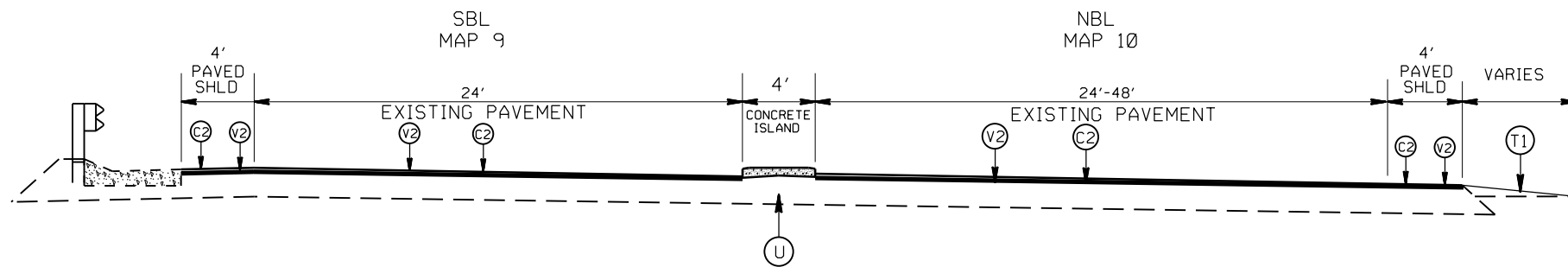
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	202ICPT.J0.15.10601 202ICPT.J0.15.20601	24	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 13  
 SR 2805 HARRISBURG ROAD (MAPS 9 AND 10)  
 FROM APPROX. STA: 12+15 TO 15+25  
 NO WORK ON CONCRETE BRIDGE

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION



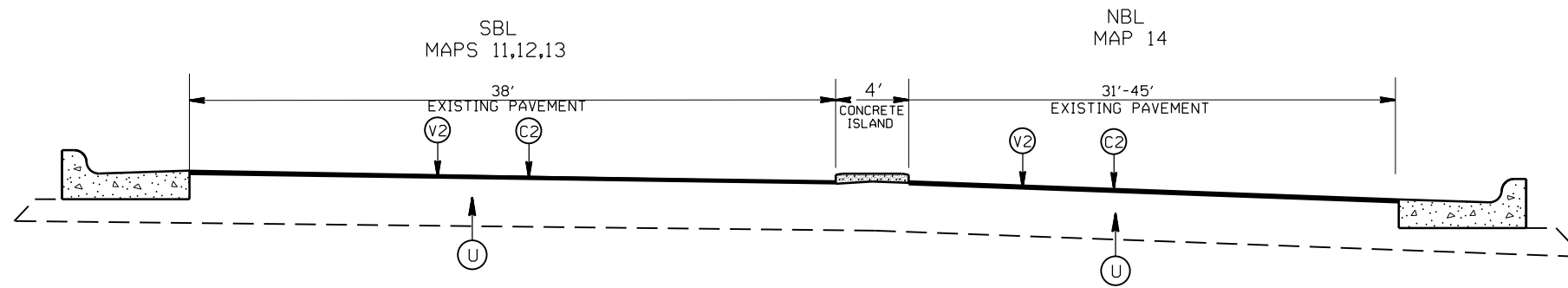
TYPICAL SECTION NO. 14  
 SR 2805 HARRISBURG ROAD (MAPS 9 AND 10)  
 FROM APPROX. STA: 15+25 TO END OF PROJECT

2021-2022  
 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	1/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		



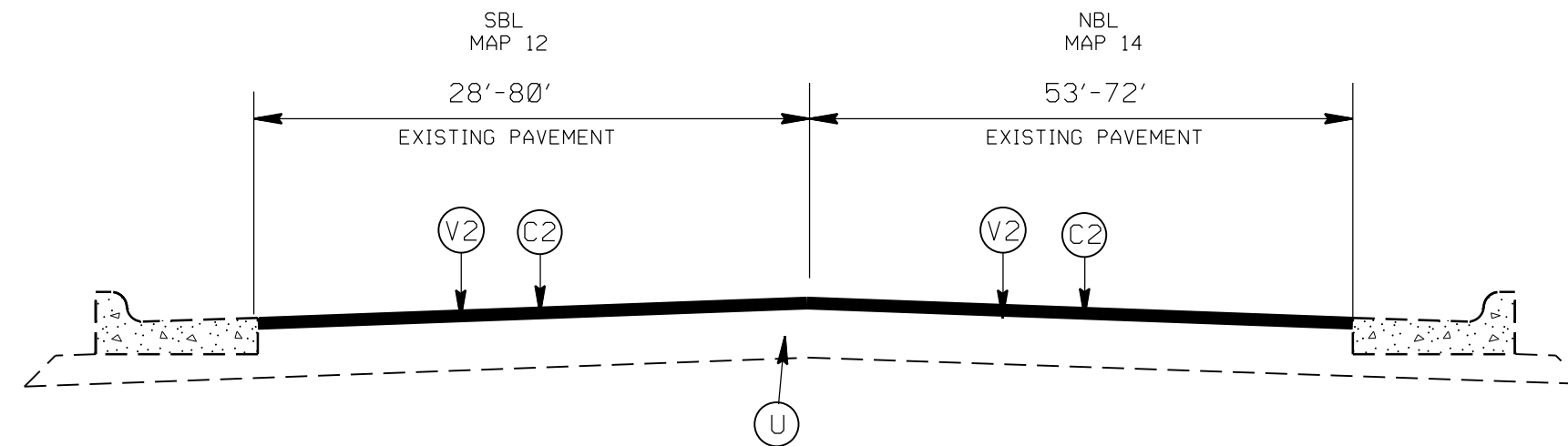
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	25	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 15  
 SR 3998 SOUTH BLVD NBL (MAP 14)  
 SR 3998 SOUTH BLVD SBL (MAPS 11, 12 AND 13)


PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

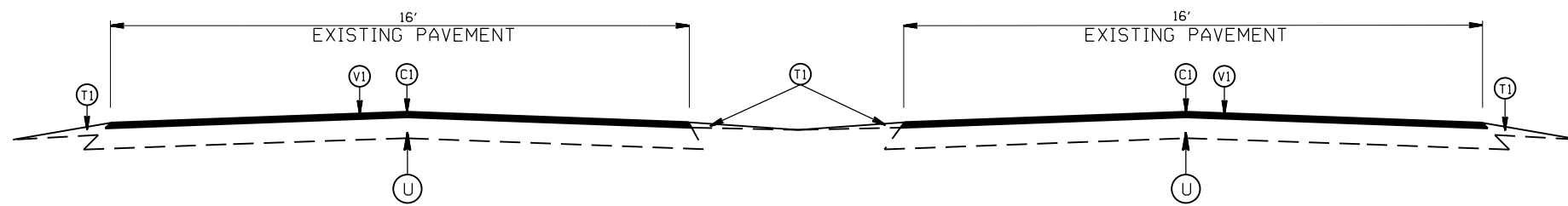


TYPICAL SECTION NO. 16  
 SR 3998 SOUTH BLVD NBL (MAP 14)  
 SR 3998 SOUTH BLVD SBL (MAP 12)

2021-2022  
MECKLENBURG COUNTY RESURFACING

SCALE	-NA-		REVISIONS	
DATE	1/21			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

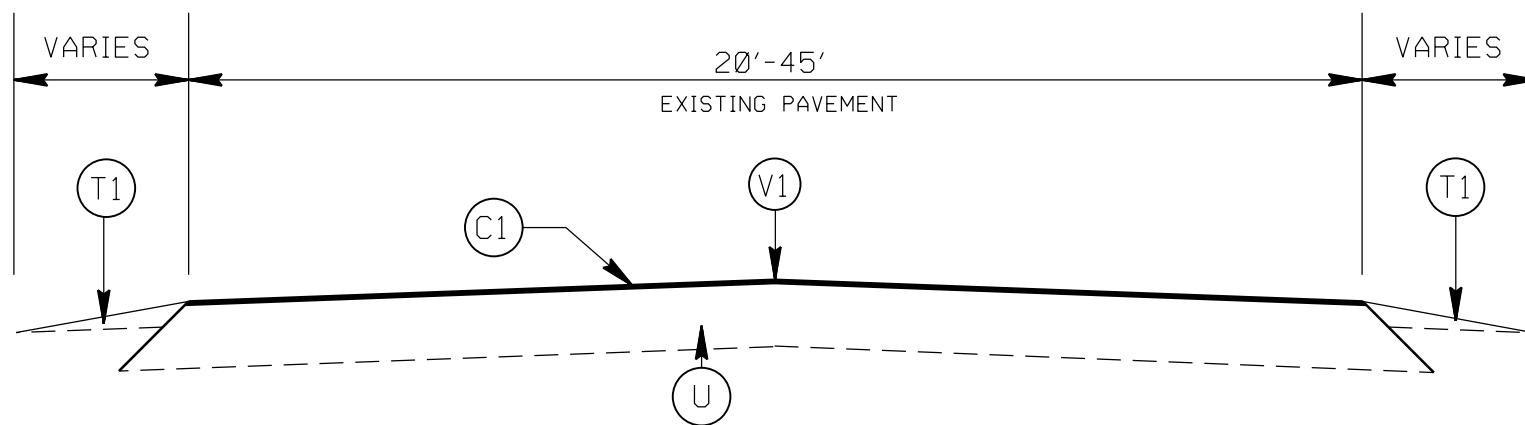
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.J5.10601 2021CPT.10.J5.20601	26	
F.A. PROJECT NO.			




TYPICAL SECTION NO. 17  
SR 5391 LECHEVAL LANE (MAPS 19 AND 20)

PAVEMENT SCHEDULE

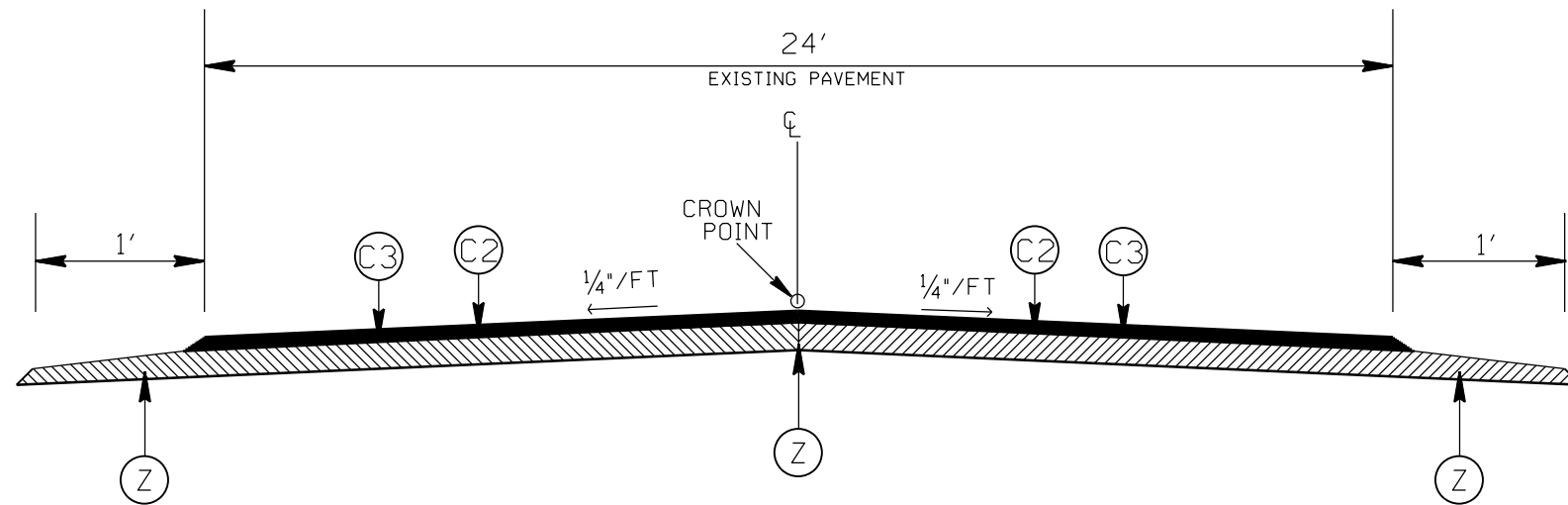
(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION



