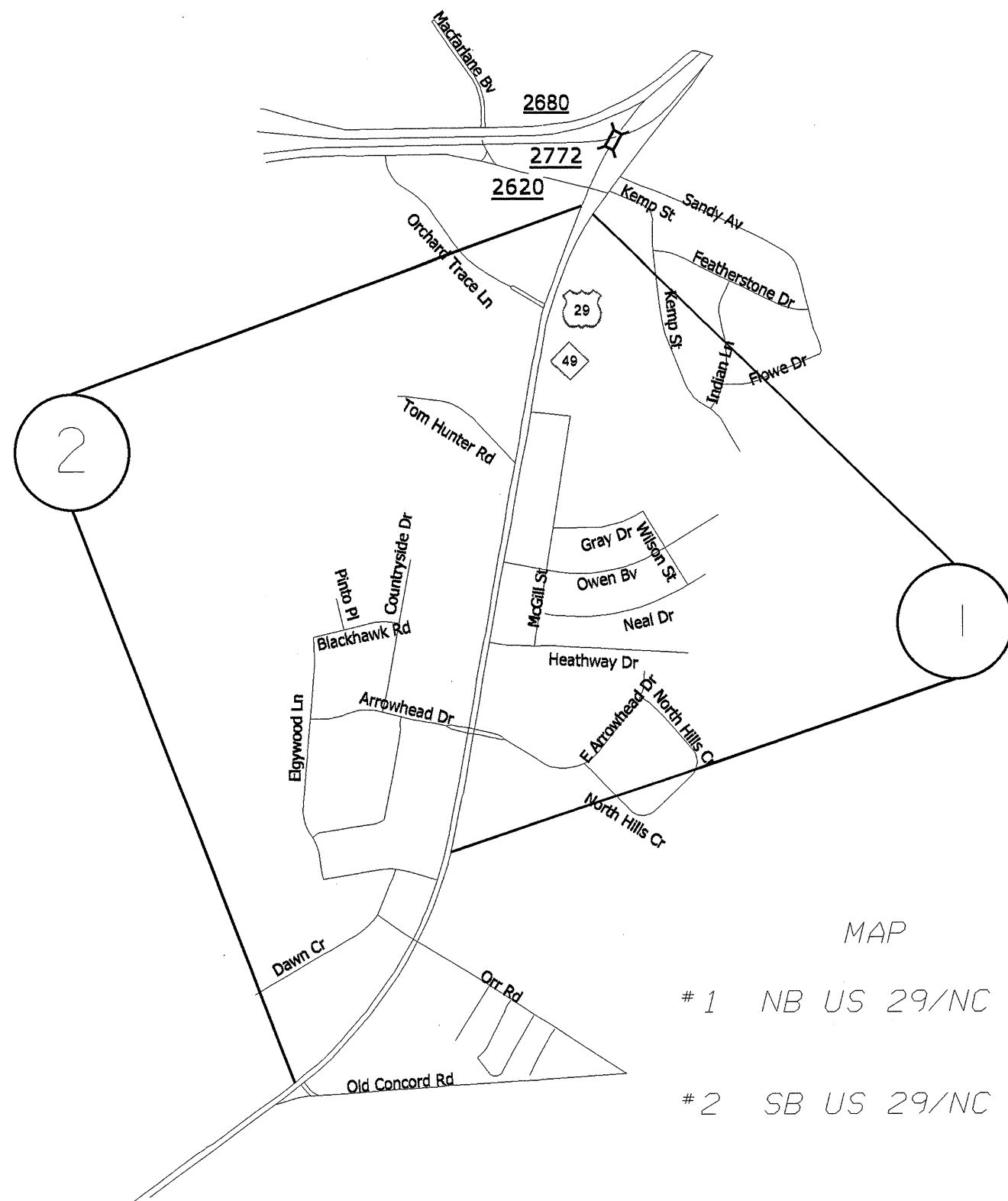


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		I	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

DESCRIPTION

- # 1 NB US 29/NC 49 (N Tryon St)
- # 2 SB US 29/NC 49 (N Tryon St)

FROM Pvmt Jt at Pull-A-Part to Pvmt Jt West of SR 2620

FROM Old Concord Rd to Pvmt Jt West of SR 2620

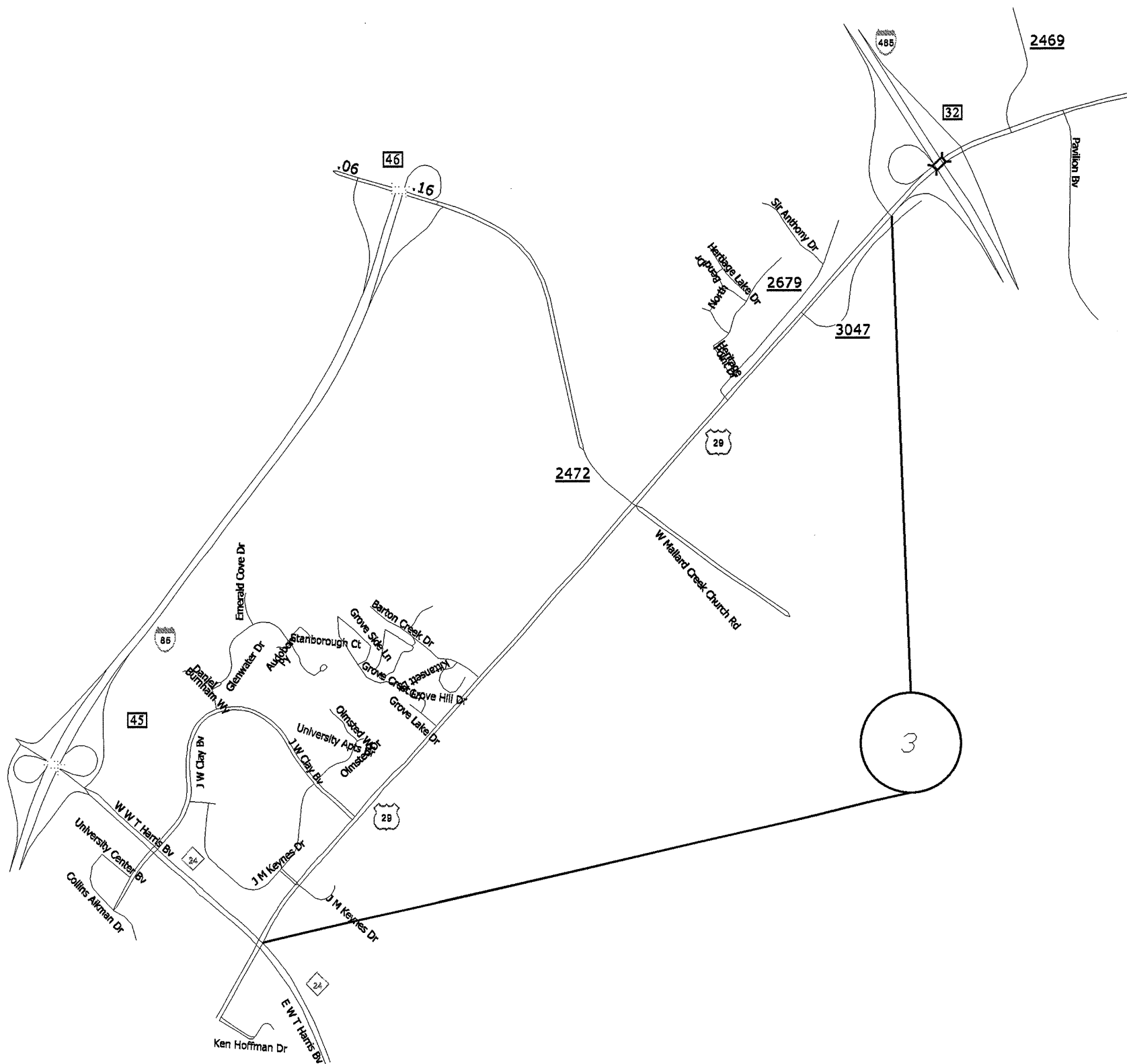
2012 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		2	
F.A. PROJECT NO. IOCR.10601.44...ETC.			



MAP  
#3 US 29 (N Tryon St)

DESCRIPTION  
FROM Inner Ramp I-485 to NC 24 (W.T. Harris Blvd)

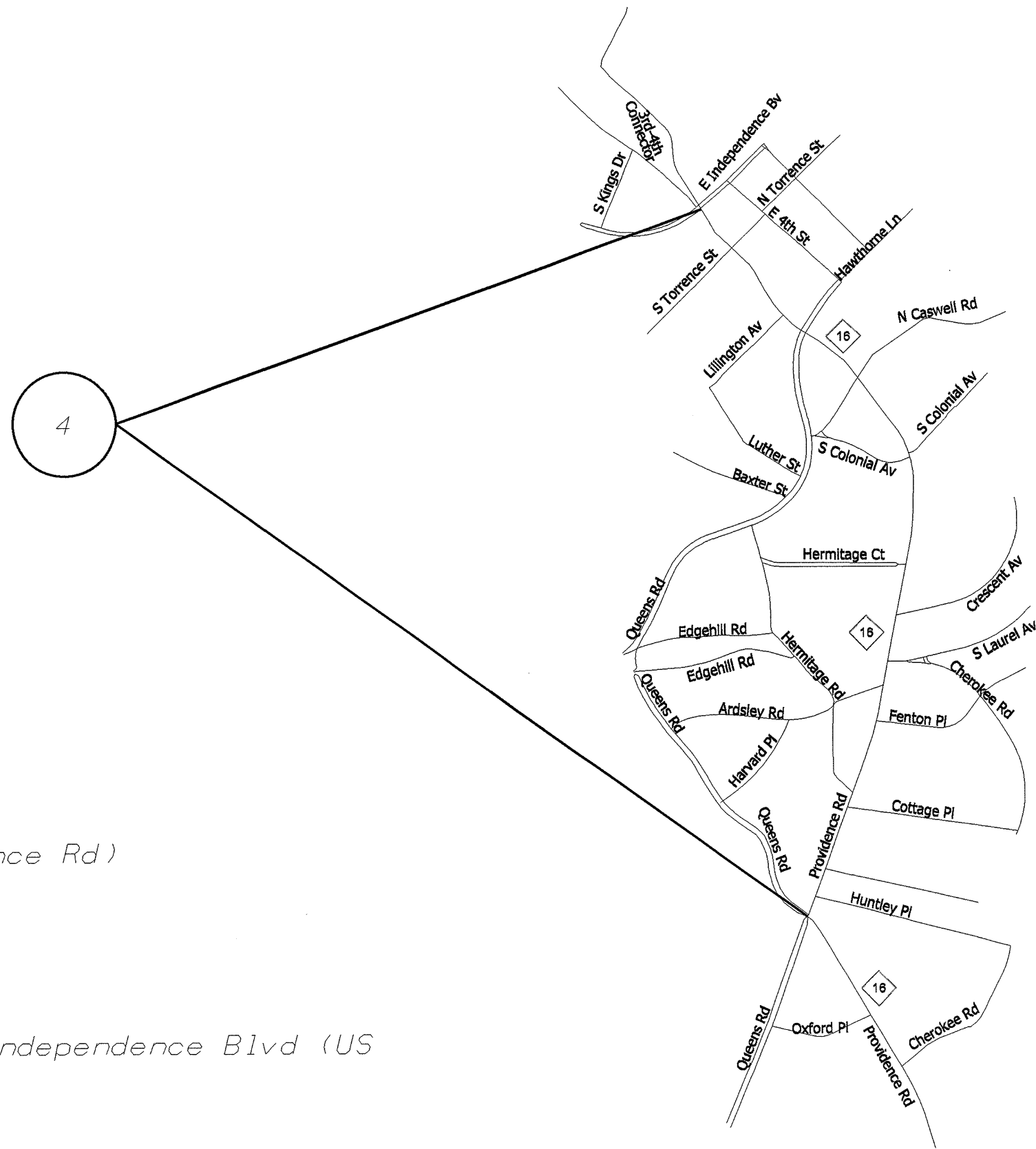
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		3	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

# 4 NC 16 (Providence Rd)

DESCRIPTION

FROM Queens Rd to Independence Blvd (US 74)

2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		4	
F.A. PROJECT NO. IOCR,IO6OI,44...ETC.			



MAP

#5 NC 27 (McDowell St)


#6 NC 27 (W Morehead St)

DESCRIPTION

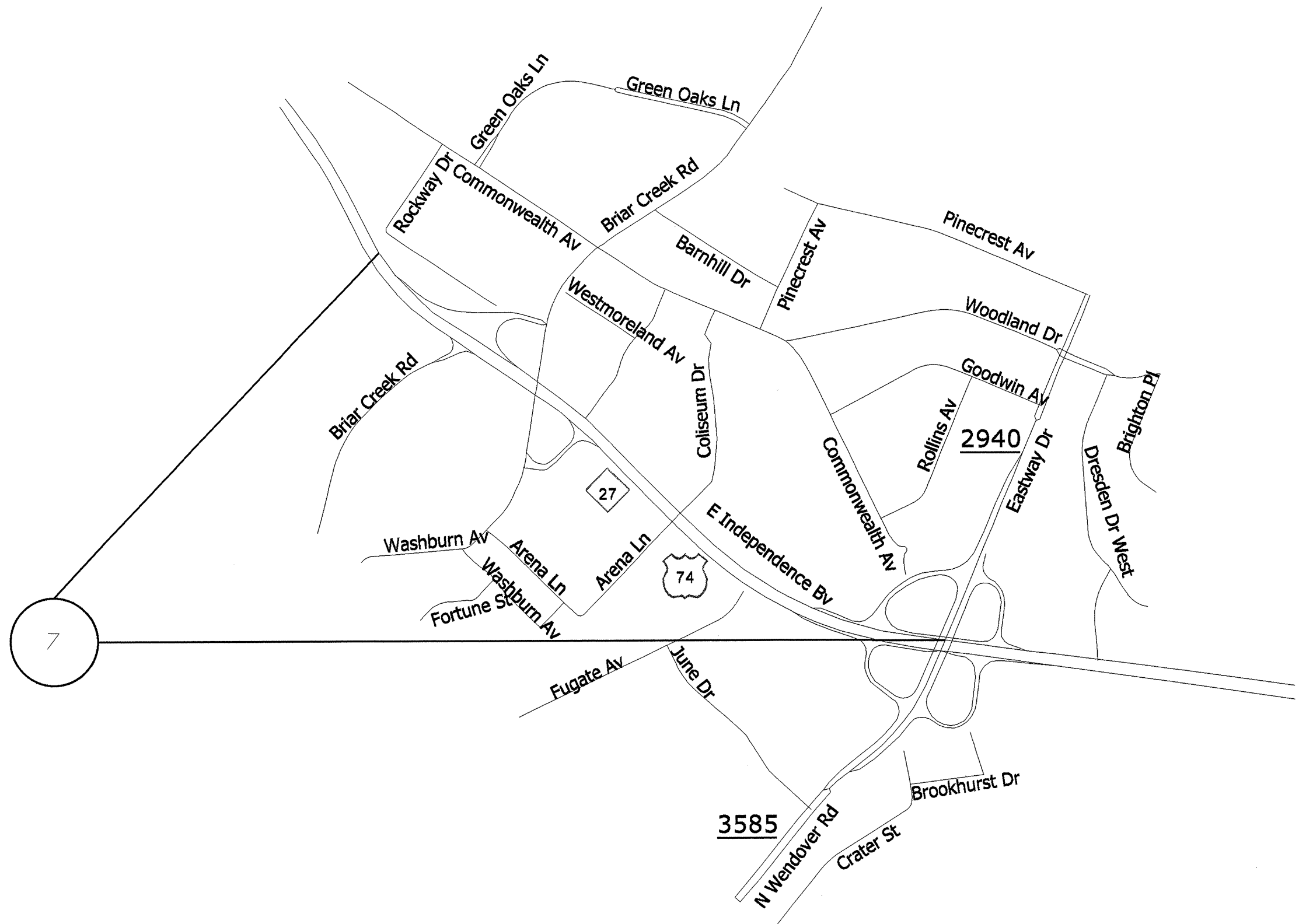
FROM 7th St to W Morehead St

FROM McDowell St to I-77

2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-		REVISIONS
DATE	05/11		
DWG. BY	RAO		
DESIGN BY	JSL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		5	
F.A. PROJECT NO. IOCR.10601.44...ETC.			




