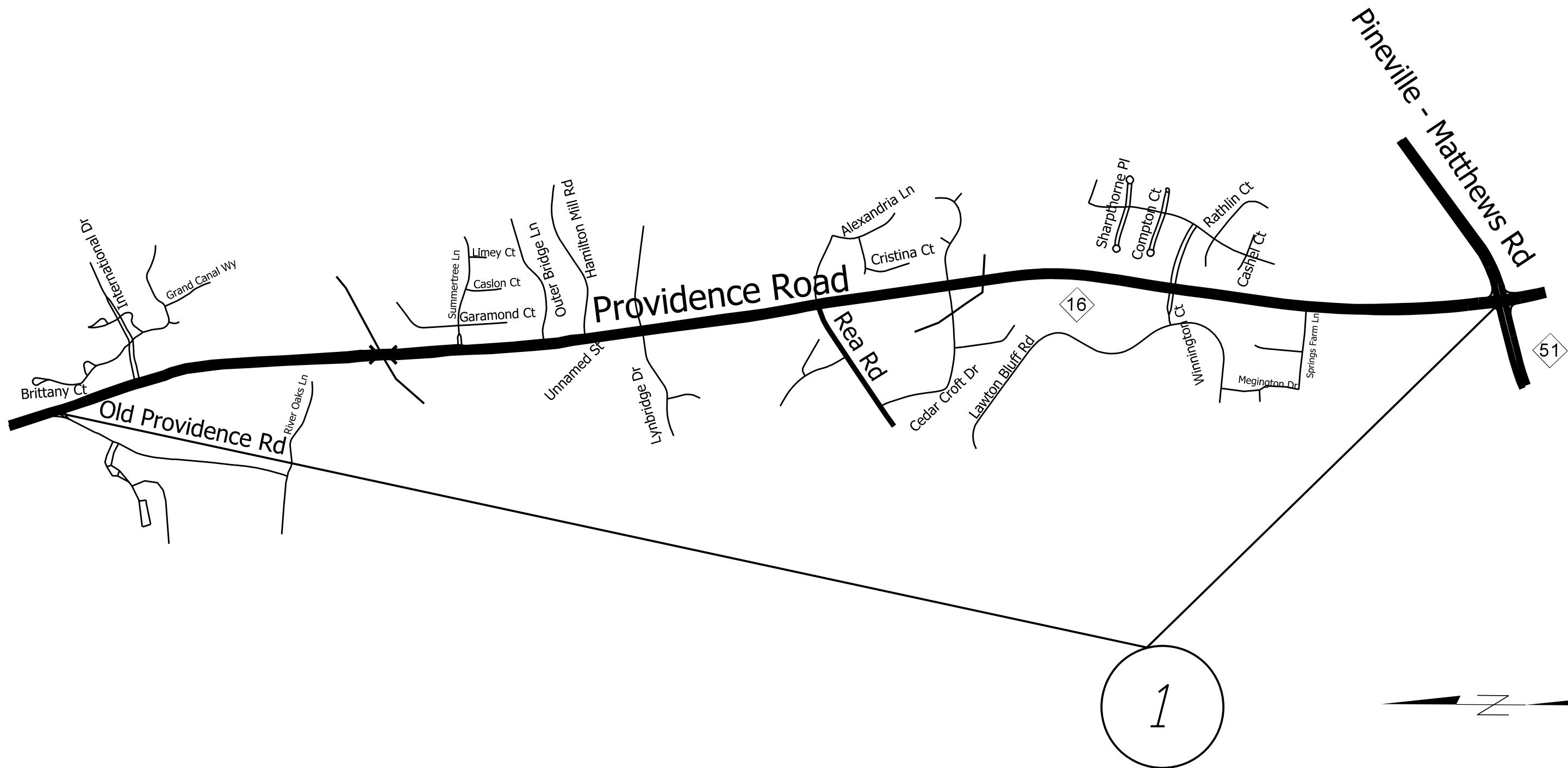


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	20
WBS NO. 2017CPT.10.17.10601.1			

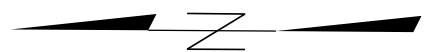


MAP

1 NC 16 (PROVIDENCE ROAD SB)

DESCRIPTION

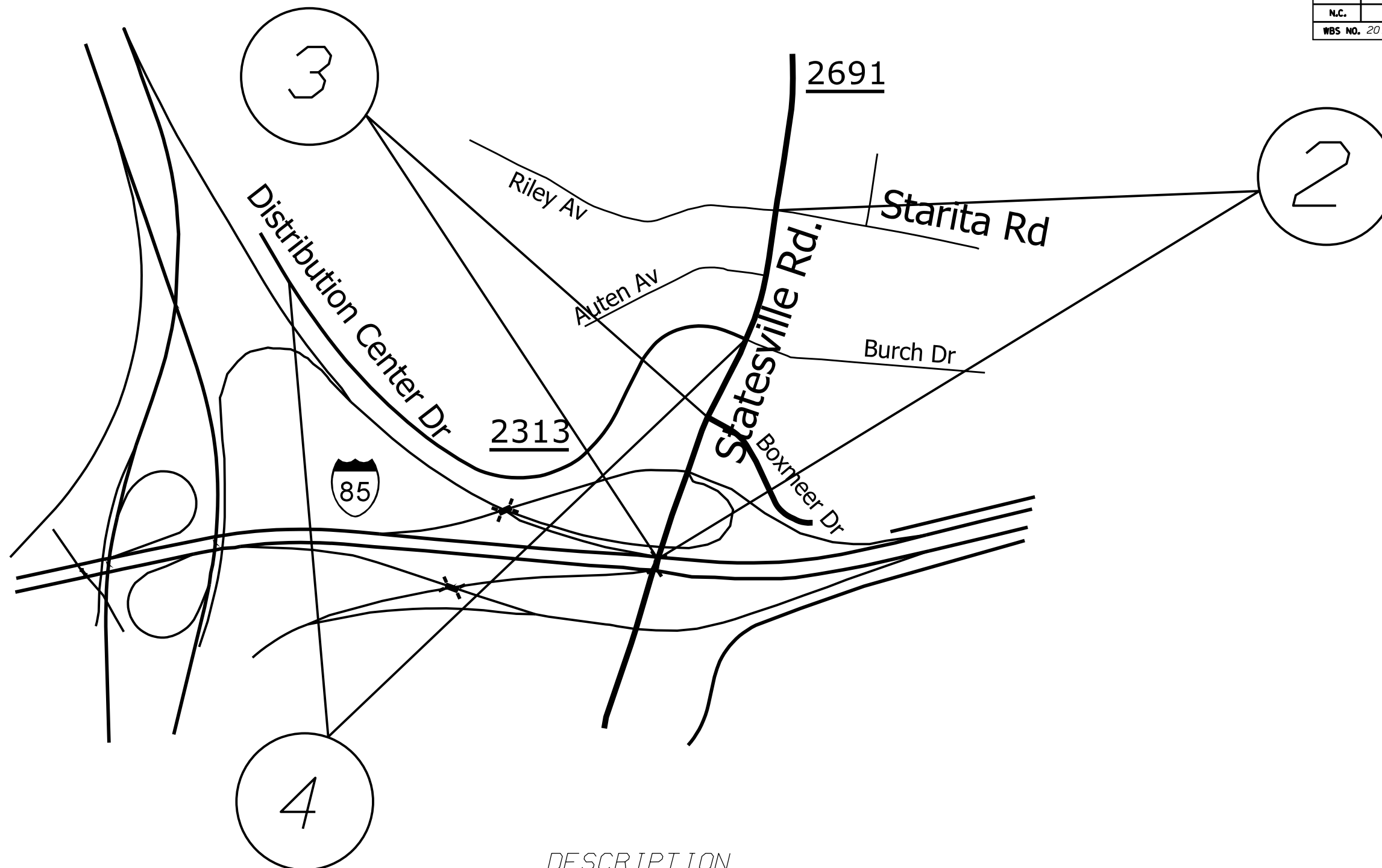
FROM OLD PROVIDENCE ROAD SOUTH BOUND TO
NC 51 PINEVILLE-MATTHEWS ROAD



2017/2018 MECKLENBURG COUNTY RESURFACING		REVISIONS	
SCALE	-NA-		
DATE	4/17		
DWG. BY	JE		
DESIGN BY	JE		
APPROVED	TB		



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		2	20
WBS NO. 2017CPT.10.17.20601.1			



MAP

DESCRIPTION

2 SR 2691 (STATESVILLE ROAD)

FROM I-85 BRIDGE DECK NORTH TO STARITA RD.

3 SR 2691 (STATESVILLE ROAD SB)

FROM BOXMEER DR. SOUTH TO I-85 BRIDGE DECK

4 SR 2313 (DISTRIBUTION CENTER DR)

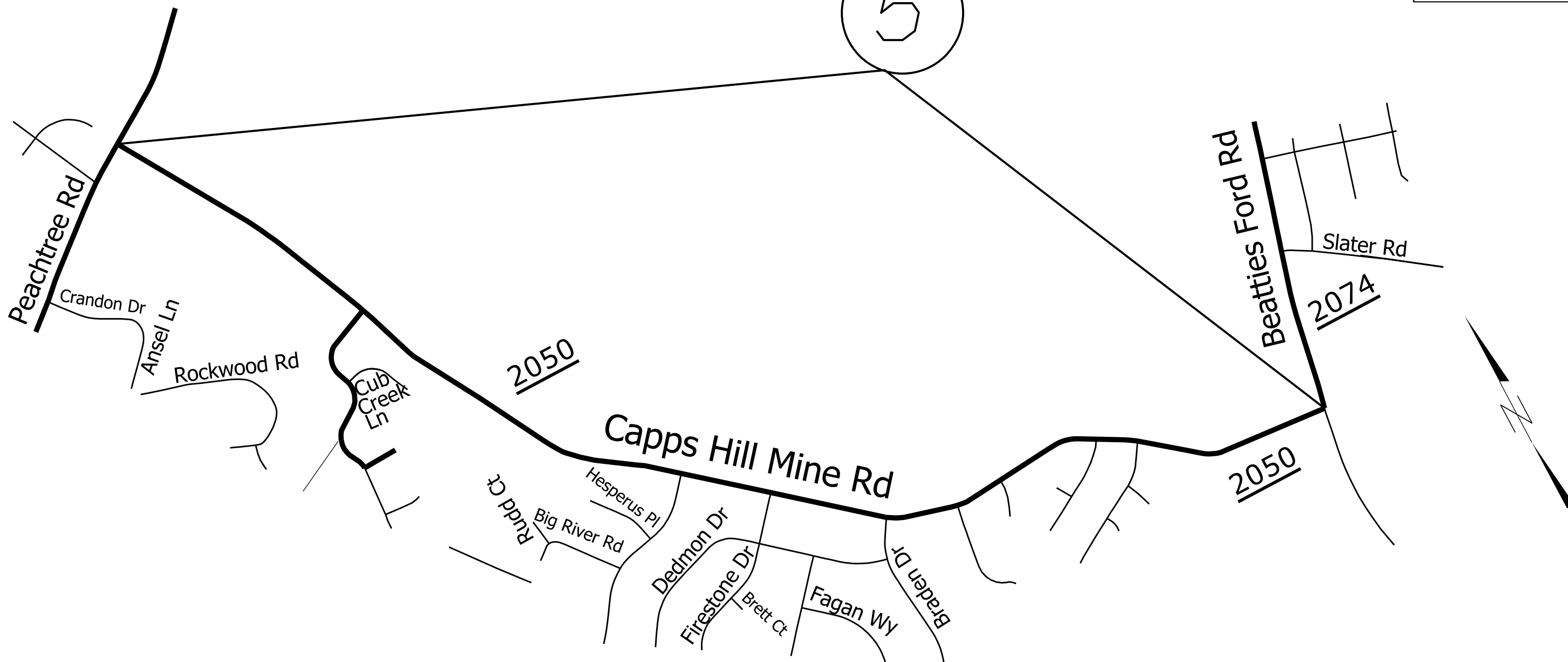
FROM STATESVILLE ROAD TO END OF MAINT.