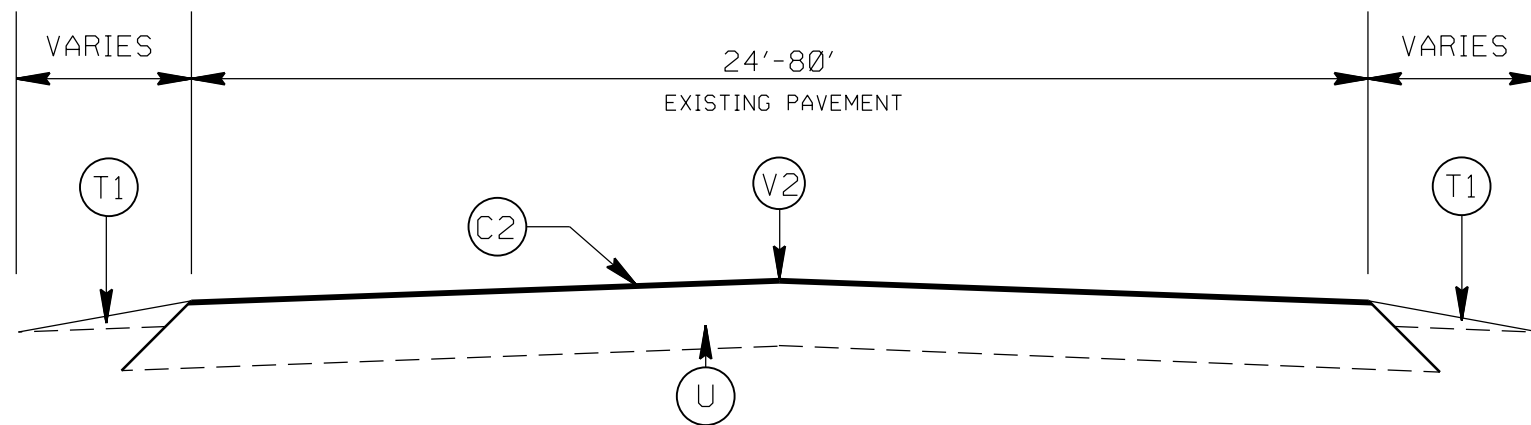
TYPICAL SECTION NO. 18  
SR 5392 CALLOWAY HILLS LANE (MAP 22)  
SR 5393 DEERHAVEN COURT (MAP 21)

2021-2022 MECKLENBURG COUNTY RESURFACING			
SCALE	-NA-		REVISIONS
DATE	1/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	27	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 19  
SR 3555 MORNINGWOOD DRIVE (MAP 25)




TYPICAL SECTION NO. 20  
SR 3634 CAROLINA ACADEMY DRIVE (MAP 23)  
FROM APPROX. STA: 10+65 END OF PROJECT

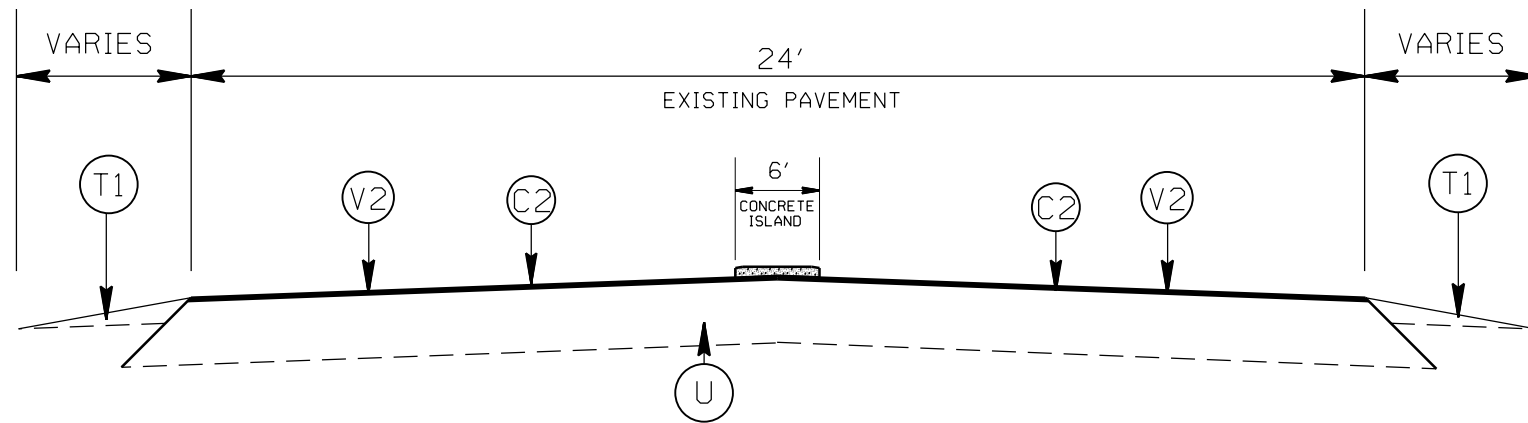
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

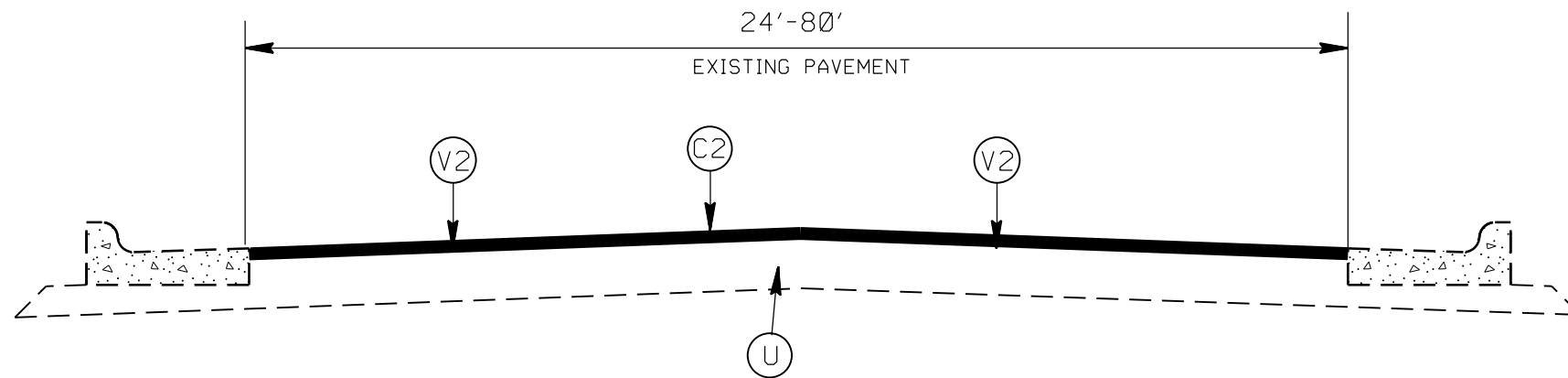
2021-2022  
MECKLENBURG COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	1/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	28	
F.A. PROJECT NO.			




TYPICAL SECTION NO. 21  
SR 3634 CAROLINA ACADEMY DRIVE (MAP 23)  
FROM APPROX. STA: 10+00 TO 10+65



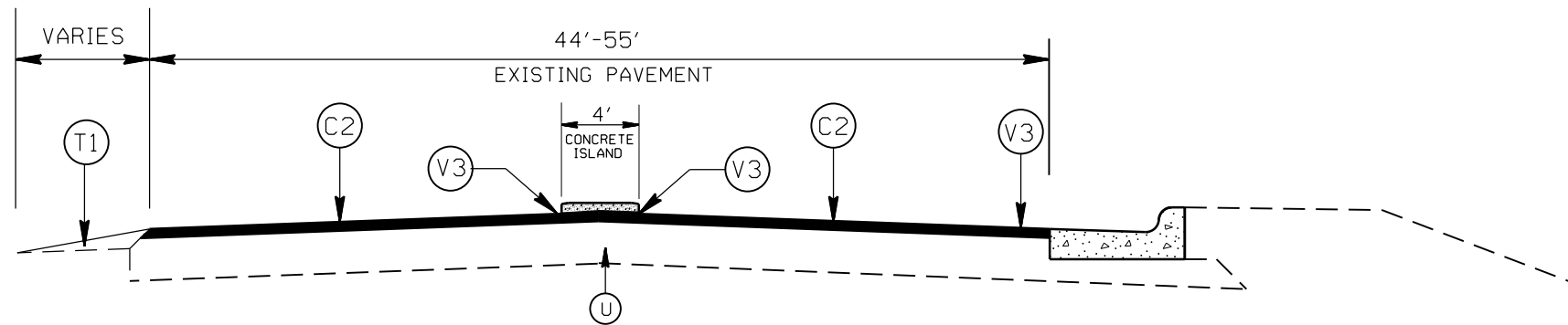
TYPICAL SECTION NO. 22  
SR 3448 SOUTH TRADE STREET (MAP 24)  
SR 3634 CAROLINA ACADEMY (MAP 23)

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

2021-2022 MECKLENBURG COUNTY RESURFACING				
SCALE	-1A-		REVISIONS	
DATE	1/21			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

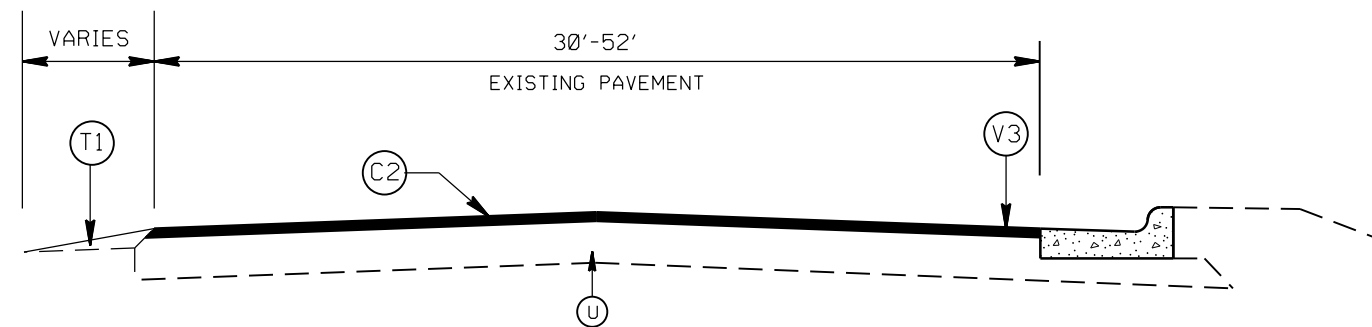
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	29	
F.A. PROJECT NO.			