MAP

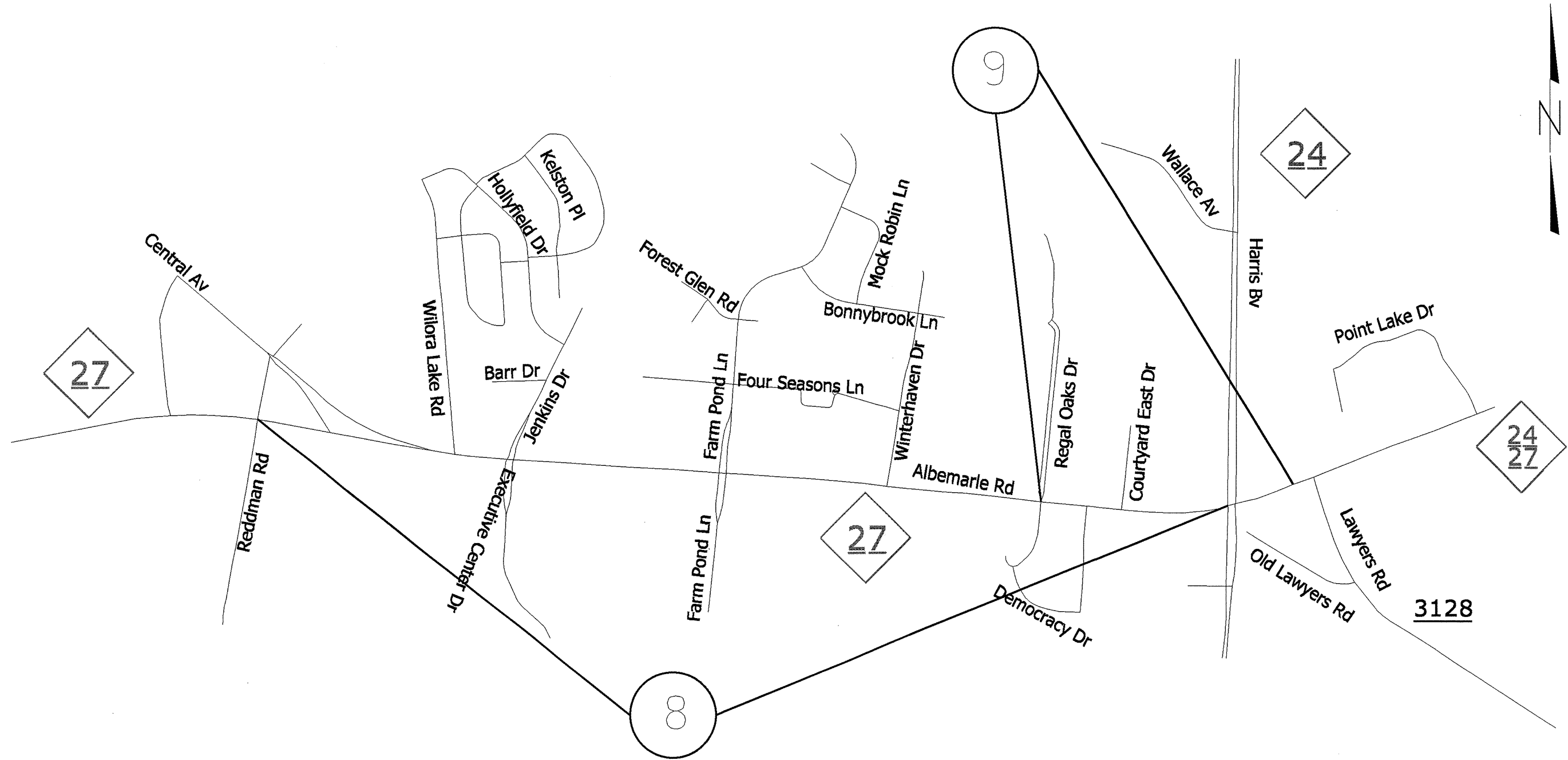
DESCRIPTION

#7 US 74/NC 27 (Independence Blvd)

FROM Eastway Dr (SR 2940) to Briar Creek Rd

2012 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	
DATE	05/11	
DWG. BY	RAO	
DESIGN BY	JSL	
APPROVED		
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		6	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

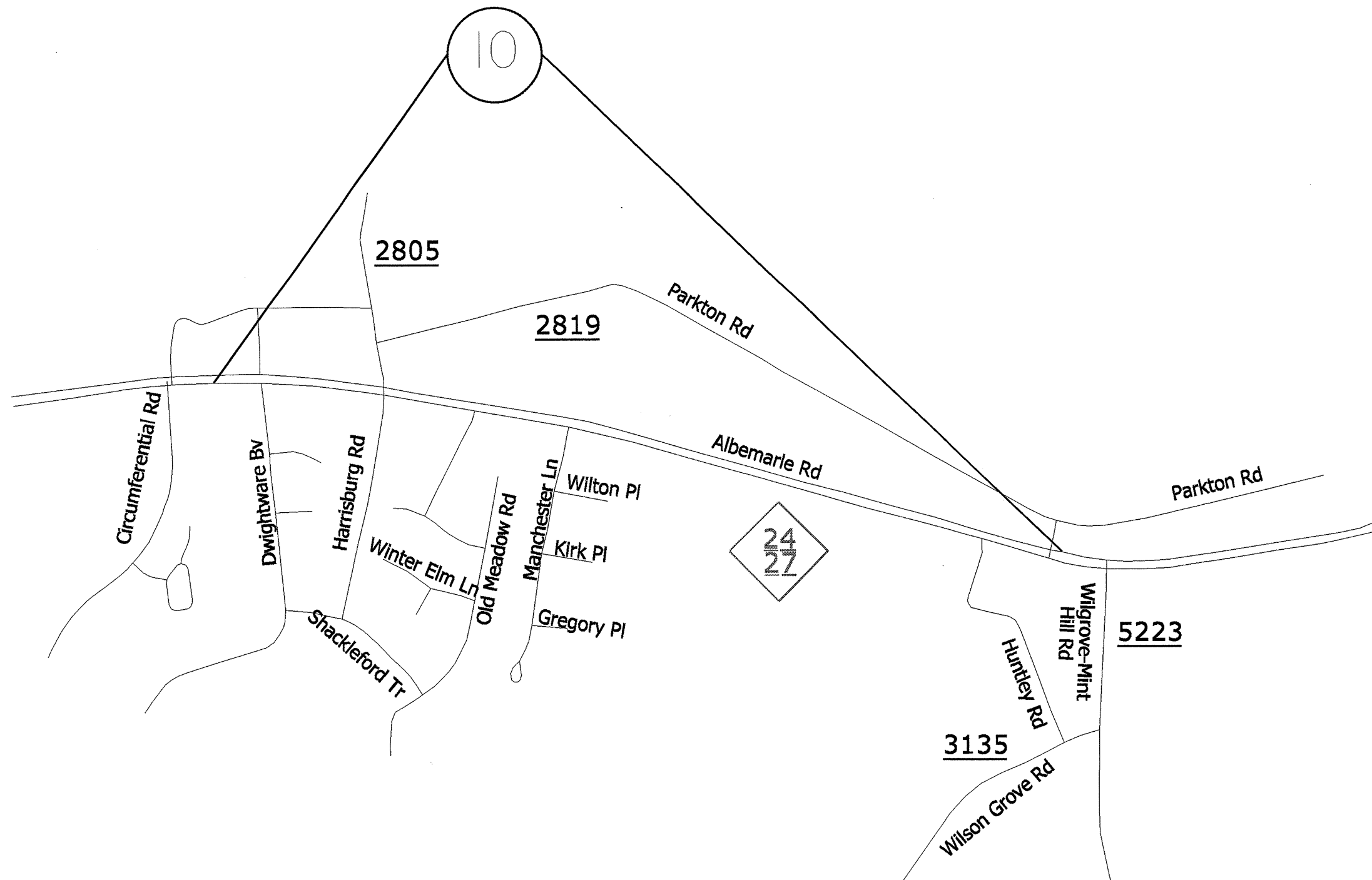
DESCRIPTION

- # 8 EB NC 27 (Albemarle Rd) FROM Reddman Rd to NC 24 (Harris Blvd)
- # 9 WB NC 27 (Albemarle Rd) FROM Pvmt Jt at W.T. Harris Blvd (NC 24) to Pvmt Jt West of Regal Oaks Dr

2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-		REVISIONS
DATE	05/11		
DWG. BY	RAO		
DESIGN BY	JSL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		7	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

# 10 NC 24/ 27 (Albemarle Rd)

DESCRIPTION

FROM Pvmt Jt E. of Circumferential Rd  
to Pvmt Jt W. of Wilgrove Mint-Hill Rd  
(SR 5223)

2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-		REVISIONS
DATE	05/11		
DWG. BY	RAO		
DESIGN BY	JSL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		8	
F.A. PROJECT NO. 10CR.10601.44...ETC.			

13

11



MAP

- # 11 Old Statesville Rd (NC 115)
- # 13 Old Statesville Rd (NC 115)

DESCRIPTION

FROM Future Pvmt Jt at Verhoeff Dr to Pvmt Jt S. of Gilead Rd

FROM Pvmt Jt N. of Gilead Rd to Pvmt Jt at Ramah Ch Rd



2012 MECKLENBURG COUNTY  
RESURFACING

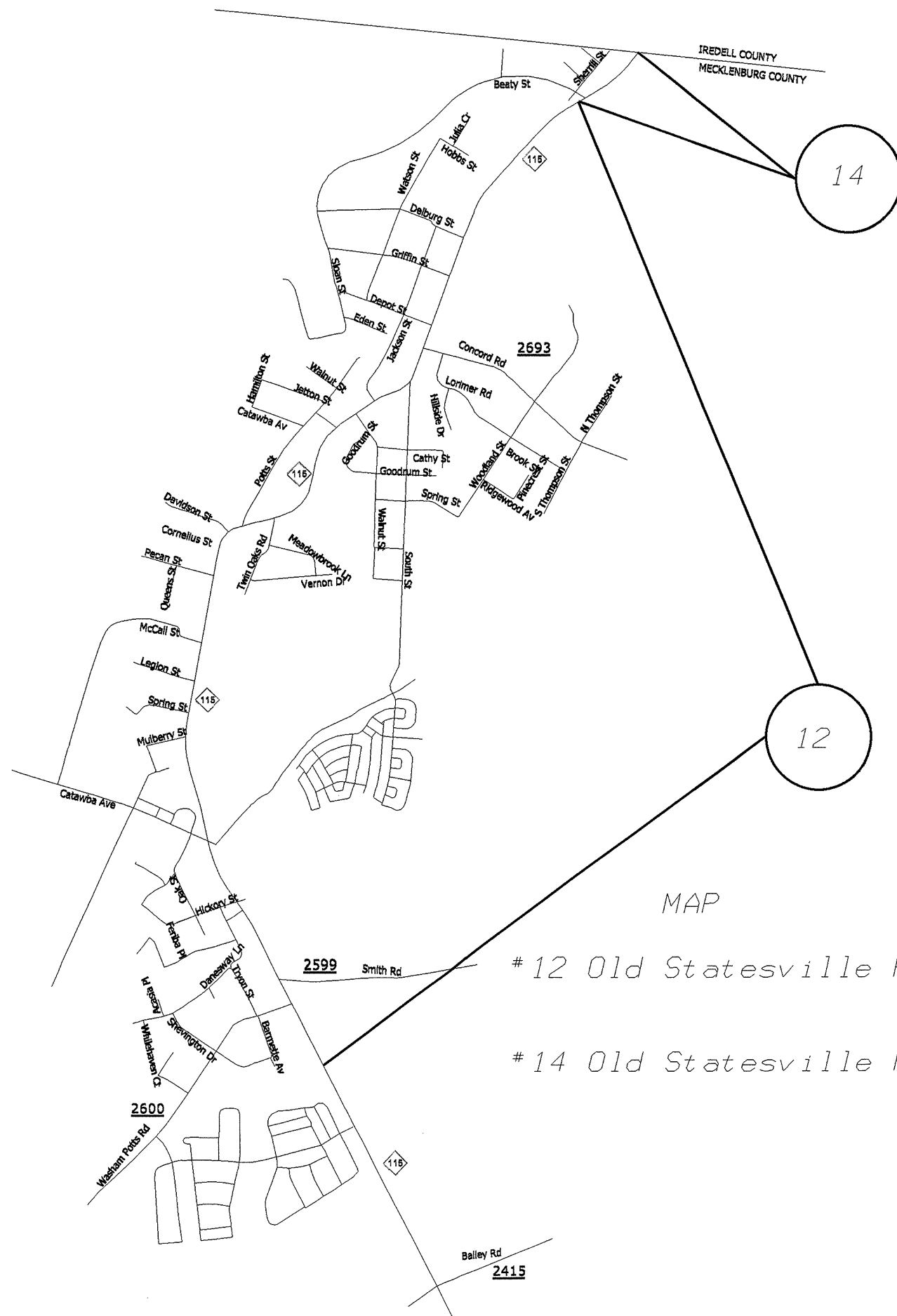
SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		9	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