2017/2018 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	4/17		
DWG. BY	JE		
DESIGN BY	JE		
APPROVED	TB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		3	20
WBS NO. 2017CPT.10.17.20601.3			

5



MAP

DESCRIPTION

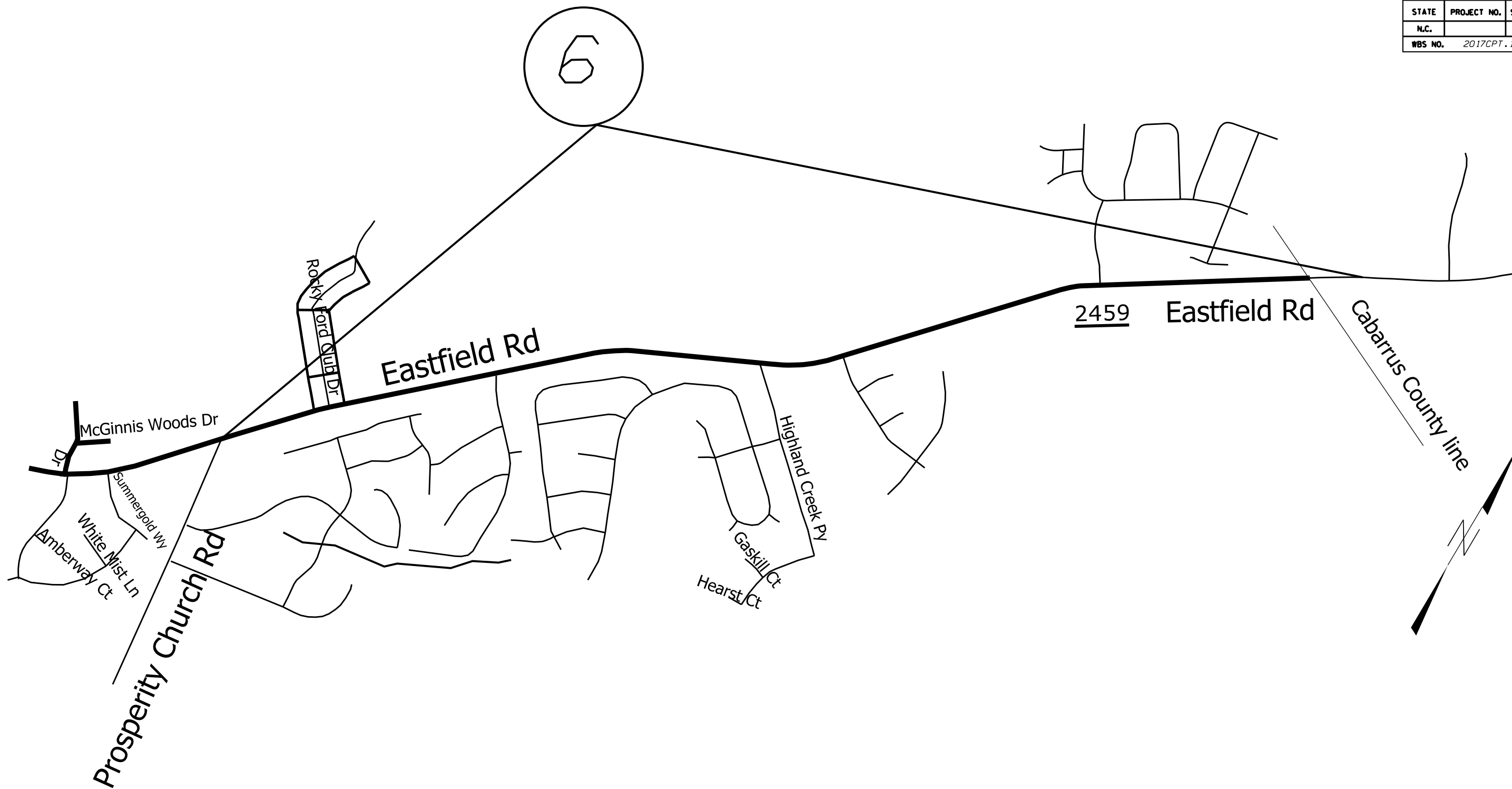
5 SR 2050 (CAPPS HILL MINE RD)

FROM BEATTIES FORD RD TO PEACHTREE RD

2017/2018 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	4/17		
DWG. BY	JE		
DESIGN BY	JE		
APPROVED	TB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		4	20
WBS NO.	2017CPT.10.17.20601.4		



MAP

#6 SR 2459 (EASTFIELD RD.)

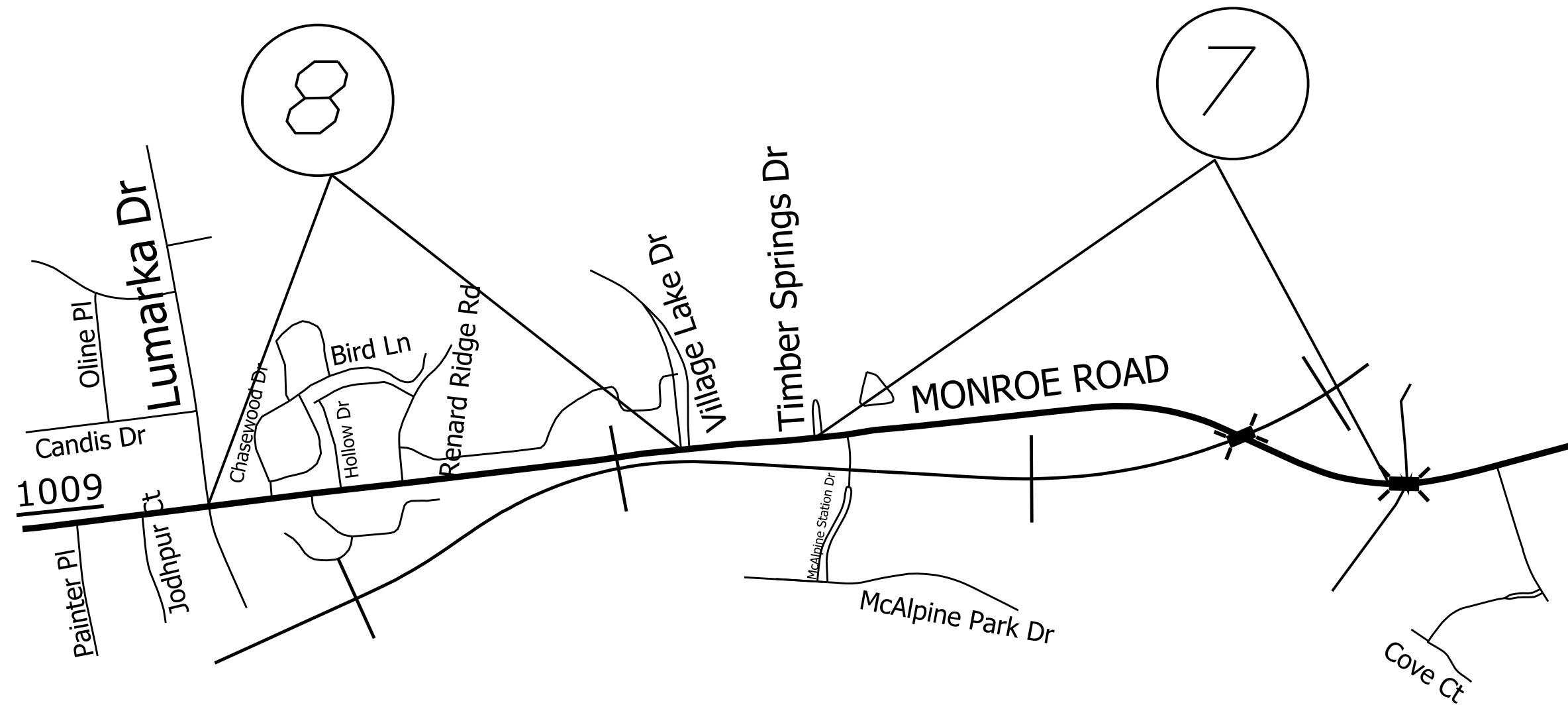
DESCRIPTION

FROM PAVEMENT JOINT JUST INSIDE THE CABARRUS CO. LINE WEST BOUND TO PROSPERITY CHURCH RD.

2017/2018 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	4/17		
DWG. BY	JE		
DESIGN BY	JE		
APPROVED	TB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		5	20
WBS NO.	2017CPT.10.07.20601.5		



MAP

DESCRIPTION

- #7 SR 1009 (MONROE ROAD)
- #8 SR 1009 (MONROE ROAD)

FROM TIMBER SPRINGS DR. TO BRIDGE DECK
OVER McALPINE CREEK

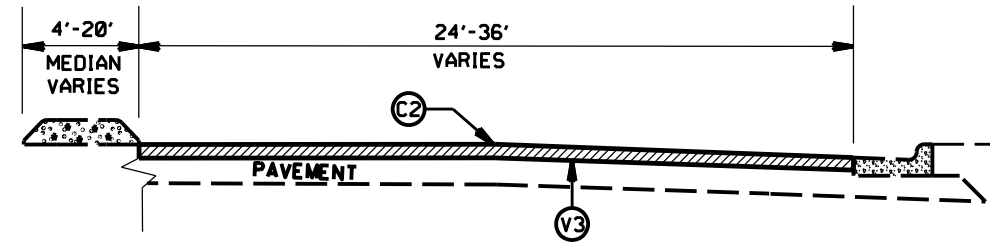
FROM VILLAGE LAKE DR. TO LUMARKA DRIVE

2017/2018 MECKLENBURG COUNTY
RESURFACING

SCALE	-MA-		REVISIONS
DATE	4/17		
DWG. BY	JE		
DESIGN BY	JE		
APPROVED	TB		

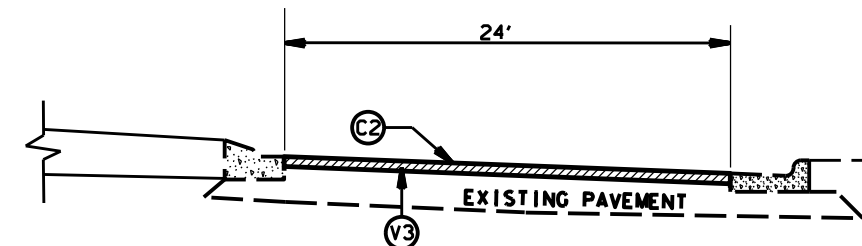
PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 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. Shoulder width to be determined in the field.
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V5	MILLING 4" DEPTH

SB PROVIDENCE RD.