TYPICAL SECTION NO. 23  
 SR 3440 MCKEE ROAD (MAP 26)  
 SR 3156 MARGARET WALLACE ROAD (MAP 18)

PAVEMENT SCHEDULE

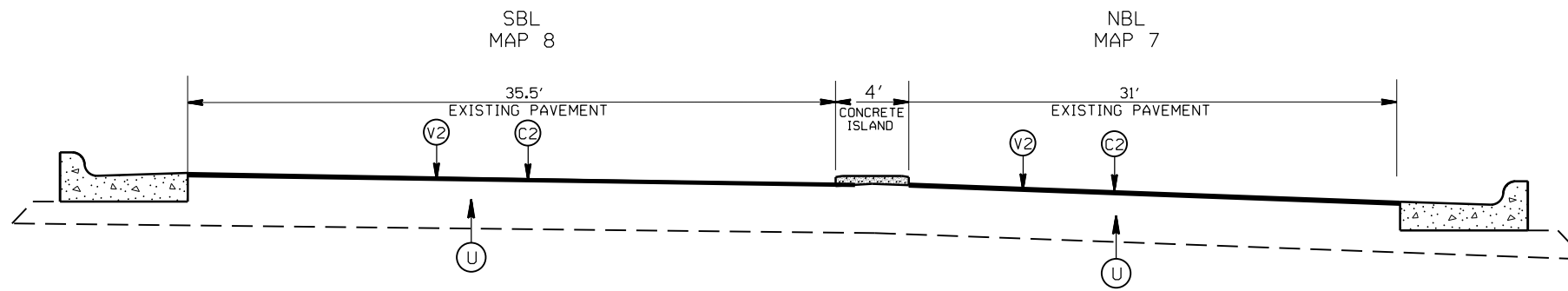
(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION



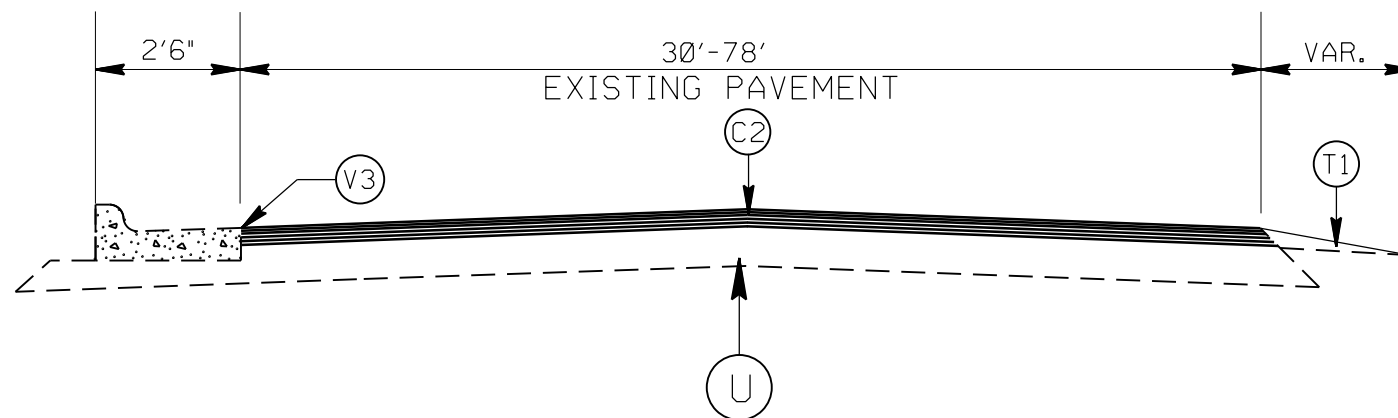
TYPICAL SECTION NO. 24  
 SR 1625 SAM WILSON ROAD (MAP 15)  
 SR 1625 SAM WILSON ROAD (MAP 16)  
 SR 3156 MARGARET WALLACE ROAD (MAP 18)

2021-2022 MECKLENBURG COUNTY RESURFACING			
SCALE	-NA-		REVISIONS
DATE	1/21		
DWG. BY	AMO		
DESIGN BY	AMO		
APPROVED	CLA		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	30	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 25  
 NC 16/PROVIDENCE ROAD NBL (MAP 7)  
 NC 16/PROVIDENCE ROAD SBL (MAP 8)



TYPICAL SECTION NO. 26  
 SR 2805 HARRISBURG ROAD (MAP 27)

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

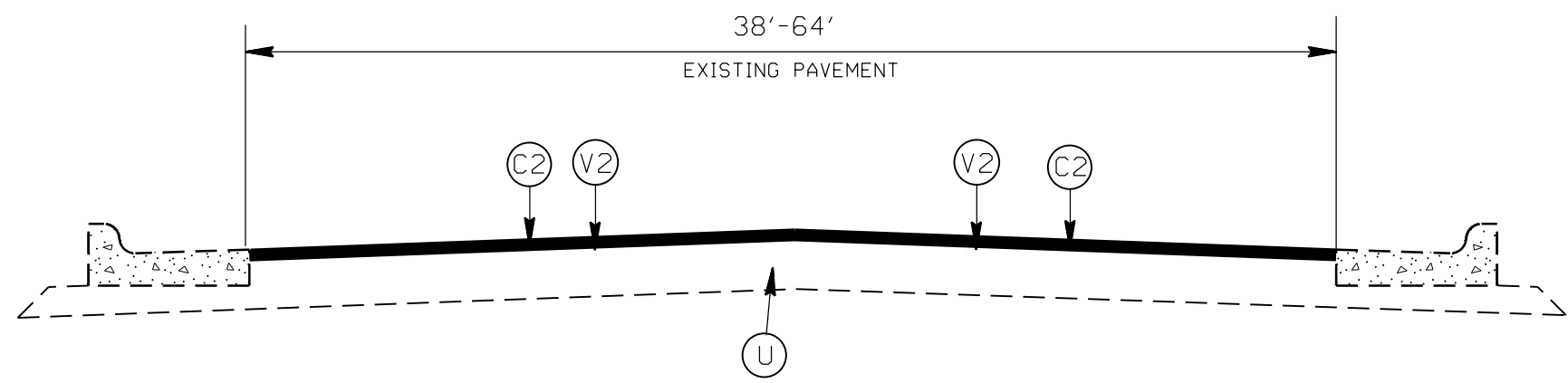
2021-2022  
 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-
DATE	1/21
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	CLA



REVISIONS


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	31	
F.A. PROJECT NO.			




TYPICAL SECTION NO. 27  
NC 115/OLD STATESVILLE ROAD (MAP 4)

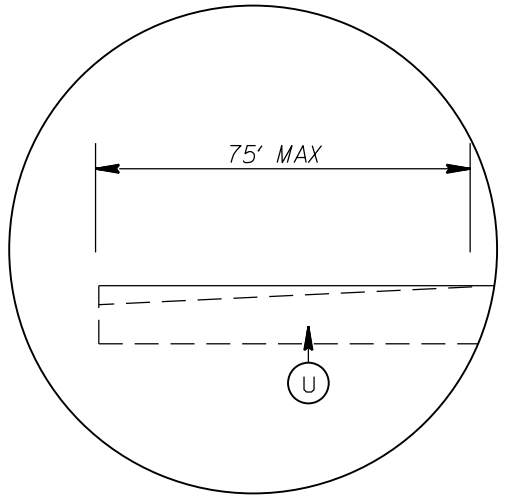
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

2021-2022  
MECKLENBURG COUNTY RESURFACING

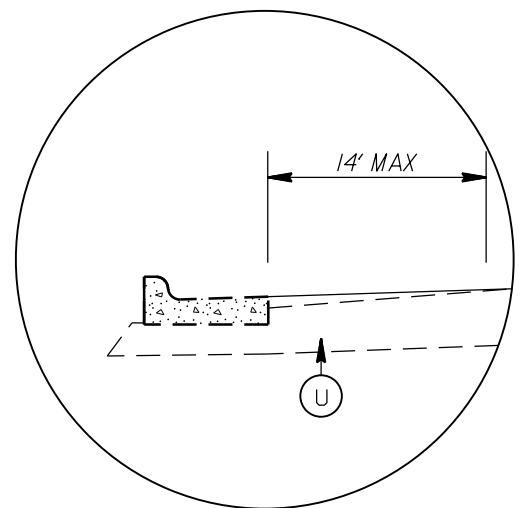
SCALE	-NA-		REVISIONS	
DATE	1/21			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	2021CPT.10.15.10601 2021CPT.10.15.20601	32	
F.A. PROJECT NO.			

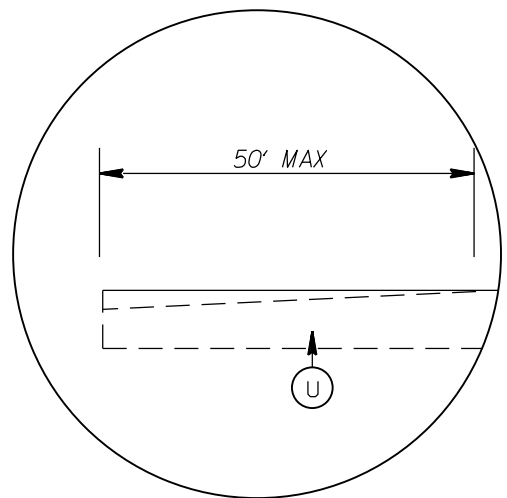


DETAIL FOR INCIDENTAL MILLING (0" TO 1.5")

TIE-IN

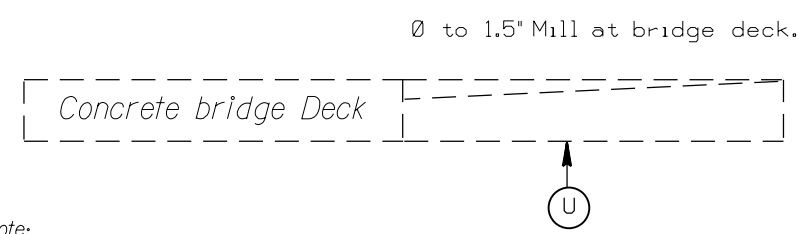


DETAIL FOR PROFILE MILLING (0- 1.5")

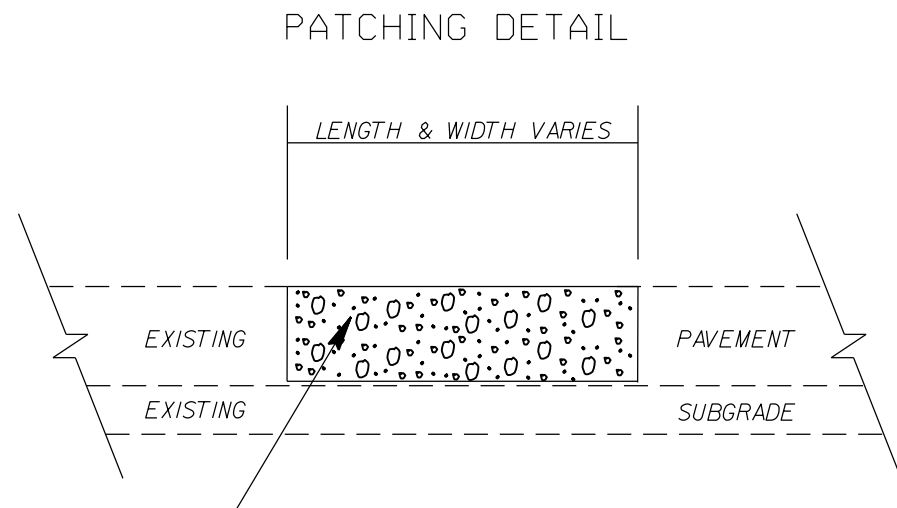


DETAIL FOR INCIDENTAL MILLING (0" TO 1.0")

TIE-IN



Note:  
1. Milling shall be performed at the bridge approaches as directed by the Engineer, in accordance with this detail.



