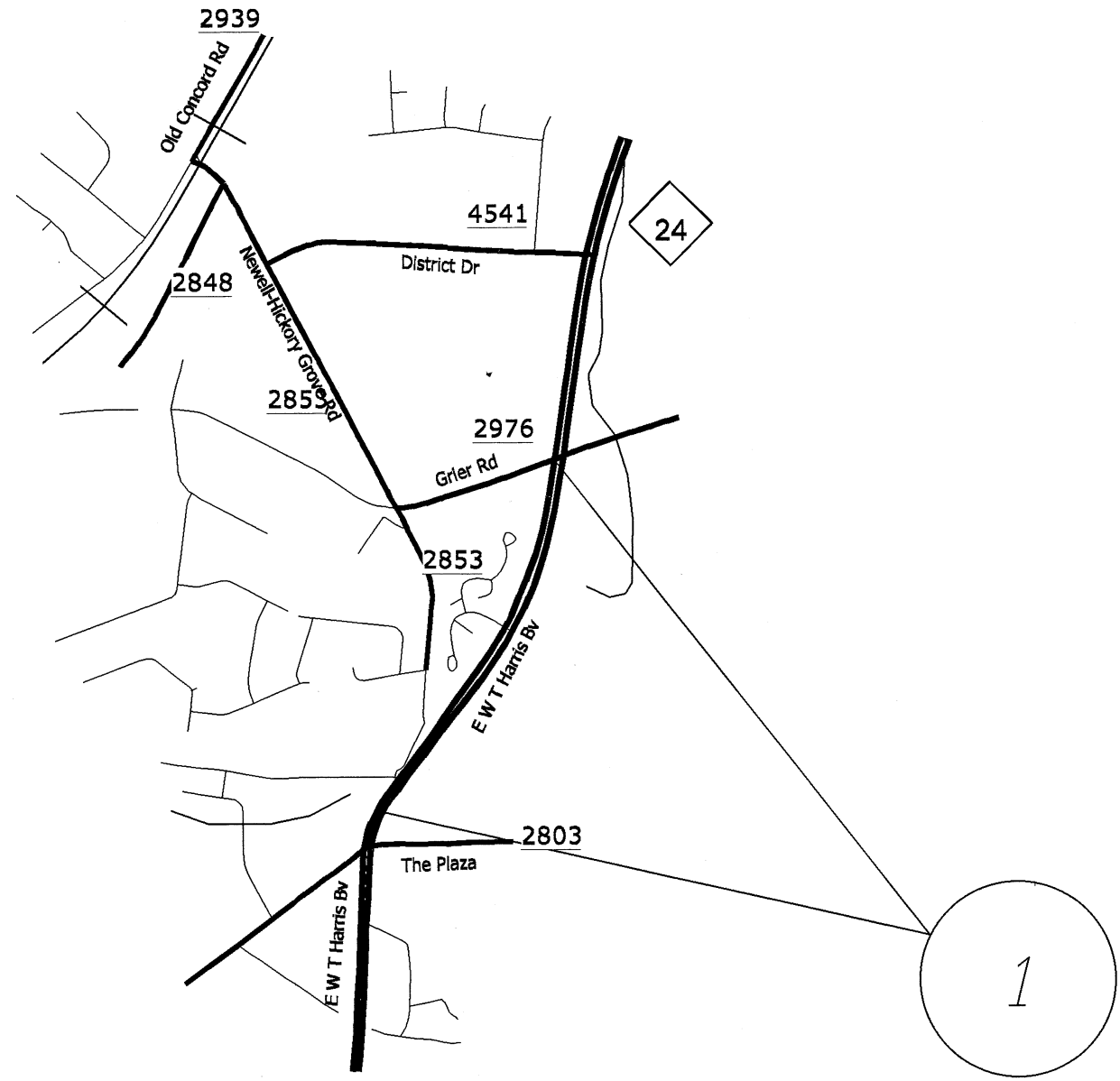


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	
WBS NO.	10CR.10601.92, ETC.		




MAP

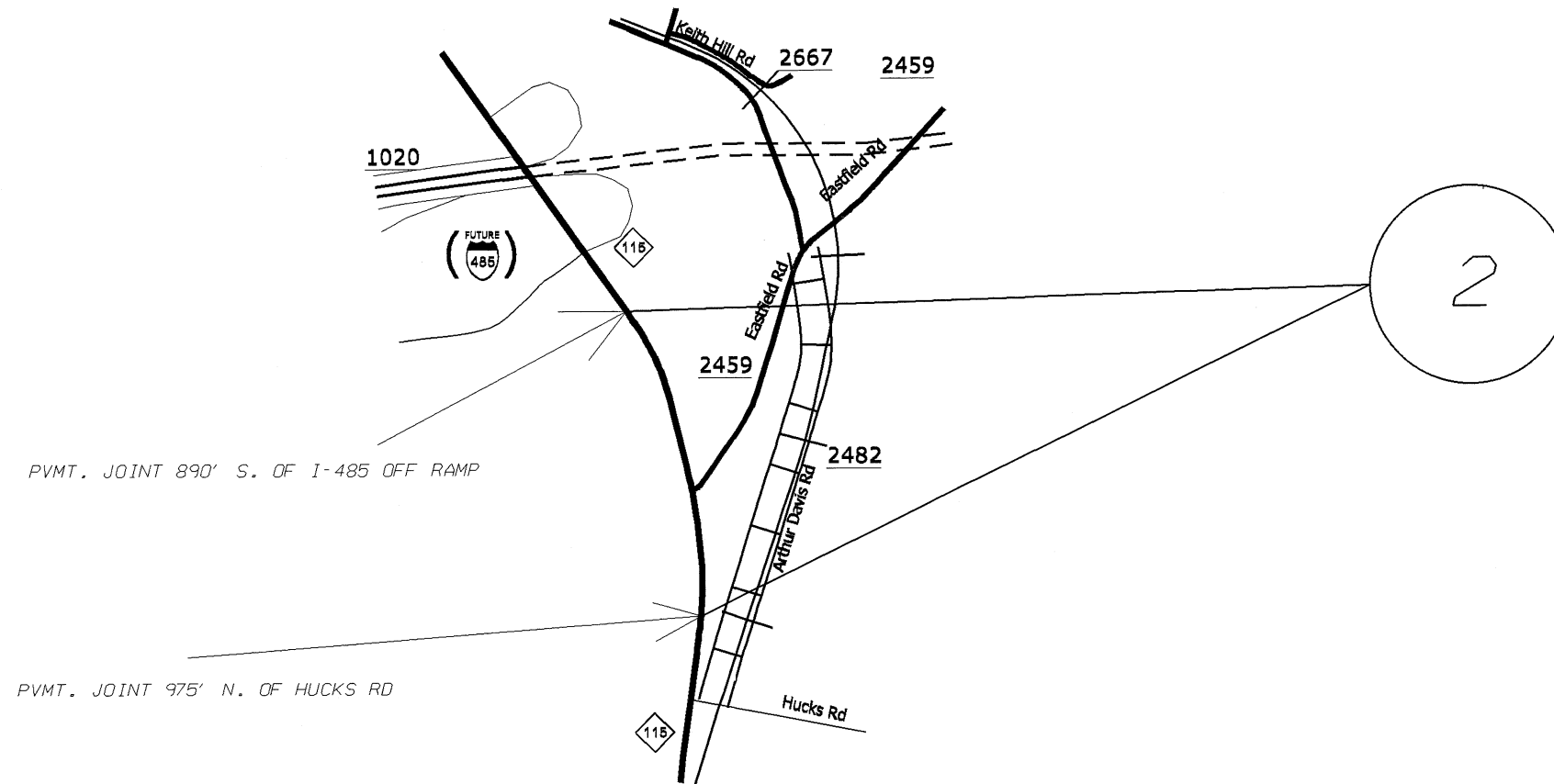
DESCRIPTION

1 NC 24 (E. W.T. HARRIS BLVD (WB))

FROM PVMT. JT. N. OF SR-2803 (THE PLAZA) TO SR-2976 (GRIER RD)

2014/2015 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	
DATE	2/14	
DWG. BY	WAT	
DESIGN BY	WAT	
APPROVED	BDC	
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		2	
WBS NO.	10CR.10601.92, ETC.		



PVMT. JOINT 890' S. OF I-485 OFF RAMP

PVMT. JOINT 975' N. OF HUCKS RD

MAP

#2 NC 115 (OLD STATESVILLE RD)

DESCRIPTION

FROM PVMT. JT. N. OF HUCKS RD TO PVMT. JT. S. OF I-485 OFF RAMP



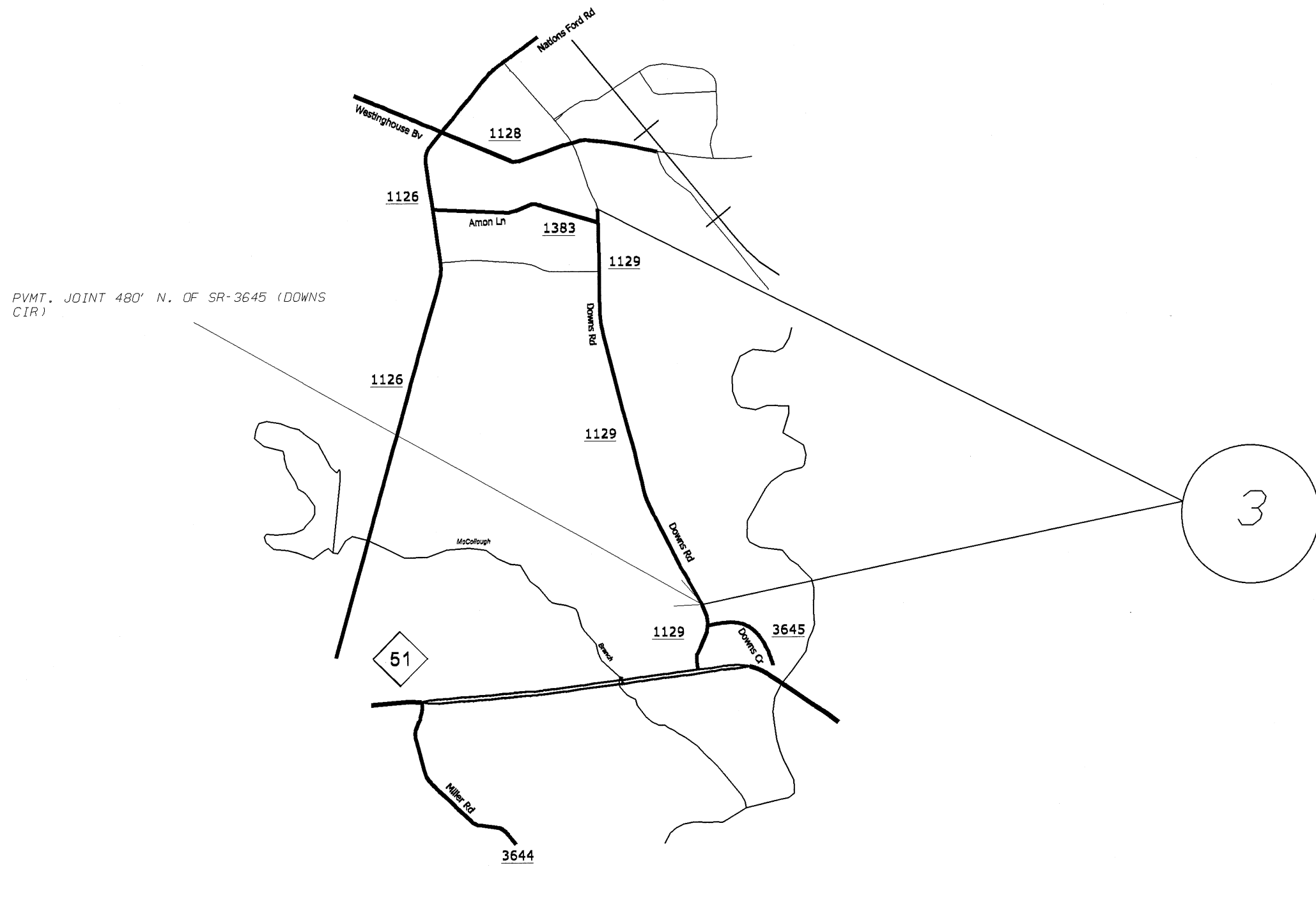
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	2/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		3	
WBS NO.	10CR.10601.92, ETC.		




MAP

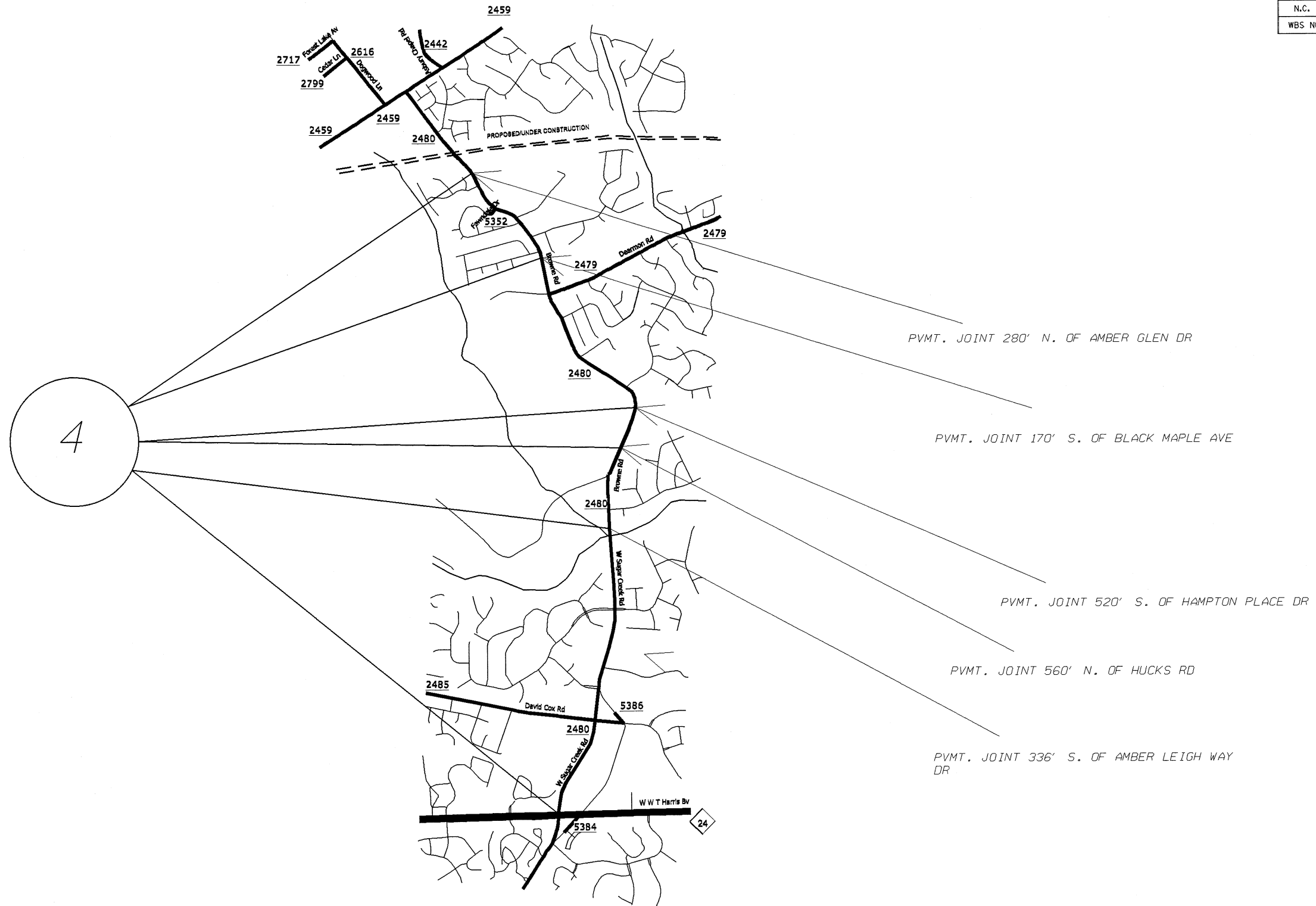
3 SR-1129 (DOWNS RD)

DESCRIPTION

FROM PVT. JT. N. OF SR-3645 (DOWNS CIR)
TO CHARLOTTE CITY LIMITS

2014/2015 MECKLENBURG COUNTY RESURFACING			
SCALE	-NA-		REVISIONS
DATE	2/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		4	
WBS NO.	10CR.10601.92, ETC.		