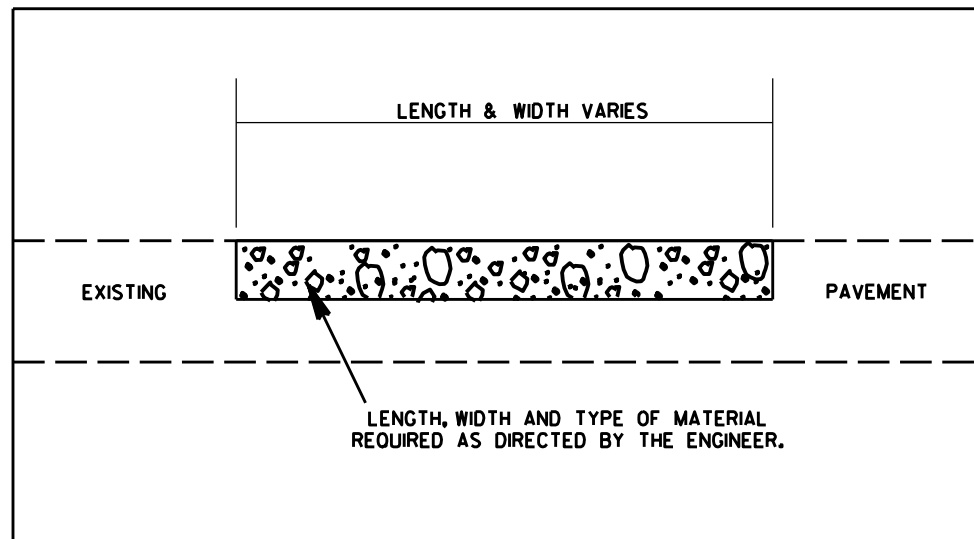
TYPICAL SECTION NO. 1

SB PROVIDENCE RD

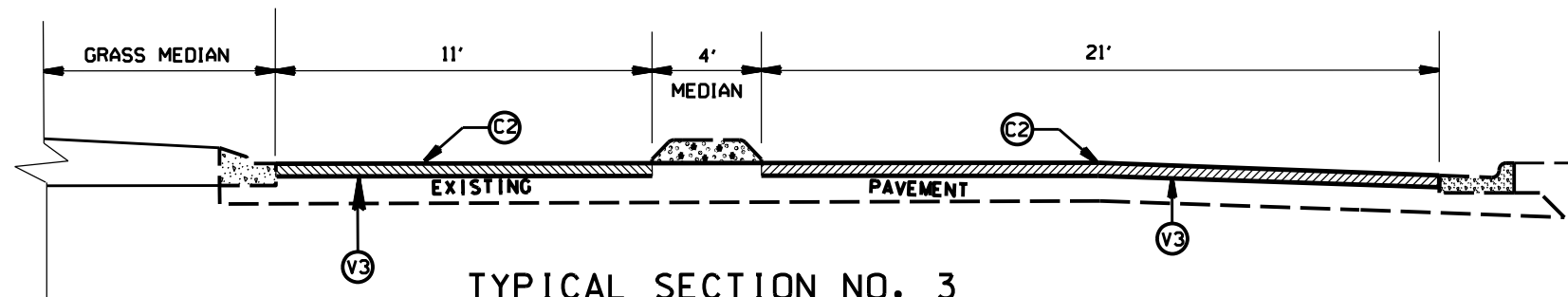


TYPICAL SECTION NO. 2

PATCHING DETAIL



SB PROVIDENCE RD



TYPICAL SECTION NO. 3

2017/2018 MECKLENBURG COUNTY
RESURFACING

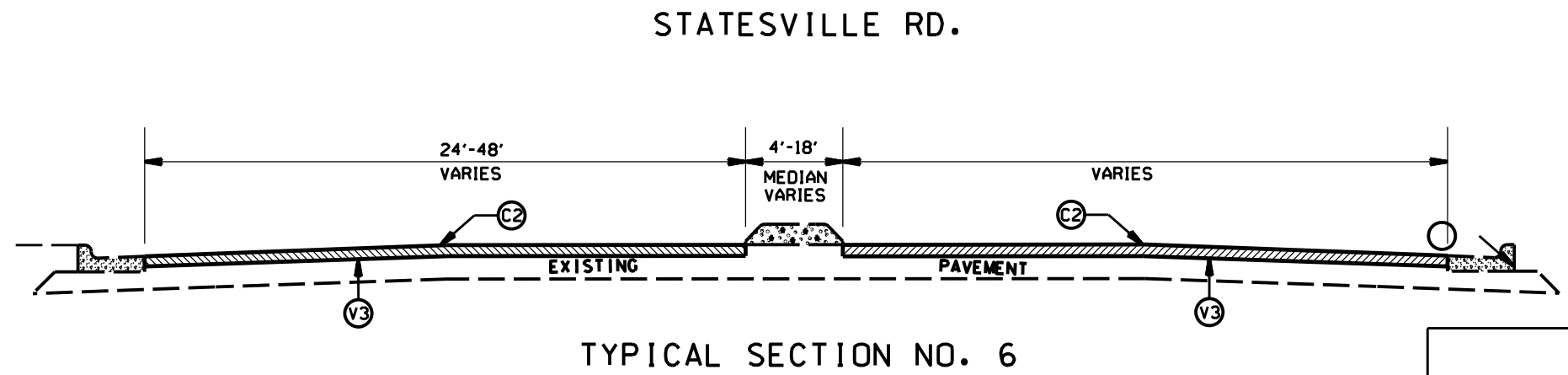
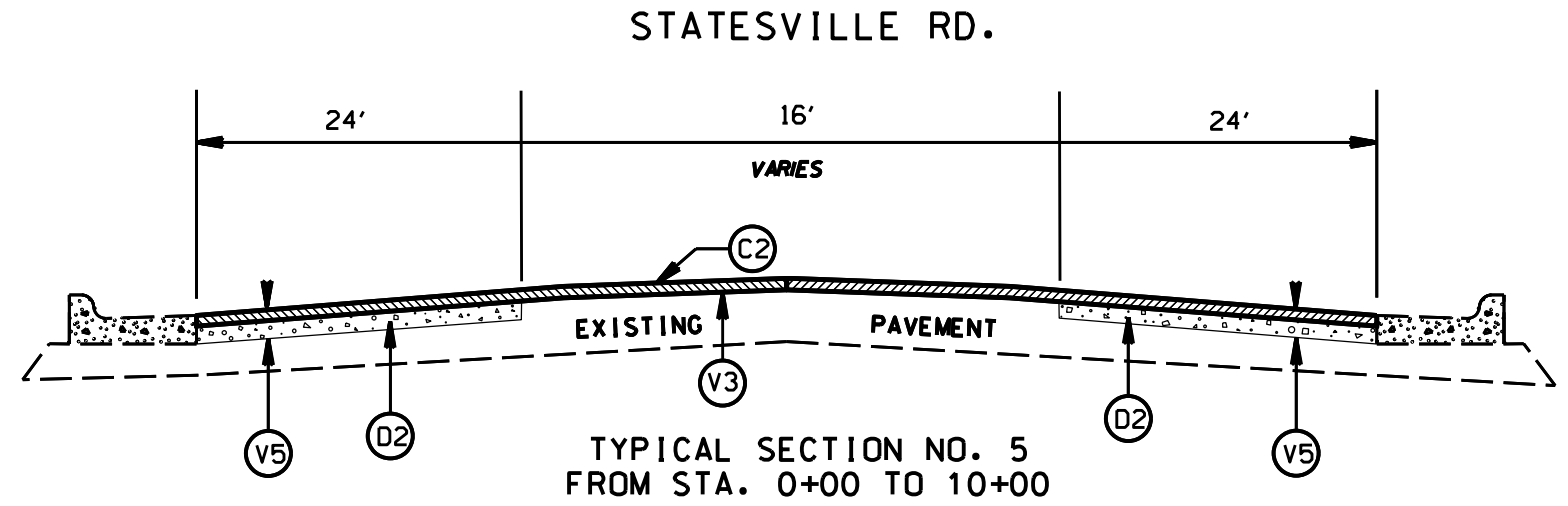
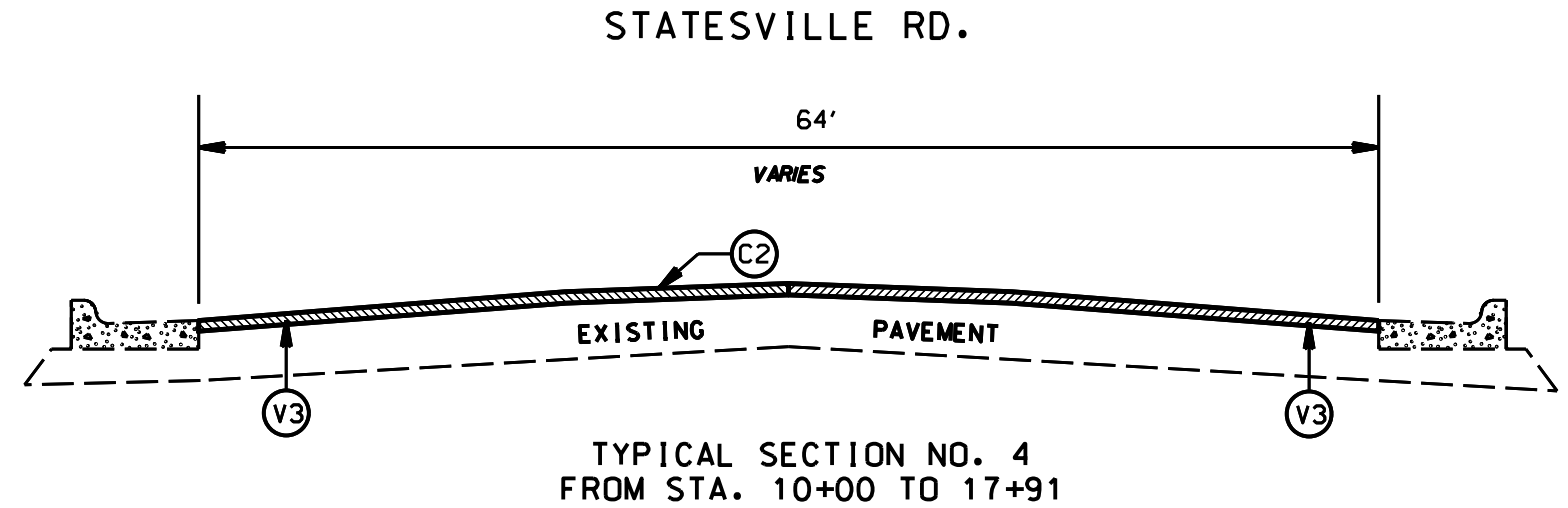
SCALE	-NA-
DATE	4/17
DWG. BY	JE
DESIGN BY	JE
APPROVED	TB




REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		7	20
WBS NO.	2017CPTJ0J7.2060J		

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 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. Shoulder width to be determined in the field.
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V5	MILLING 4" DEPTH

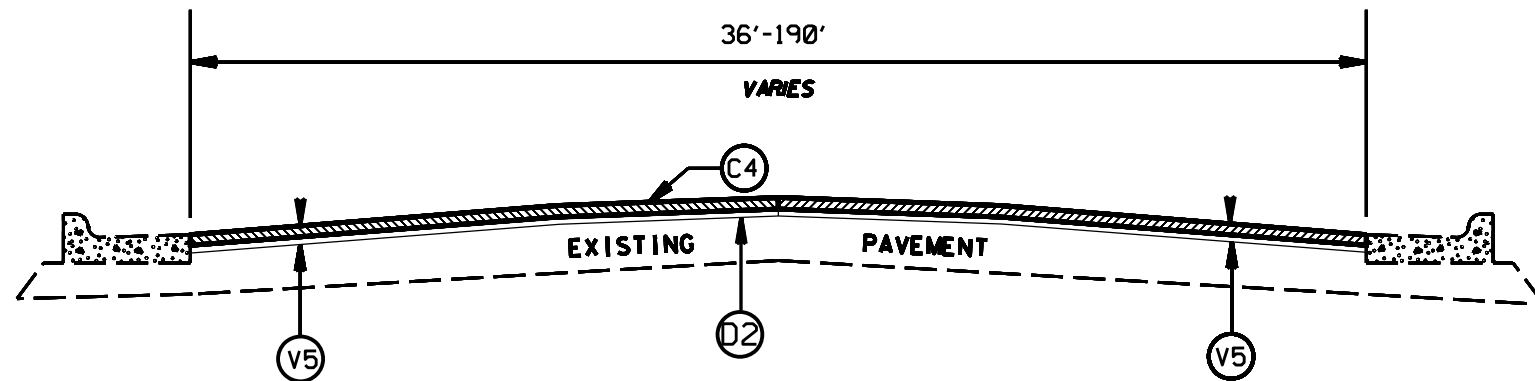


2017/2018 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	4/17		
DWG. BY	JE		
DESIGN BY	JE		
APPROVED	TB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		8	20
WBS NO.	2017CPTJ0J17.2060L2		