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

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 2.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C3)	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
(T1)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(V1)	MILL EXISTING ASPHALT PAVEMENT, 2.0" DEPTH.
(V2)	MILL EXISTING ASPHALT PAVEMENT, 1.5" DEPTH.
(V3)	PROFILE MILL EXISTING PAVEMENT, 0 - 1.5" DEPTH.
(W)	CONCRETE BRIDGE DECK
(Z)	FULL DEPTH RECLAMATION

2021-2022  
MECKLENBURG COUNTY RESURFACING

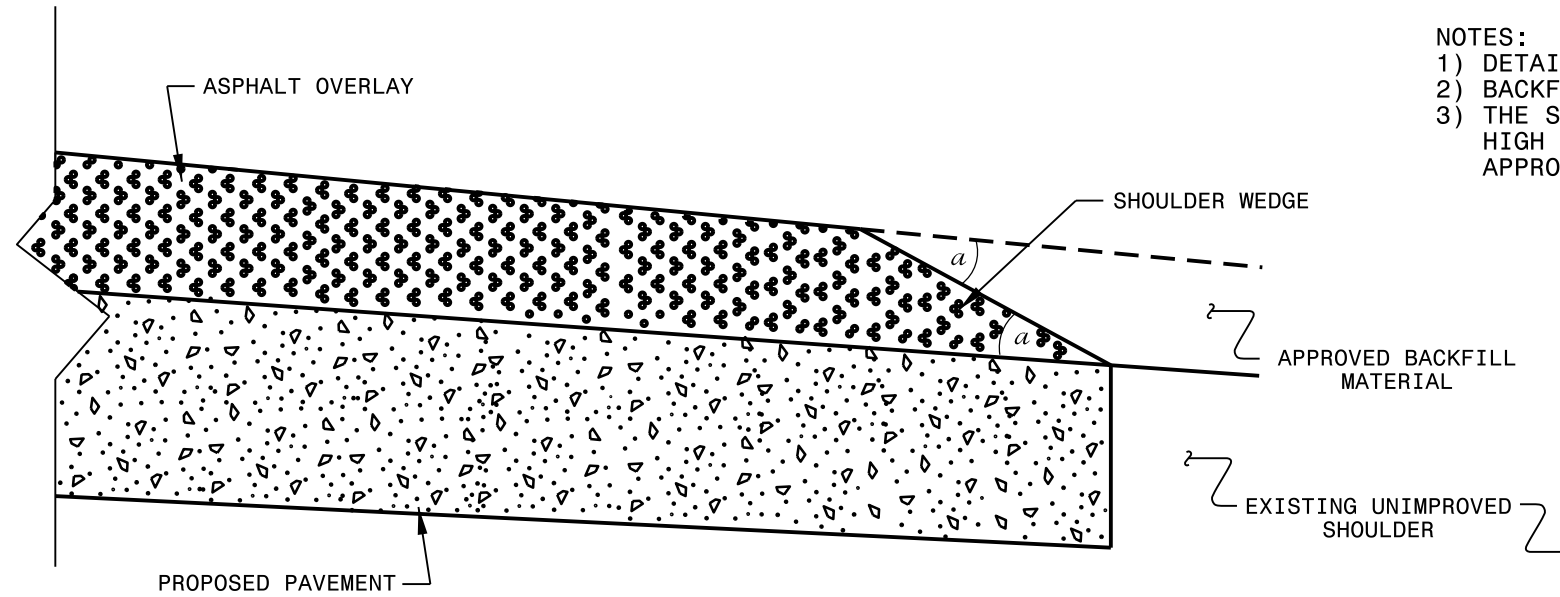
SCALE	-NA-		REVISIONS	
DATE	1/21			
DWG. BY	AMO			
DESIGN BY	AMO			
APPROVED	CLA			



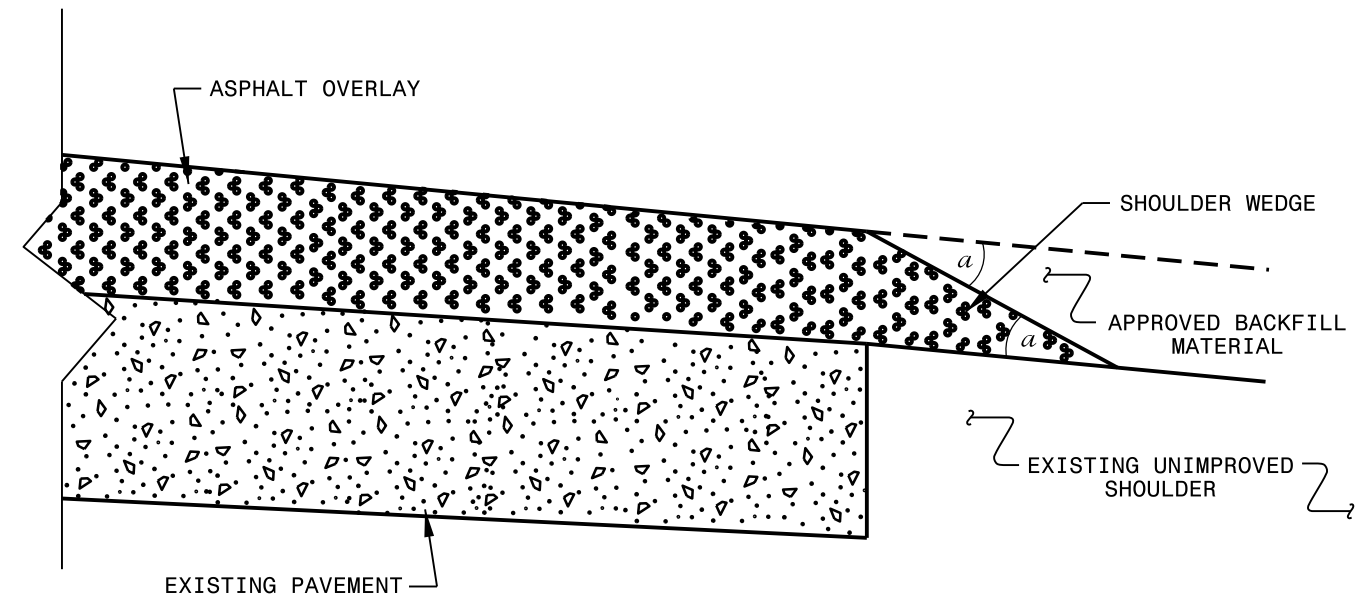
etc.

**NOTES:**

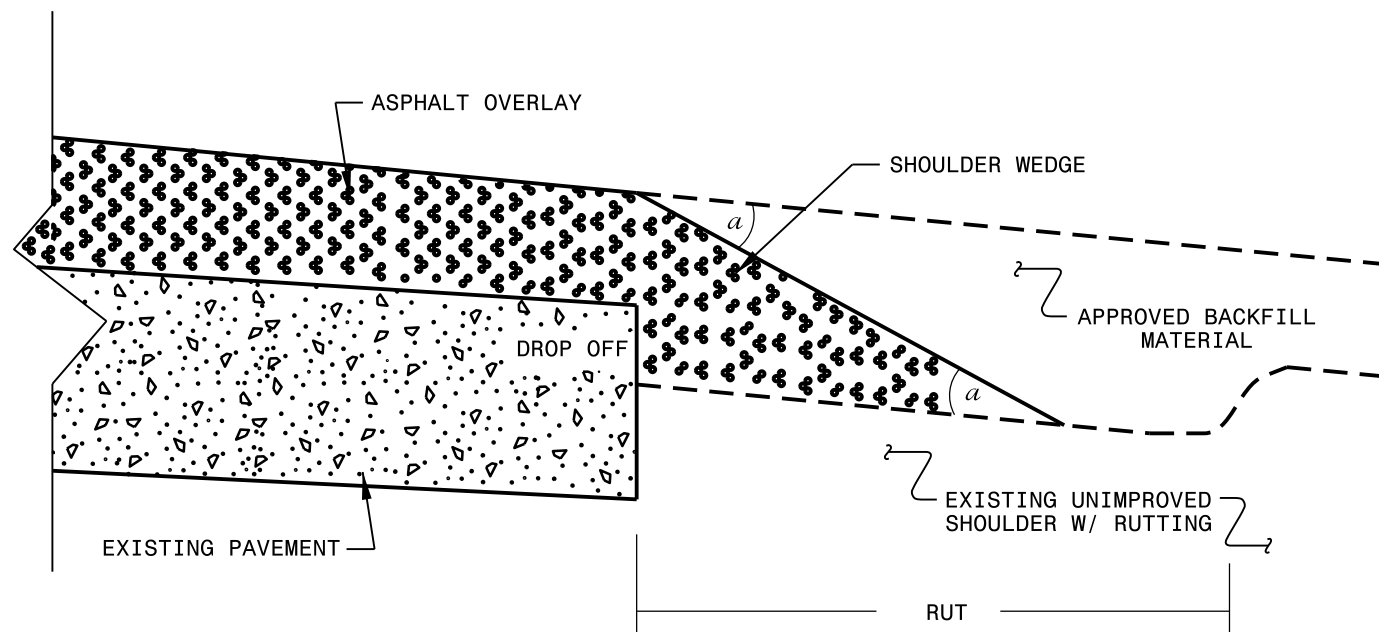
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ Widening or  
 with Existing Paved Shoulder having no dropoffs)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)



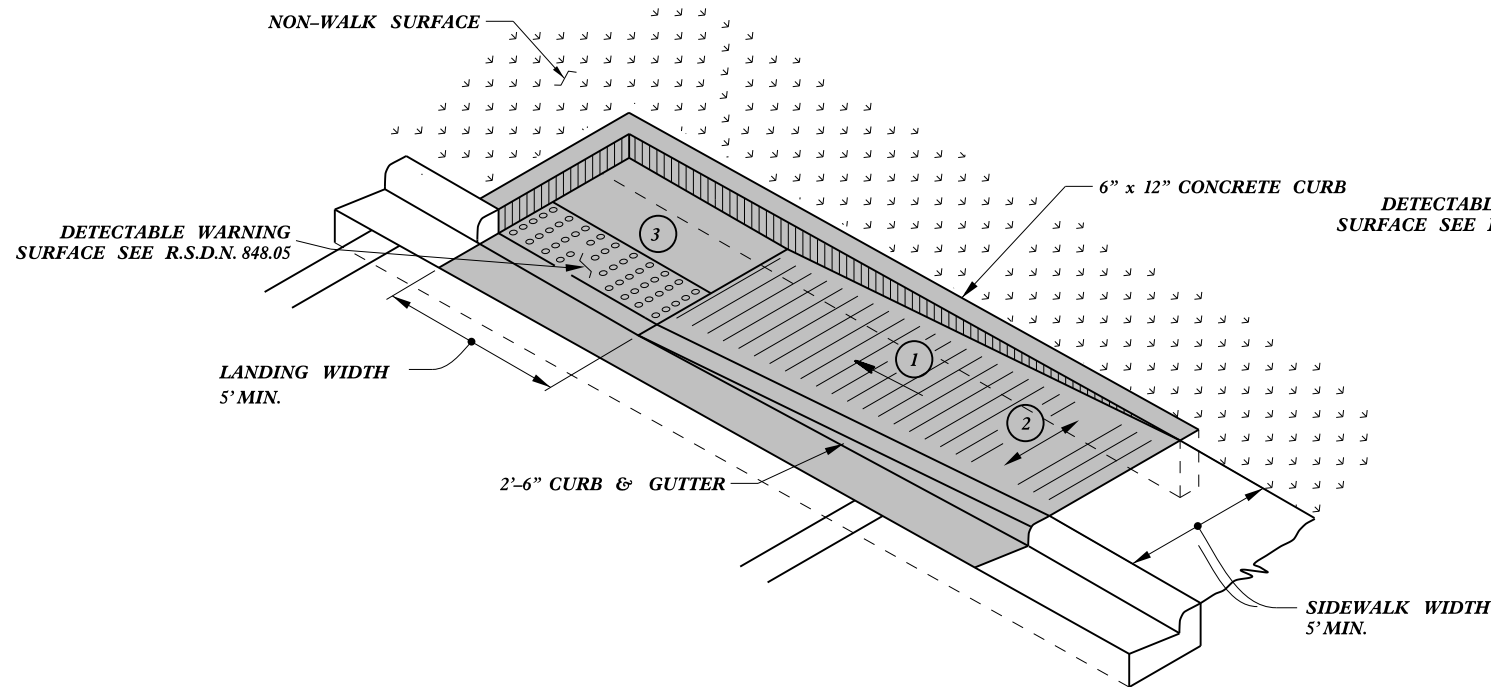
**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