DESCRIPTION

# 12 Old Statesville Rd (NC 115)

FROM 0.2 miles S. of Washam Potts Rd to 300ft S of Beaty St

# 14 Old Statesville Rd (NC 115)

FROM 300ft S. of Beaty St to Iredell County

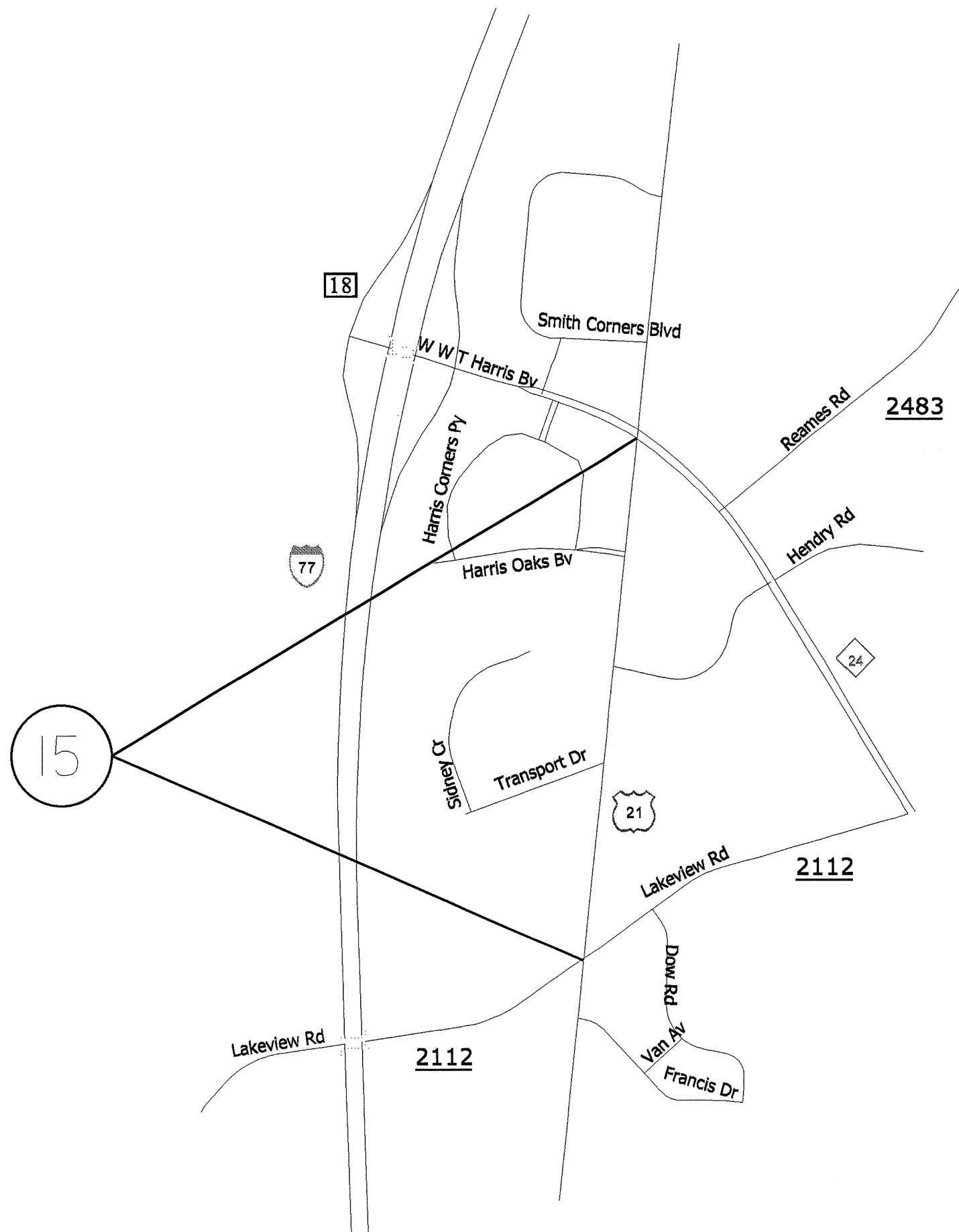
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAQ
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		ID	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

# 15 US 21 (Statesville Rd)

DESCRIPTION

FROM NC 24 (Harris Blvd) to SR 2112 (Lakeview Rd)

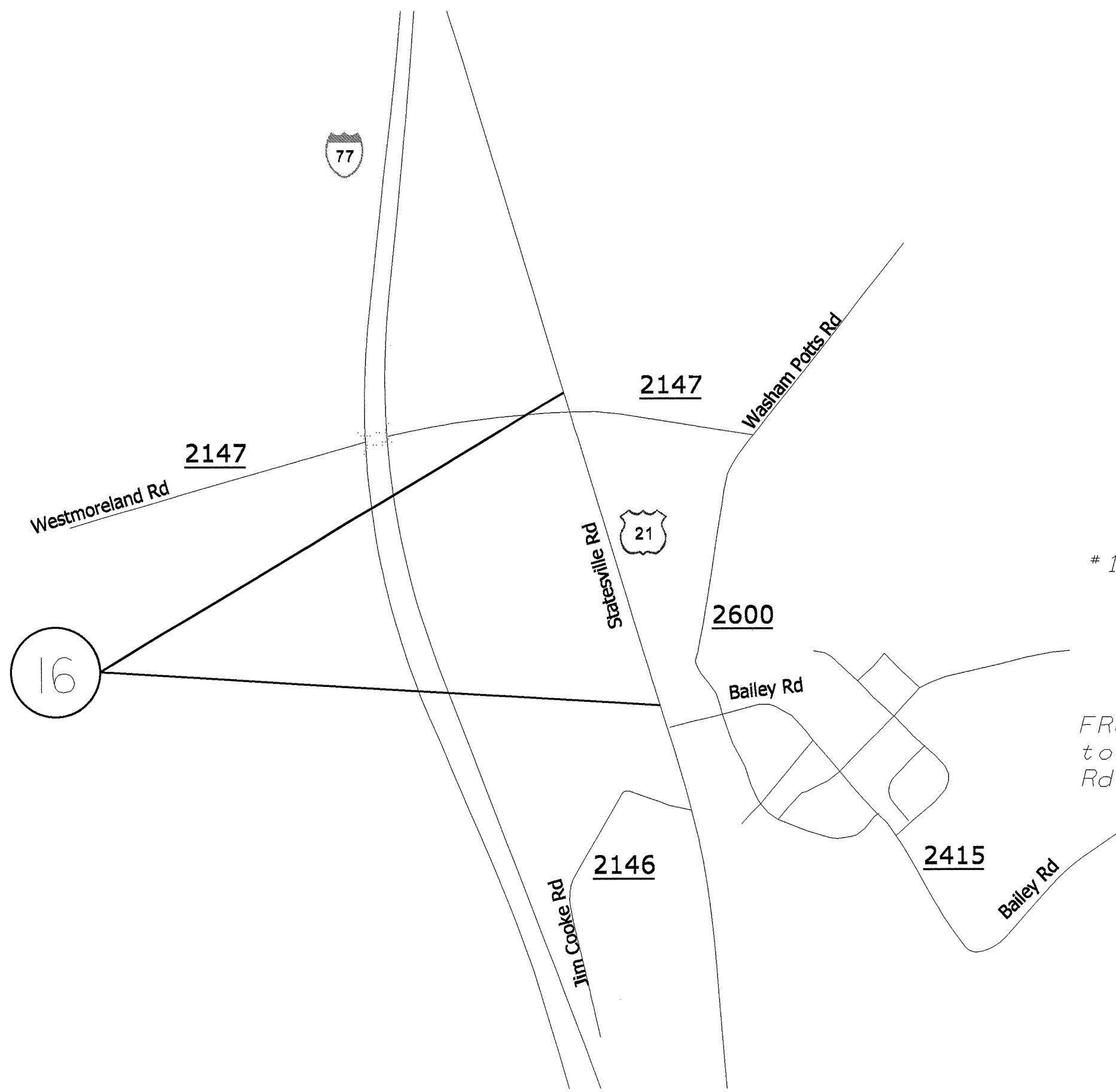
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE -NA-  
DATE 05/11  
DWG. BY RAO  
DESIGN BY JSL  
APPROVED



REVISIONS


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		II	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

# 16

US 21 (Statesville Rd)

DESCRIPTION

FROM Pvmt Jt N. of Bailey Rd  
to Pvmt Jt N. of Westmoreland  
Rd (SR 2147)

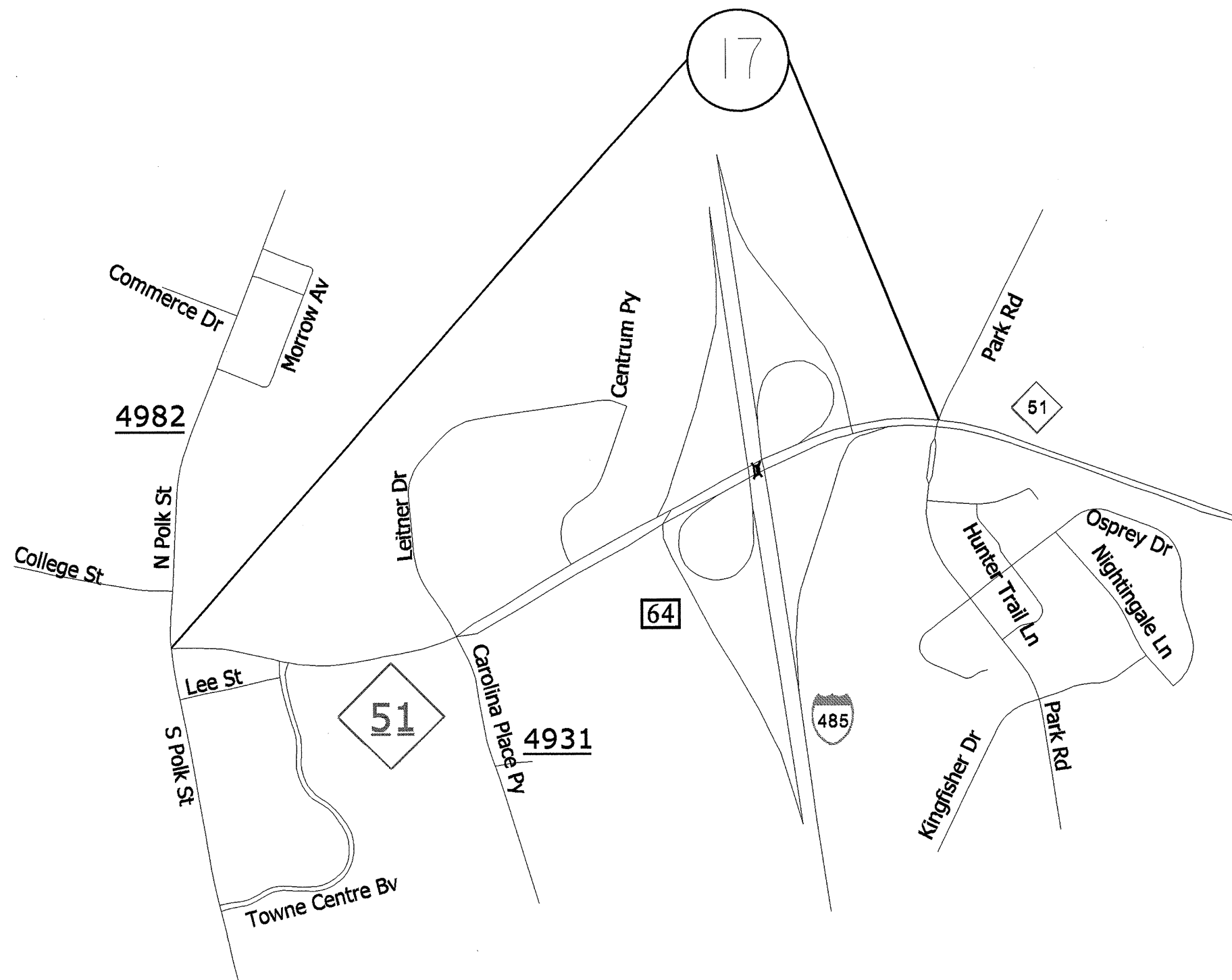
2011 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		12	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

# 17 Pineville-Matthews Rd (NC 51)

DESCRIPTION

FROM SR 4982 (Polk St) to Park Rd

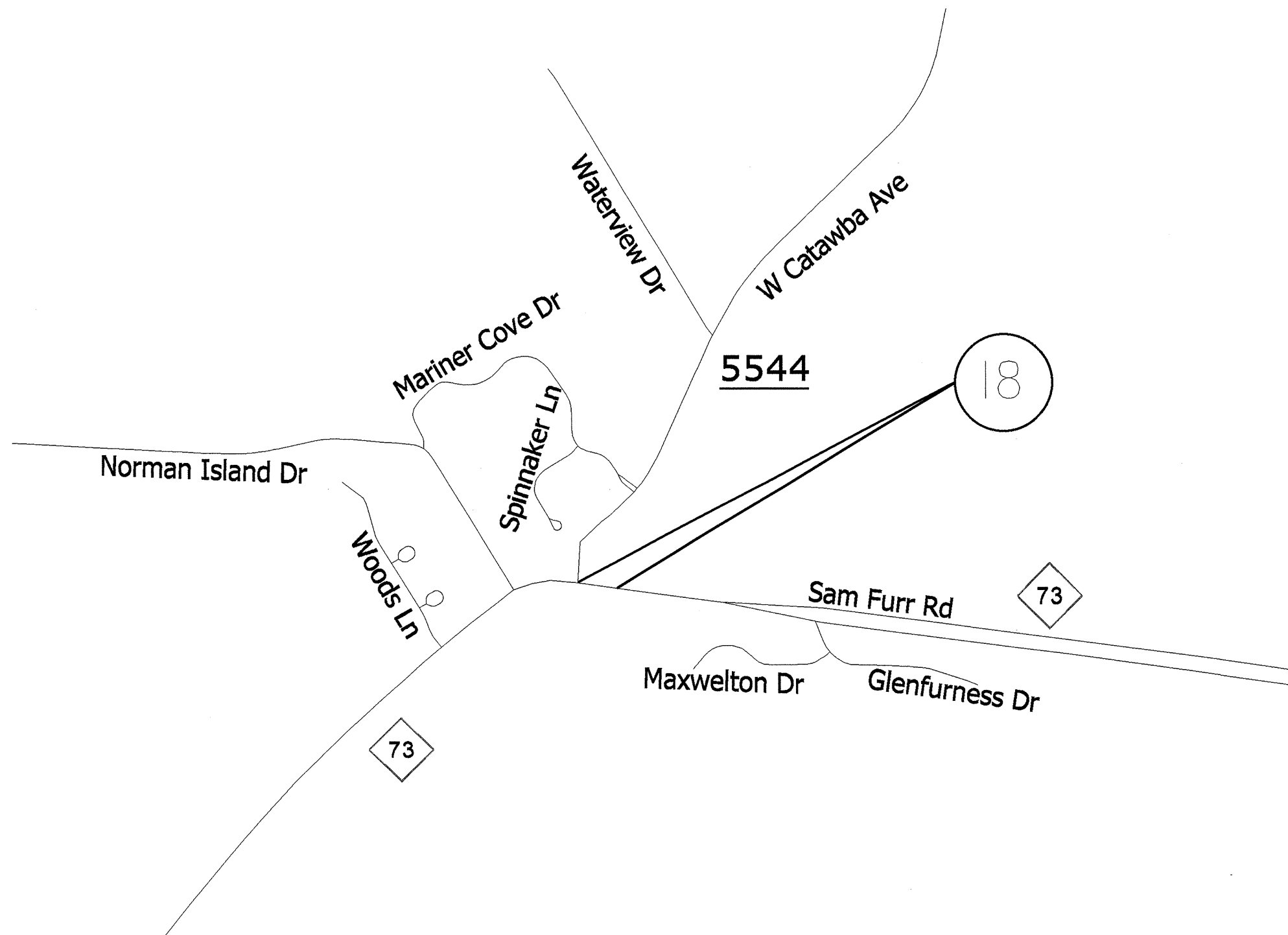
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		13	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