MAP

DESCRIPTION

4 SR-2840 (SUGAR CREEK/BROWNE RD)

FROM NC 24 (W W.T. HARRIS BLVD) TO
PVMT. JT. N. OF AMBER GLEN DR

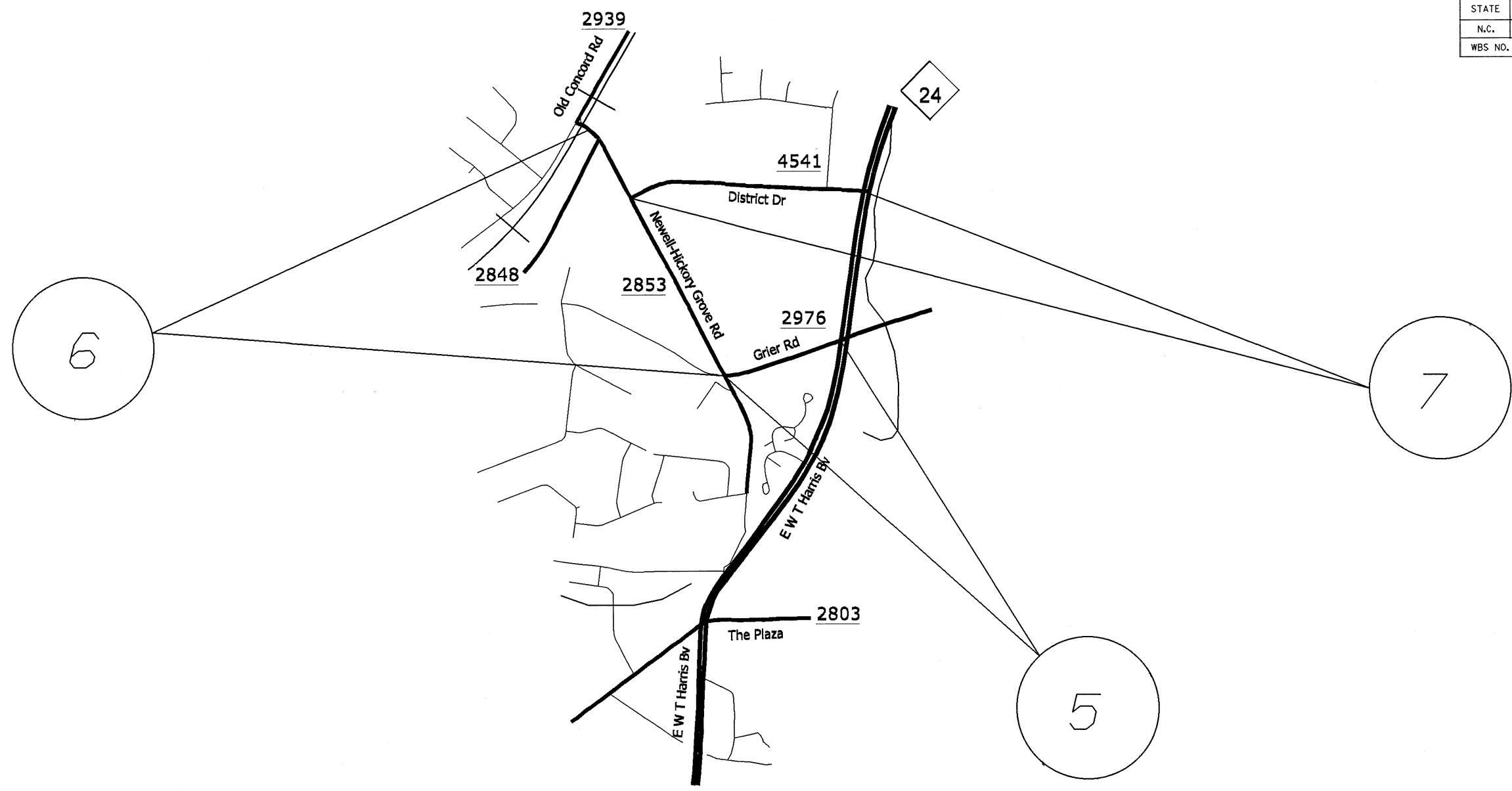
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	2/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		5	
WBS NO.	10CR.10601.92, ETC.		



MAP

DESCRIPTION

#5 SR-2976 (GRIER RD)

FROM SR-2853 (NEWELL-HICKORY GROVE RD)
TO NC 24 (E W.T. HARRIS BLVD)


#6 SR-2853 (NEWELL-HICKORY GROVE RD)

FROM PVMT. JT. S. OF RAILROAD CROSSING
TO SR-2976 (GRIER RD)

#7 SR-4541 (DISTRICT DR)

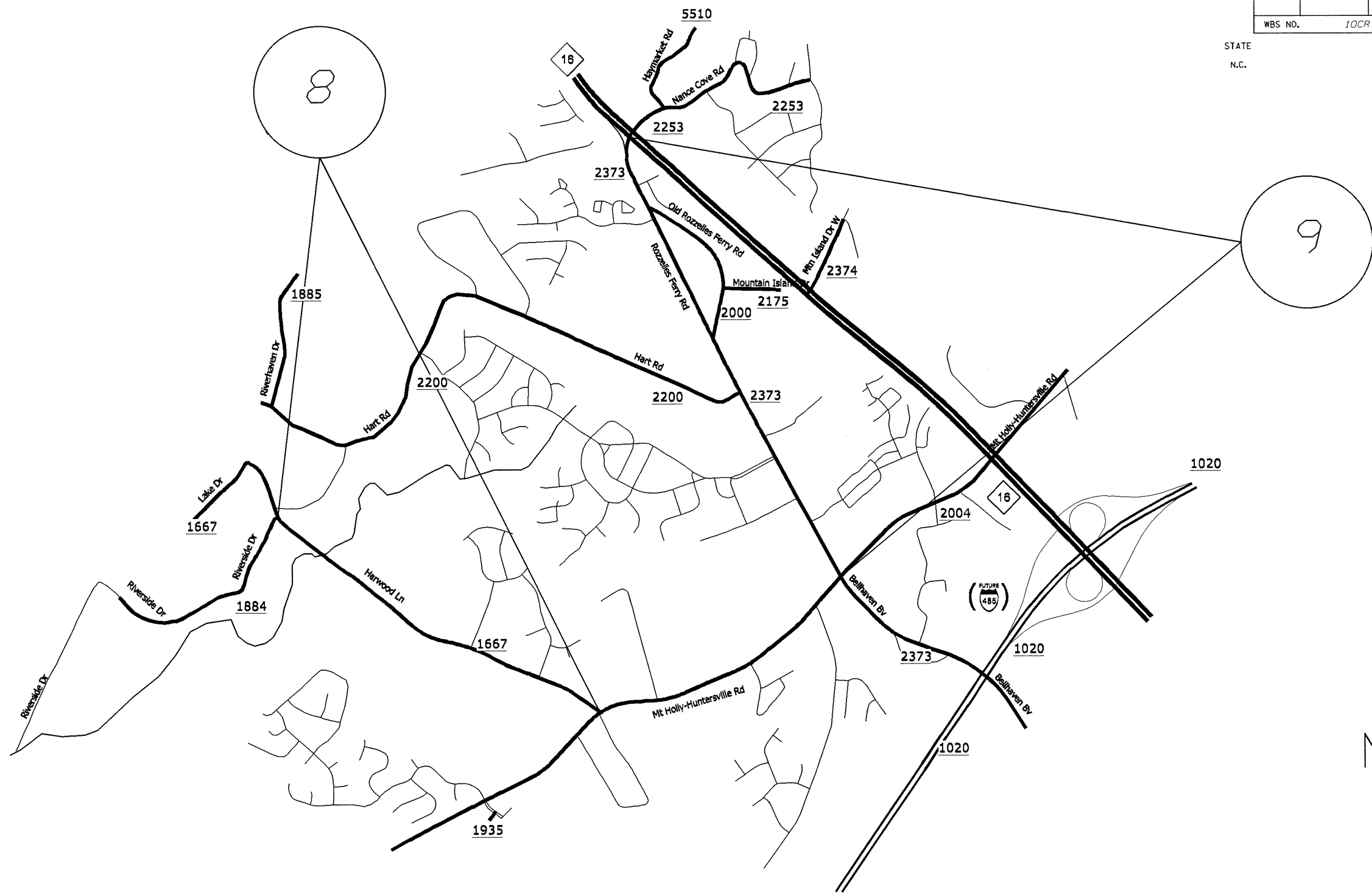
FROM SR-2853 (NEWELL-HICKORY GROVE RD)
TO NC 24 (E W.T. HARRIS BLVD)

2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS	
DATE	2/14			
DWG. BY	WAT			
DESIGN BY	WAT			
APPROVED	BDC			

PROJECT NO.	SHEET NO.	TOTAL SHEETS
	6	
WBS NO. 10CR.10601.92, ETC.		

STATE
N.C.



MAP

DESCRIPTION

8 SR-1667 (HARWOOD LN)

FROM SR-1666 (MT HOLLY-HUNTERSVILLE RD)
TO SR-1884 (RIVERSIDE DR)

9 SR-2373 (ROZELLES FERRY RD)

FROM SR-2004 (MT HOLLY-HUNTERSVILLE RD)
TO NC 16 (BROOKSHIRE BLVD)

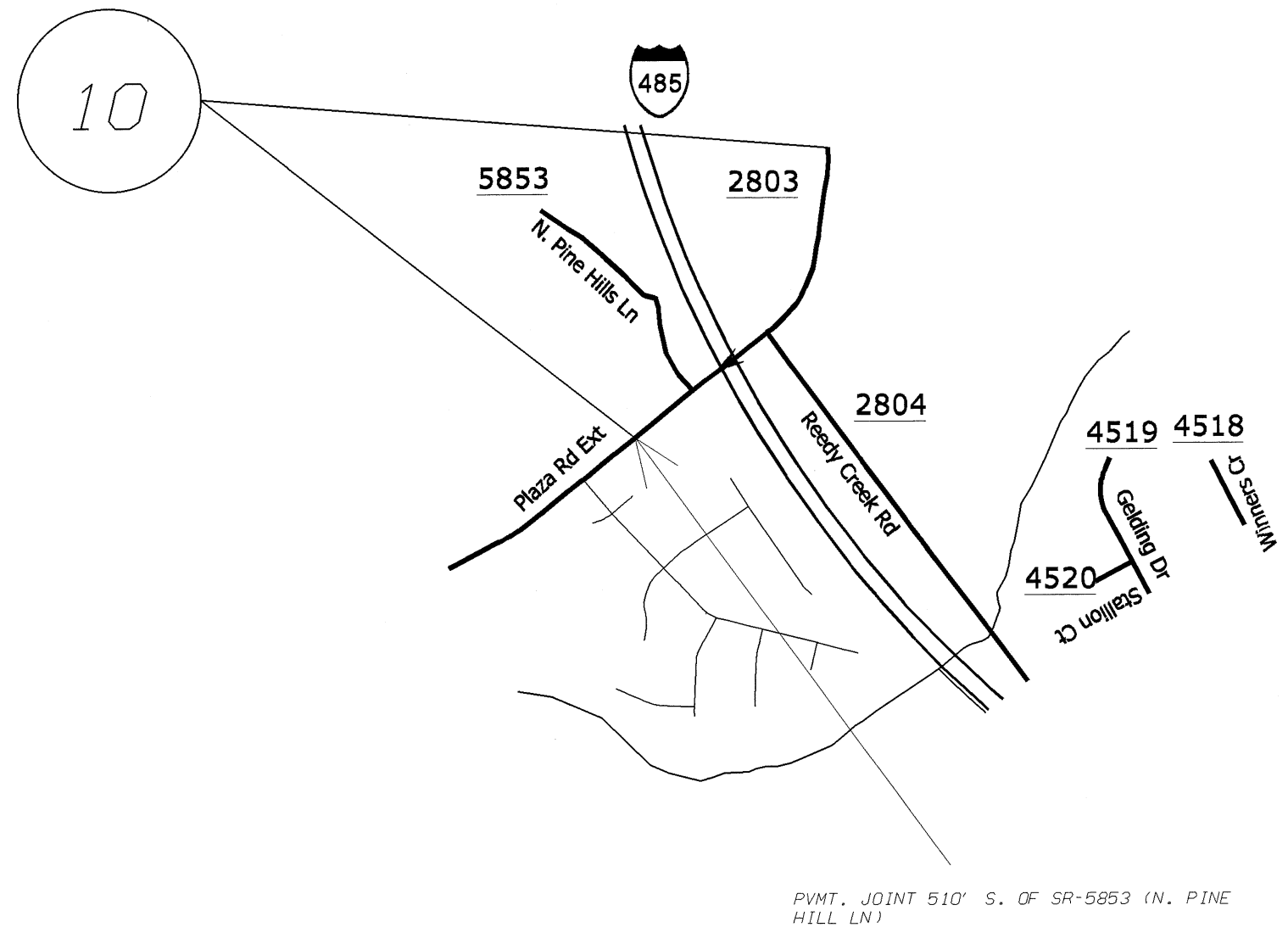
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	2/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		7	
WBS NO.	10CR.10601.92, ETC.		




MAP

10 SR-2803 (PLAZA RD EXT)

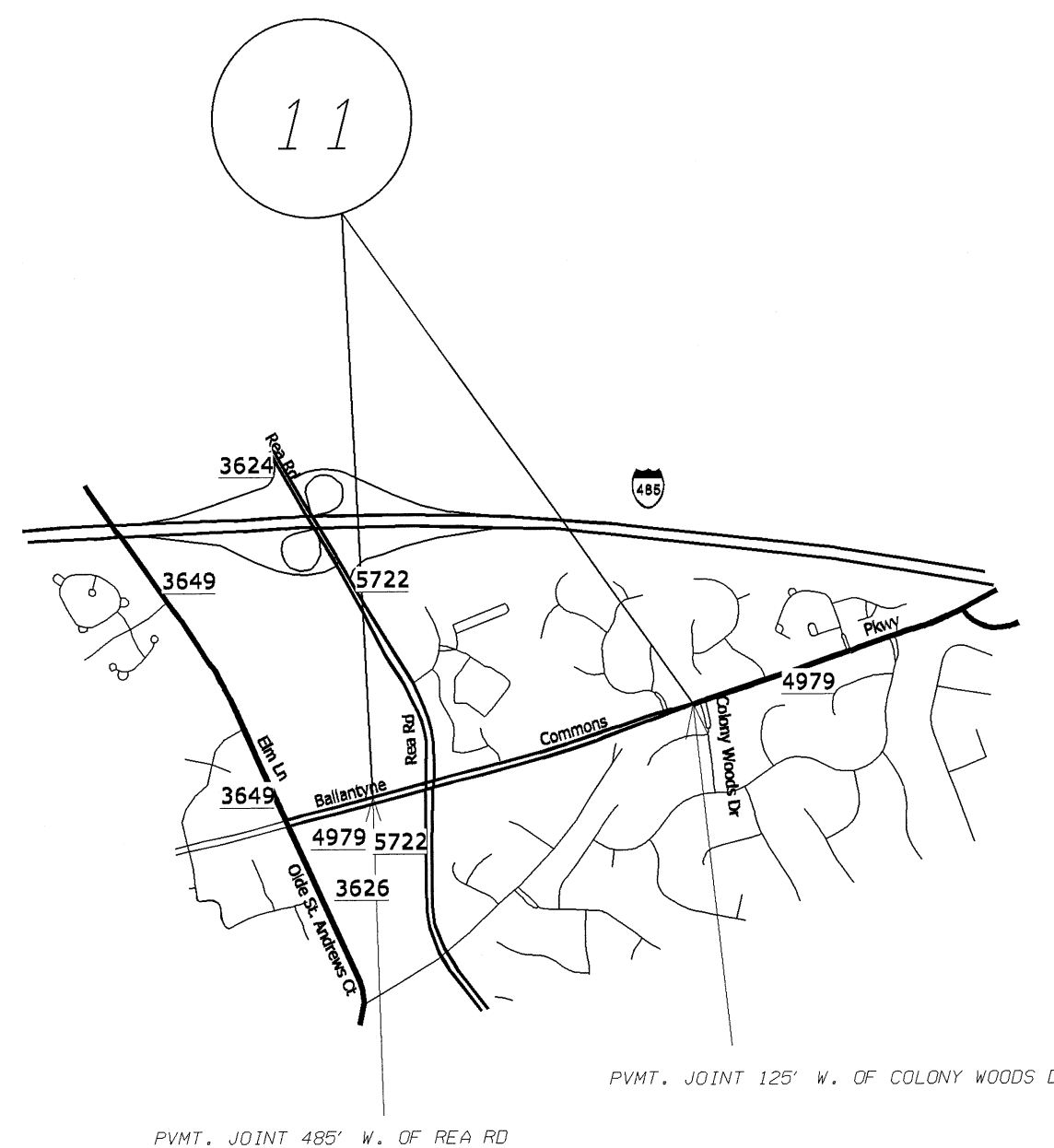
DESCRIPTION

FROM PVT. JT. S. OF SR-5853 (N PINE HILL RD) TO CABARRUS COUNTY LINE

2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS	
DATE	2/14			
DWG. BY	WAT			
DESIGN BY	WAT			
APPROVED	BDC			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		8	
WBS NO.	10CR.10601.92, ETC.		