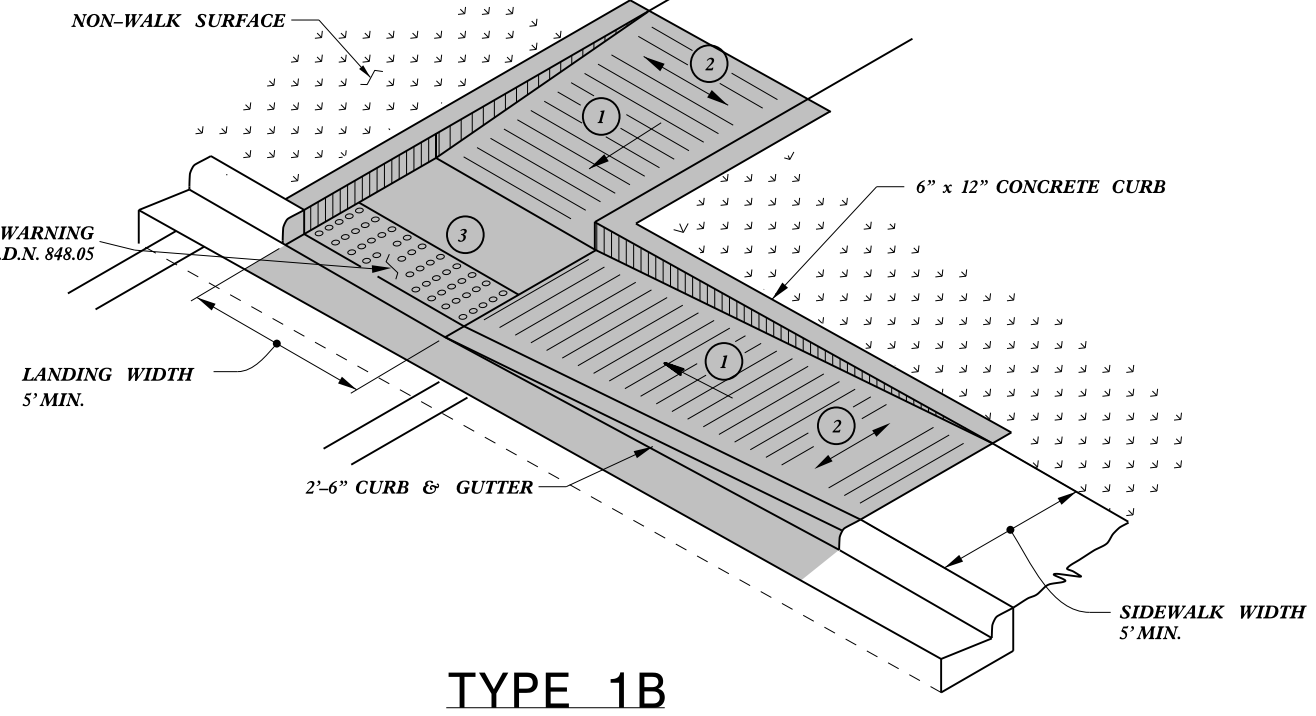
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 2/2/16
CHECKED BY:	DATE:
FILE SPEC.: s:\usr\det11s\stand\shoulderwedgedeta11.dgn	

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

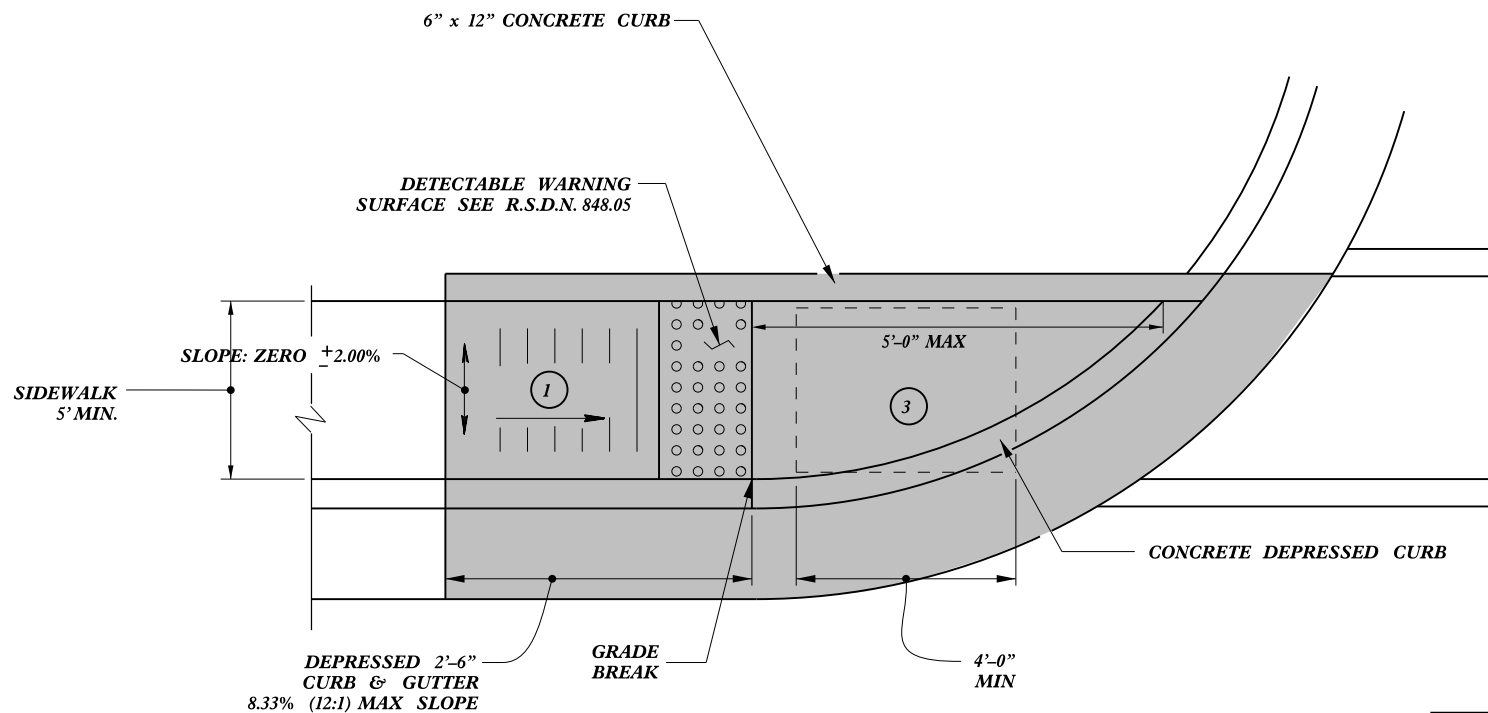
\$\$\$SYTIME\$\$\$  
 \$\$\$USERNAME\$\$\$  
 \$\$\$SERIAL\$\$\$



**TYPE 1A**



**TYPE 1B**



**TYPE 1**

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.



DocuSign by  
Joel S. Howerton  
449E8E25522144F...

11/18/2015

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

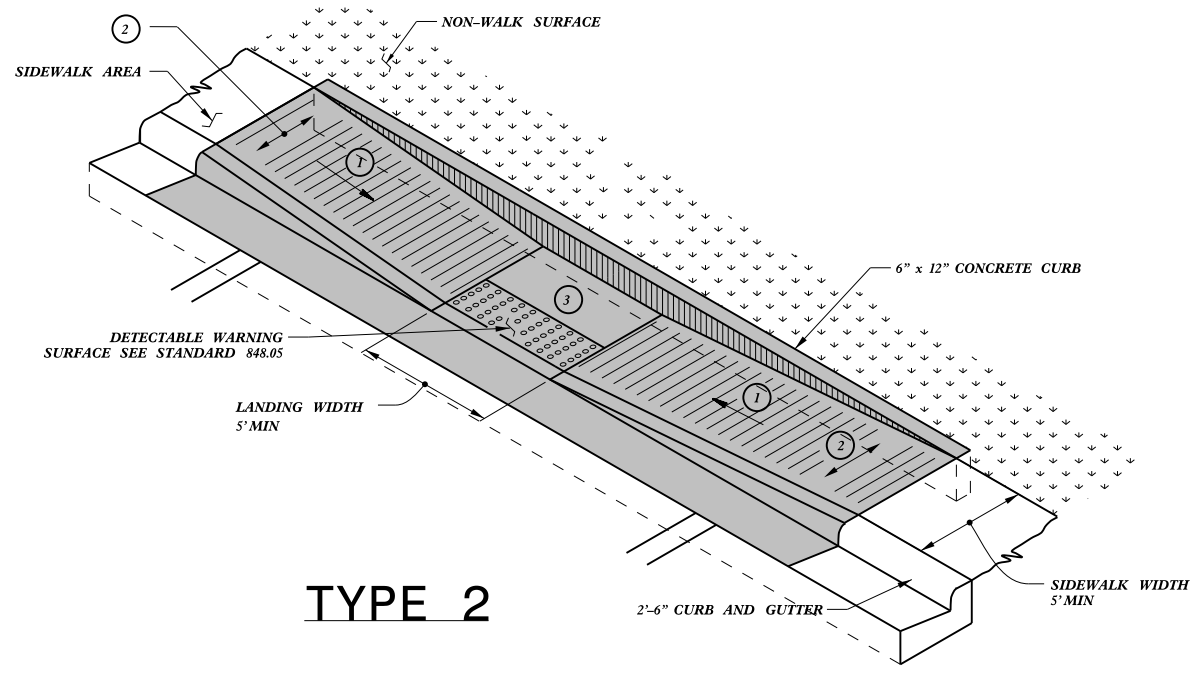
**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**CURB RAMPS**  
Directional 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