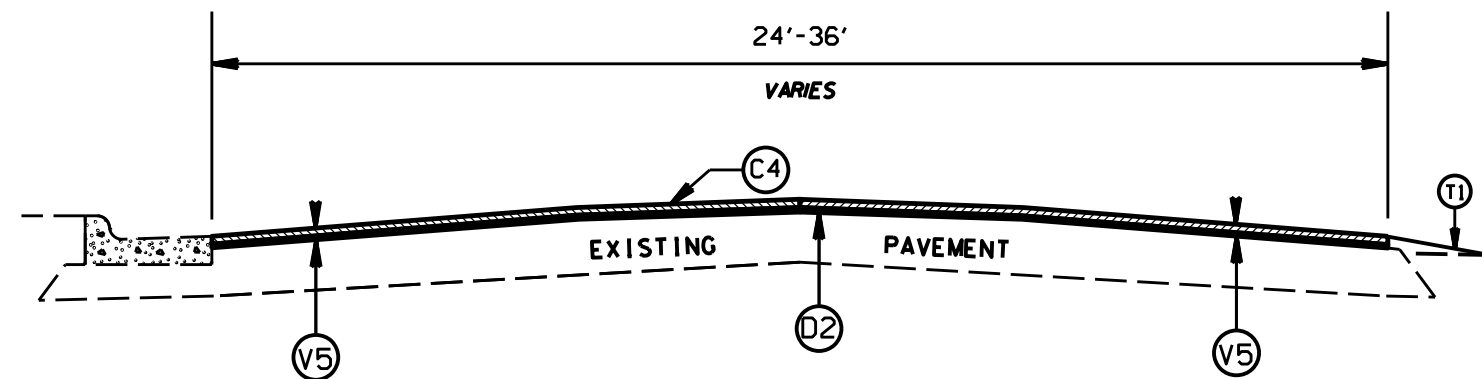
DISTRIBUTION CENTER DR.



TYPICAL SECTION NO. 7

4" MILLING FROM STA. 0+00 TO 11+80

DISTRIBUTION CENTER DR.

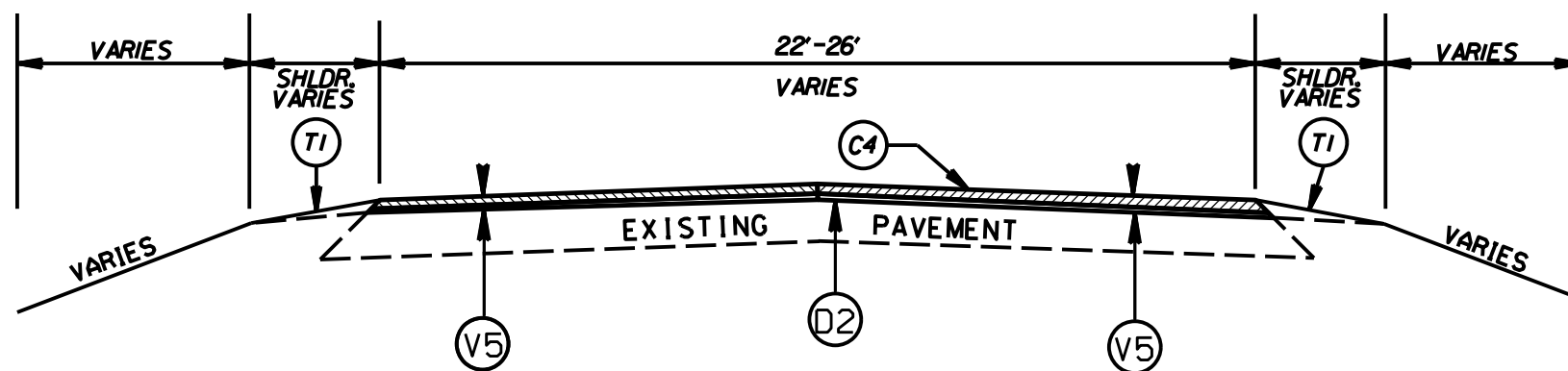


TYPICAL SECTION NO. 8

4" MILLING FROM 0+00 TO 11+80

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 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. Shoulder width to be determined in the field.
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V5	MILLING 4" DEPTH

DISTRIBUTION CENTER DR.



TYPICAL SECTION NO. 9

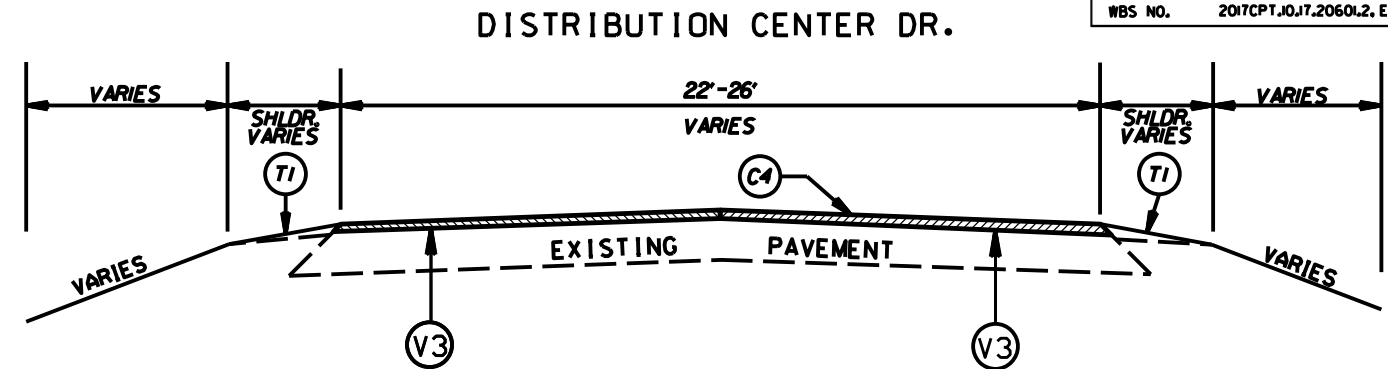
MILL 4" FROM 0+00 TO 11+80

2017/2018 MECKLENBURG COUNTY RESURFACING

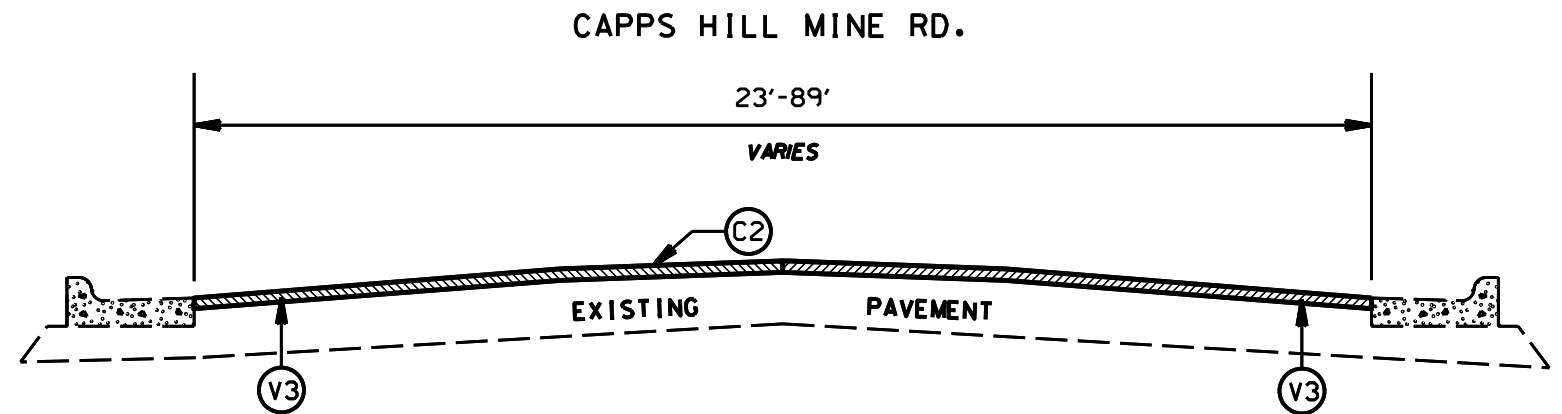
SCALE	-NA-		REVISIONS
DATE	3/17		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		9	20
WBS NO.	2017CPTJ0J7.2060L2, ETC.		

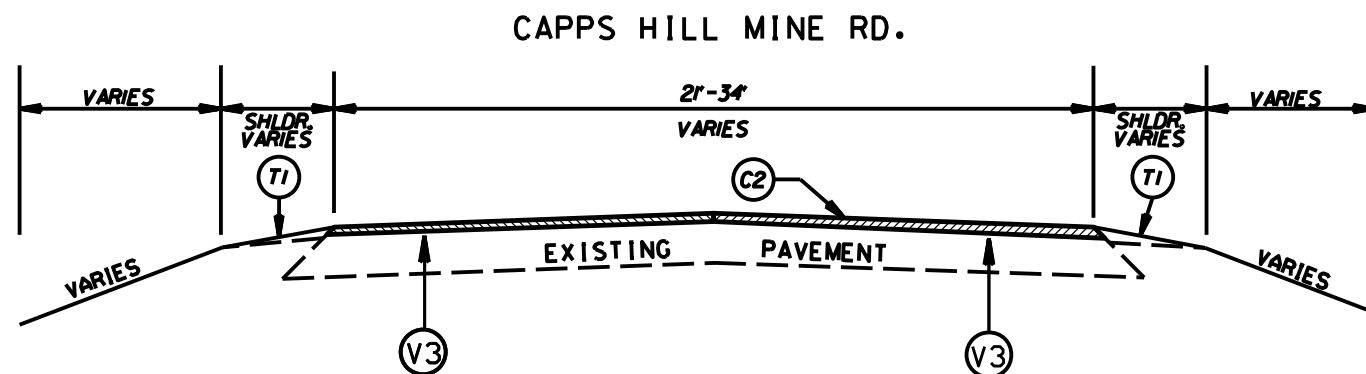
PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 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. Shoulder width to be determined in the field.
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 10
MILL 1.5" FROM 11+80 TO 35+21



TYPICAL SECTION NO. 11
MILL 1.5" FROM 0+00 TO 46+75



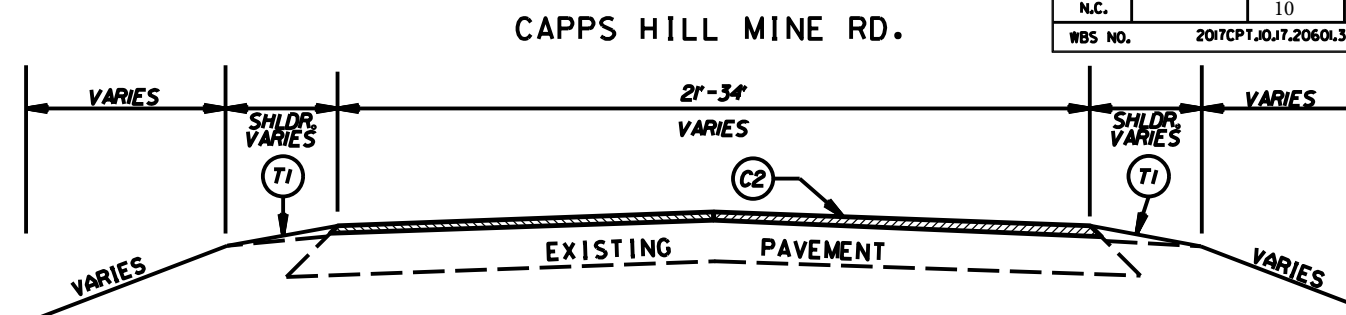
TYPICAL SECTION NO. 12
MILL 1.5" 0+00 TO 46+75