DESCRIPTION

# NC 73 (Sam Furr Rd)

FROM W Catawba Ave to 250ft E. of W Catawba Ave

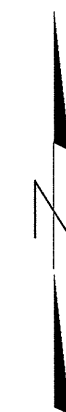
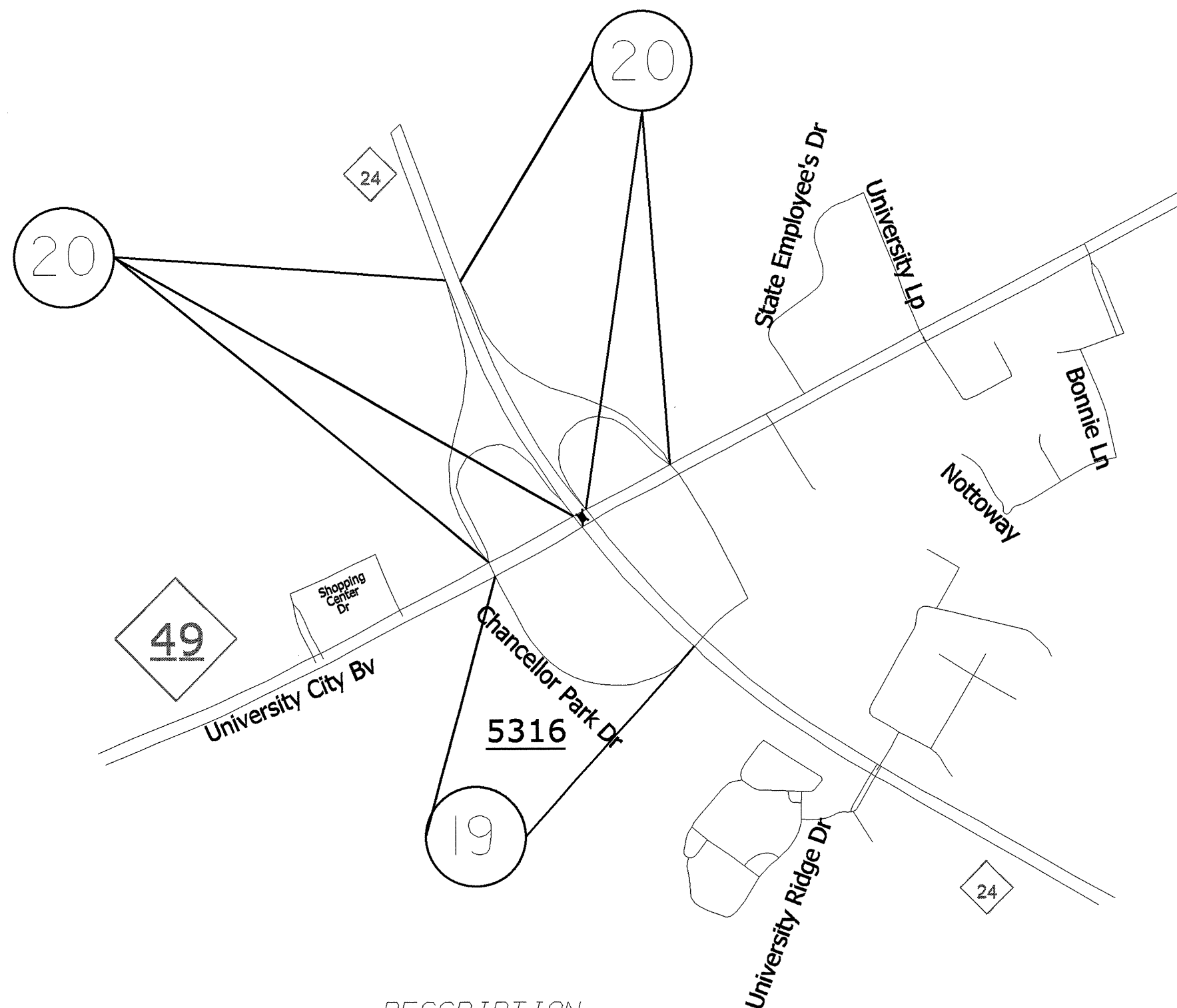
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAQ
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		14	
F.A. PROJECT NO. 10CR,10601.44...ETC.			

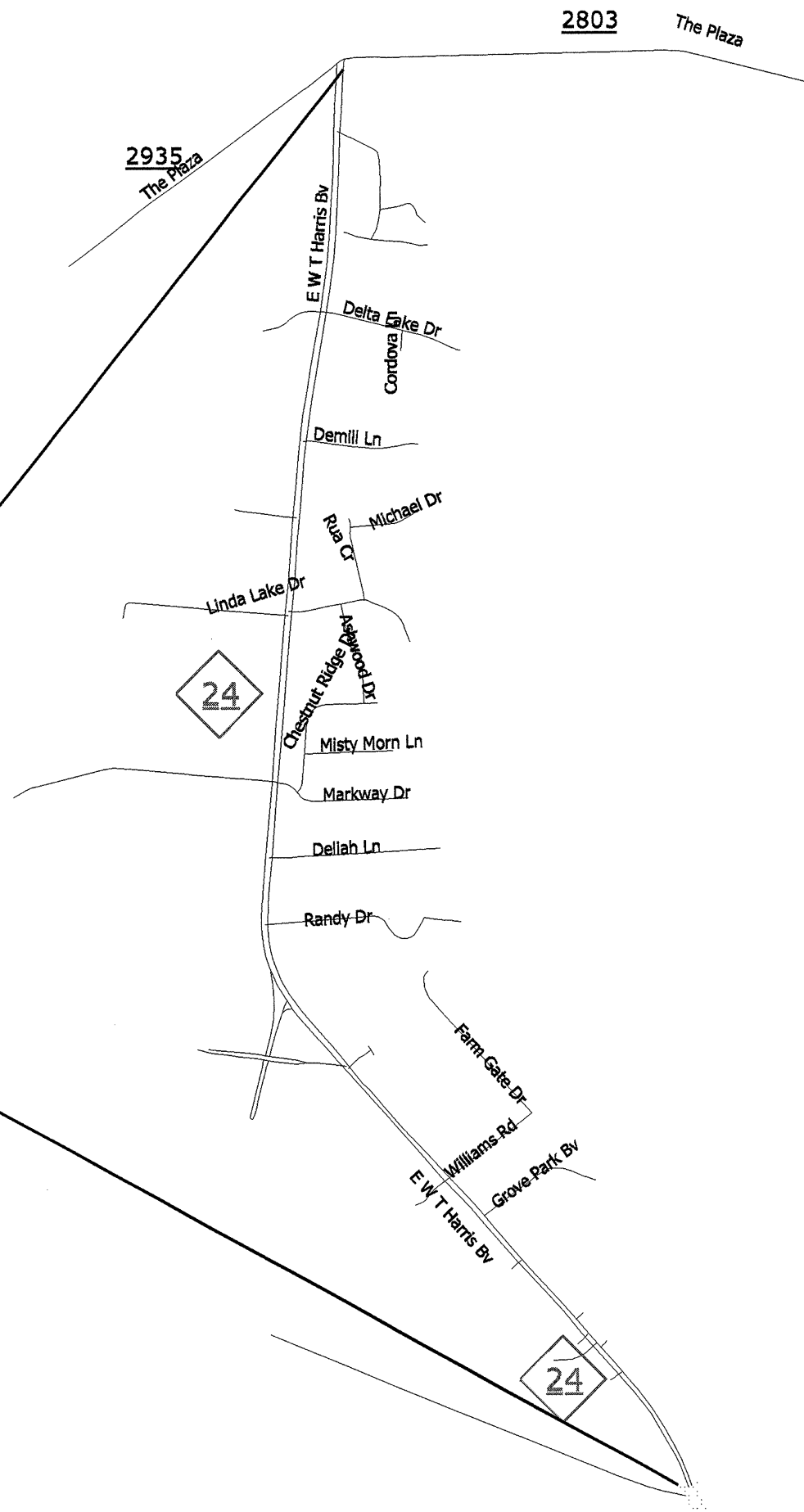


	MAP	DESCRIPTION
#	SR 5316	FROM NC 49 to NC 24
#	NC 24 Ramps	FROM NC 49 to NC 24

2012 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	
DATE	05/11	
DWG. BY	RAQ	
DESIGN BY	JSL	
APPROVED		
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		15	
F.A. PROJECT NO. 10CR.10601.44...ETC.			

21



MAP

#21 W.T. Harris Blvd (NC 24)

DESCRIPTION

FROM PLAZA RD (SR 2935) TO RAILROAD BRIDGE

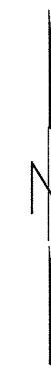
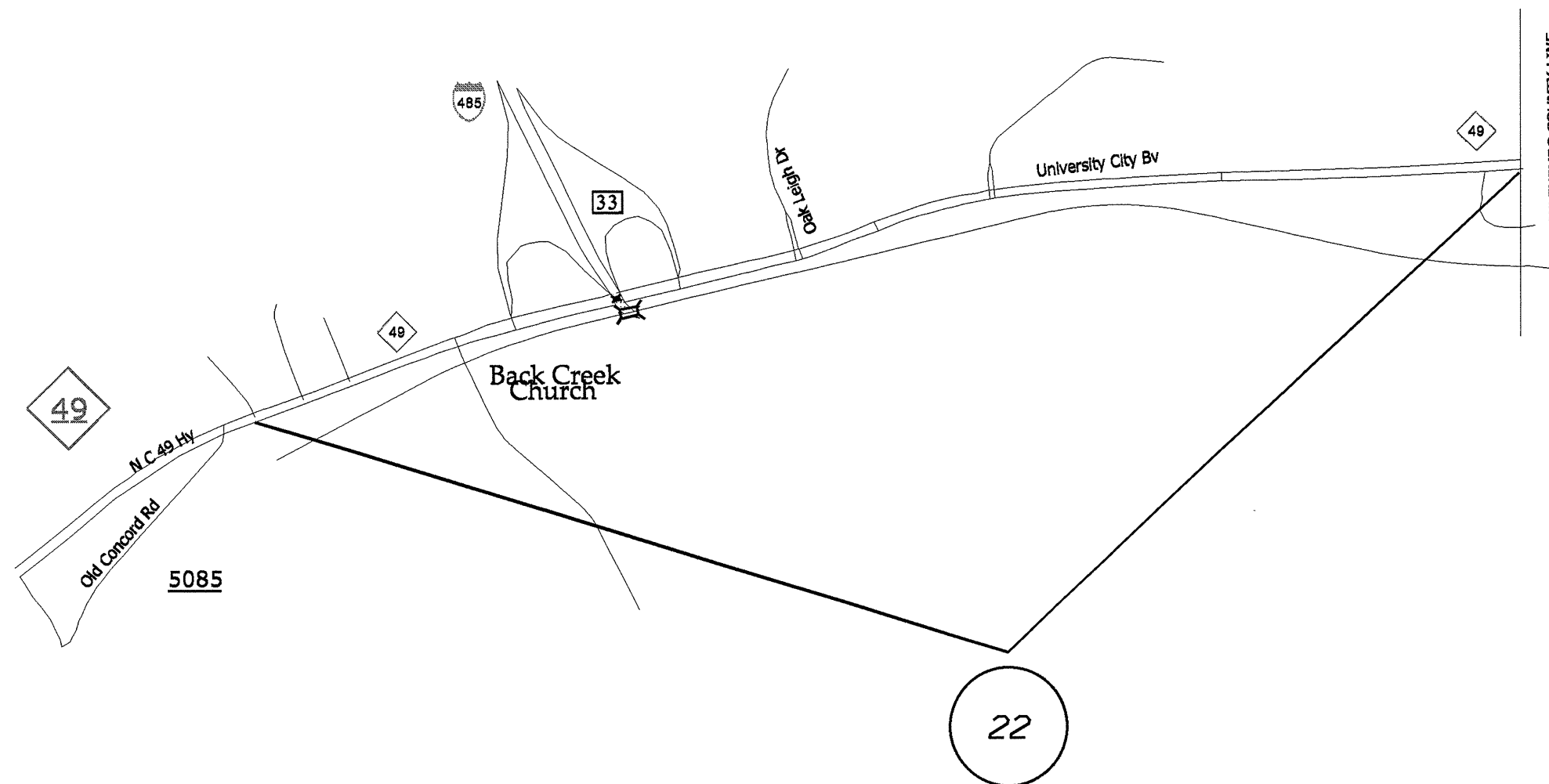
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	01/11
DWG. BY	JSL
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		16	
F.A. PROJECT NO. 10CR.10601.44...ETC.			



MAP

DESCRIPTION

# 22

UNIVERSITY CITY BLVD (NC 49)

FROM PVMT JT AT OLD CONCORD RD TO  
MECKLENBURG COUNTY LINE

2012 MECKLENBURG COUNTY  
RESURFACING

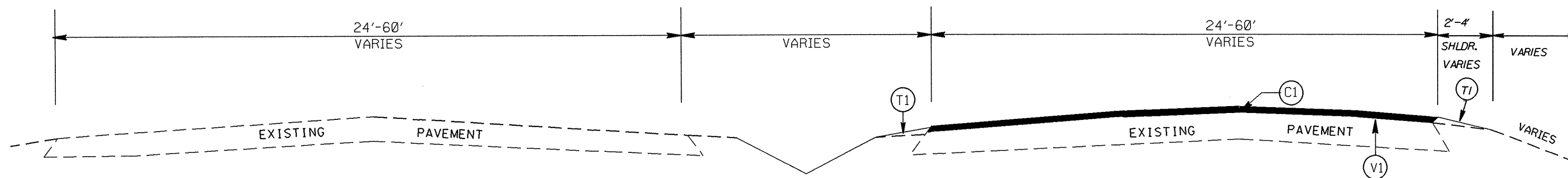
SCALE -NA-  
DATE 01/11  
DWG. BY JSL  
DESIGN BY JSL  
APPROVED



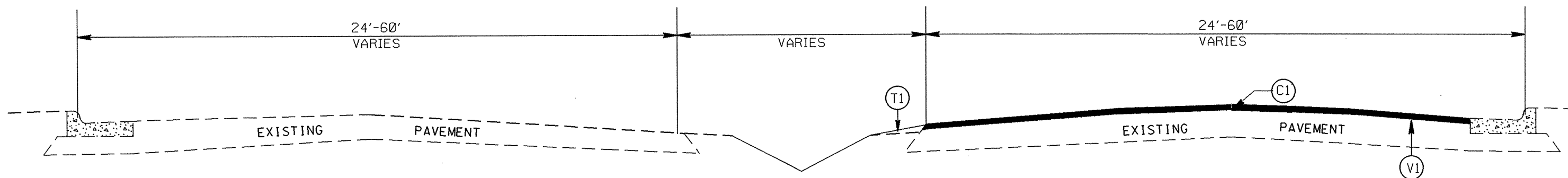
REVISIONS




STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		17	
F.A. PROJECT NO. 10CR.10601.44, ETC.			



TYPICAL SECTION NO. 2



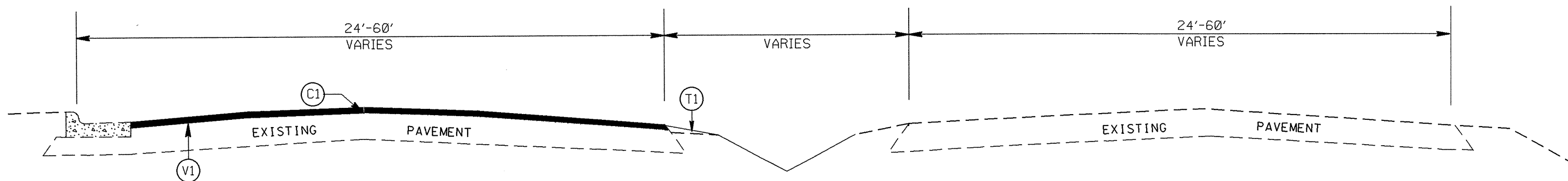
TYPICAL SECTION NO. 1

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. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH

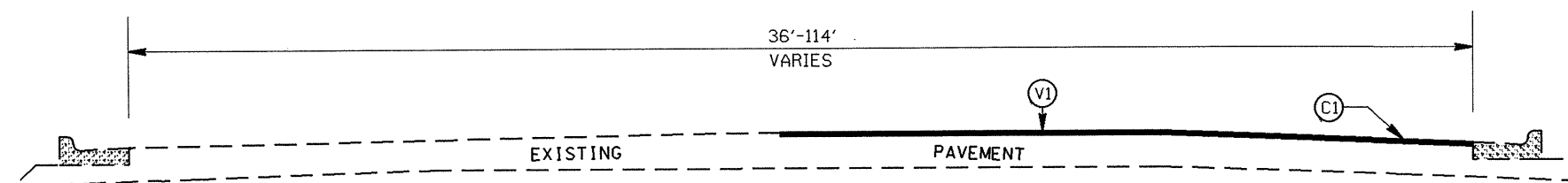
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-		REVISIONS
DATE	01/11		
DWG. BY	JSL		
DESIGN BY	JSL		
APPROVED	LM		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		18	
F.A. PROJECT NO. 10CR.10601.44, ETC.			