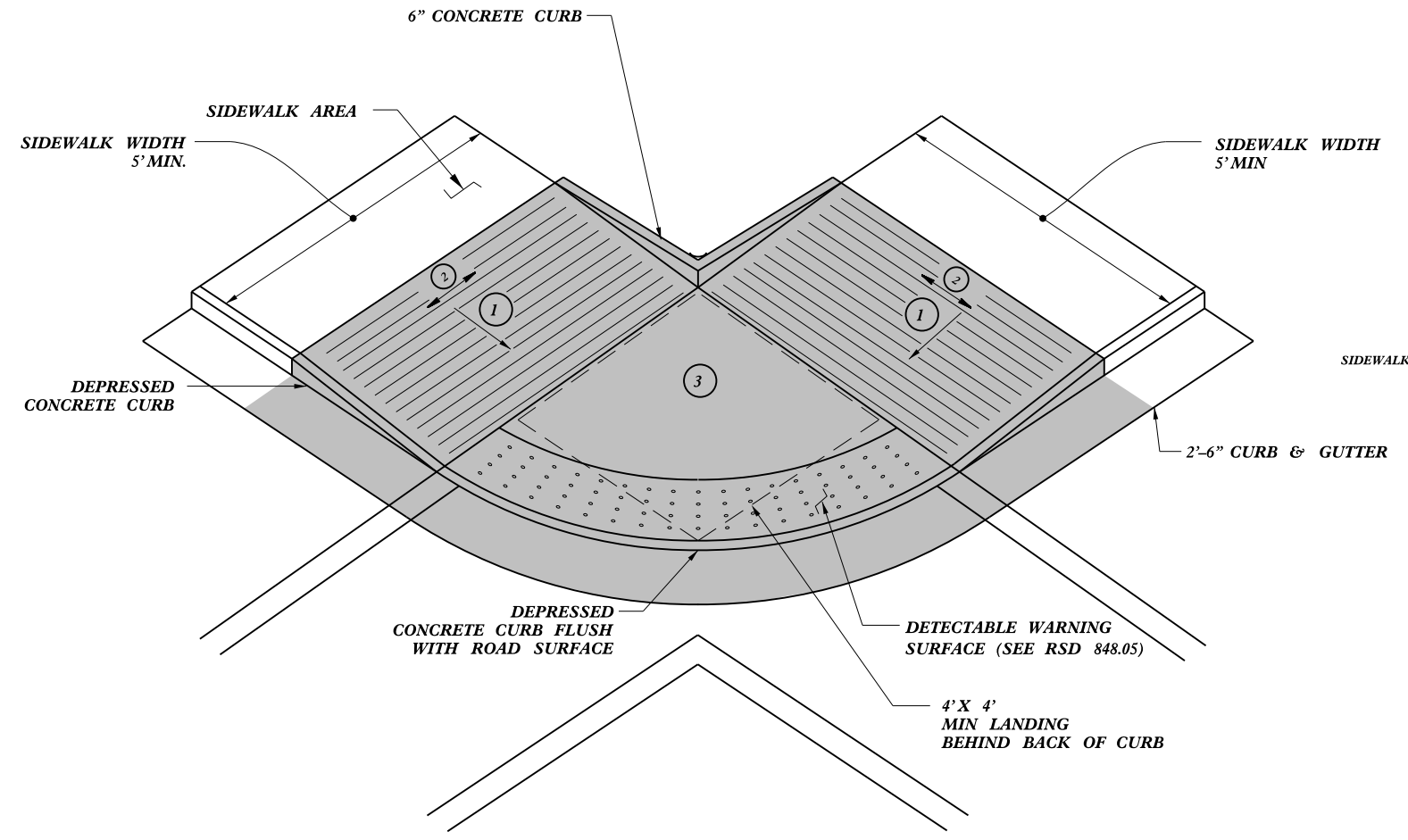
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CONSTRUCTION USER NAME  
DATE



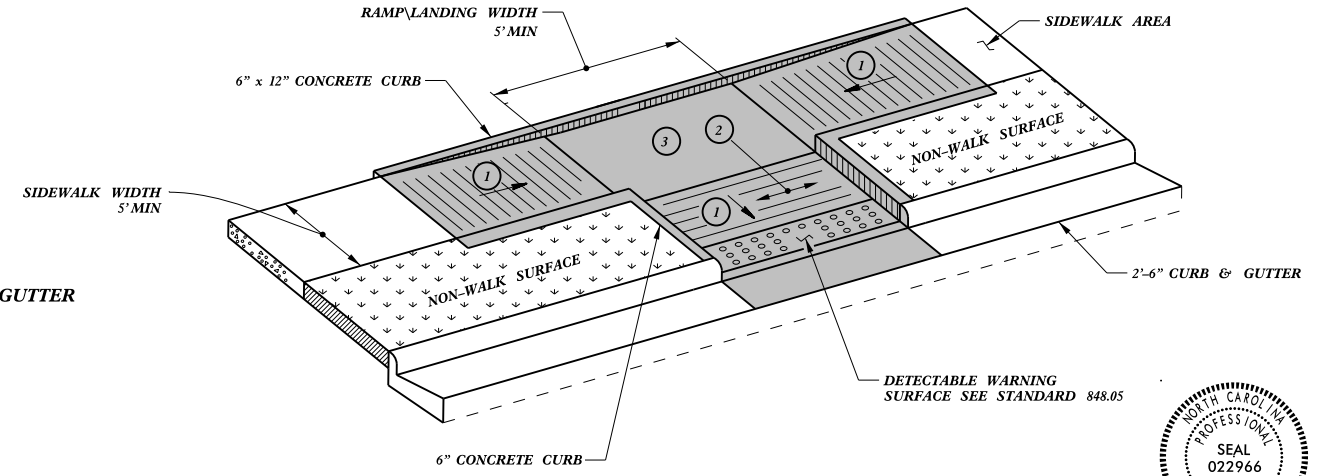
**TYPE 2**

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**



DocuSign  
 Joel S. Howerton  
 449E8E25522144E

11/18/2015

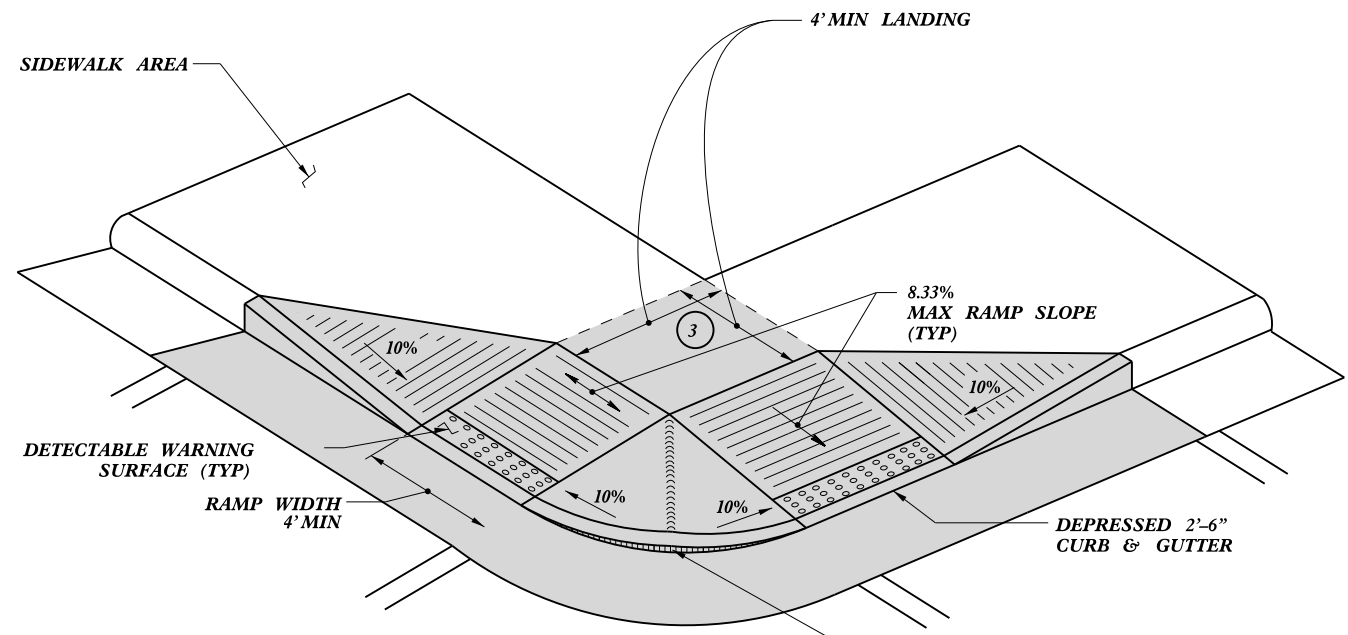
CONTRACT STANDARDS AND DEVELOPMENT UNIT  
 Office 919-707-6950 FAX 919-250-4119

**CURB RAMPS**  
 Parallel Ramps

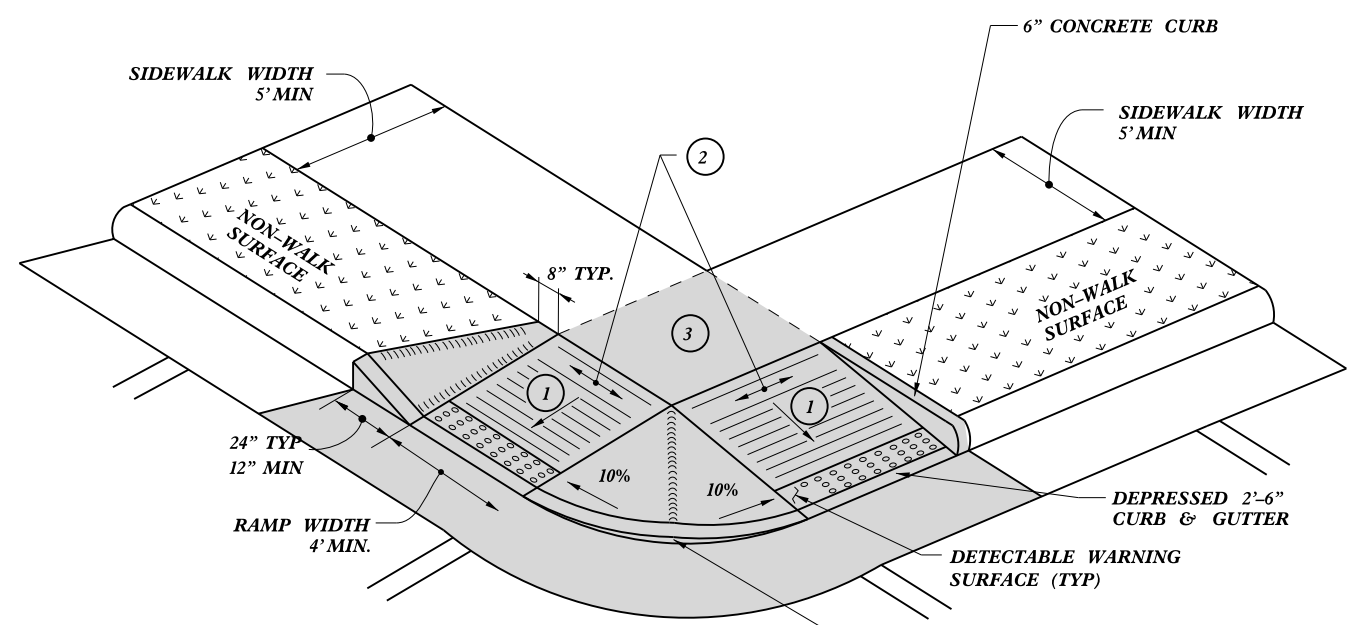
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11  
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 FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dwg