MAP

11 SR-4979 (BALLANTYNE COMMONS PKWY)

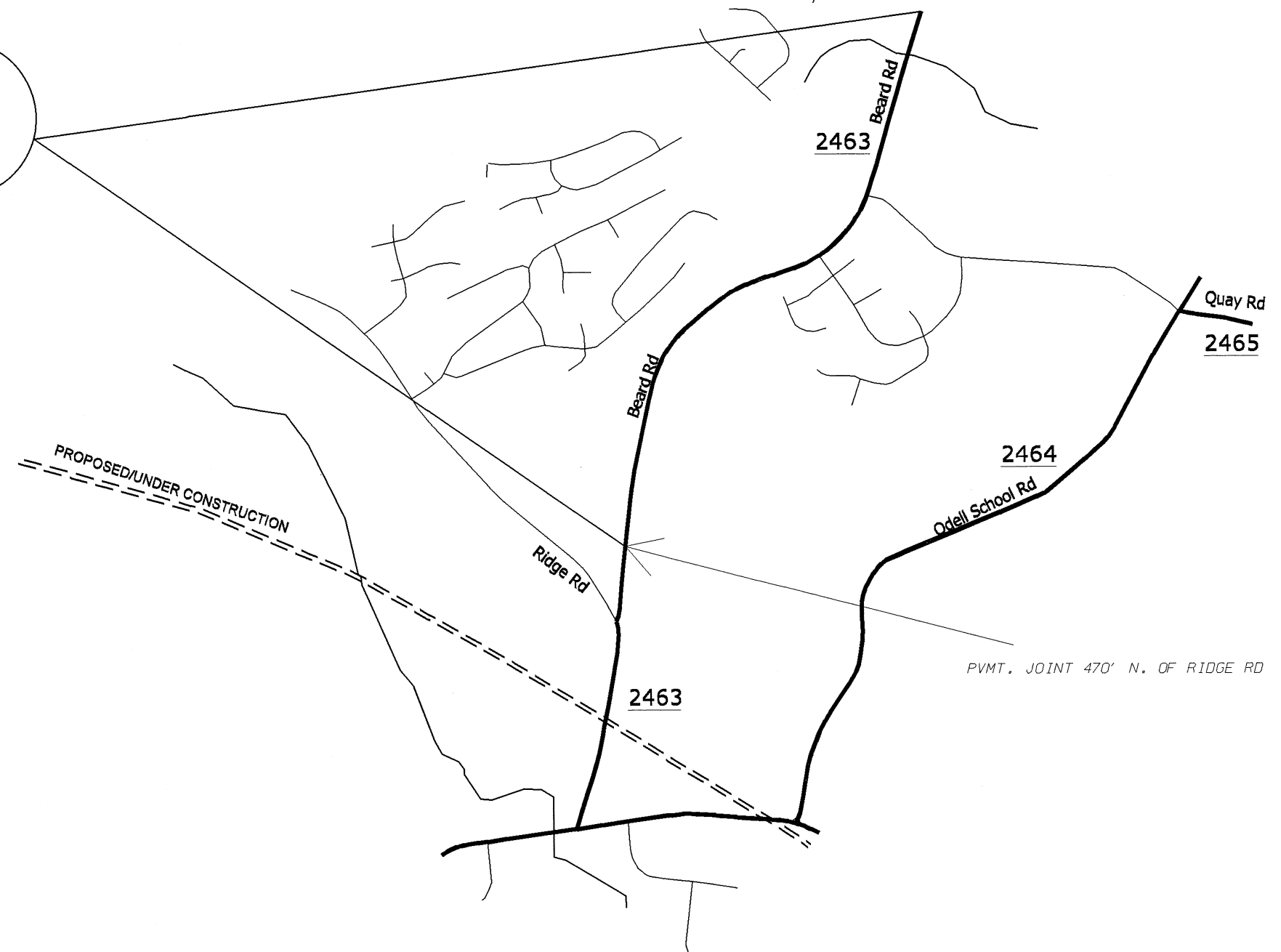
DESCRIPTION

FROM PVMT. JT. W. OF COLONY WOODS DR TO
PVMT. JT. W. OF SR-5722 (REA RD)

2014/2015 MECKLENBURG COUNTY RESURFACING			
SCALE	-NA-		REVISIONS
DATE	2/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		9	
WBS NO.	10CR.10601.92, ETC.		

12



MAP

12 SR-2463 (BEARD RD)

DESCRIPTION

FROM CABARRUS COUNTY LINE TO PVMT. JT.
N. OF RIDGE RD (SR-2467)

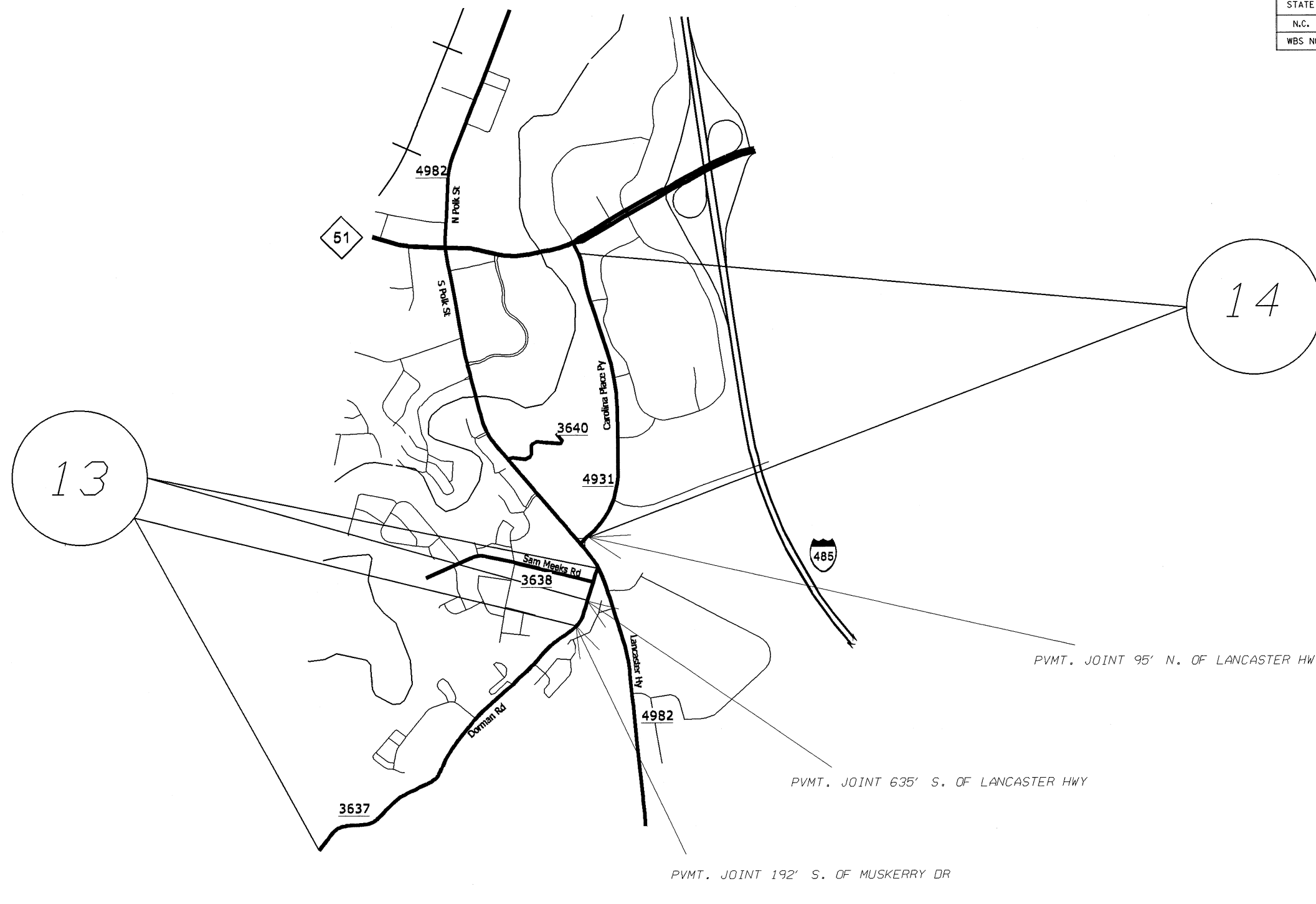
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	2/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		ID	
WBS NO.	10CR.10601.92, ETC.		



MAP

DESCRIPTION

13 SR-3637 (DORMAN DR)

14 SR-4931 (CAROLINA PLACE PKWY)

FROM SR-4982 (LANCASTER HWY) TO SOUTH CAROLINA LINE

FROM NC 51 (PINEVILLE-MATTHEWS RD) TO PVMT. JT. N. OF SR-4982 (LANCASTER HWY)

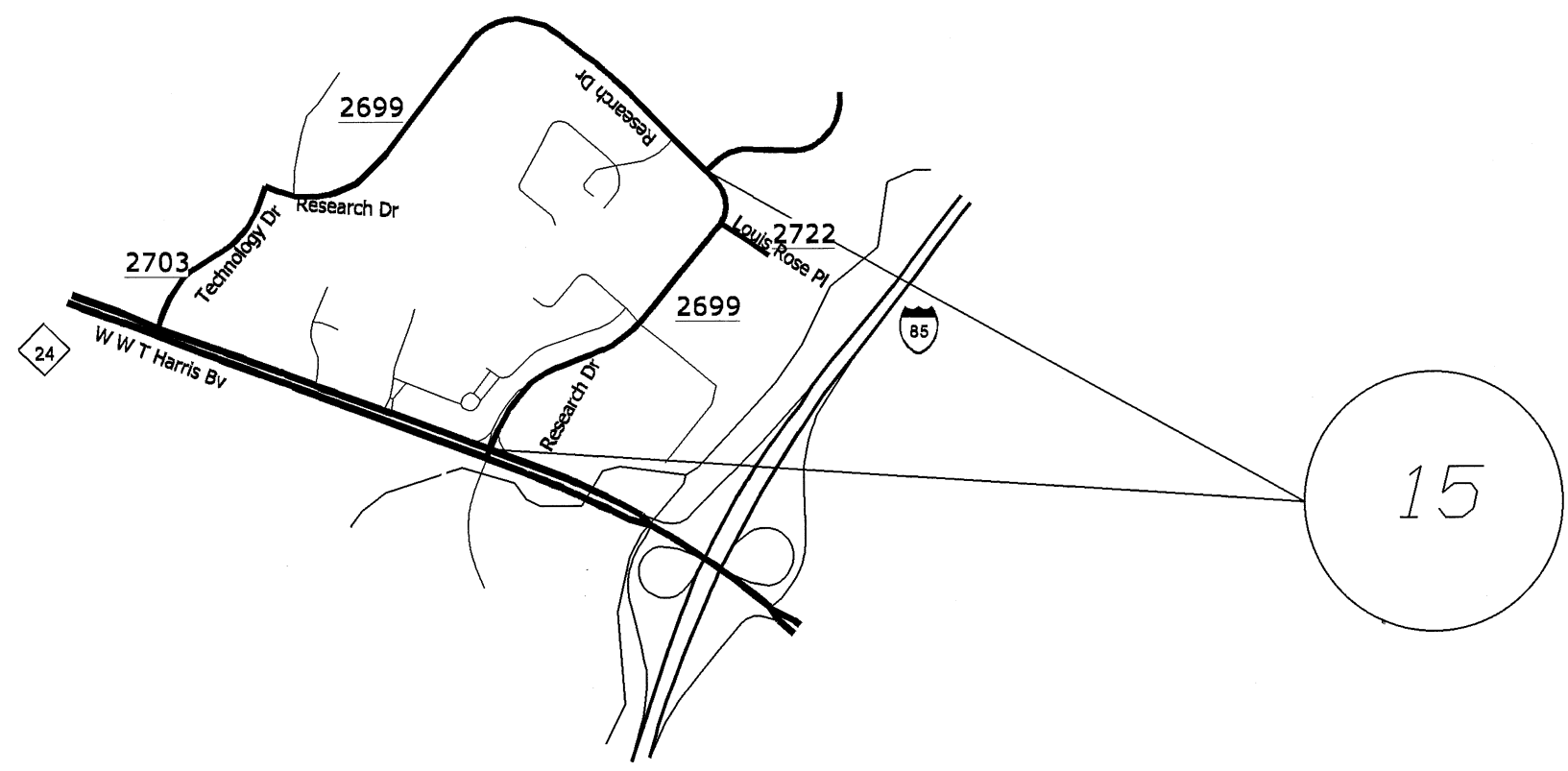
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	2/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		II	
WBS NO.	10CR.10601.92, ETC.		