TYPICAL SECTION NO. 4

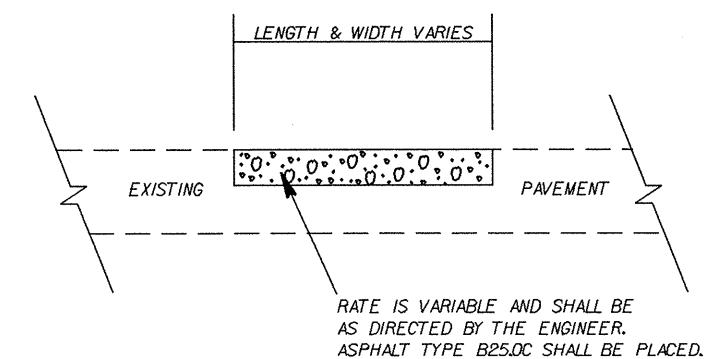


TYPICAL SECTION NO. 3

PAVEMENT SCHEDULE

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. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH

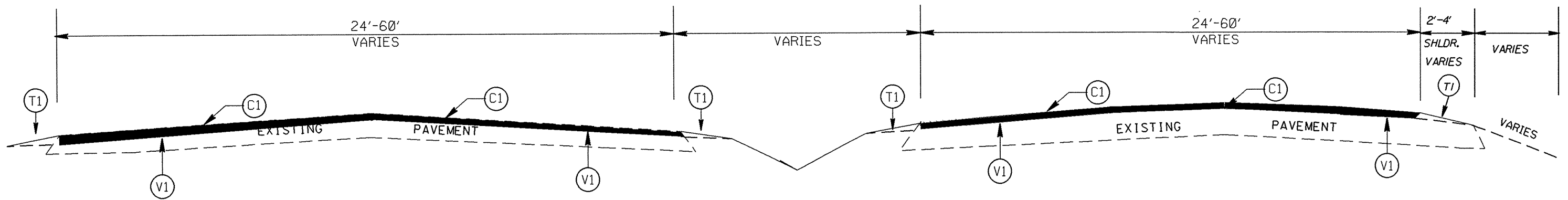
PATCHING DETAIL



2012 MECKLENBURG COUNTY  
RESURFACING

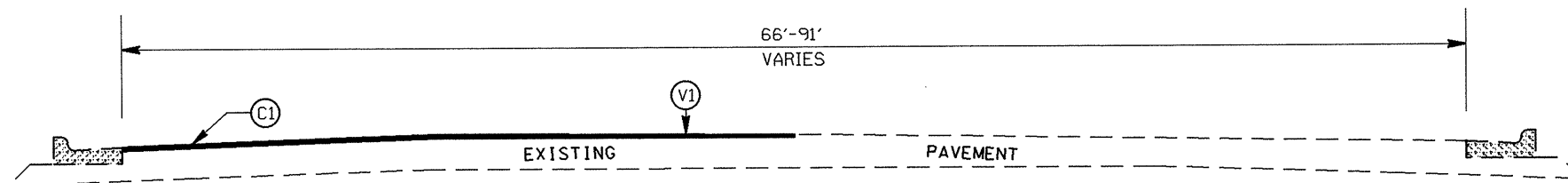
SCALE	-NA-		REVISIONS
DATE	01/11		
DWG. BY	JSL		
DESIGN BY	JSL		
APPROVED	LM		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		19	
F.A. PROJECT NO. 10CR.10601.44, ETC.			

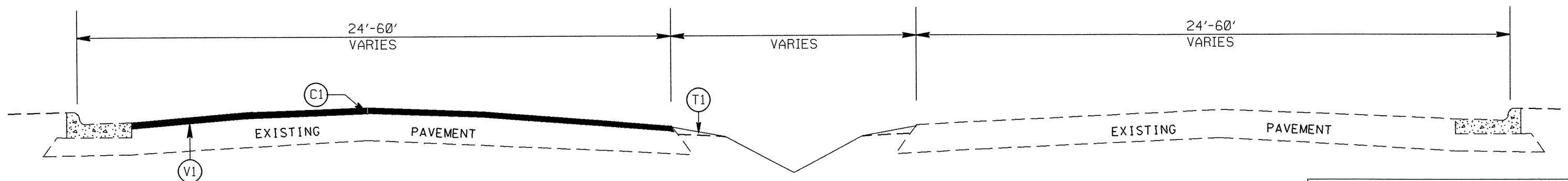


TYPICAL SECTION NO. 7

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. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH



TYPICAL SECTION NO. 6

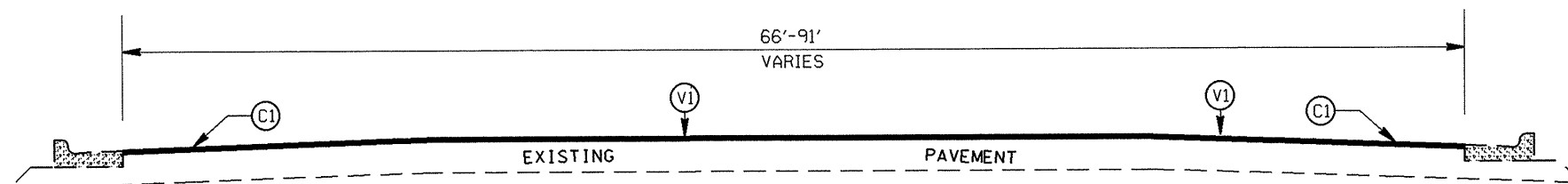


TYPICAL SECTION NO. 5

2012 MECKLENBURG COUNTY  
RESURFACING

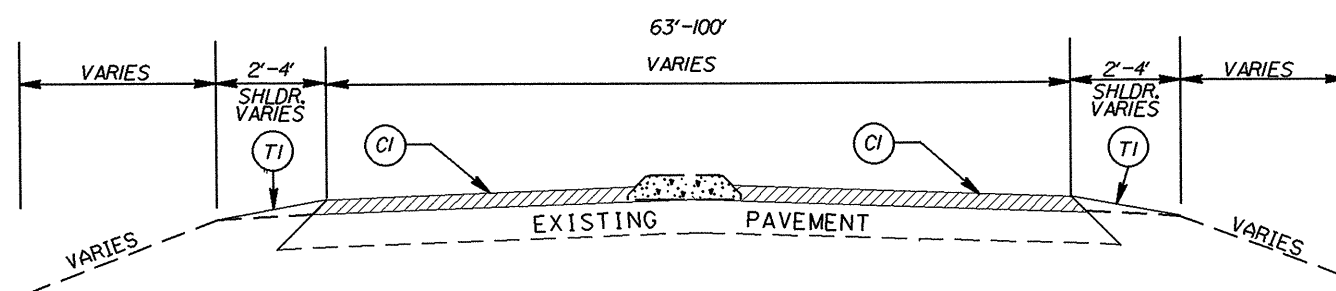
SCALE	-NA-		REVISIONS
DATE	01/11		
DWG. BY	JSL		
DESIGN BY	JSL		
APPROVED	LM		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		20	
F.A. PROJECT NO. 10CR.10601.44, ETC.			

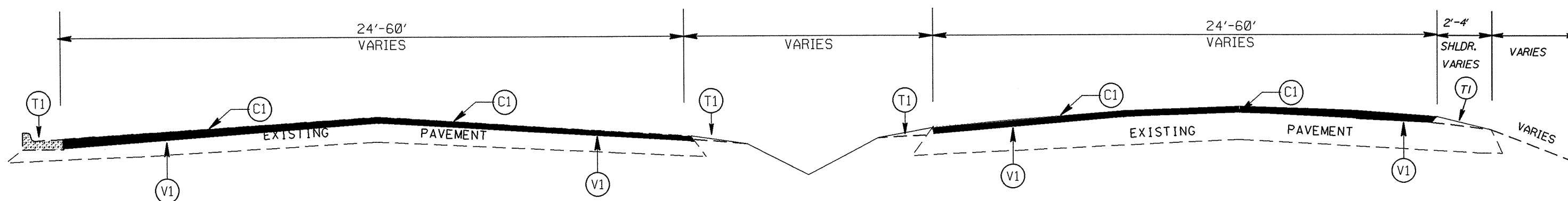


TYPICAL SECTION NO. 10

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.50, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.00, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH



TYPICAL SECTION NO. 9



TYPICAL SECTION NO. 8

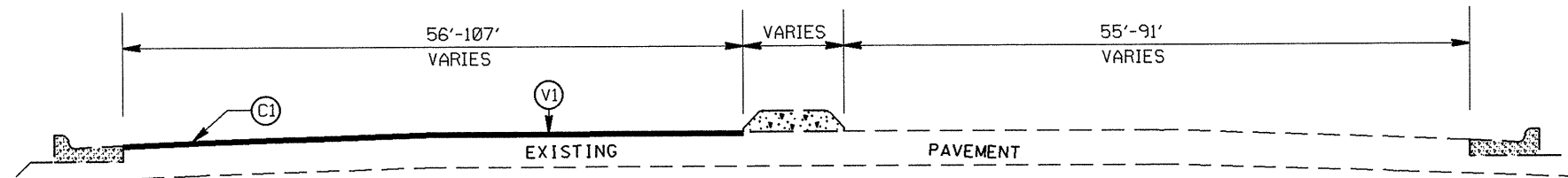
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	01/11
DWG. BY	JSL
DESIGN BY	JSL
APPROVED	

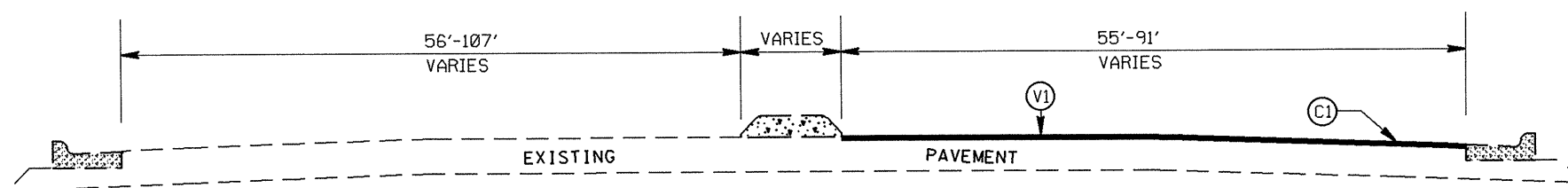


REVISIONS	

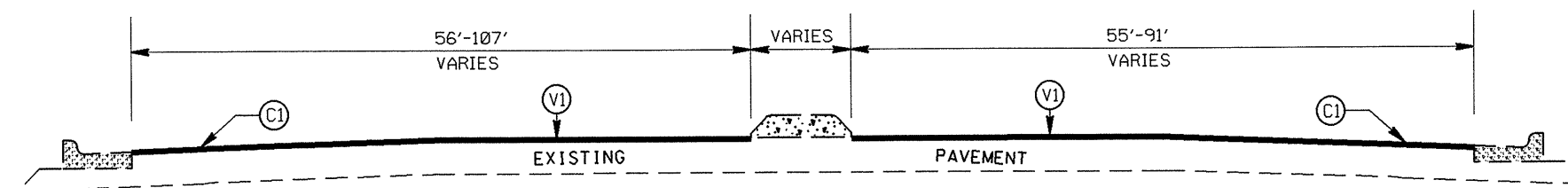
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		21	
F.A. PROJECT NO. 10CR.10601.44, ETC.			



TYPICAL SECTION NO.13



TYPICAL SECTION NO.12



TYPICAL SECTION NO.11

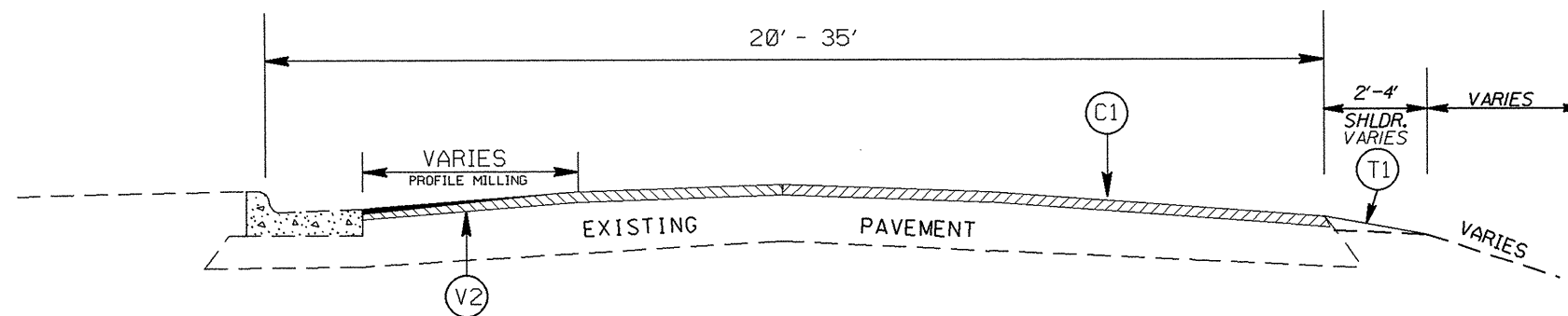
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH

2012 MECKLENBURG COUNTY  
RESURFACING

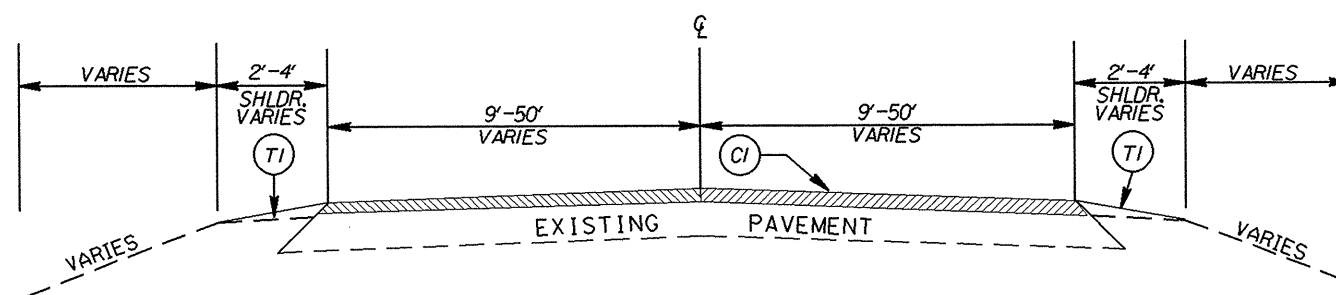
SCALE	-NA-
DATE	01/11
DWG. BY	JSL
DESIGN BY	JSL
APPROVED	LM



REVISIONS	

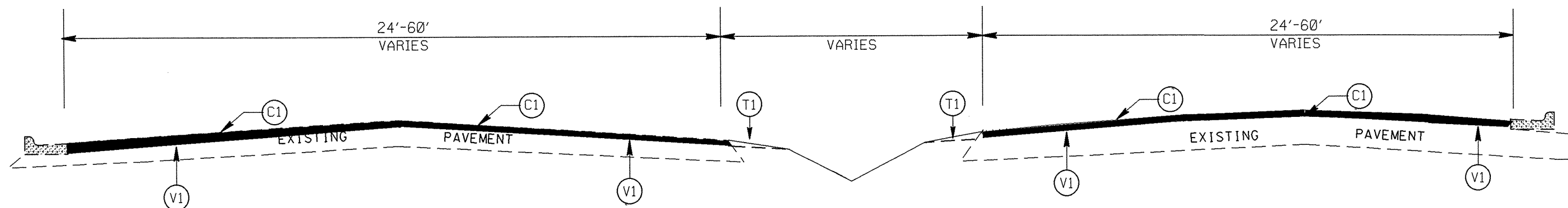


TYPICAL SECTION NO. 16



TYPICAL SECTION NO. 15

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. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH