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

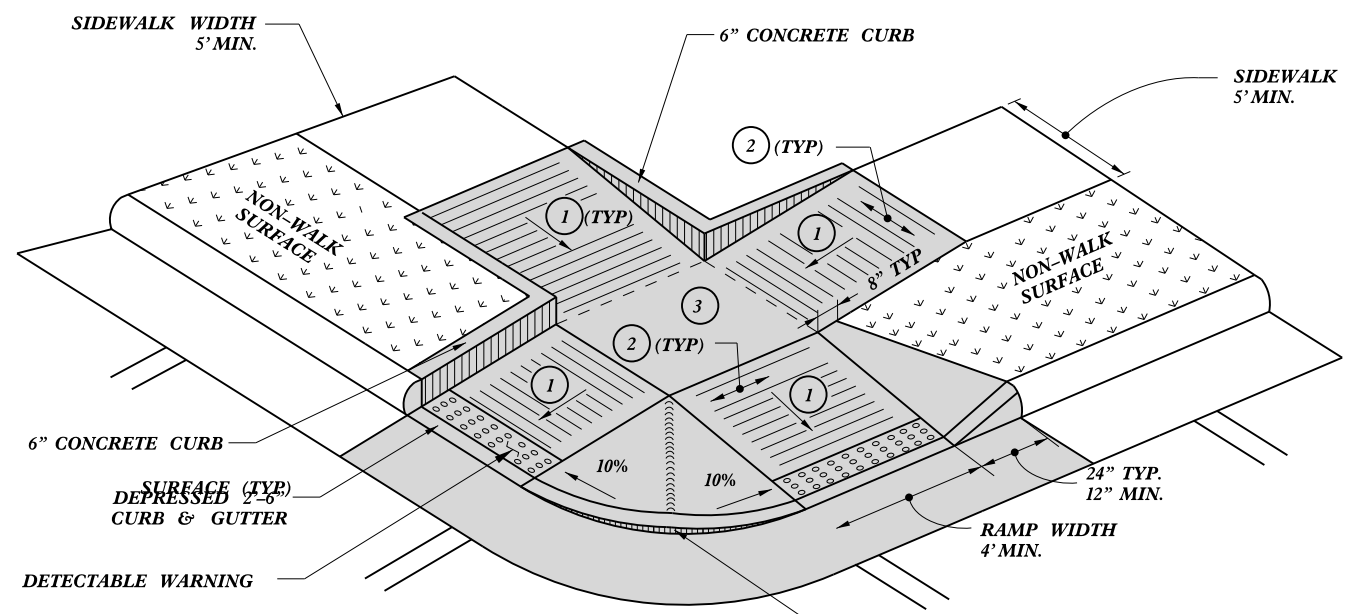
5/14/99



**TYPE 4**



**TYPE 4A**



**TYPE 5**

PAY LIMITS FOR 2 CURB RAMPS

- 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.

DocuSigned by:  
Joel S Howerton  
449E8E25522144F...



11/18/2015

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

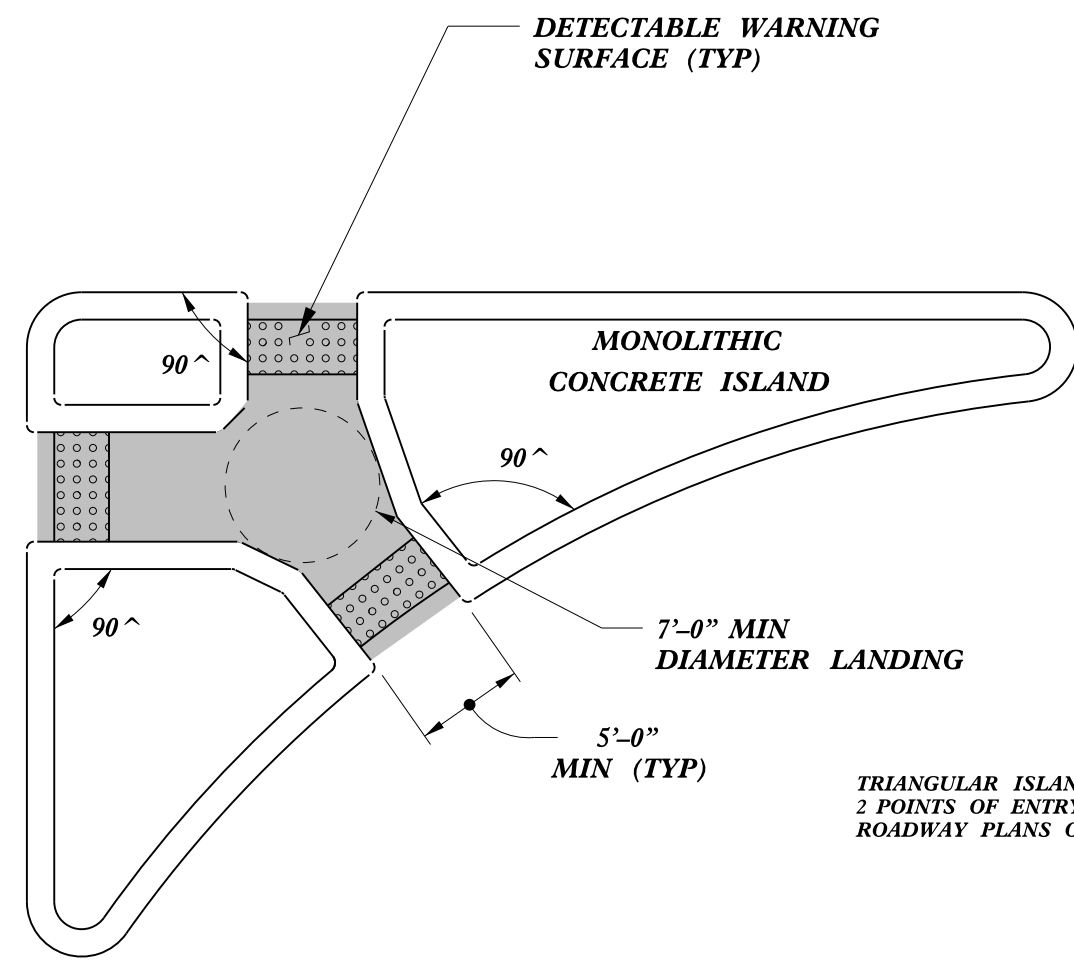
**CURB RAMPS**  
Shared Landing

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

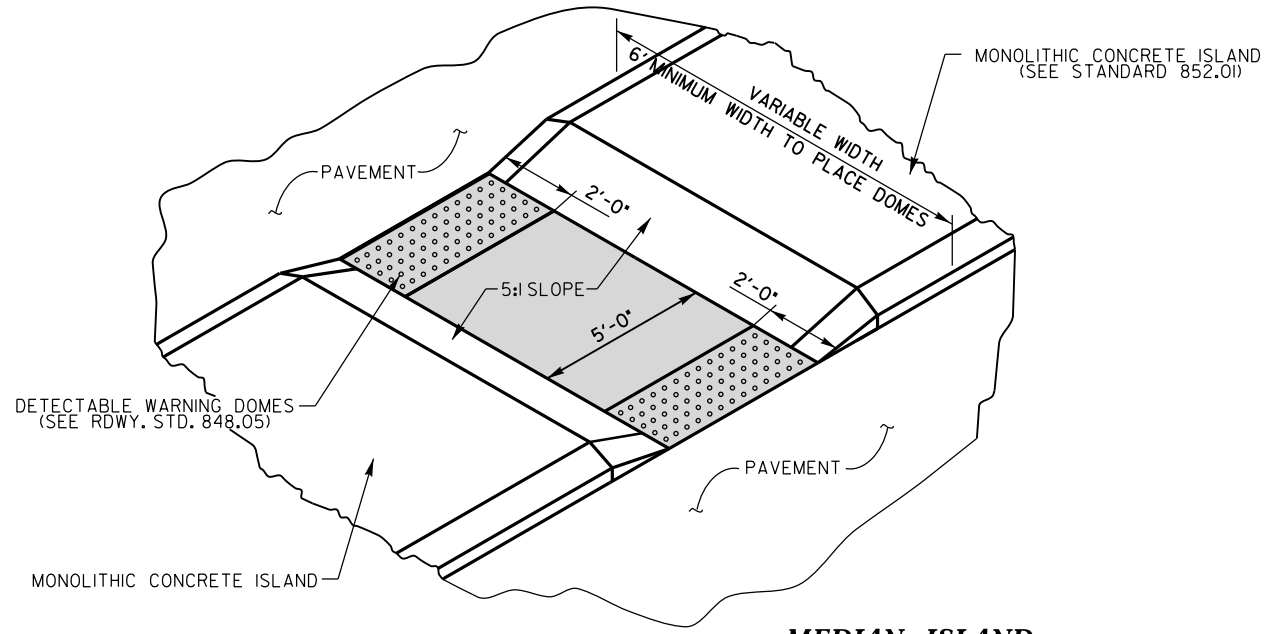
5/14/1999  
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PAY LIMITS FOR 2 OR 3 CURB RAMPS  
 (CALCULATE BASED ON NUMBER OF  
 SETS OF TRUNCATED DOMES)

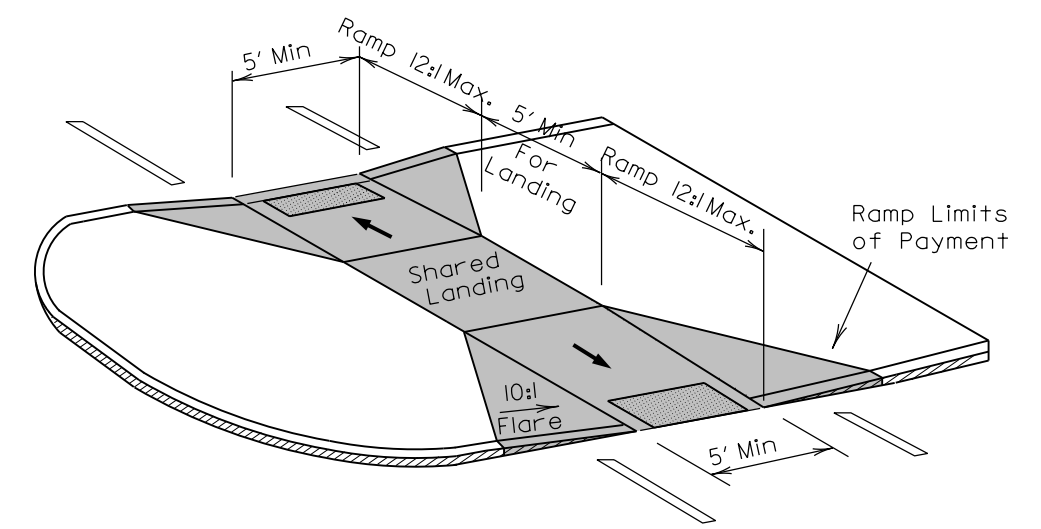


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY  
 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE  
 ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

**TRIANGULAR ISLAND  
WITH CUT THROUGH**



**MEDIAN ISLAND  
WITH CUT THROUGH**



**MEDIAN ISLAND  
CURB RAMPS**

5/14/99  
 \$\$\$\$\$\$SYTIME\$\$\$\$\$\$  
 \$\$\$\$\$\$CONGN\$\$\$\$\$\$  
 \$\$\$\$\$\$USERNAME\$\$\$\$\$\$  
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
Median or Turn Lane Islands	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dwg	