MAP

15 SR-2699 (RESEARCH DR)

DESCRIPTION

FROM SR-2713 (DAVID TAYLOR DR) TO NC 24
(W. W.T. HARRIS BLVD)

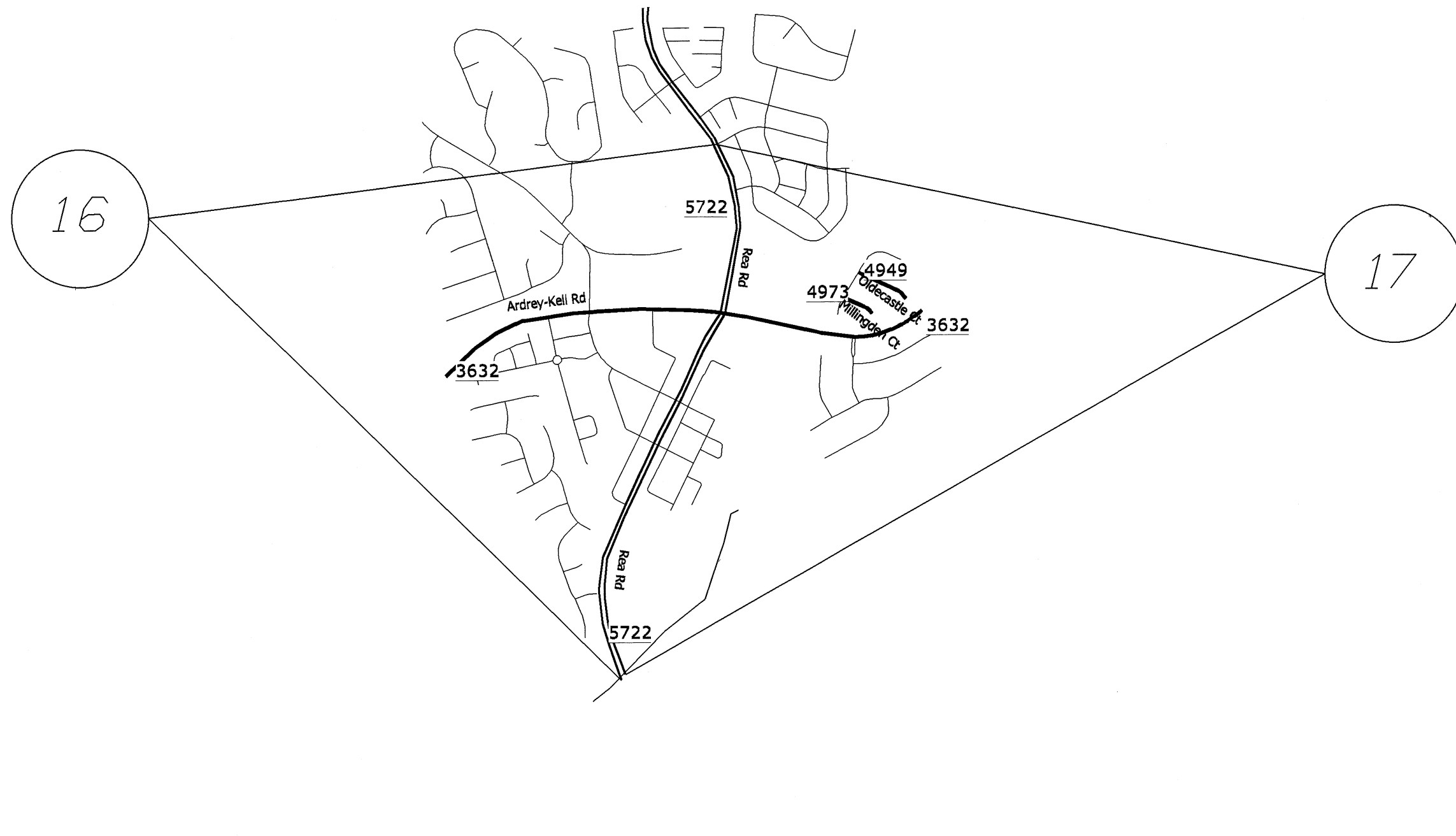
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	2/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		12	
WBS NO.	10CR.10601.92, ETC.		




MAP

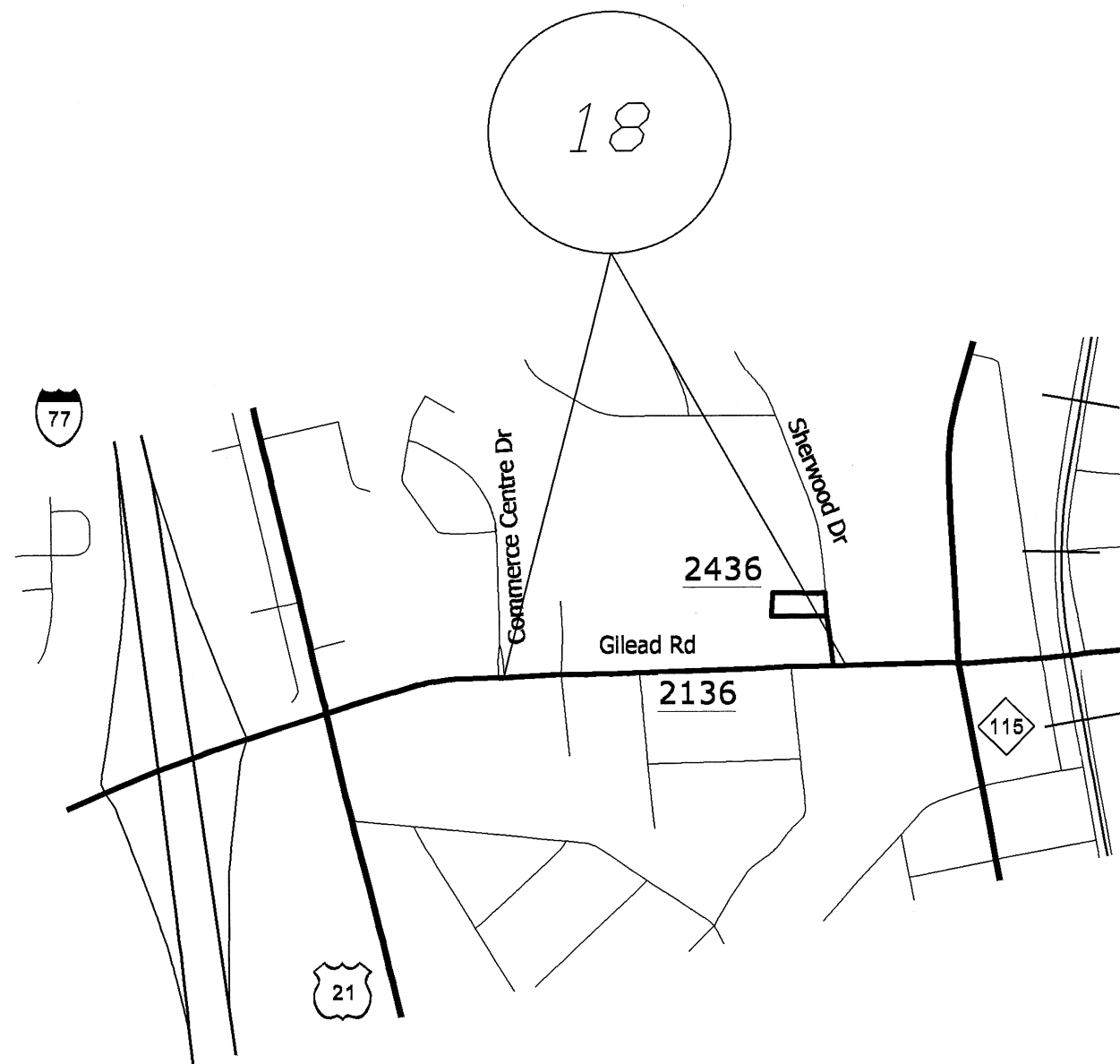
16 SR-5722 (REA RD (SB))
 # 17 SR-5722 (RE RD (NB))

DESCRIPTION

FROM BLAKENEY GREEN BLVD TO BRIDGE AT UNION COUNTY LINE
 FROM BRIDGE AT UNION COUNTY LINE TO BLAKENEY GREEN BLVD

2014/2015 MECKLENBURG COUNTY RESURFACING				
SCALE	-NA-		REVISIONS	
DATE	2/14			
DWG. BY	WAT			
DESIGN BY	WAT			
APPROVED	BDC			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		13	
WBS NO.	10CR.10601.92, ETC.		



MAP

18 SR 2136 (GILEAD RD)

DESCRIPTION

FROM SR-2436 (SHERWOOD DR) TO COMMERCE CENTRE DR

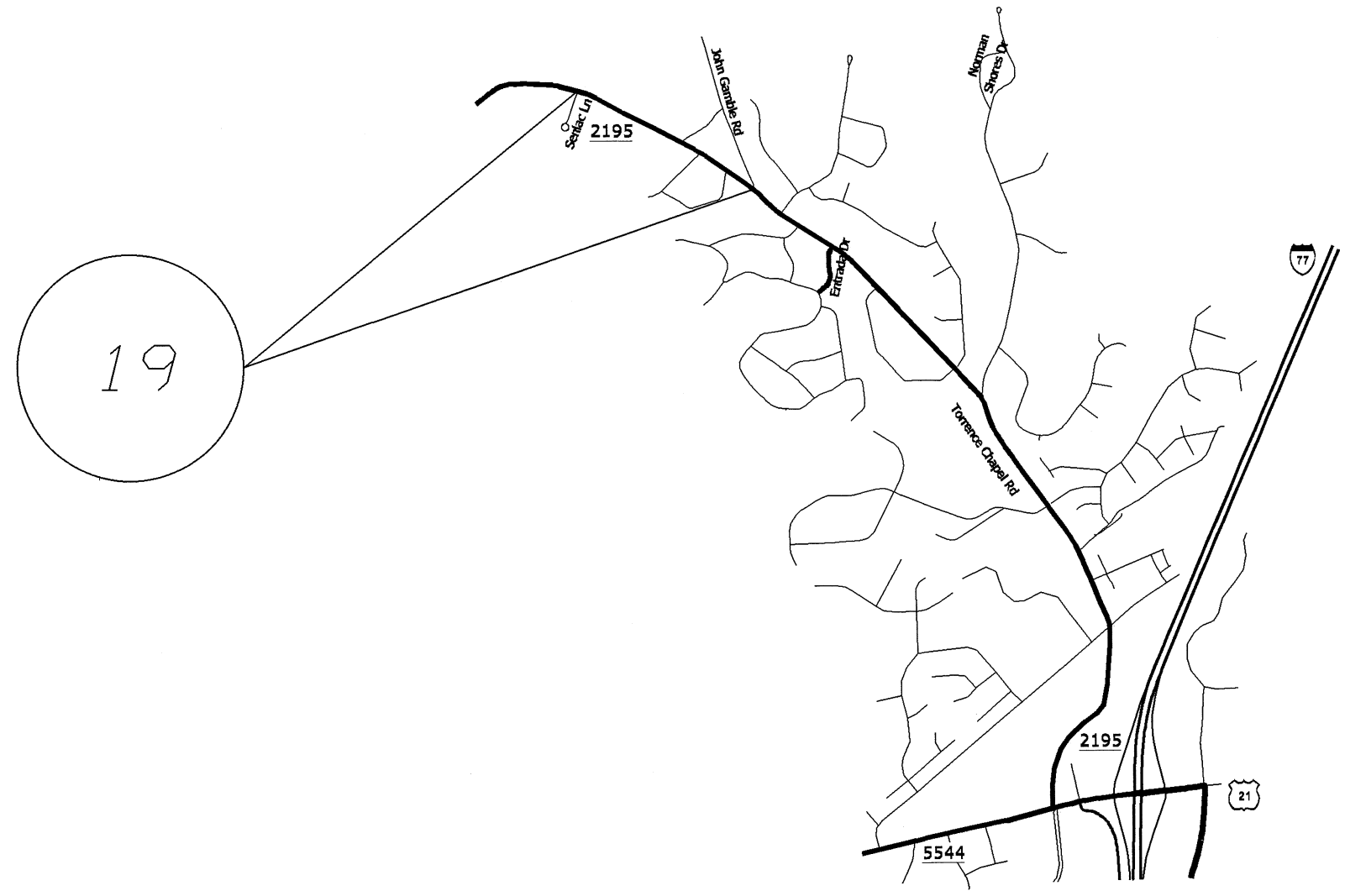
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	2/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		14	
WBS NO.	10CR.10601.92, ETC.		




MAP

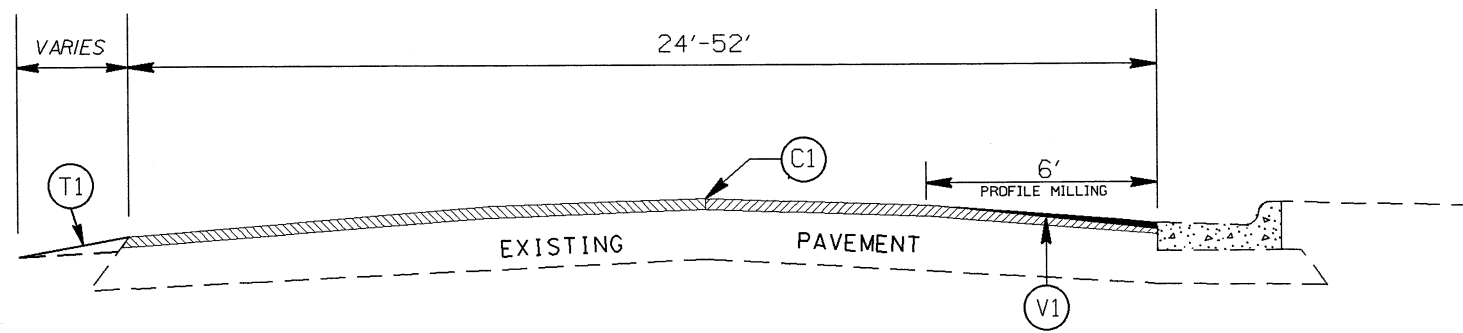
19 SR-2195 (TORRENCE CHAPEL RD)

DESCRIPTION

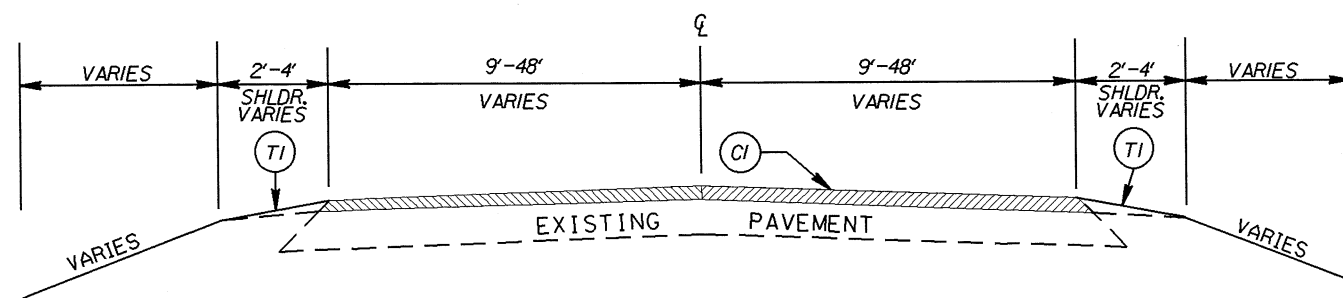
FROM JOHN GAMBLE RD TO SENLAC LN

2014/2015 MECKLENBURG COUNTY RESURFACING				
SCALE	-NA-		REVISIONS	
DATE	2/14			
DWG. BY	WAT			
DESIGN BY	WAT			
APPROVED	BDC			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		15	
WBS NO.	10CR.10601.92, ETC.		