TYPICAL SECTION NO. 14

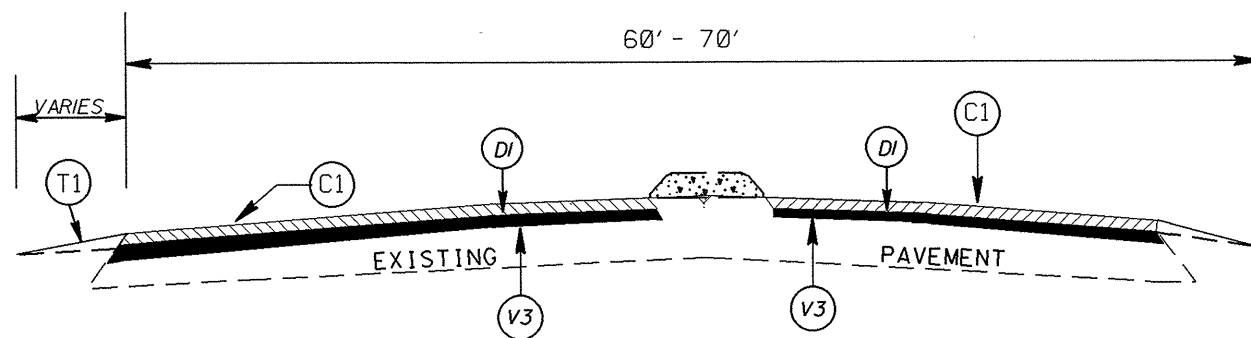
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE -NA-  
DATE 01/11  
DWG. BY JSL  
DESIGN BY JSL  
APPROVED LM

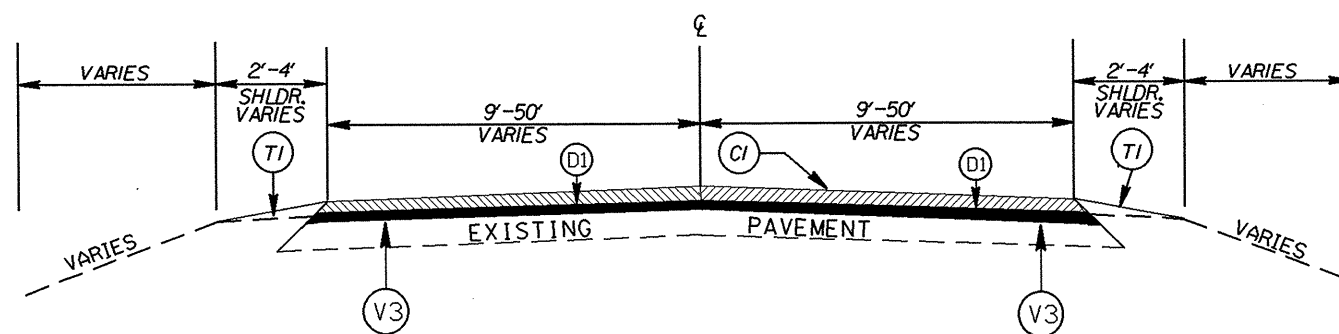


REVISIONS	

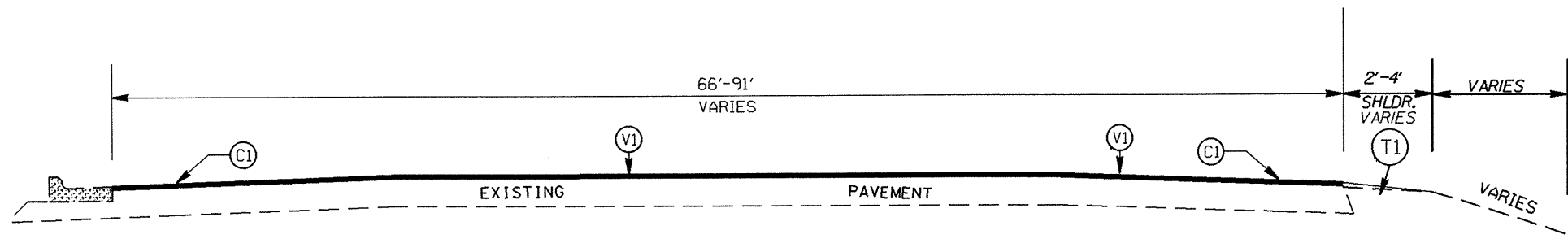
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		23	
F.A. PROJECT NO. IOCR.10601.44, ETC.			



TYPICAL SECTION NO. 19



TYPICAL SECTION NO. 18



TYPICAL SECTION NO. 17

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.50, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.00, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH

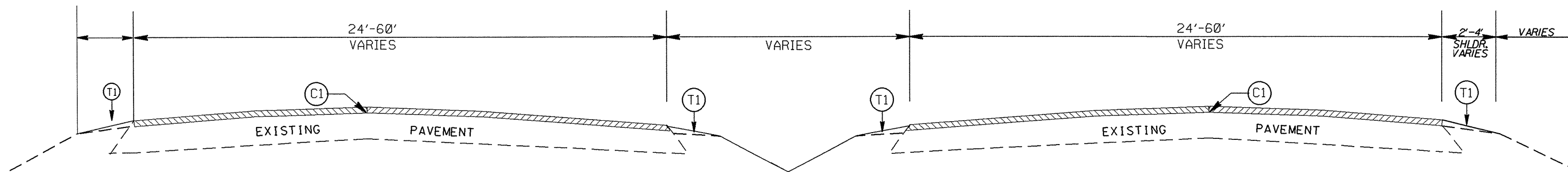
2012 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-
DATE	01/11
DWG. BY	JSL
DESIGN BY	JSL
APPROVED	LM

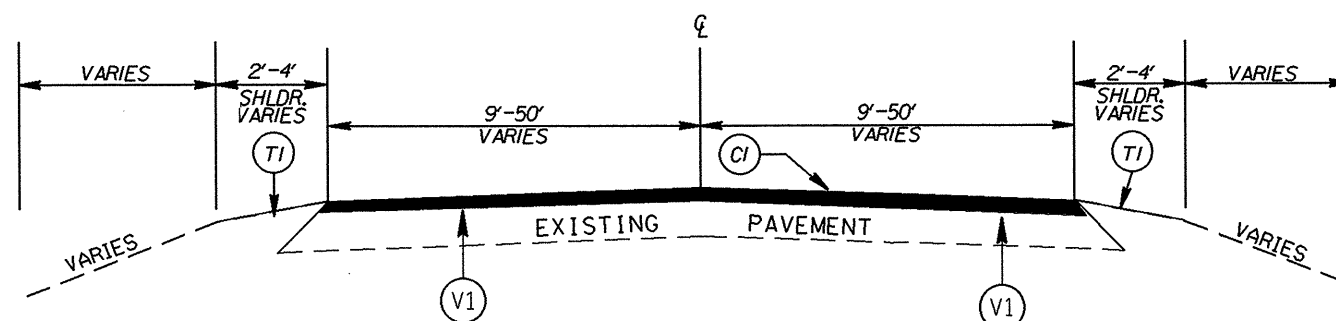


REVISIONS	

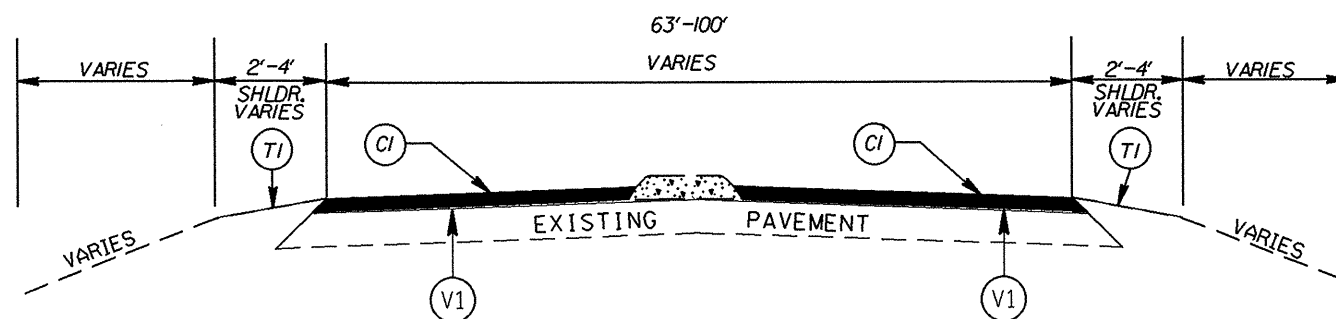
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		24	
F.A. PROJECT NO. 10CR.10601.44, ETC.			



TYPICAL SECTION NO. 22



TYPICAL SECTION NO. 21



TYPICAL SECTION NO. 20

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. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"
V3	MILLING 5.0" DEPTH

2012 MECKLENBURG COUNTY  
RESURFACING

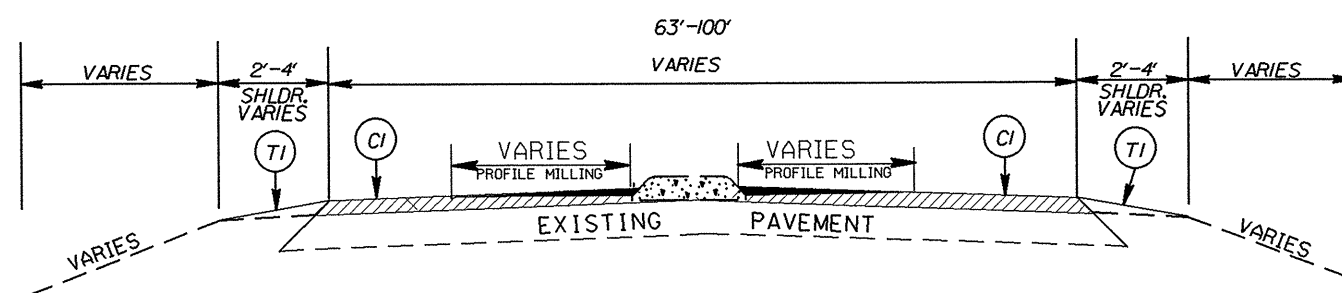
SCALE -NA-  
DATE 01/11  
DWG. BY JSL  
DESIGN BY JSL  
APPROVED LM



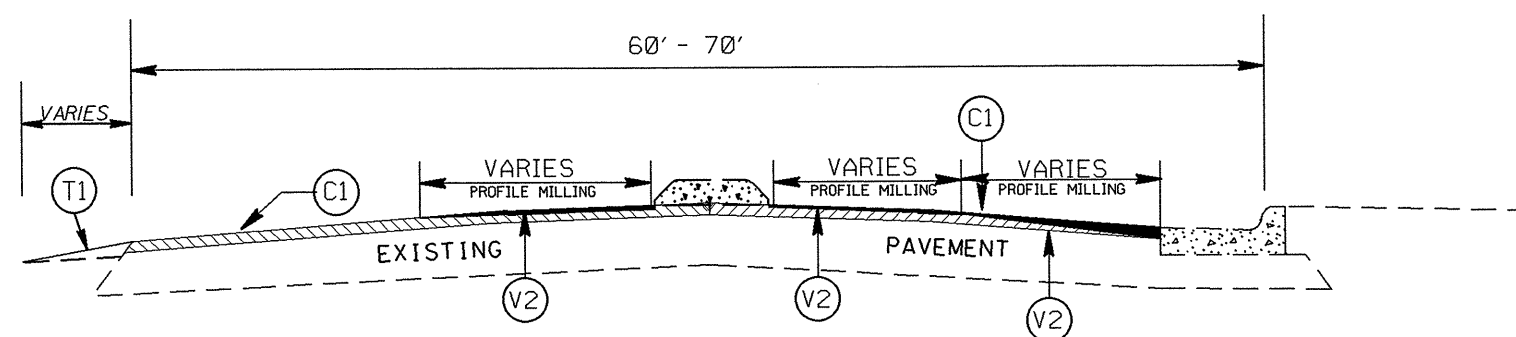
REVISIONS	



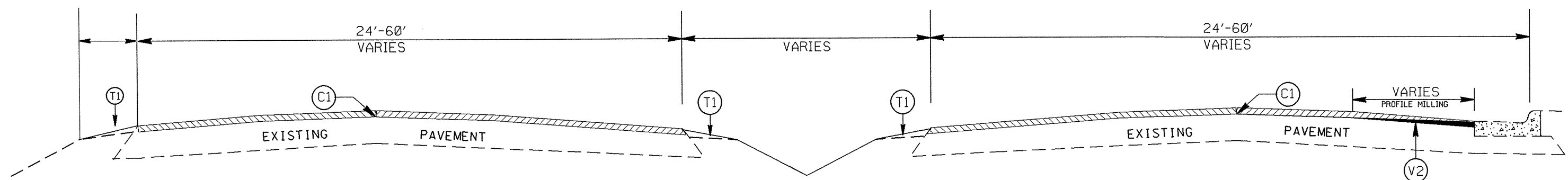
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		25	
F.A. PROJECT NO. IOCR.10601.44, ETC.			