2017/2018 MECKLENBURG COUNTY
RESURFACING

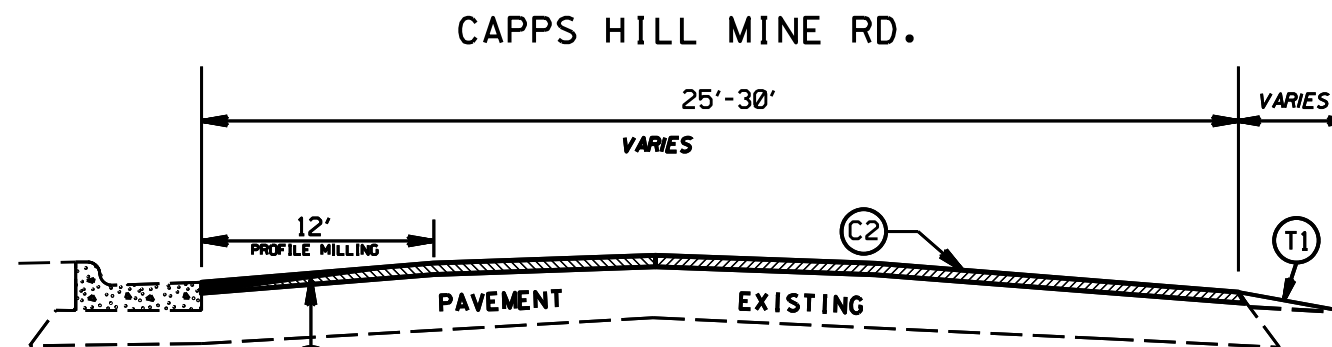
SCALE	-NA-		REVISIONS
DATE	4/17		
DWG. BY	JE		
DESIGN BY	JE		
APPROVED	TB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		10	20
WBS NO.	2017CPT.JOJ7.20604.3, ETC.		

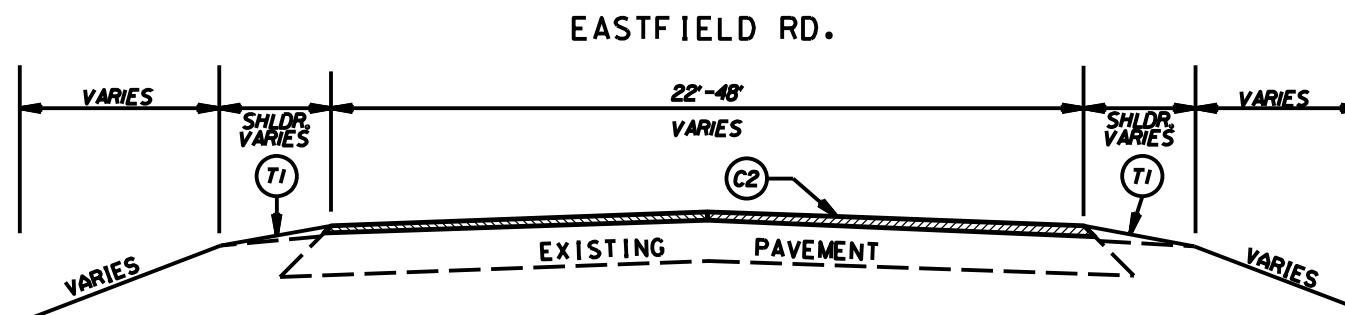
PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 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. Shoulder width to be determined in the field.
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 13
OVERLAY 1.5" 46+75 TO 82+75



TYPICAL SECTION NO. 14
OVERLAY 1.5" 46+75 TO 82+75



TYPICAL SECTION NO. 15

2017/2018 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	4/17
DWG. BY	JE
DESIGN BY	JE
APPROVED	TB

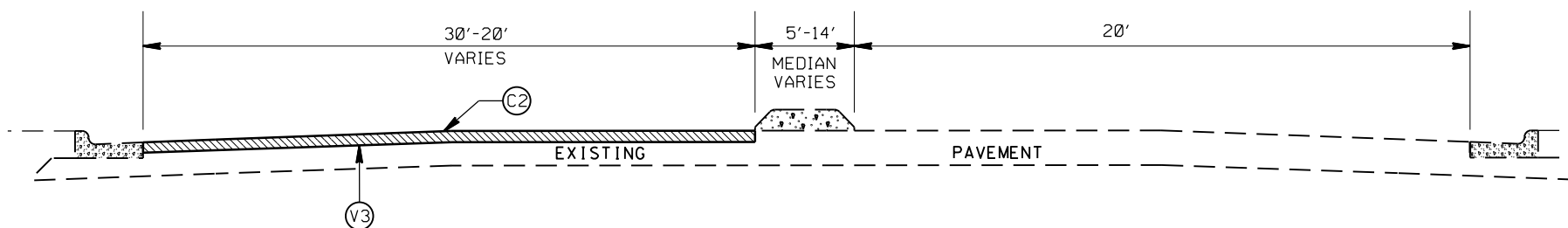


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		11	20
WBS NO.		2017CPT.J0.I7.2060I.4	

EASTFIELD RD

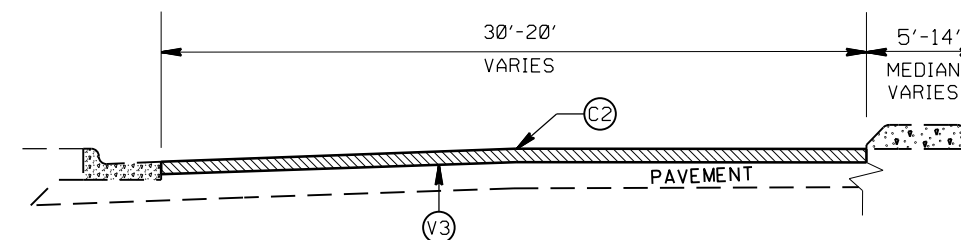
PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 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. Shoulder width to be determined in the field.
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 16

MILL 1.5" 84+30 TO 86+30 (LEFT LANE ONLY)

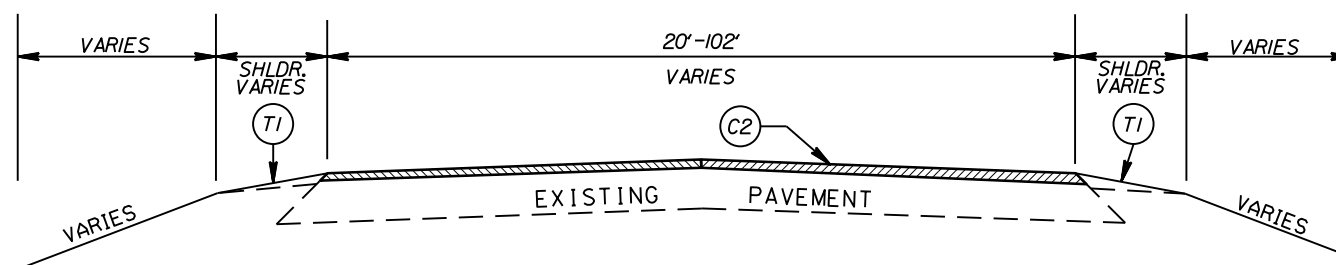
EASTFIELD RD.



TYPICAL SECTION NO. 17

MILL 1.5" 86+30 TO 91+00 (LEFT LANE ONLY)

EASTFIELD RD.



TYPICAL SECTION NO. 18

2017/2018 MECKLENBURG COUNTY RESURFACING

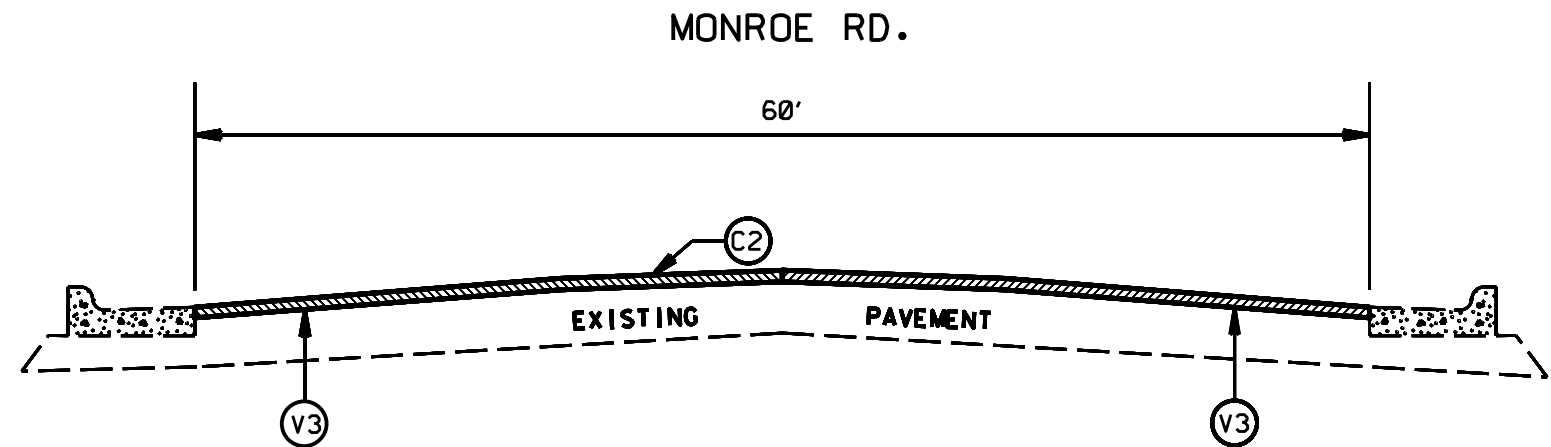
SCALE	-NA-
DATE	4/17
DWG. BY	JE
DESIGN BY	JE
APPROVED	TB



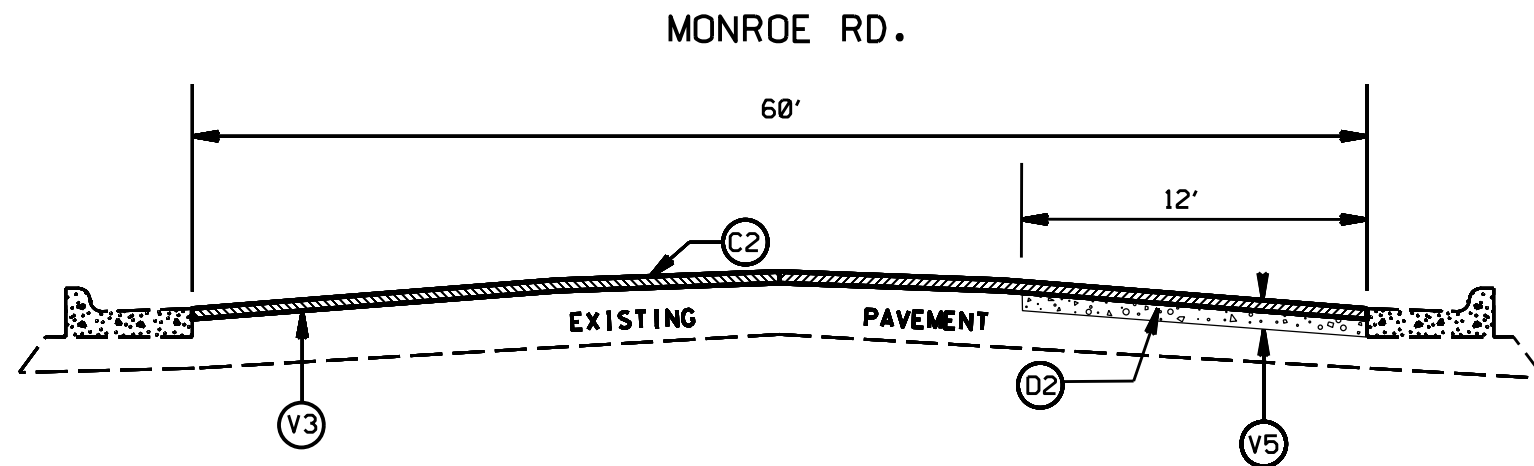
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		12	20
WBS NO.		2017CPT.J0.J7.2060L5	