DocuSigned by:  
**Joel S. Howerton**

11/18/2015

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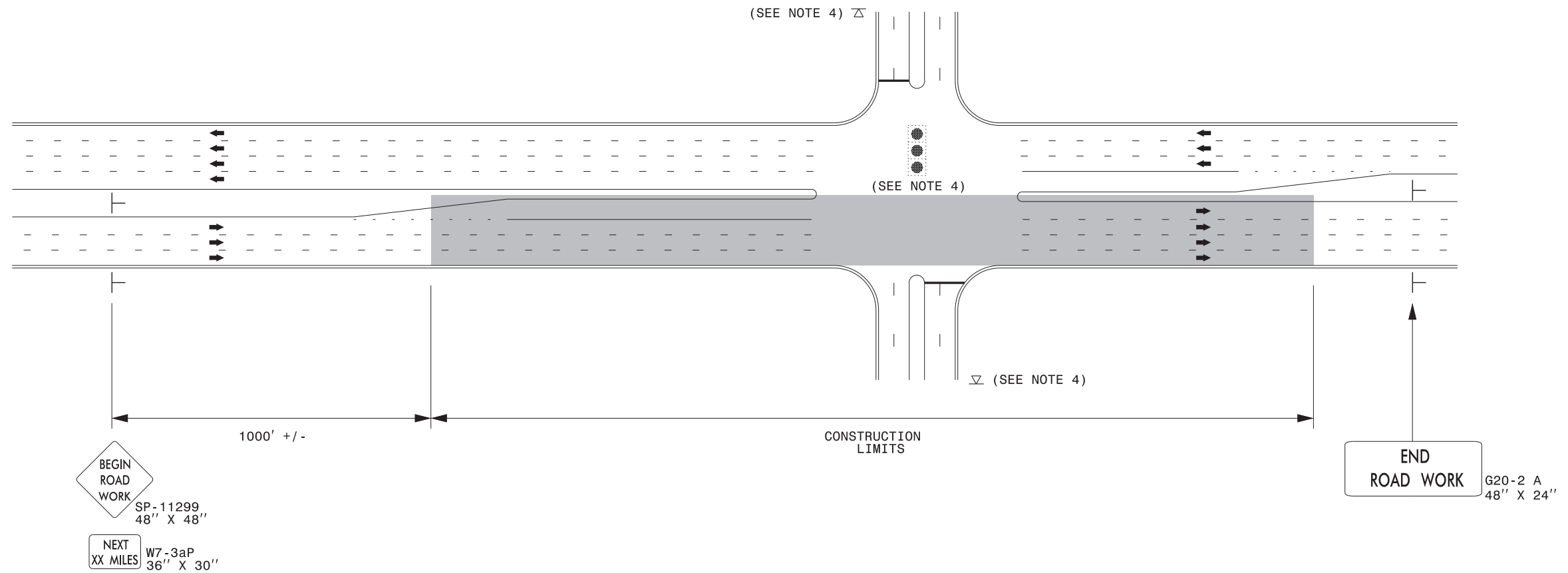








## URBAN / SUBURBAN WORKZONES

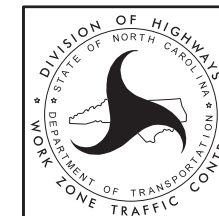


### NOTES:

- 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



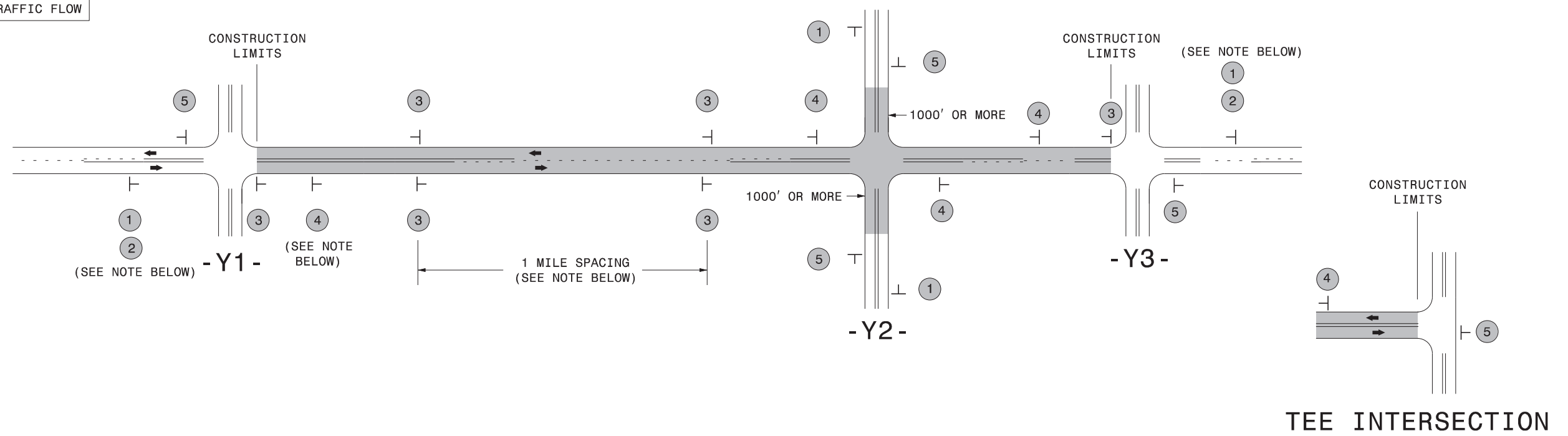
**RESURFACING ADVANCE  
WARNING SIGNS FOR  
URBAN / SUBURBAN  
FACILITIES**

# SIGNING FOR RESURFACING PROJECTS

**LEGEND**

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	
	2	 <small>W7-3aP 24" X 18"</small>	#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	 <small>SP 13107 48" X 48"</small>	- 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	 <small>SP 13106 48" X 48"</small>	- 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	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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

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

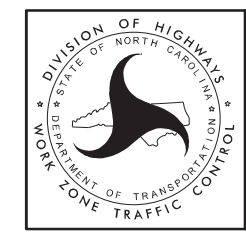
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

 <small>W20-1 48" X 48"</small> PLACED 500' IN ADVANCE OF FLAGGER.	 <small>W20-7 A 48" X 48"</small> PLACED 250' IN ADVANCE OF FLAGGER.
--	--

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.



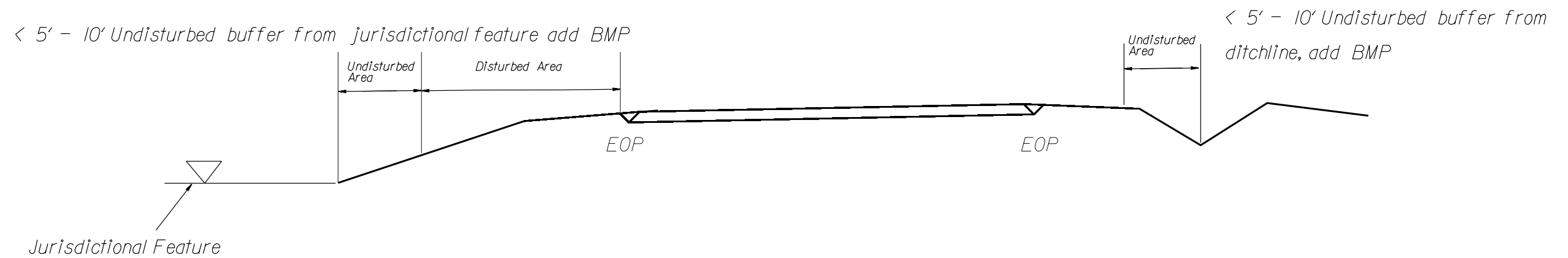
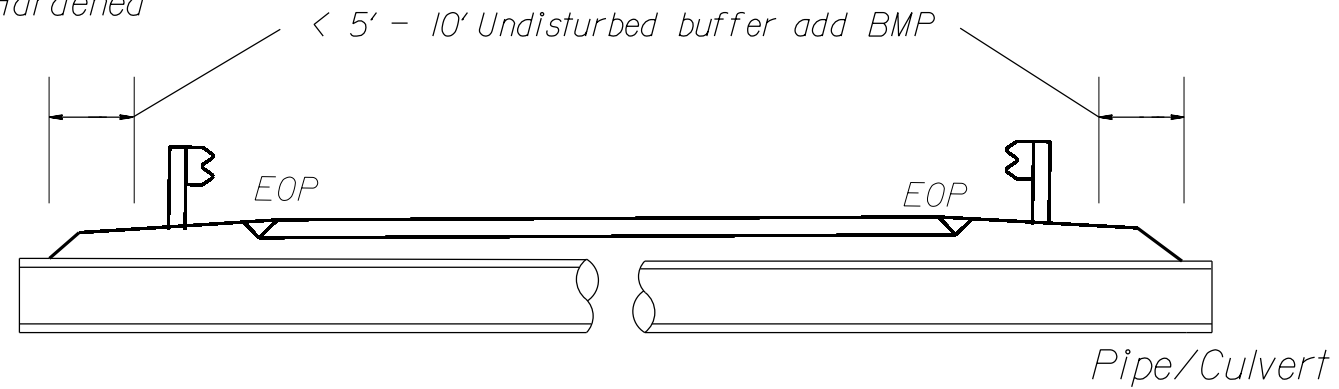
**ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING**



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

# EROSION CONTROL DETAIL

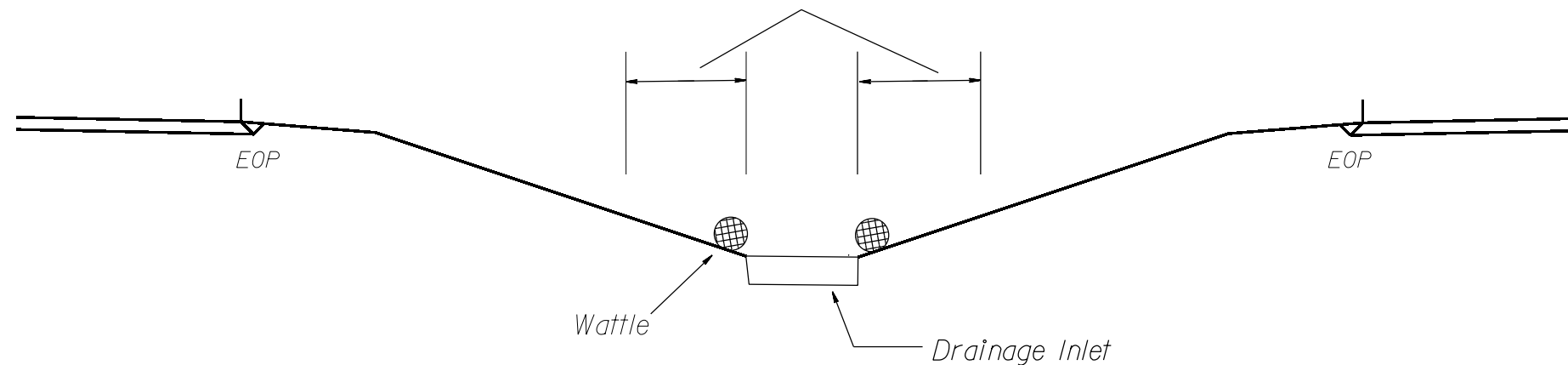
BMP Options: Wattle, Silt Fence or Hardened Aggregate.



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

etc.

# 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.