TYPICAL SECTION NO. 25



TYPICAL SECTION NO. 24



TYPICAL SECTION NO. 23

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. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH
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2012 MECKLENBURG COUNTY  
RESURFACING

SCALE -NA-  
DATE 01/11  
DWG. BY JSL  
DESIGN BY JSL  
APPROVED LM



REVISIONS

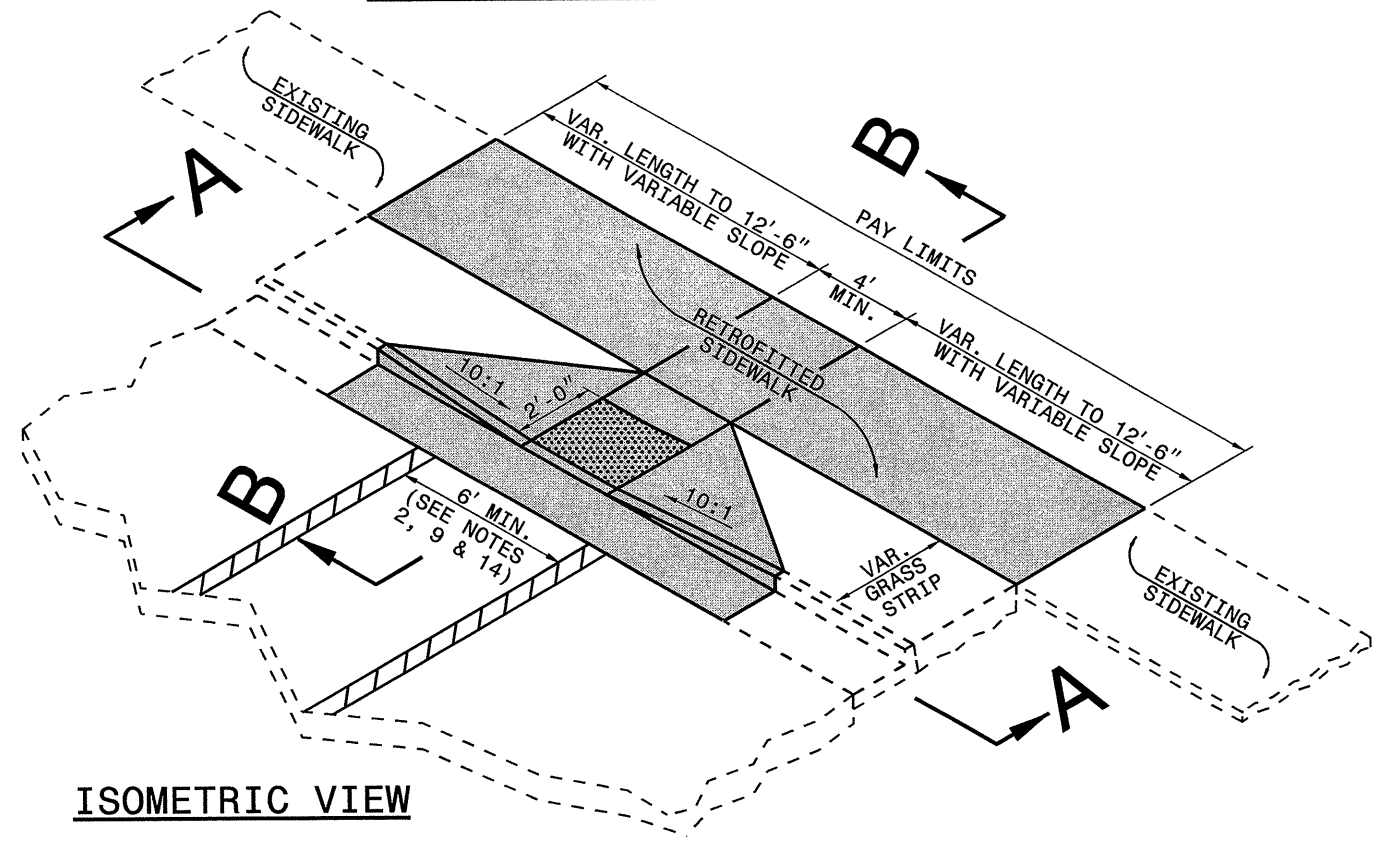

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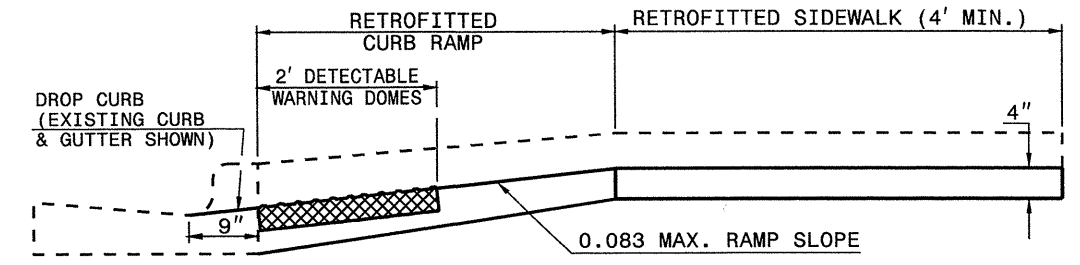
ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

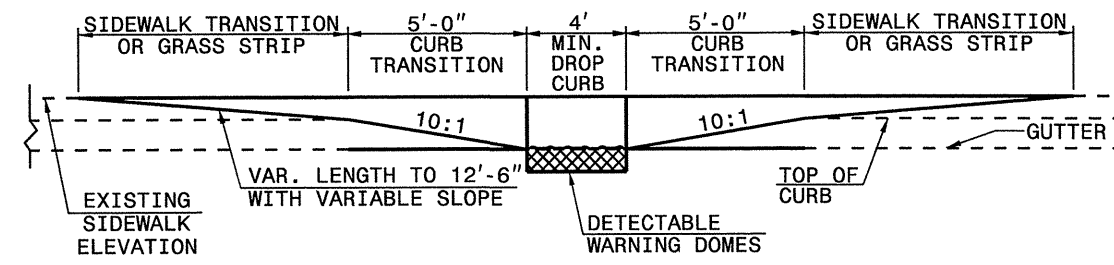
**CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP**



**ISOMETRIC VIEW**

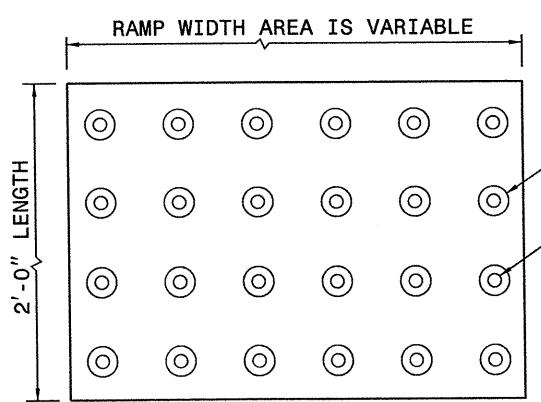


**SECTION B-B**

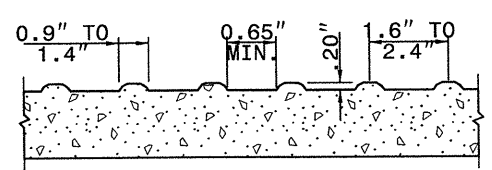


**SECTION A-A**

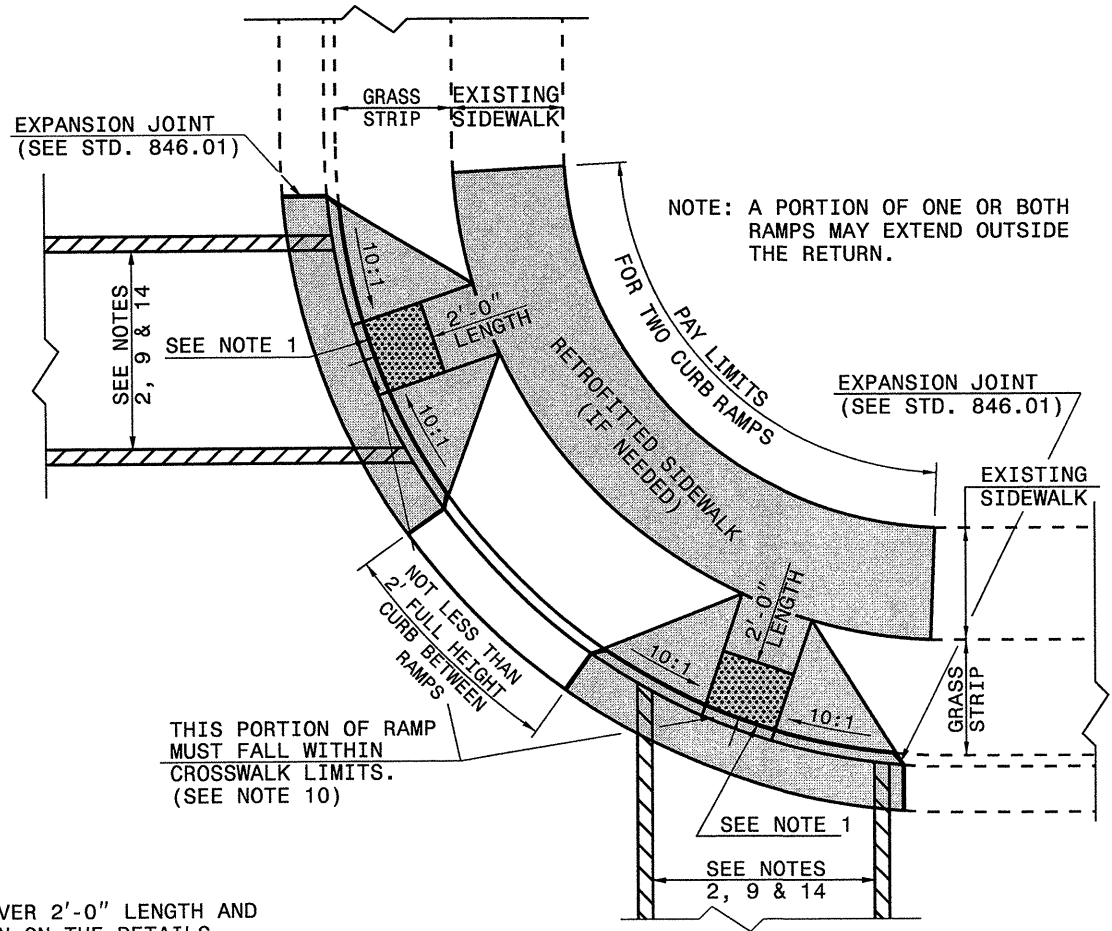
PAY LIMITS OF RETROFIT CURB RAMP



BASE DIAMETER  
0.90"R TO 1.40"R  
TOP DIAMETER OF NO LESS THAN 50% TO NO MORE THAN 65% OF THE BASE DIAMETER



**DETECTABLE WARNING DOMES**



**PLAN VIEW**

DUAL RAMPS  
ANY RADII  
(40" MIN. FLOOR WIDTH)

- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
  2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

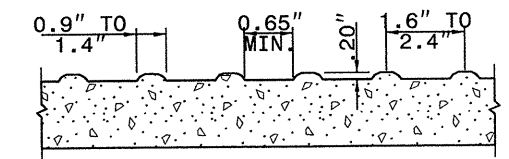
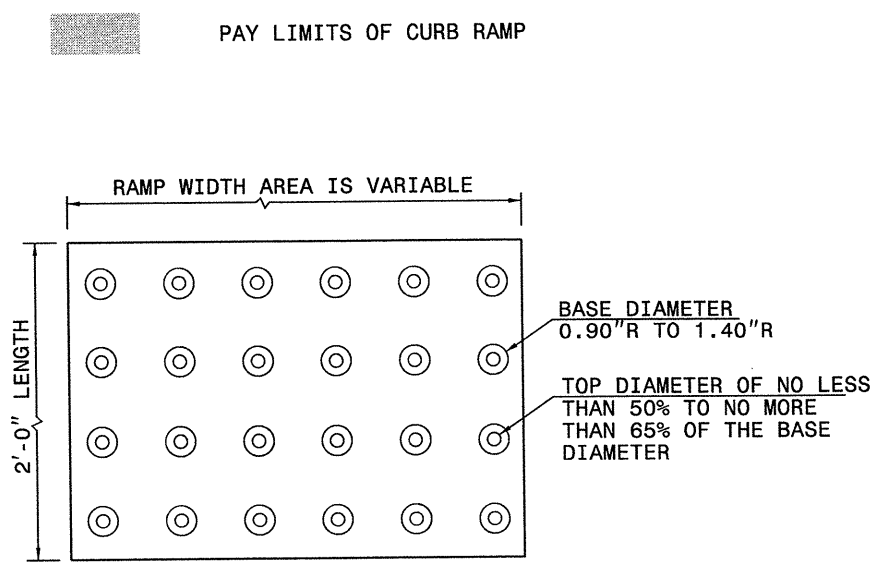
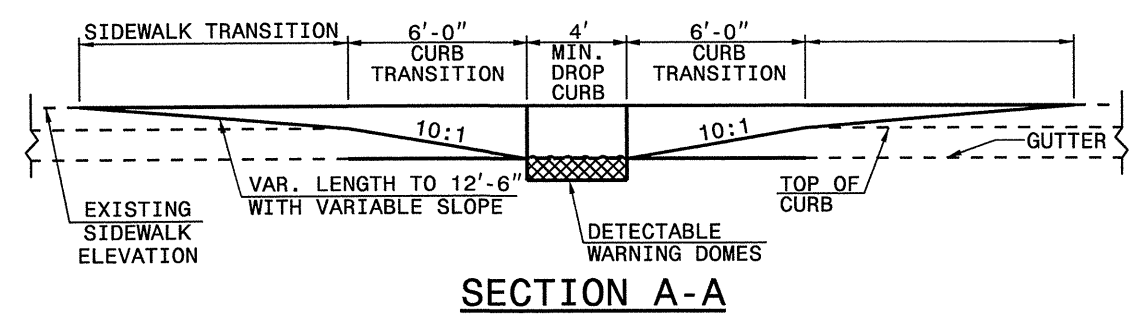
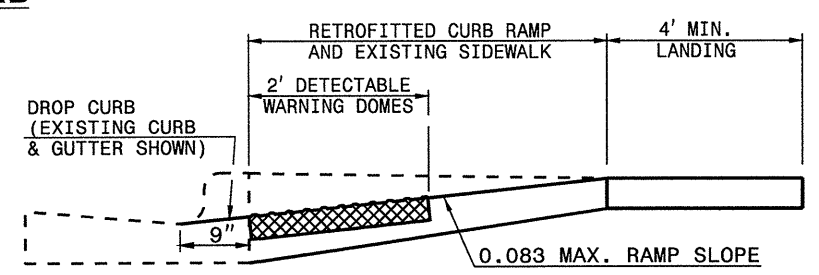
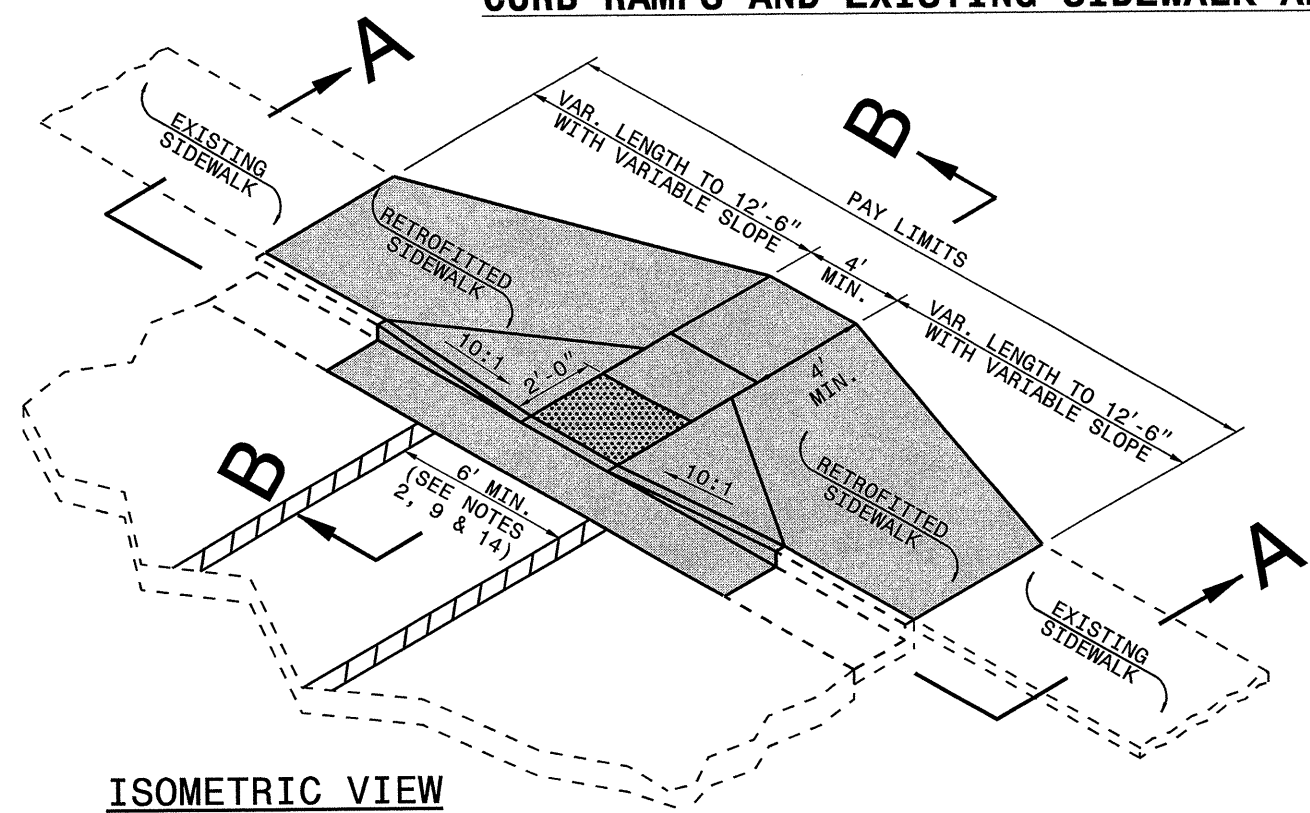
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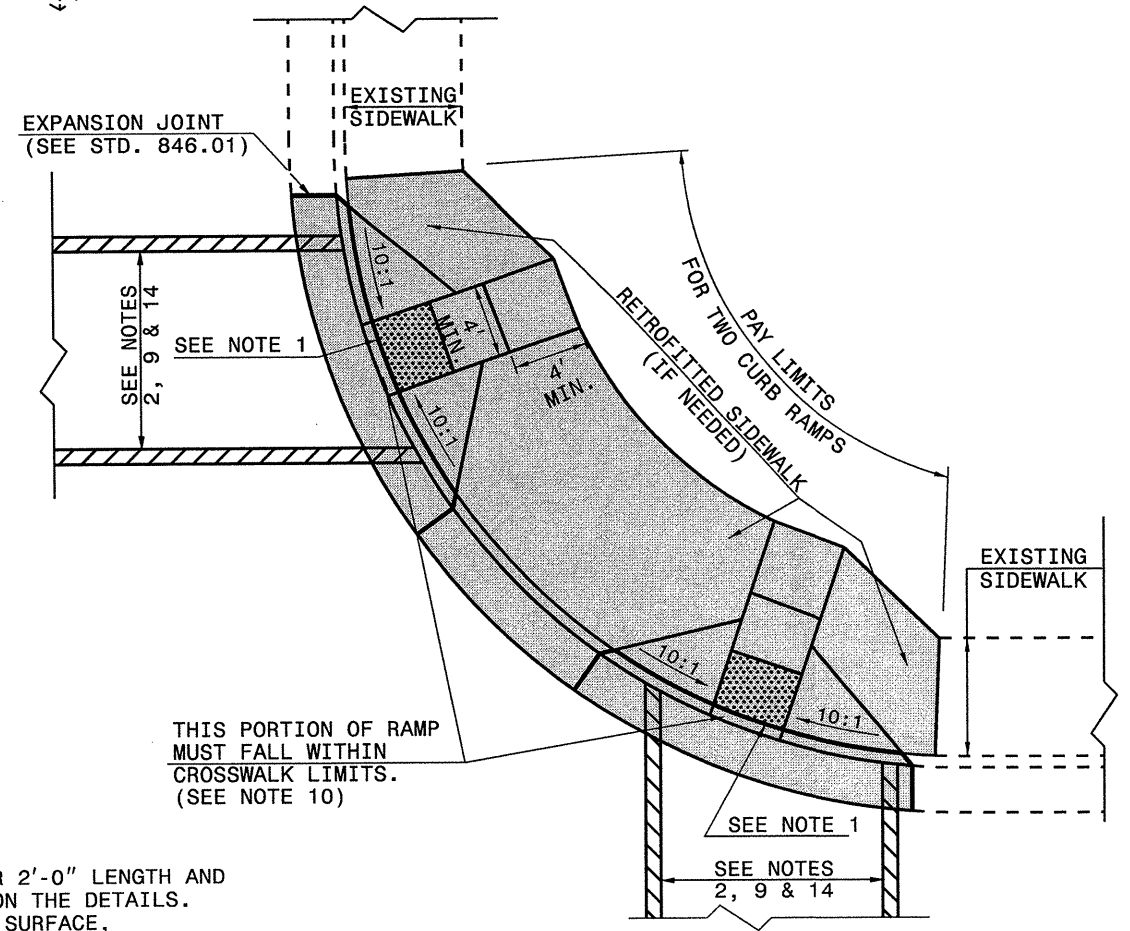
ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