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 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. Shoulder width to be determined in the field.
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 19
1.5" MILLING FROM STA. 0+00 TO 28+75



TYPICAL SECTION NO. 20
1.5" MILLING FROM STA. 0+00 TO 24+15
4" MILLING OUTSIDE LANE TOWARD TOWN (ONLY)
FROM 1+00 TO 16+00

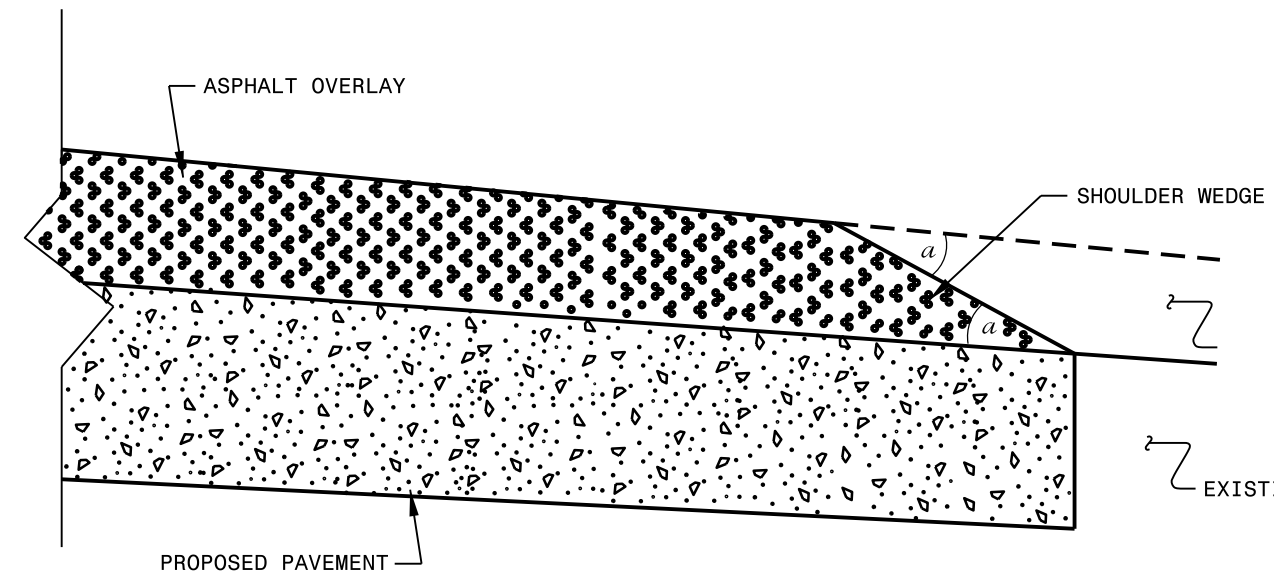
2017/2018 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	4/17
DWG. BY	JE
DESIGN BY	JE
APPROVED	TB

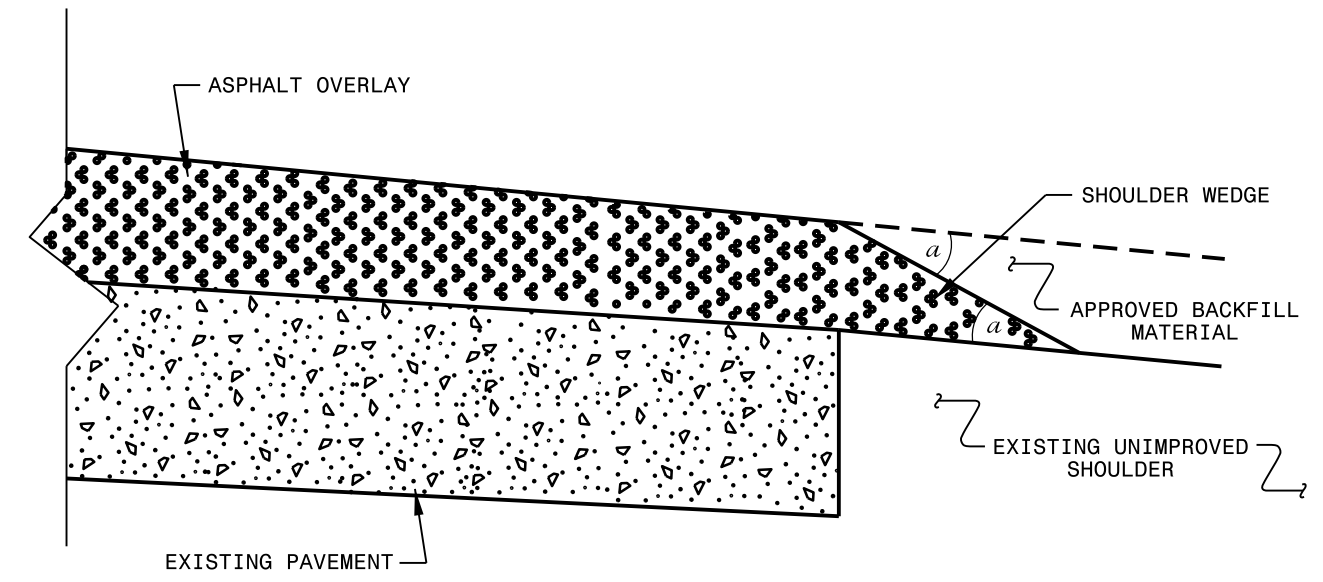


REVISIONS	

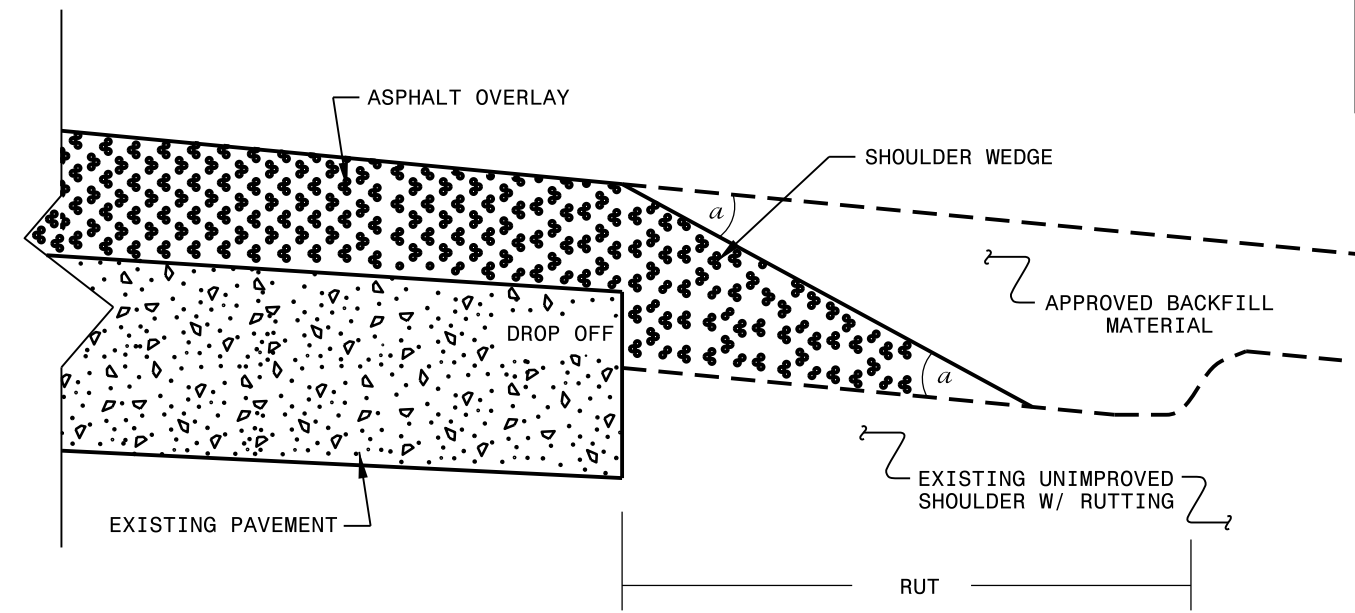
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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°

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.: susr/details/stand/shoulderwedgedetail.dgn			