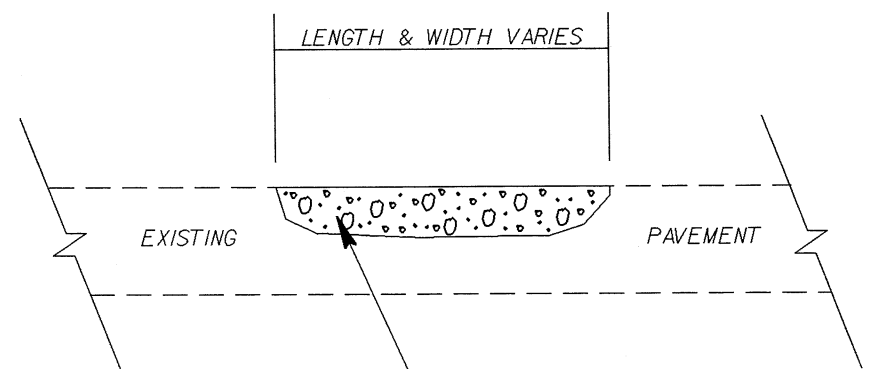


TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 1

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE B25.0C SHALL BE PLACED.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0 C AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH

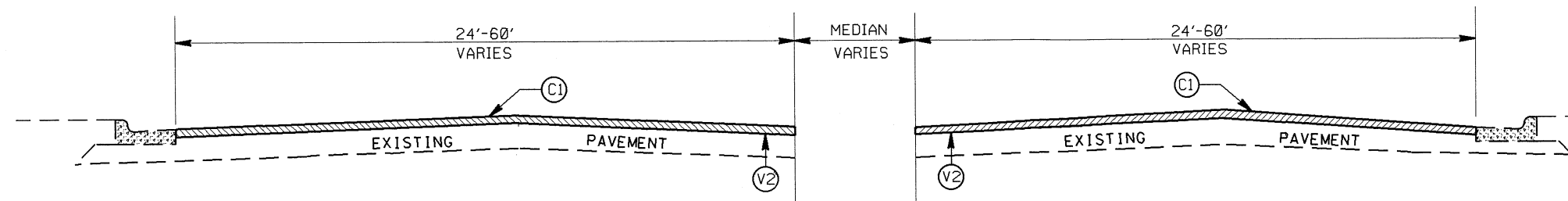
2014/2015 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-
DATE	3/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC

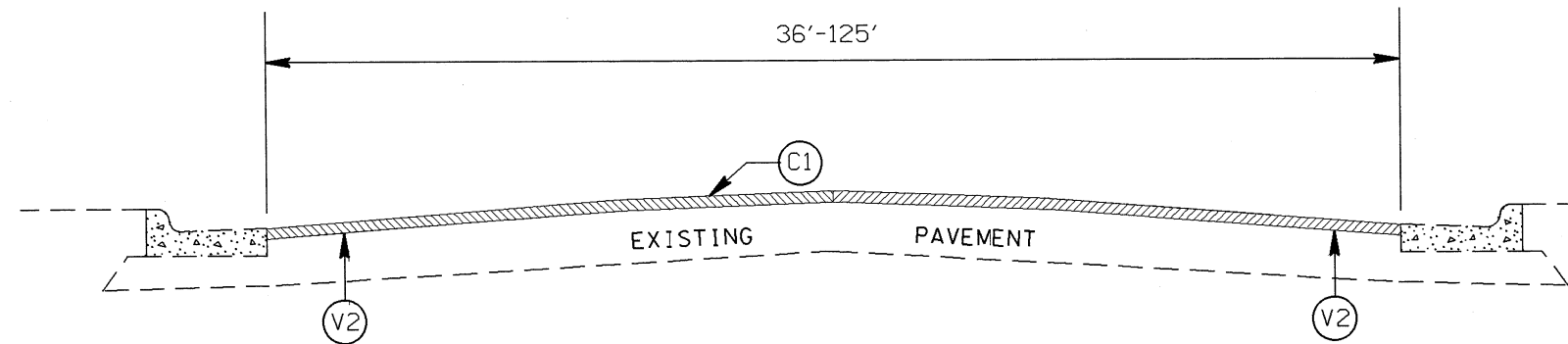


REVISIONS	

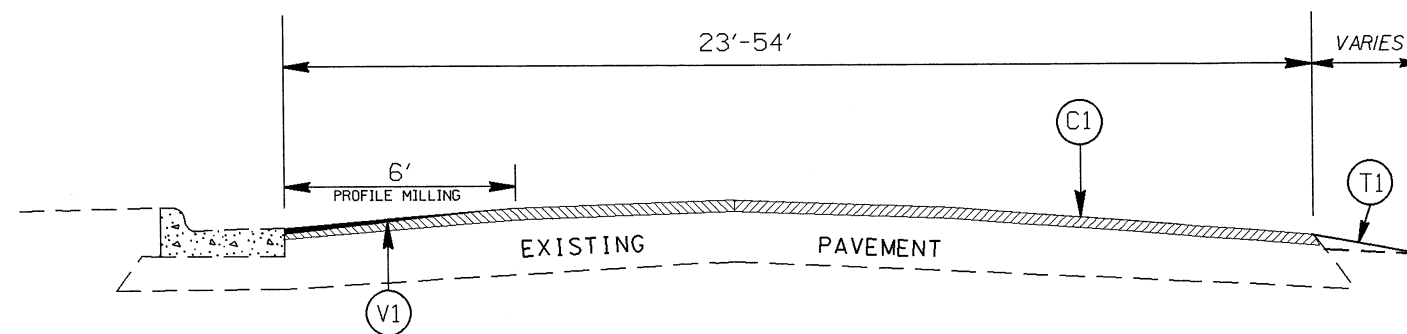
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		16	
WBS NO.	IOCR.10601.92, ETC.		



TYPICAL SECTION NO. 5



TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 3

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0 C AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH

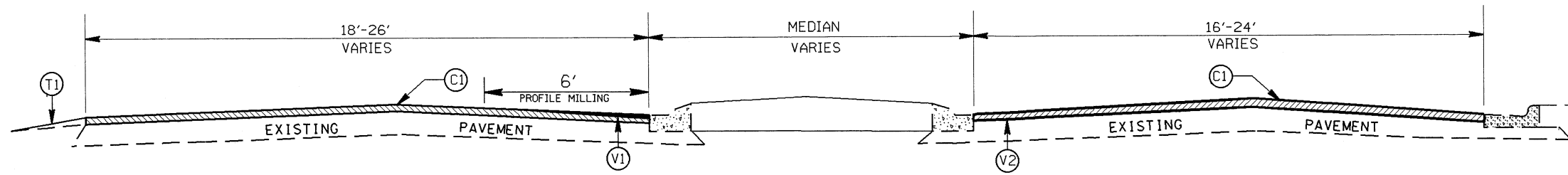
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	3/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



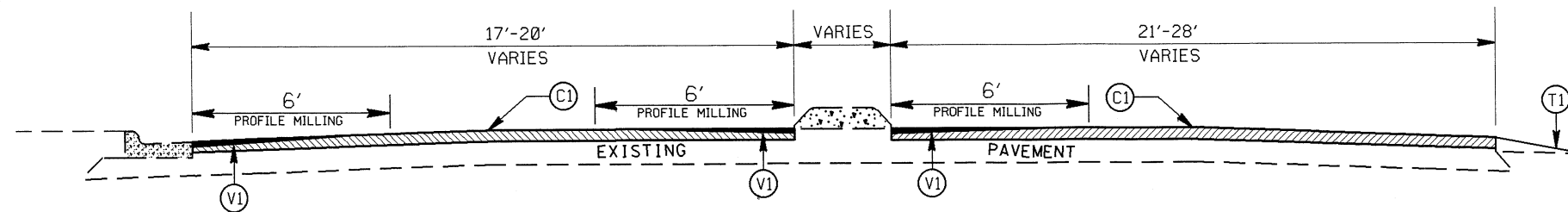
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		17	
WBS NO.	IOCR.10601.92, ETC.		



TYPICAL SECTION NO. 7

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0 C AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH



TYPICAL SECTION NO. 6

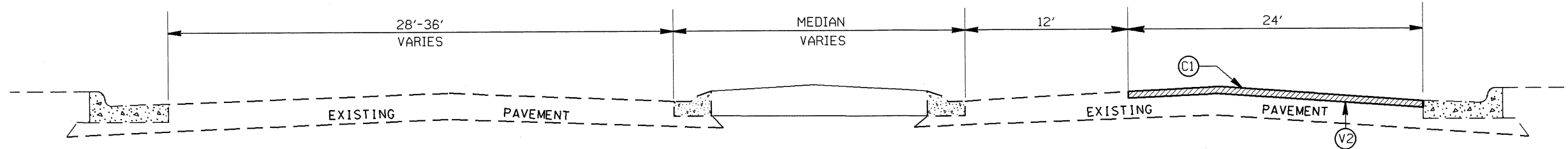
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	3/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC

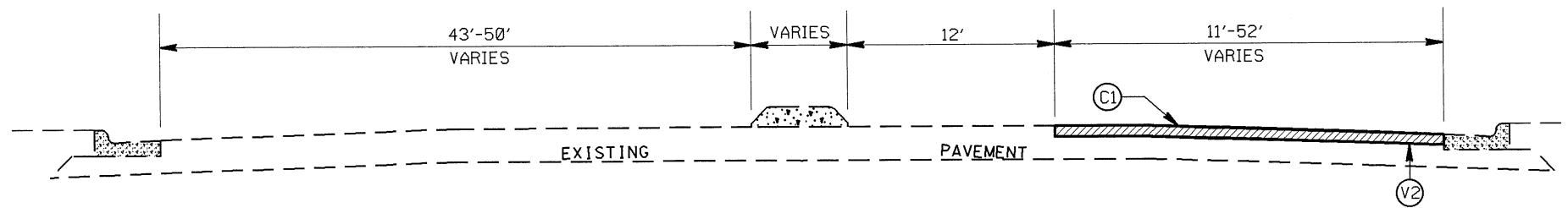


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		18	
WBS NO.	IDCR10601.92, ETC.		

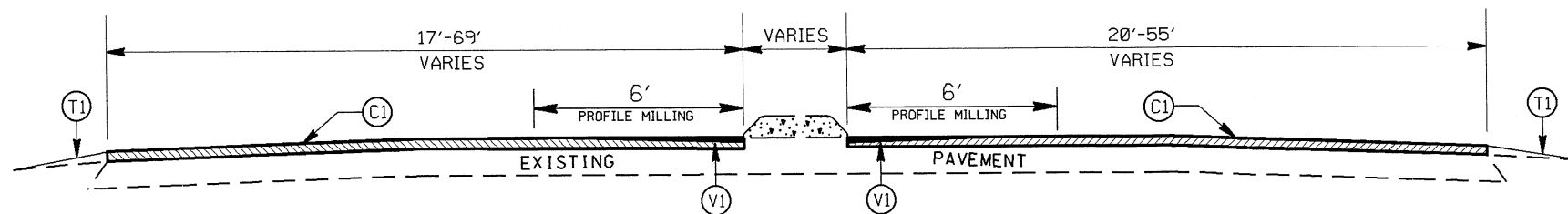


TYPICAL SECTION NO. 10



TYPICAL SECTION NO. 9

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0 C AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH



TYPICAL SECTION NO. 8

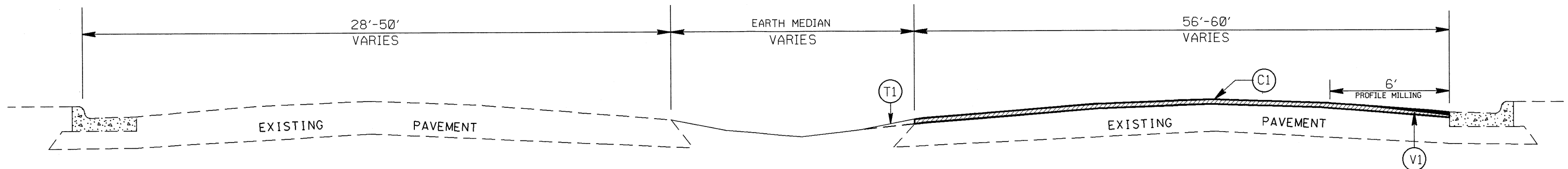
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE -NA-
DATE 3/14
DWG. BY WAT
DESIGN BY WAT
APPROVED BDC



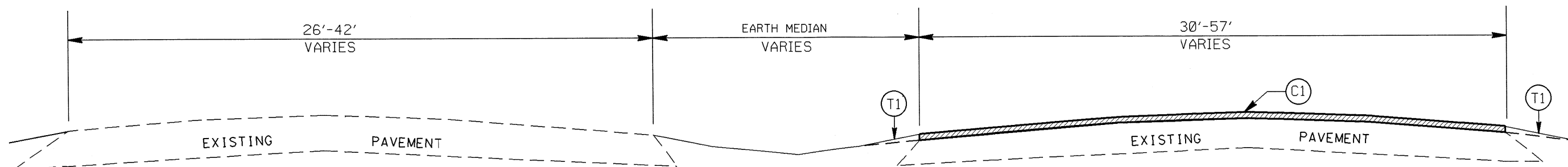
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		19	
WBS NO.	IDCR.10601.92, ETC.		



TYPICAL SECTION NO. 12

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0 C AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH



TYPICAL SECTION NO. 11

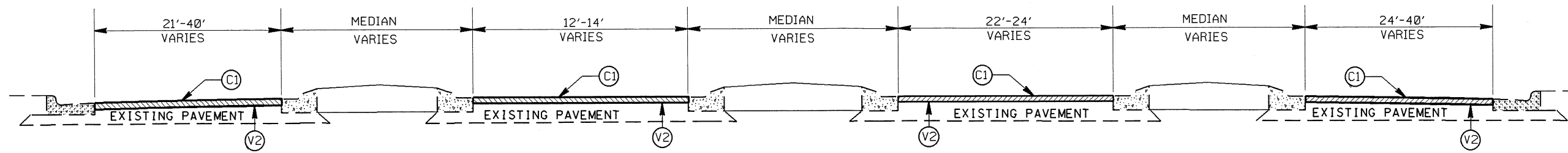
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	3/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC

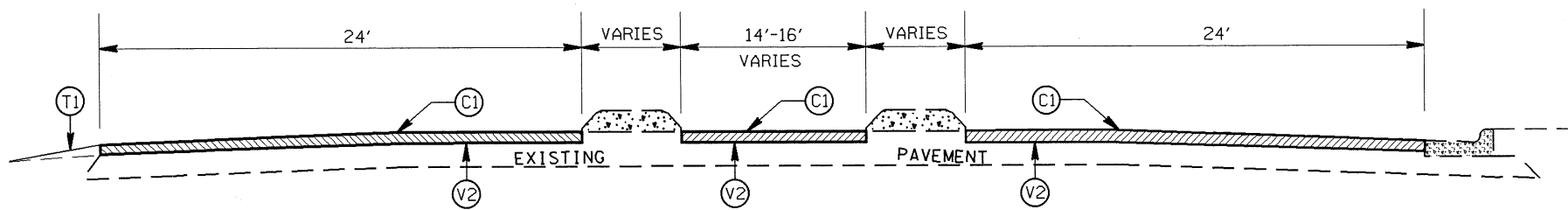


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		20	
WBS NO.	IOCR10601.92, ETC.		

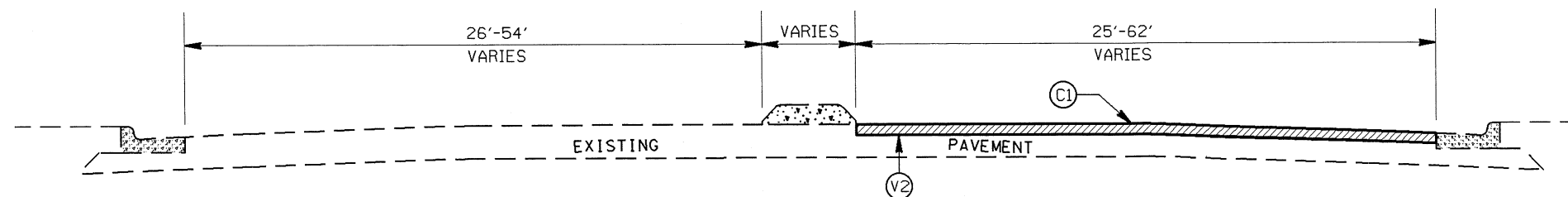


TYPICAL SECTION NO. 15



TYPICAL SECTION NO. 14

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0 C AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 827 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH



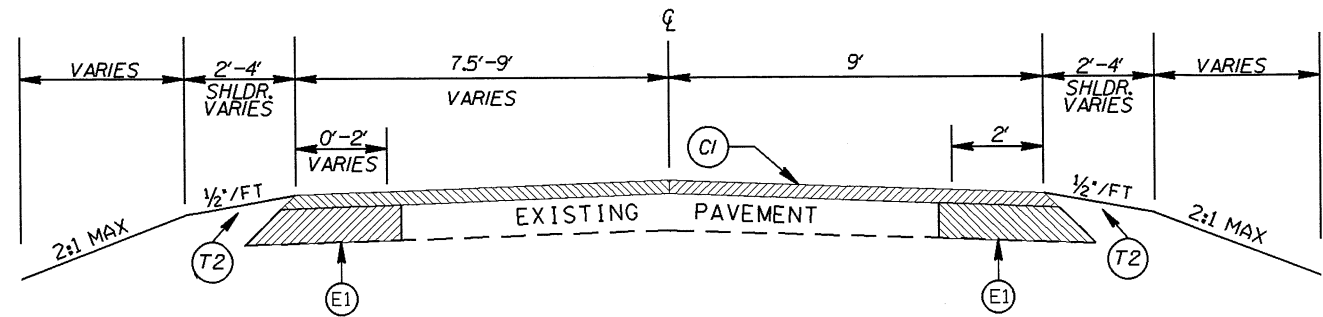
TYPICAL SECTION NO. 13

2014/2015 MECKLENBURG COUNTY
RESURFACING

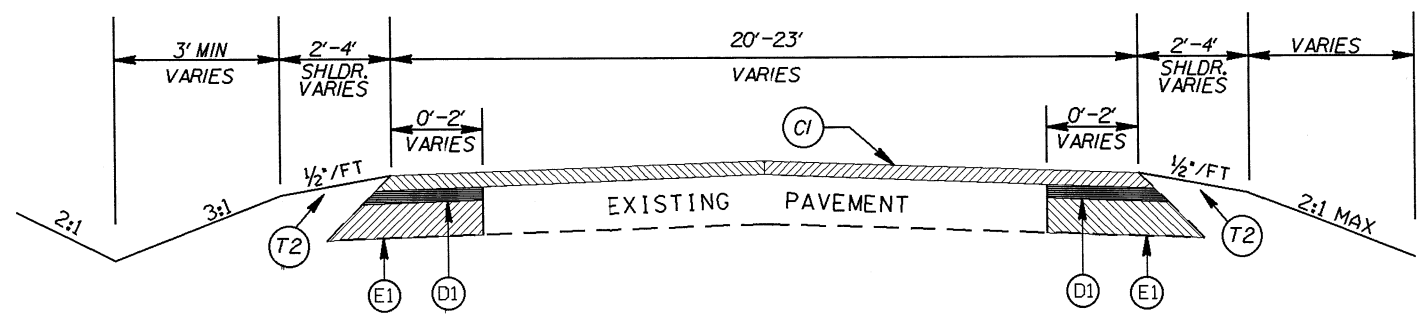
SCALE	-NA-
DATE	3/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC



REVISIONS	



TYPICAL SECTION NO. 17



TYPICAL SECTION NO. 16

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3.0" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0 C AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH

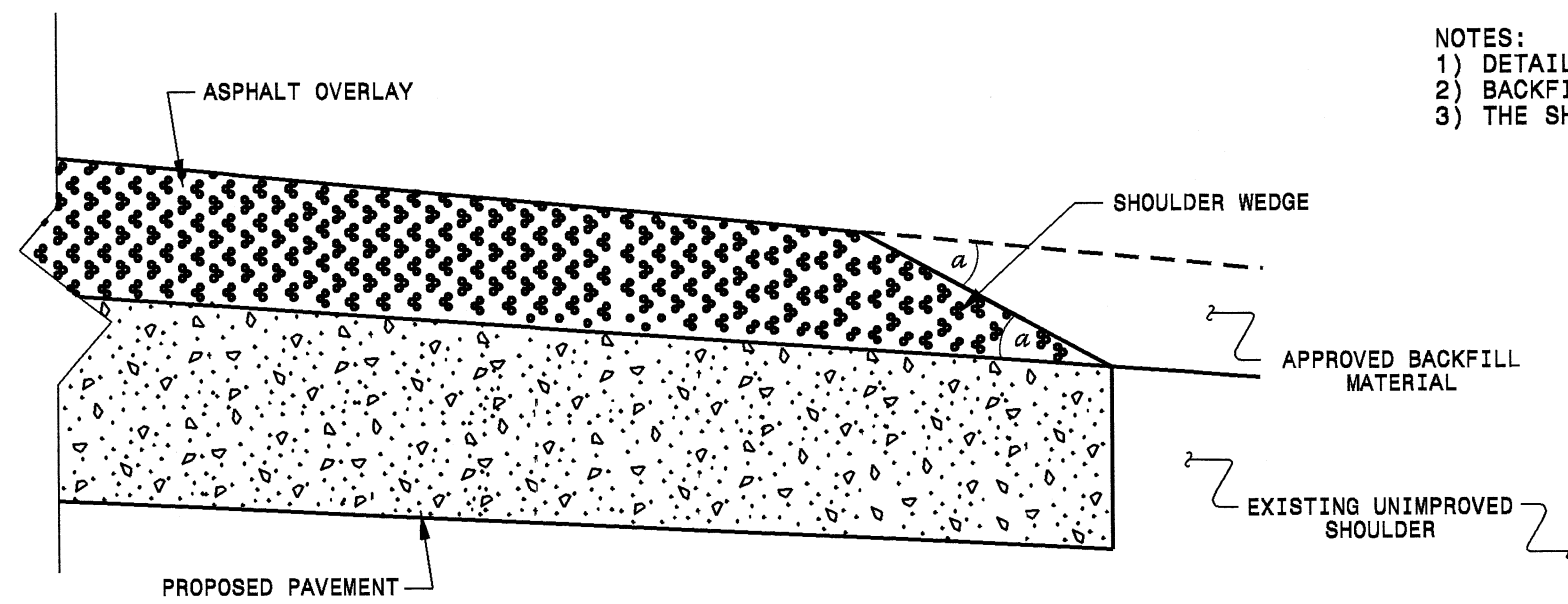
2014/2015 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	3/14
DWG. BY	WAT
DESIGN BY	WAT
APPROVED	BDC

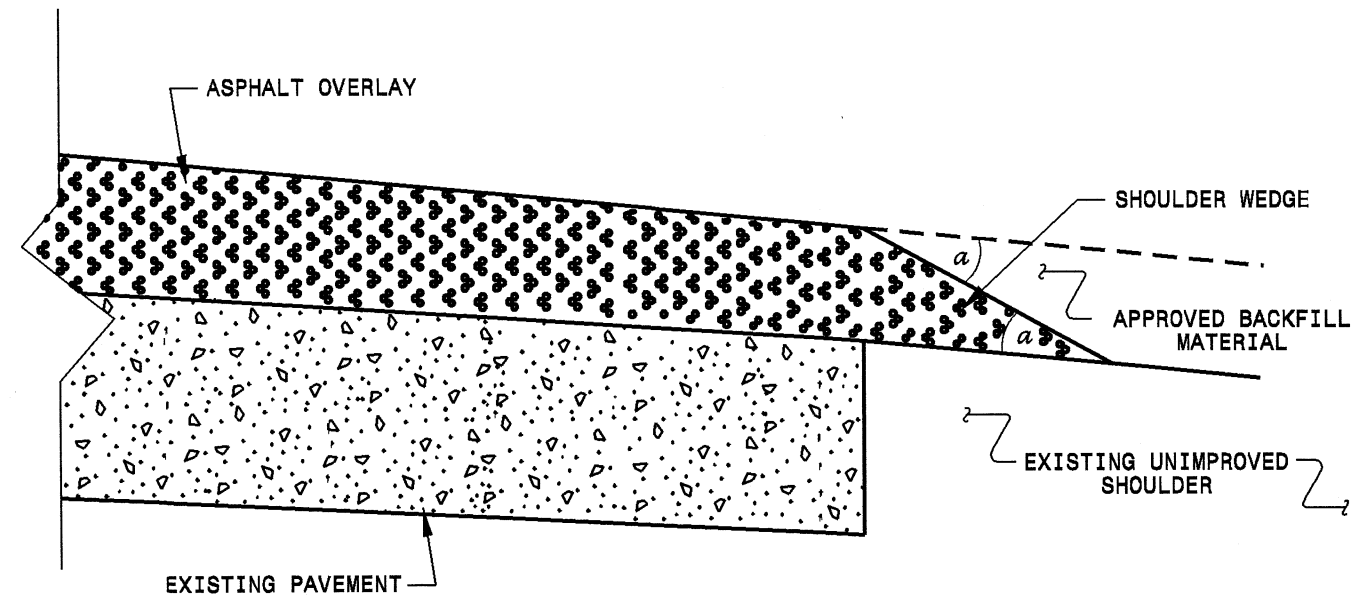


REVISIONS	

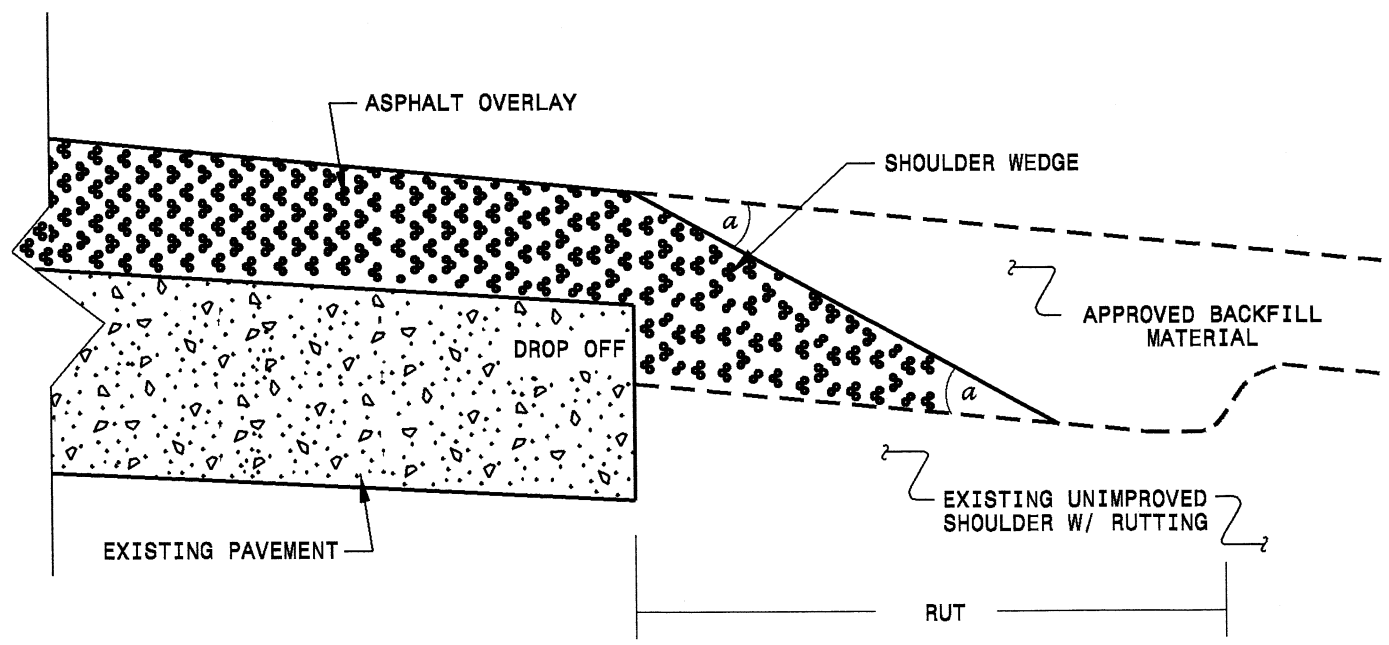
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

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:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	s:\usr\details\stand\shoulderwedgedetail.dgn		

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PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10601.92, 10CR.10601.10CR.20601.180, ETC.	23	27

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	CLEARING & GRUBBING AC	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER CONSTRUCTION SMI	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0C TONS	INTERMEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	RETROFIT EXISTING CURB RAMP EA	6" DRIVEWAYS SY	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	PORTABLE LIGHTING LS	TEMPORARY SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLYACRYLAMIDE (PAM) LB	
																																					9, 10, 11, 12, 13
TOTAL FOR MAP NO. 1																																					
TOTAL FOR PROJ NO. 10CR.10601.92																																					
10CR.10601.98	Mecklenburg	2	OLD STATESVILLE RD (NC 115)	PVMT JT N OF HUCKS RD TO PVMT JT S OF I-485 OFF RAMP	1	2		NO	NO	0.386	24		57	25		0.77		111			538	22	33	22								0.14	58	8	4	12	1
TOTAL FOR MAP NO. 2																																					
TOTAL FOR PROJ NO. 10CR.10601.98																																					
10CR.20601.180	Mecklenburg	3	DOWNS RD (SR-1129)	PVMT JT N OF DOWNS CR (SR-3645) TO CHARLOTTE CITY LIMITS	1	2		NO	NO	1.023	21		150	75		2.05		93			1,283	110	83	165								153	20	10	31	1	
TOTAL FOR MAP NO. 3																																					
TOTAL FOR PROJ NO. 10CR.20601.180																																					
10CR.20601.182	Mecklenburg	4	SUGAR CREEK/BROWNE RD (SR-2480)	W WT HARRIS BLVD (NC 24) TO PVMT JT N OF AMBER GLEN DRSEE VICINITY MAP	1, 2, 3	2		NO	NO	1.671	32		117	65		1.60		422	2,151		3,060	110	188	110	10.00		30			1	1	0.14	251	33	17	50	1
TOTAL FOR MAP NO. 4																																					
TOTAL FOR PROJ NO. 10CR.20601.182																																					
10CR.20601.184	Mecklenburg	5	GRIER RD (SR-2976)	NEWELL-HICKORY GROVE RD (SR-2853) TO E WT HARRIS BLVD (NC 24)	1, 2	4		NO	NO	0.232	53		31			0.42		27	393		685	110	48	220								35	5	3	7	1	
TOTAL FOR MAP NO. 5																																					
TOTAL FOR PROJ NO. 10CR.20601.184																																					
10CR.20601.185	Mecklenburg	6	NEWELL-HICKORY GROVE RD (SR-2853)	PVMT JT S OF RAILROAD CROSSING TO GRIER RD (SR-2976)	1, 8	2		NO	NO	0.543	27		80	25		1.09		26	460		813	193	60	275			10					82	11	6	16	1	
TOTAL FOR MAP NO. 6																																					
TOTAL FOR PROJ NO. 10CR.20601.185																																					
10CR.20601.186	Mecklenburg	7	DISTRICT DR (SR-4541)	NEWELL-HICKORY GROVE RD (SR-2853) TO E WT HARRIS BLVD (NC 24)	1	2		NO	NO	0.441	24		46	10		0.62		105			577	275	52	220						3		66	9	5	13	1	
TOTAL FOR MAP NO. 7																																					
TOTAL FOR PROJ NO. 10CR.20601.186																																					
10CR.20601.187	Mecklenburg	8	HARWOOD LN (SR-1667)	MT HOLLY-HUNTERSVILLE RD (SR-1666) TO RIVERSIDE DR (SR-1884)	1, 2	2		NO	NO	1.047	20		144	140		1.96		241	100		1,181	55	73	495			25					157	21	11	31	1	
TOTAL FOR MAP NO. 8																																					
TOTAL FOR PROJ NO. 10CR.20601.187																																					
10CR.20601.188	Mecklenburg	9	ROZELLES FERRY RD (SR-2373)	MT HOLLY-HUNTERSVILLE RD (SR-1666) TO BROOKSHIRE BLVD (NC 16)	1, 2, 3, 6, 8	2		NO	NO	1.402	29		169	130		2.30		575	531		2,257		133		3.00		80					210	28	14	42	1	
TOTAL FOR MAP NO. 9																																					
TOTAL FOR PROJ NO. 10CR.20601.188																																					
10CR.20601.189	Mecklenburg	10	PLAZA RD EXT (SR-2803)	PVMT JT S OF N PINE HILL LN (SR-5853) TO CABARRUS COUNTY LINE	1, 4	2		NO	NO	0.41	25		60	50		0.82	187		287		569	110	41	220							62	10	5	13	1		
TOTAL FOR MAP NO. 10																																					
TOTAL FOR PROJ NO. 10CR.20601.189																																					
10CR.20601.190	Mecklenburg	11	BALLANTYNE COMMONS PKY (SR-4979)	PVMT JT W OF COLONY WOODS DR TO PVMT JT W OF REA RD (SR-5722)	1, 2, 4, 5, 7, 14	2		NO	NO	0.512	24		10			0.14	15,216	229	170		1,591	149	104		11.00				2		0.14	77	10	5	39	1	
TOTAL FOR MAP NO. 11																																					
TOTAL FOR PROJ NO. 10CR.20601.190																																					
10CR.20601.191	Mecklenburg	12	BEARD RD (SR-2463)	CABARRUS COUNTY LINE TO PVMT JT N OF RIDGE RD (SR-2467)	1, 2	2		NO	NO	1.054	21		136	65		1.87		418	102		1,251	624	114		2.00						158	21	11	32	1		
TOTAL FOR MAP NO. 12																																					
TOTAL FOR PROJ NO. 10CR.20601.191																																					
10CR.20601.196	Mecklenburg	13	DORMAN RD (SR-3637)	LANCASTER HWY (SR-4982) TO SC LINE (SEE VICINITY MAP)	1, 3, 16	2		NO	NO	1.001	22	0.20	132	20	0.70	1.10		387	127	295	138	1,393	387	127	275	1.00			1	4		150	20	10	30	1	
TOTAL FOR MAP NO. 13																																					
TOTAL FOR PROJ NO. 10CR.20601.196																																					
10CR.20601.197	Mecklenburg	14	CAROLINA PLACE PKWY (SR-4931)	PINEVILLE-MATTHEWS RD (NC 51) TO PVMT JT N OF LANCASTER HWY (SR-4982)	4, 5	4		NO	NO	0.818	59										2,622	330	176	110	4.00				8			123	16	8	25	1	
TOTAL FOR MAP NO. 14																																					
TOTAL FOR PROJ NO. 10CR.20601.197																																					
10CR.20601.198	Mecklenburg	15	RESEARCH DR (SR-2699)	DAVID TAYLOR DR (SR-2713) TO W WT HARRIS BLVD (NC 24)	4, 5, 15	2		NO	NO	0.518	36										1,144		68	220	4.00			1	1	2		78	10	5	16	1	
TOTAL FOR MAP NO. 15																																					
TOTAL FOR PROJ NO. 10CR.20601.198																																					
10CR.20601.201	Mecklenburg	16	REA RD (SR-5722) [SB]	BLAKENEY GREEN BLVD TO BRIDGE AT UNION CO LINE	4, 5	2		NO	NO	1.138	24										1,980	55	120	83	9.00						0.14	171	23	12	35	1	
TOTAL FOR MAP NO. 16																																					
TOTAL FOR PROJ NO. 10CR.20601.201																																					
10CR.20601.202	Mecklenburg	17	REA RD (SR-5722) [NB]	BRIDGE AT UNION COUNTY LINE TO BLAKENEY GREEN BLVD	4, 5	2		NO	NO	1.134	24										1,892	55	115	83	14.00						0.14	170	23	12	34	1	
TOTAL FOR MAP NO. 17																																					
TOTAL FOR PROJ NO. 10CR.20601.202																																					
10CR.20601.203	Mecklenburg	18	GILEAD RD (SR-2136)	SHERWOOD DR (SR-2436) TO COMMERCE CENTRE DR	4	3		NO	NO	0.356	40										774	110	53	330	8.00			7	3	0.14	53	7	4	11	1		
TOTAL FOR MAP NO. 18																																					
TOTAL FOR PROJ NO. 10CR.20601.203																																					
10CR.20601.204	Mecklenburg	19	TORRENCE CHAPEL RD (SR-2195)	JOHN GAMBLE RD TO SENLAC LN	17	2		NO	NO	0.398	15		60	15	0.80						391	195	50				270					60	8	4	12	1	
TOTAL FOR MAP NO. 19																																					
TOTAL FOR PROJ NO. 10CR.20601.204																																					
GRAND TOTAL										14,649		0.20	1,258	620	1.50	15.64	90,706	2,356	4,697	621	138	25,199	3,110	1,723	2,993	66.00	435	1	23	14	1.00	2,199	294	152	466	19	

PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10601.92, 10CR.10601.98 10CR.20601.180, ETC.	27	27

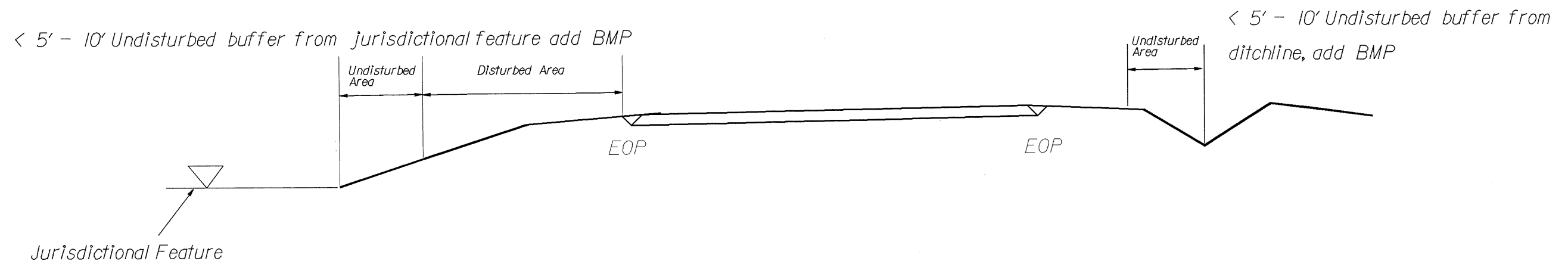
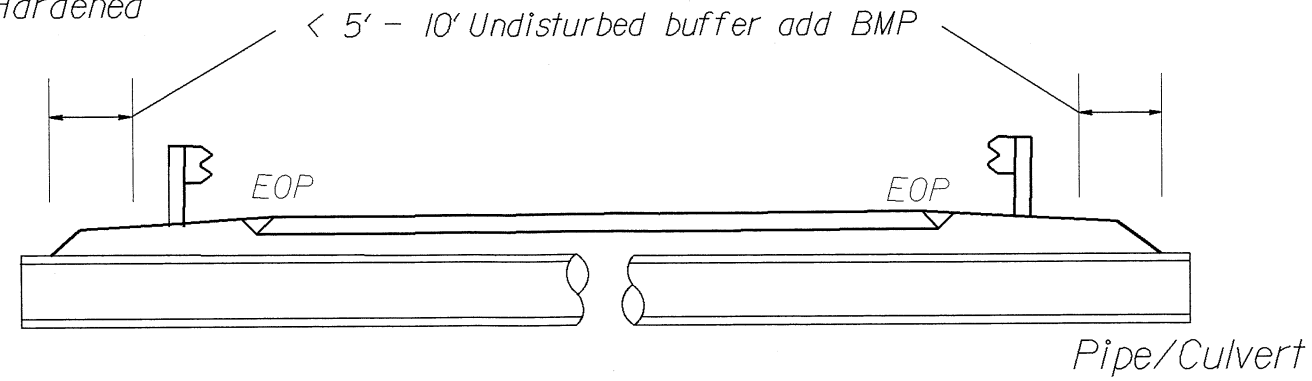
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	472500000-E					481000000-E		482000000-E	482500000-E	483500000-E	484000000-N		484500000-N			490000000-N																											
										THERMO RT ARROW 90 M	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & LT ARROW 90 M	4" YELLOW PAINT	4" WHITE PAINT	8" WHITE PAINT	12" WHITE PAINT	24" WHITE PAINT	PAINT MSG ONLY	PAINT MSG SCHOOL	PAINT RT ARROW	PAINT LT ARROW	PAINT STR ARROW	PAINT STR & RT ARROW	PAINT STR & LT ARROW	CYAN & RED MARKERS	YELLOW & YELLOW MARKERS																								
										EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA																									
10CR.20601.190	Mecklenburg	11	BALLANTYNE COMMONS PKY (SR-4979)	PVMT JT W OF COLONY WOODS DR TO PVMT JT W OF REA RD (SR-5722)	1, 2, 4, 5, 7, 14	2		0.512	24	5	18				1,538	5,468			256	8		5	18				118	17																								
TOTAL FOR MAP NO. 11										5	18				1,538	5,468			256	8		5	18				118	17																								
TOTAL FOR PROJ NO. 10CR.20601.190										5	18				1,538	5,468			256	8		5	18				118	17																								
										23					7,006				8		23			135																												
10CR.20601.191	Mecklenburg	12	BEARD RD (SR-2463)	CABARRUS COUNTY LINE TO PVMT JT N OF RIDGE RD (SR-2467)	1, 2	2		1.054	21																			69																								
TOTAL FOR MAP NO. 12																													69																							
TOTAL FOR PROJ NO. 10CR.20601.191																															69																					
										4					1,054				61		69			69																												
10CR.20601.196	Mecklenburg	13	DORMAN RD (SR-3637)	LANCASTER HWY (SR-4982) TO SC LINE (SEE VICINITY MAP)	1, 3, 16	2		1.001	22	1	3																																									
TOTAL FOR MAP NO. 13										1	3																																									
TOTAL FOR PROJ NO. 10CR.20601.196										1	3																																									
										4					1,001				61		61			200		53																										
10CR.20601.197	Mecklenburg	14	CAROLINA PLACE PKWY (SR-4931)	PINEVILLE-MATTHEWS RD (NC 51) TO PVMT JT N OF LANCASTER HWY (SR-4982)	4, 5	4		0.818	59	6	34	8	9	4	4,601	4,228	74		214			6	34	9	8	4	200	53																								
TOTAL FOR MAP NO. 14										6	34	8	9	4	4,601	4,228	74		214		6	34	9	8	4	200	53																									
TOTAL FOR PROJ NO. 10CR.20601.197										6	34	8	9	4	4,601	4,228	74		214		6	34	9	8	4	200	53																									
										61					8,829				61		61			200		53																										
10CR.20601.198	Mecklenburg	15	RESEARCH DR (SR-2699)	DAVID TAYLOR DR (SR-2713) TO W WT HARRIS BLVD (NC 24)	4, 5, 15	2		0.518	36	5	9	3			968	336	1,120		48	4		5	3			3	56	50																								
TOTAL FOR MAP NO. 15										5	9	3			968	336	1,120		48	4	5	3		3	56	50																										
TOTAL FOR PROJ NO. 10CR.20601.198										5	9	3			968	336	1,120		48	4	5	3		3	56	50																										
										17					1,304				4		11			106																												
10CR.20601.201	Mecklenburg	16	REA RD (SR-5722) [SB]	BLAKENEY GREEN BLVD TO BRIDGE AT UNION CO LINE	4, 5	2		1.138	24	12	14					3,448	760	81	60			12	14				187																									
TOTAL FOR MAP NO. 16										12	14					3,448	760	81	60		12	14			187																											
TOTAL FOR PROJ NO. 10CR.20601.201										12	14					3,448	760	81	60		12	14			187																											
										26					3,448				26		26			187																												
10CR.20601.202	Mecklenburg	17	REA RD (SR-5722) [NB]	BRIDGE AT UNION COUNTY LINE TO BLAKENEY GREEN BLVD	4, 5	2		1.134	24	6	14					3,071	977		112			6	14				182																									
TOTAL FOR MAP NO. 17										6	14					3,071	977		112		6	14			182																											
TOTAL FOR PROJ NO. 10CR.20601.202										6	14					3,071	977		112		6	14			182																											
										20					3,071				20		20			182																												
10CR.20601.203	Mecklenburg	18	GILEAD RD (SR-2136)	SHERWOOD DR (SR-2436) TO COMMERCE CENTRE DR	4	3		0.356	40		13				3,849	325			167		6		13			11	35																									
TOTAL FOR MAP NO. 18											13				3,849	325			167		6		13		11	35																										
TOTAL FOR PROJ NO. 10CR.20601.203											13				3,849	325			167		6		13		11	35																										
										13					4,174				6		13			46																												
10CR.20601.204	Mecklenburg	19	TORRENCE CHAPEL RD (SR-2195)	JOHN GAMBLE RD TO SENLAC LN	17	2		0.398	15																																											
TOTAL FOR MAP NO. 19																																																				
TOTAL FOR PROJ NO. 10CR.20601.204																																																				
										14,649					57		165		13		12		6		13,356		18,451		2,931		81		1,117		20		6		38		99		9		8		7		1,088		895	
GRAND TOTAL										14,649					57		165		13		12		6		13,356		18,451		2,931		81		1,117		20		6		38		99		9		8		7		1,088		895	
										253					31,807		26		161			1,983																														

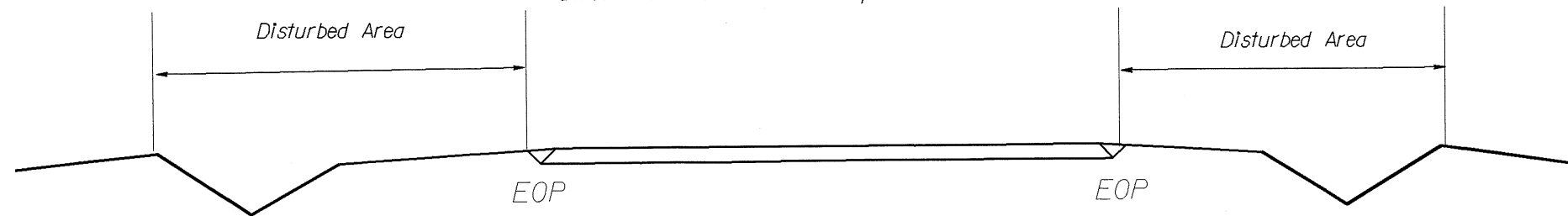
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