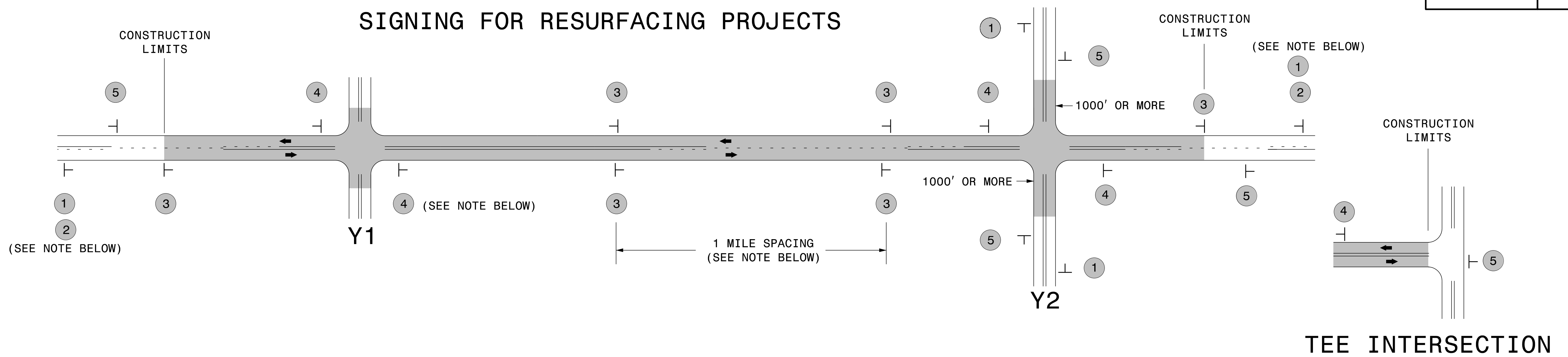
SYSTEMS DESIGN
 USER NAME

PROJECT NO.	SHEET NO.	TOTAL NO.
2017CPT.10.17.10601.1, ETC.	14	20

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	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	4" MILLING SY	2.0" MILLING SY	0.0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	INTERMEDIATE COURSE, I19.0B TONS	INTERMEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	WHEELCHAIR RAMP EA	6" DRIVEWAYS SY	RETROFIT EXISTING WHEELCHAIR RAMP 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								
2017CPT.10.17.10601.1	Mecklenburg	1	NC 16 PROVIDENCE RD (SB)	FROM OLD PROVIDENCE RD TO NC 51 (MP 19.93 TO 22.47)	1,2,3	2	MD	NO	NO	2.462	28.6				41,309						3,834			230	220			17	6	5	0.16	50	10	8	15	1									
TOTAL FOR MAP NO. 1										2.462					41,309						3,834			230	220			17	6	5	0.16	50	10	8	15	1									
TOTAL FOR PROJ NO. 2017CPT.10.17.10601.1										2.462					41,309					3,834			230	220			17	6	5	0.16	50	10	8	15	1										
2017CPT.10.17.20601.1	Mecklenburg	2	SR 2691 STATESVILLE RD (NB)	FROM I-85 BRIDGE TO STARITA RD (MP 2.41 TO 2.76)	4,5,6	2	MD	NO	NO	0.339	66.81				2,253	4,776					749	1,149		105	165			8	3	7	0.17	10	5	2	10	1									
TOTAL FOR MAP NO. 2										0.339					2,253	4,776				749	1,149		105	165			8	3	7	0.17	10	5	2	10	1										
2017CPT.10.17.20601.1	Mecklenburg	3	SR 2691 STATESVILLE RD (SB)	FROM BOXMEER DR. SOUTH TO I-85 BRIDGE (MP 2.47 TO 2.60)	5,6	2	2WD	NO	NO	0.128	24					1,802					283	167		24	55	1		7			0.17	10	3	1	4	1									
TOTAL FOR MAP NO. 3										0.128					1,802					283	167		24	55	1		7			0.17	10	3	1	4	1										
TOTAL FOR PROJ NO. 2017CPT.10.17.20601.1										0.467					2,253	6,578				1,032	1,316		129	220	1		15	3	7	0.34	20	8	3	14	2										
2017CPT.10.17.20601.2	Mecklenburg	4	SR 2313 DISTRIBUTION CENTER DR	FROM STATESVILLE RD TO END OF MAINTENANCE (MP 0.00 TO 0.697)	7,8,9,10	2	2WU	NO	NO	0.667	31.01	182		2.48	6,243	5,888				923					111									100	13	7	20	1							
TOTAL FOR MAP NO. 4										0.667		182		2.48	6,243	5,888			923				111													100	13	7	20	1					
TOTAL FOR PROJ NO. 2017CPT.10.17.20601.2										0.667		182		2.48	6,243	5,888			923				111														2			100	13	7	20	1	
2017CPT.10.17.20601.3	Mecklenburg	5	SR 2050 CAPPS HILL MINE RD	FROM BEATTIES FORD RD TO PEACHTREE RD (MP 0.00 TO 1.57)	11,12,13,14	2	2WU	NO	NO	1.567	28.39	320	60	4.36			17,317				2,412	330		166	825	1	190	3	8	5			235	31	16	47	1								
TOTAL FOR MAP NO. 5										1.567		320	60	4.36			17,317			2,412	330		166	825	1	190	3	8	5			235	31	16	47	1									
TOTAL FOR PROJ NO. 2017CPT.10.17.20601.3										1.567		320	60	4.36			17,317			2,412	330		166	825	1	190	3	8	5			235	31	16	47	1									
2017CPT.10.17.20601.4	Mecklenburg	6	SR 2459 EASTFIELD RD	FROM CABARRUS CO. TO PROSPERTY CHURCH RD (MP 0.00 TO 1.68)	15,16,17,18	2	2WU	NO	NO	1.723	29.48	224	80	3.19	1,284			2,602	140		2,767	880		219	880		20	2		3	0.17	258	34	17	52	1									
TOTAL FOR MAP NO. 6										1.723		224	80	3.19	1,284			2,602	140		2,767	880		219	880		20	2		3	0.17	258	34	17	52	1									
TOTAL FOR PROJ NO. 2017CPT.10.17.20601.4										1.723		224	80	3.19	1,284			2,602	140		2,767	880		219	880		20	2		3	0.17	258	34	17	52	1									
2017CPT.10.17.20601.5	Mecklenburg	7	SR 1009 MONROE RD	FROM TIMBER SPRING TO MCALPINE CRK BRIDGE (MP 2.08 TO 2.62)	19	2	MD	NO	NO	0.545	60				19,184							1,776		107	495			4	12	1	0.17	40	8	5	10	1									
TOTAL FOR MAP NO. 7										0.545					19,184					1,776		107	495			4	12	1	0.17	40	8	5	10	1											
2017CPT.10.17.20601.5	Mecklenburg	8	SR 1009 MONROE RD	FROM VILLAGE LAKE DR TO LUMARKA DR (MP 2.76 TO 3.20)	20	2	MD	NO	NO	0.457	60				13,149	1,834					287	1,489		103	220	5		6	10	4	0.17	30	5	3	10	1									
TOTAL FOR MAP NO. 8										0.457					13,149	1,834				287	1,489		103	220	5		6	10	4	0.17	30	5	3	10	1										
TOTAL FOR PROJ NO. 2017CPT.10.17.20601.5										1.002					32,333	1,834				287	3,265		210	715	5		10	22	5	0.33	70	13	8	20	2										
GRAND TOTAL										7.888		726	140	10.03	83,422	14,300	17,317	2,602	140	923	1,319	13,594	1,210	1,125	1,065	2,860	7	210	47	41	25	1.00	733	109	59	168	8								

SIGNING FOR RESURFACING PROJECTS

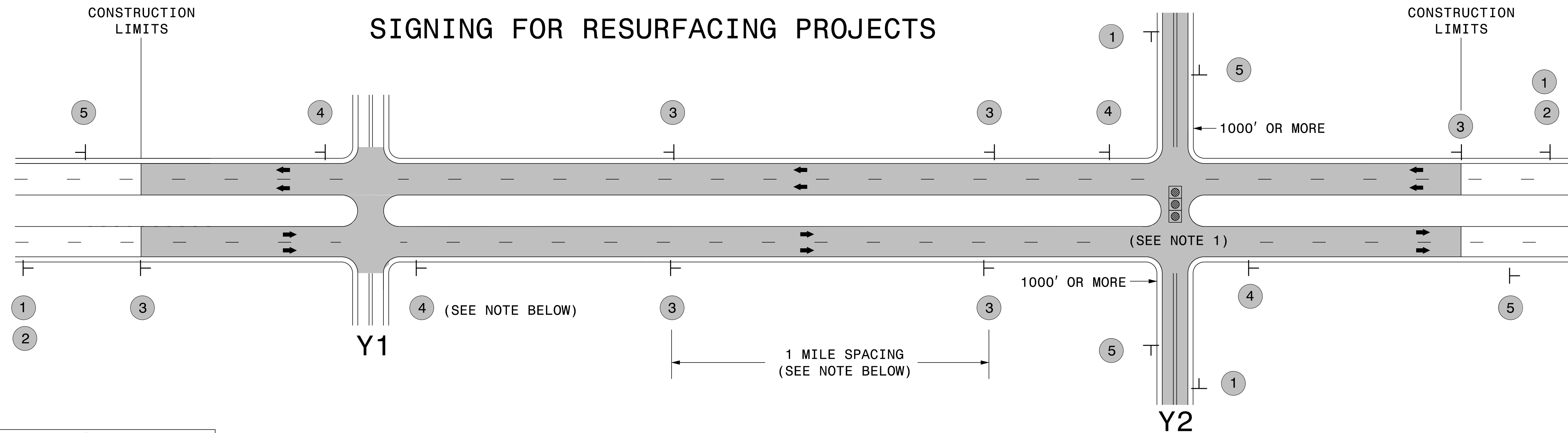


MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>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, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3	 SP 13107 48" X 48"	<ul style="list-style-type: none"> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	4	 SP 13106 48" X 48"	<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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE. 	
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.		

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

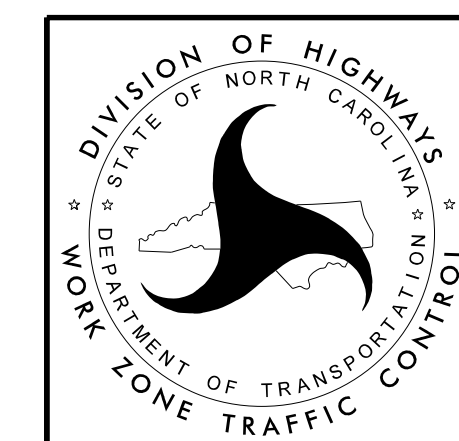


LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

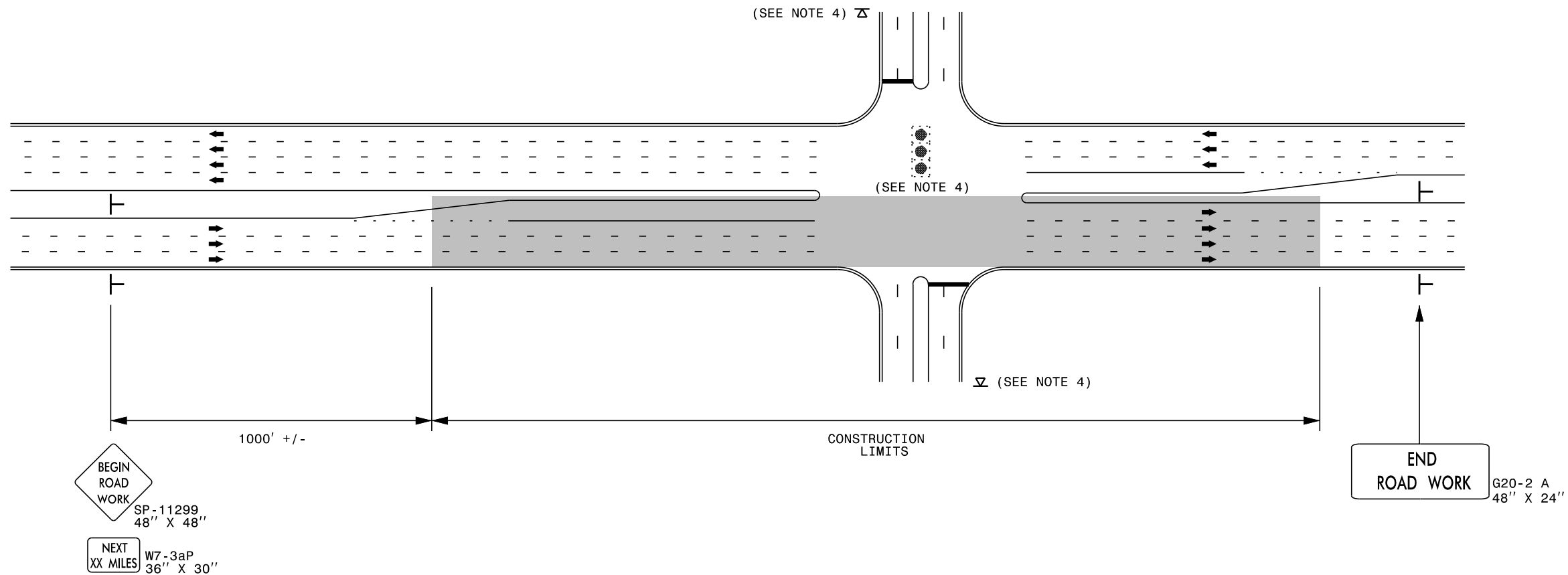
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 <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>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, 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>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.
	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.		