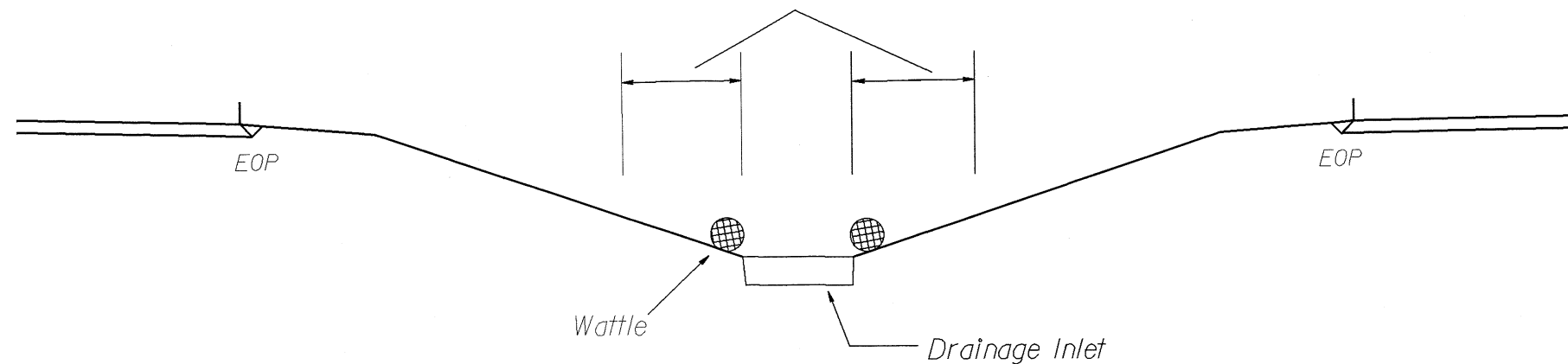
EROSION CONTROL DETAIL



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

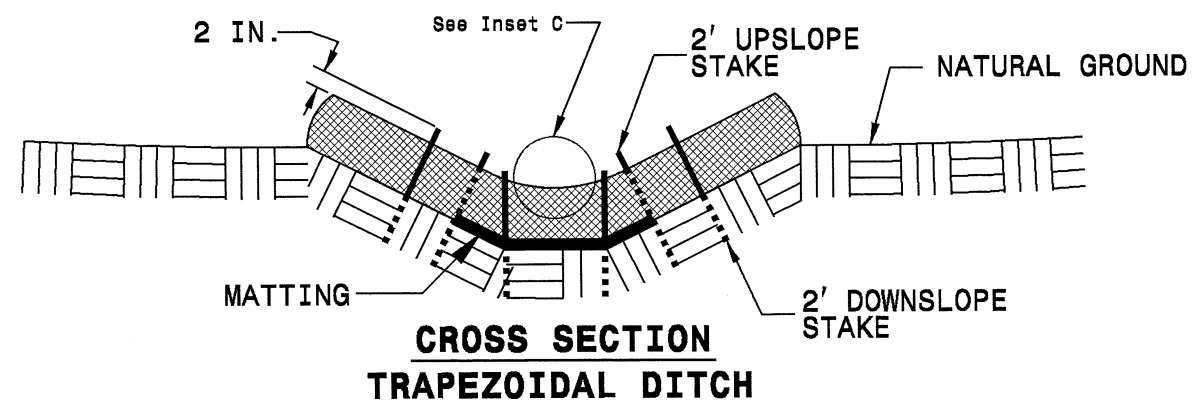
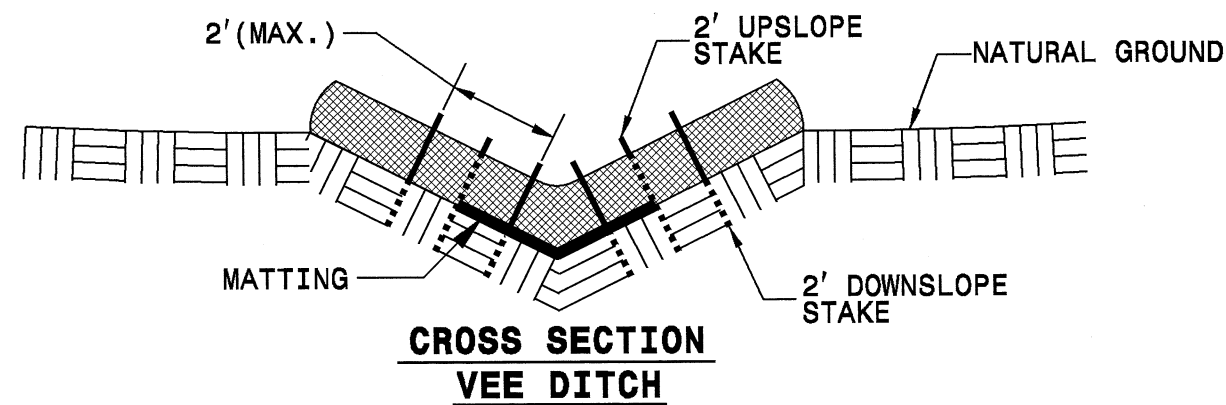
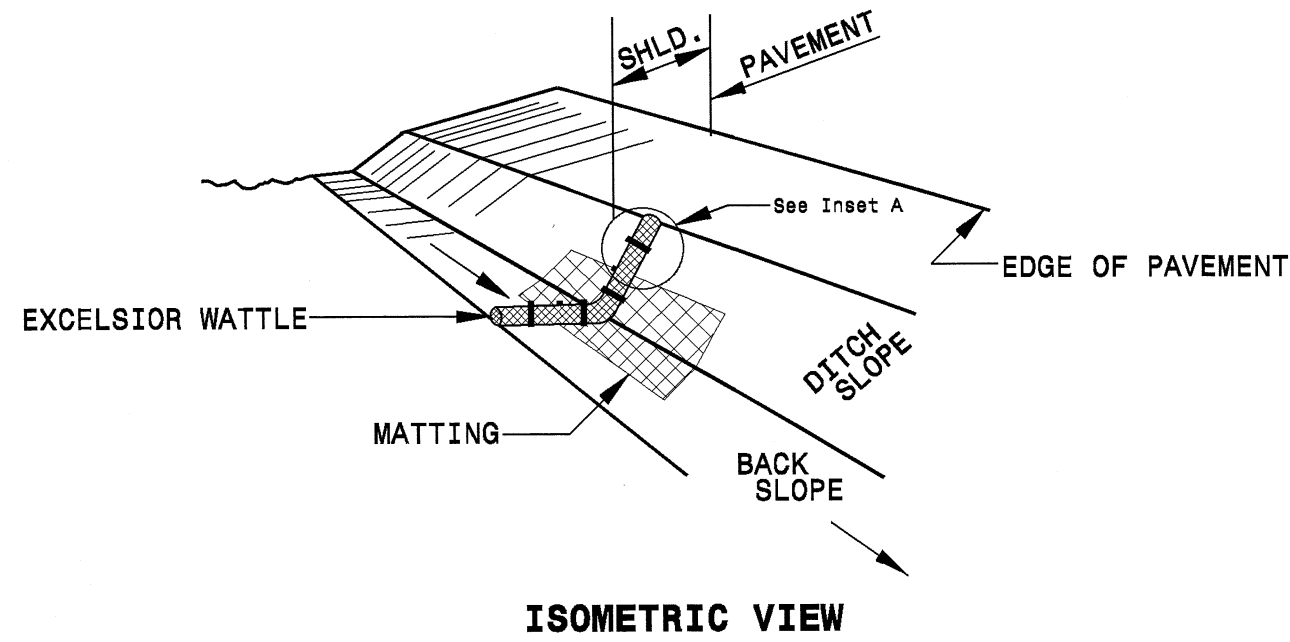


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

WATTLE WITH POLYACRYLAMIDE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

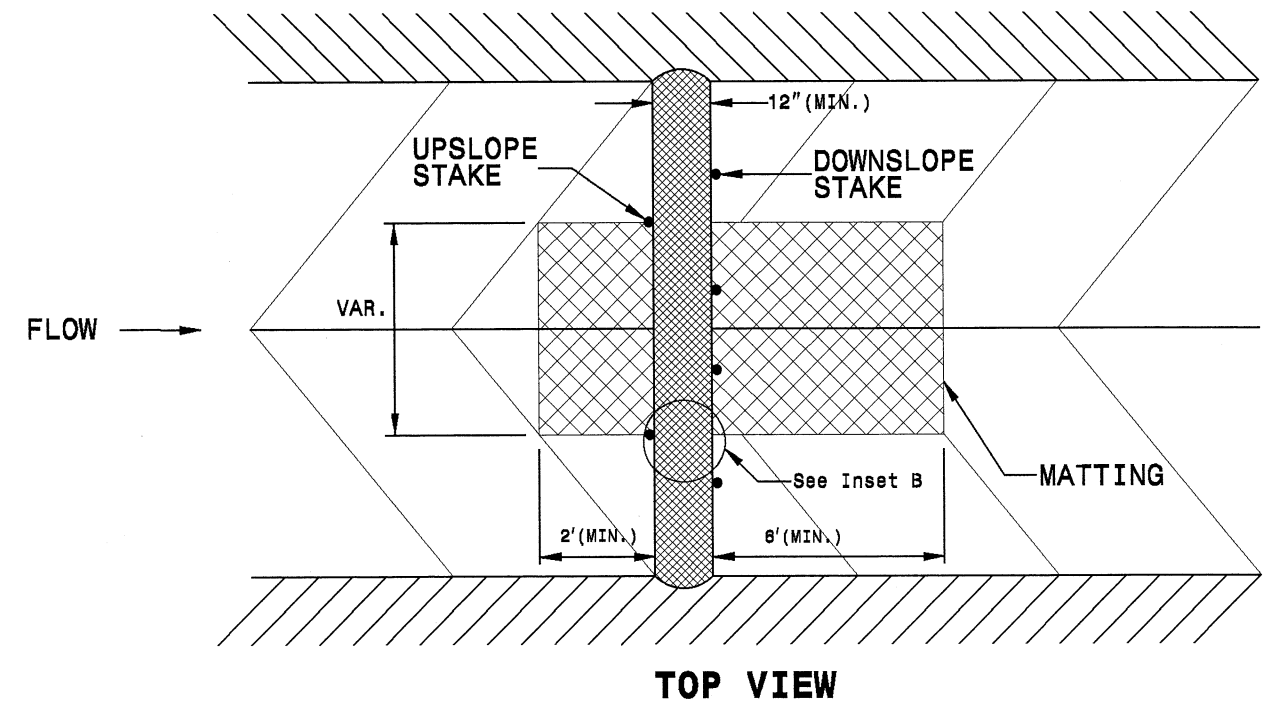
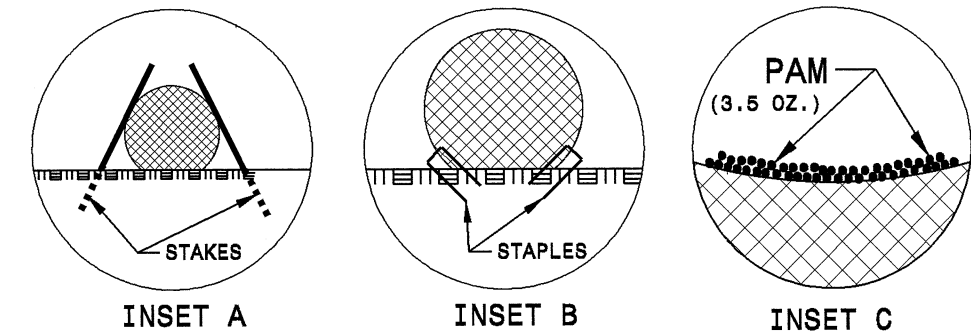
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

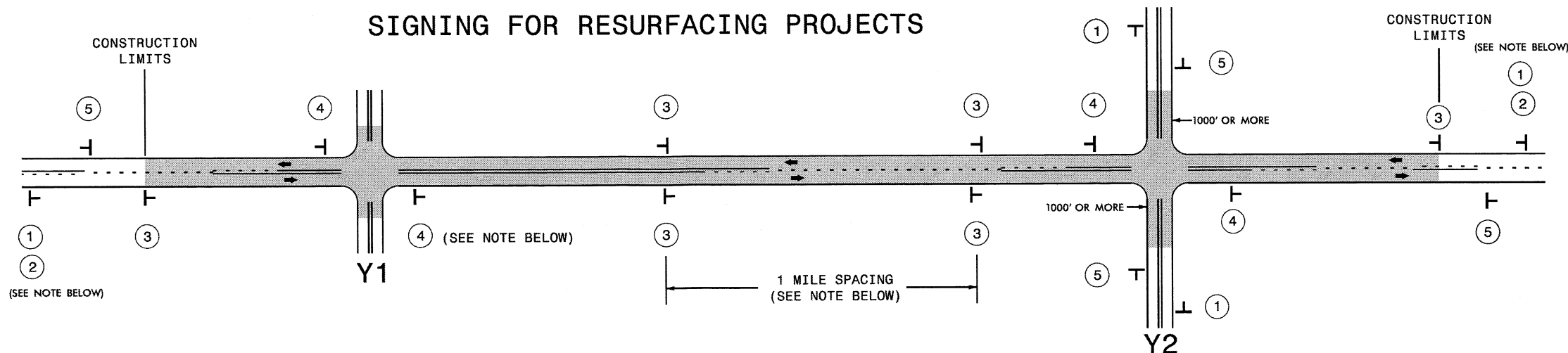
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



SIGNING FOR RESURFACING PROJECTS



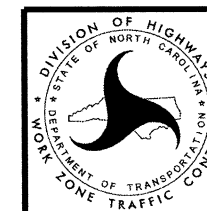
LEGEND	
┃	STATIONARY SIGN
→	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

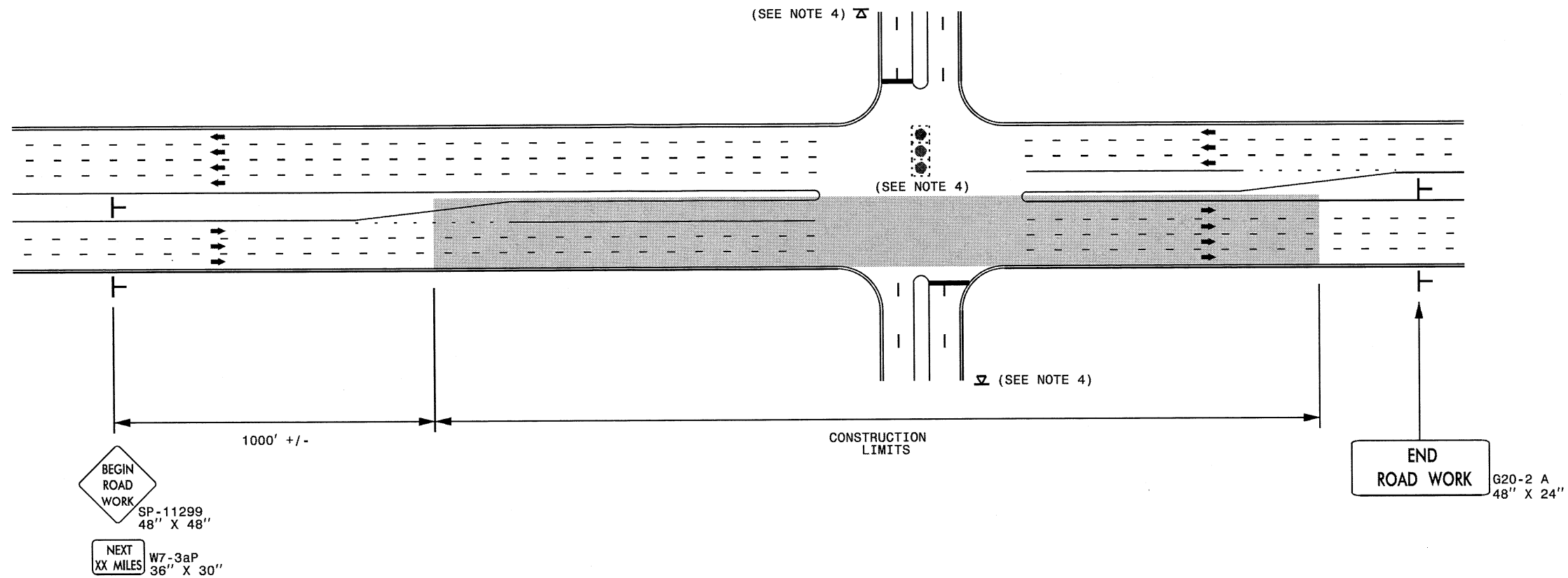
SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p style="text-align: center;">NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p style="text-align: center; font-size: small;">WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p style="text-align: center; font-size: small;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	②	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	③	 <small>SP 13107 48" X 48"</small>	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	④	 <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.	
⑤	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

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

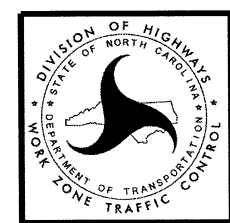
URBAN / SUBURBAN WORKZONES



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.

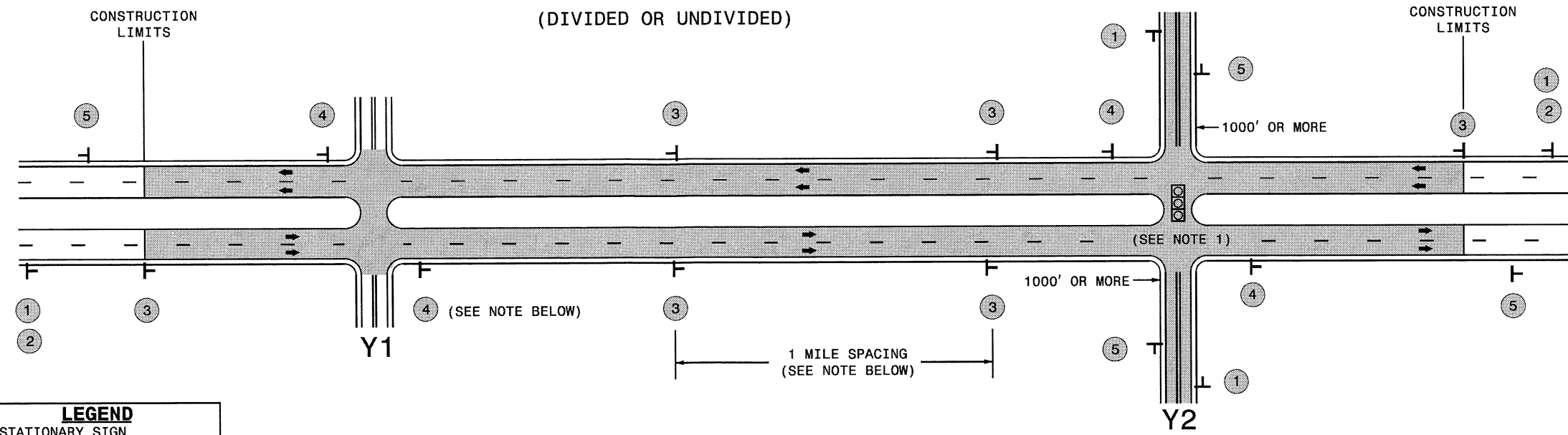
LEGEND	
└	STATIONARY SIGN
➔	DIRECTION OF TRAFFIC FLOW



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

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SIGNING FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS WITH SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)



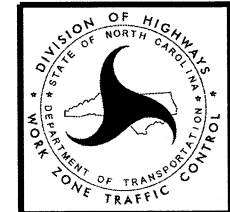
LEGEND	
┌	STATIONARY SIGN
→	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

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

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RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS (DIVIDED OR UNDIVIDED)