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

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) USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AND 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

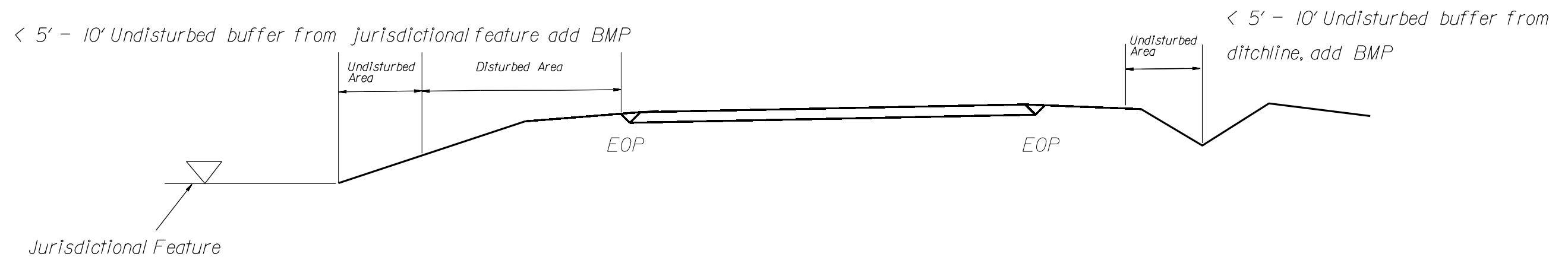
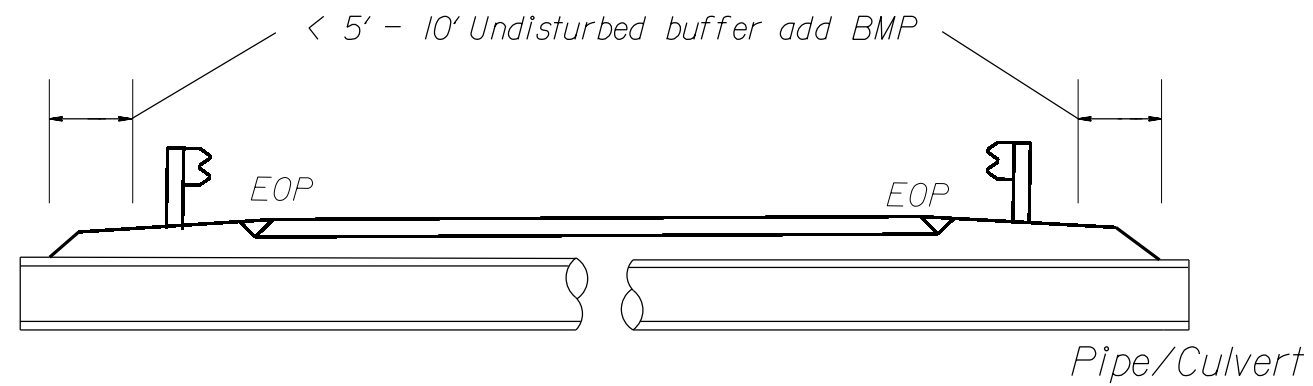


**RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES**

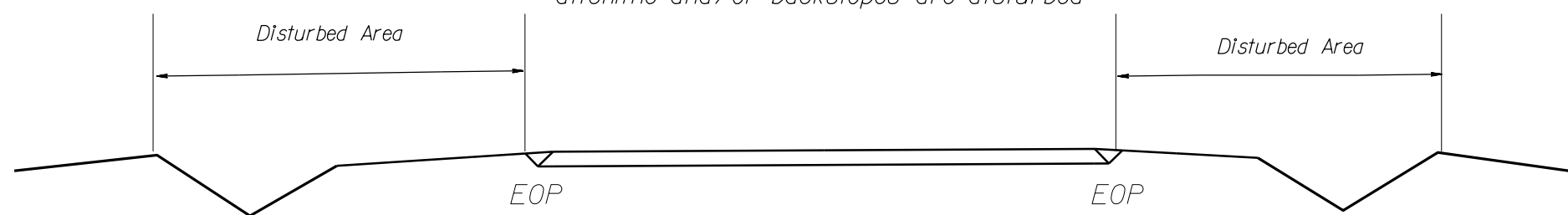
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

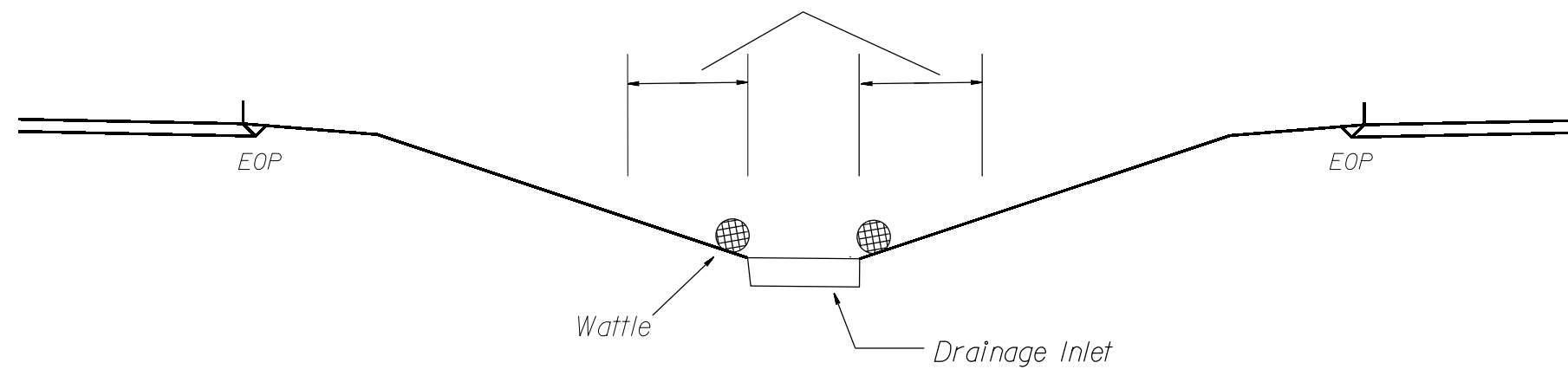
EROSION CONTROL DETAIL



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

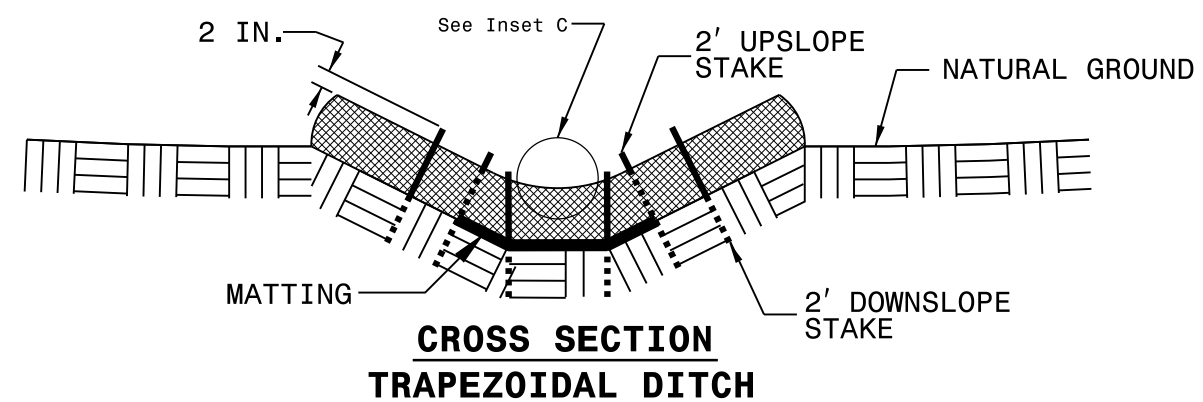
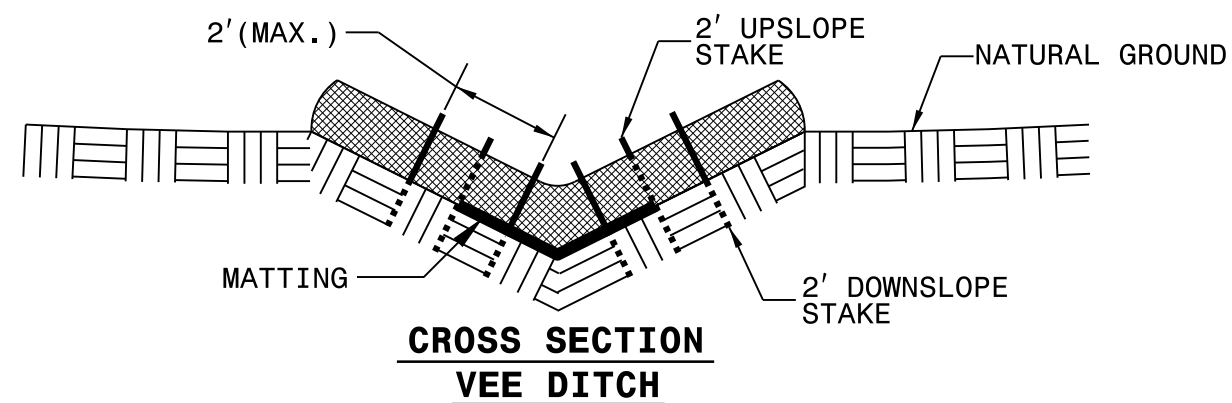
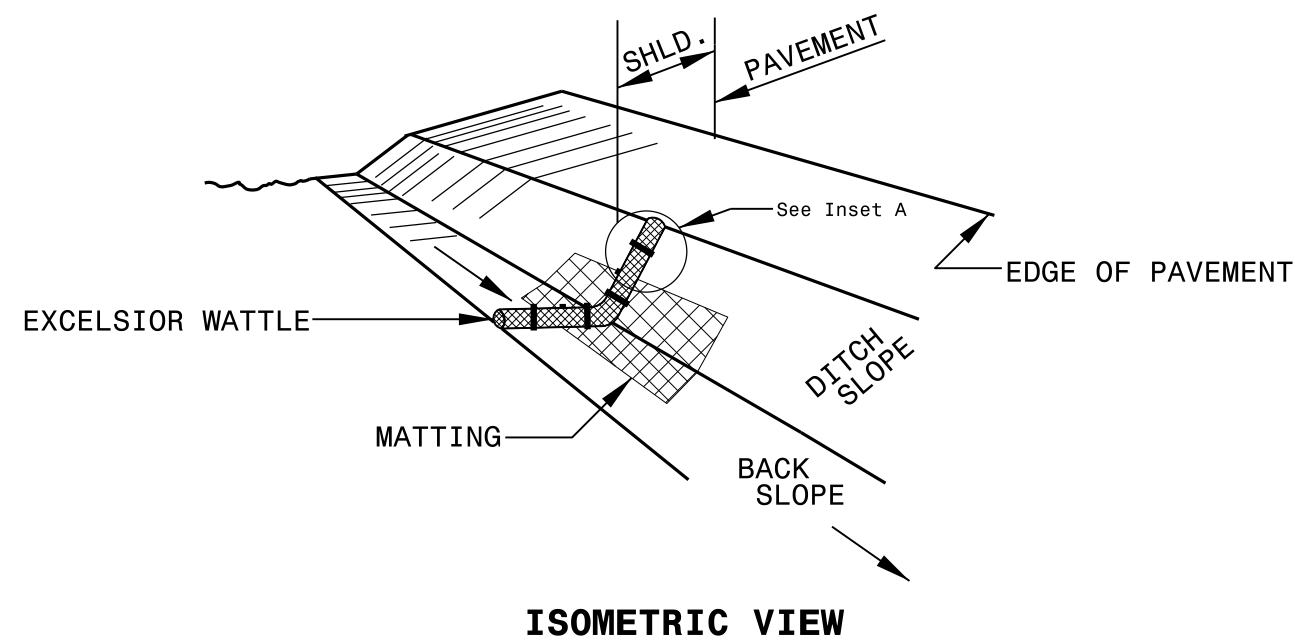


< 5' - 10' Undisturbed buffer from inlet, add wattle



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.