### CURB RAMPS AND EXISTING SIDEWALK ADJACENT TO CURB



- NOTES:**
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
  2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DUAL RAMPS  
ANY RADII  
(40" MIN. FLOOR WIDTH)

### DETECTABLE WARNING DOMES

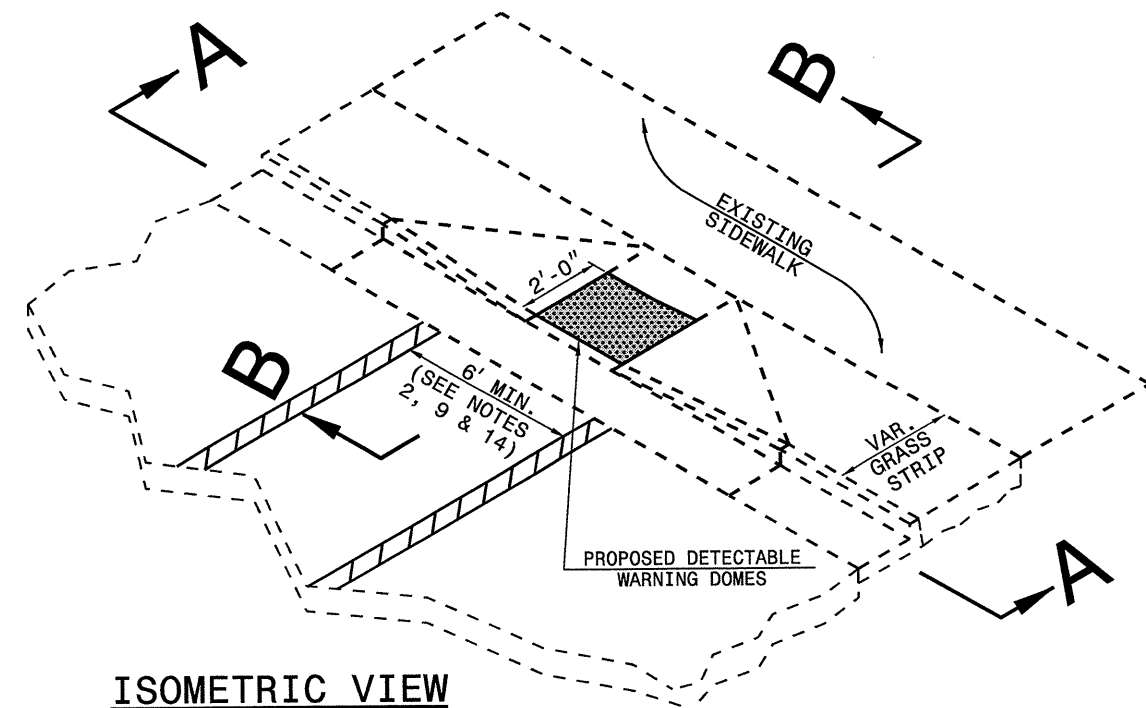
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ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

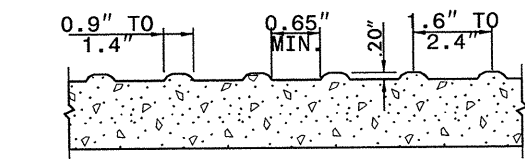
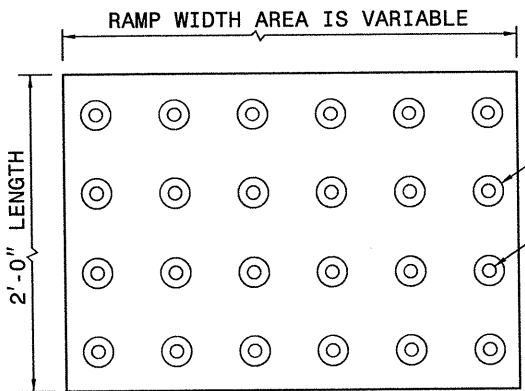
ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

**RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP**



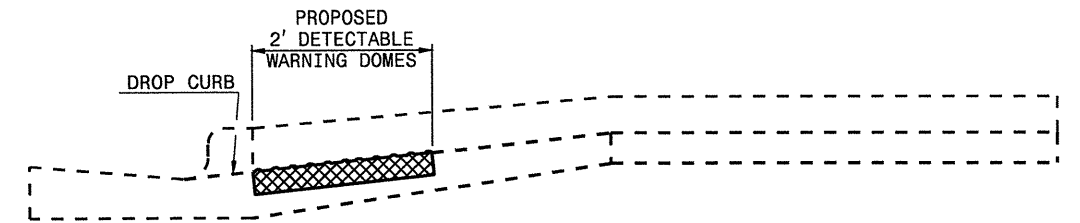
**ISOMETRIC VIEW**

PAY LIMITS OF RETROFIT CURB RAMP

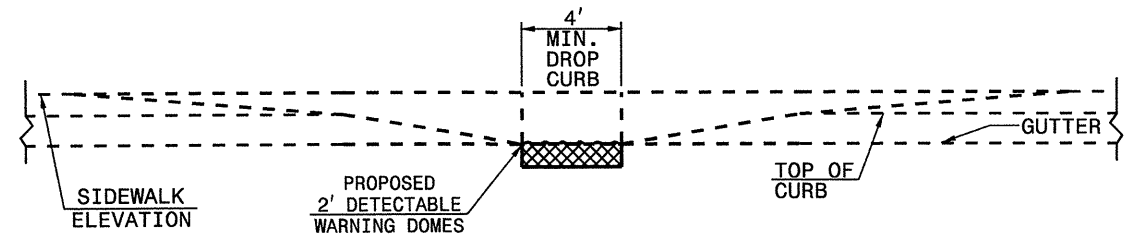


**DETECTABLE WARNING DOMES**

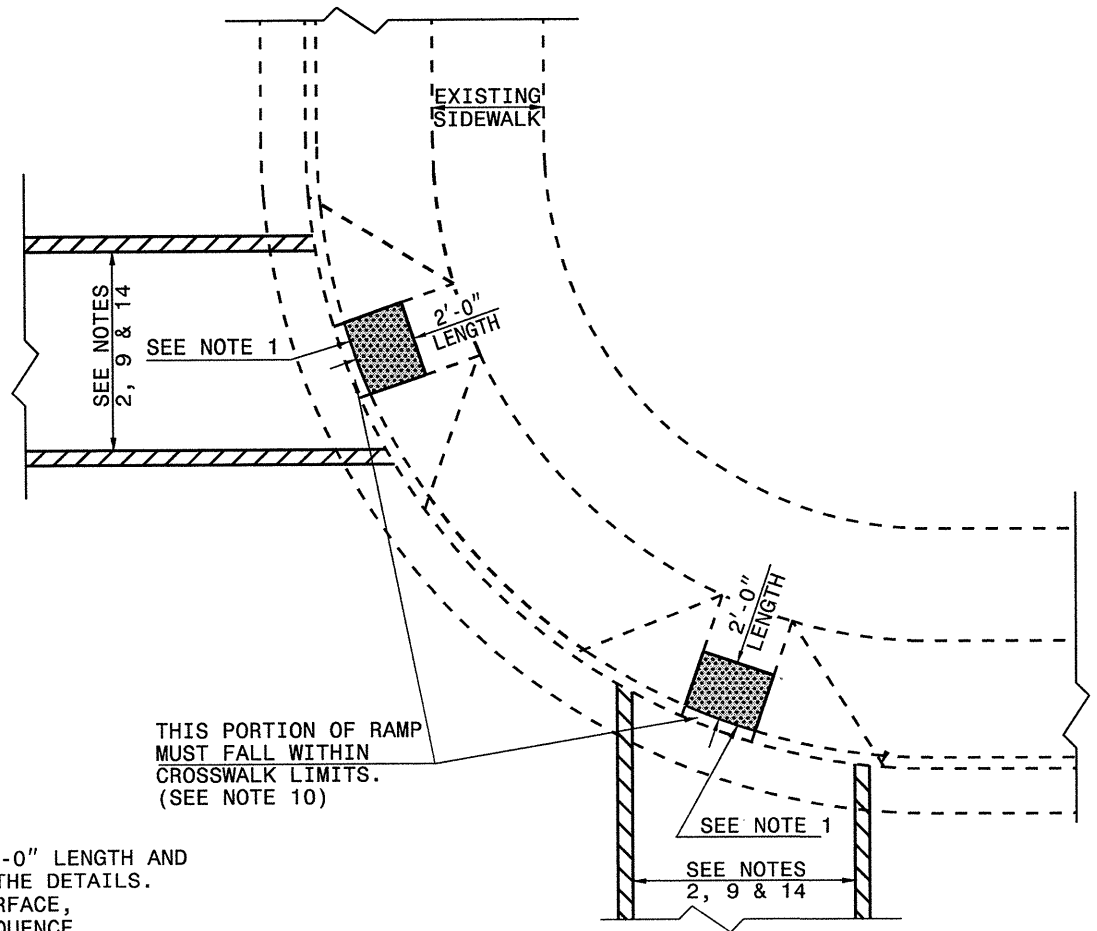
- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
  2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



**SECTION B-B**



**SECTION A-A**



**PLAN VIEW**

DUAL RAMPS  
ANY RADII  
(40" MIN. FLOOR WIDTH)

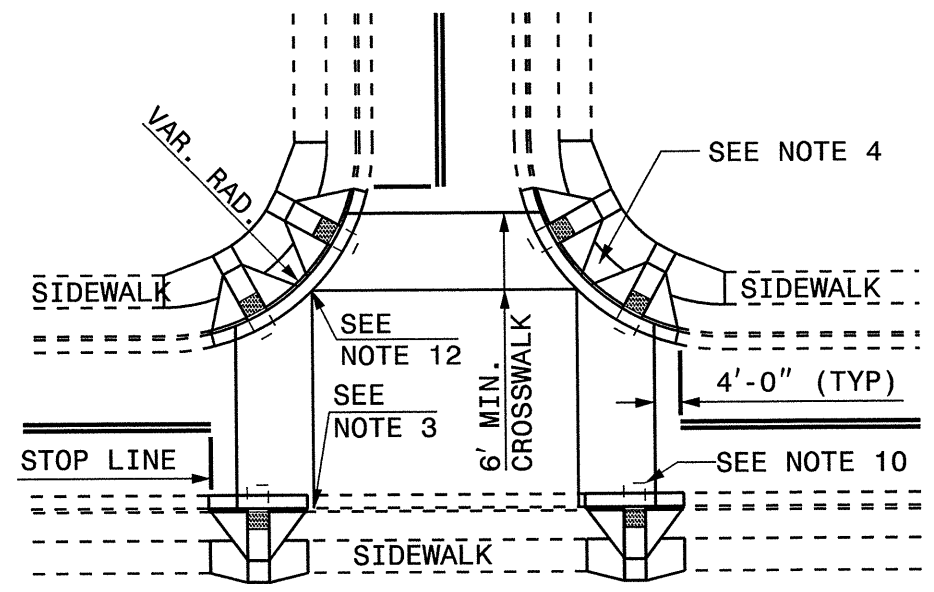
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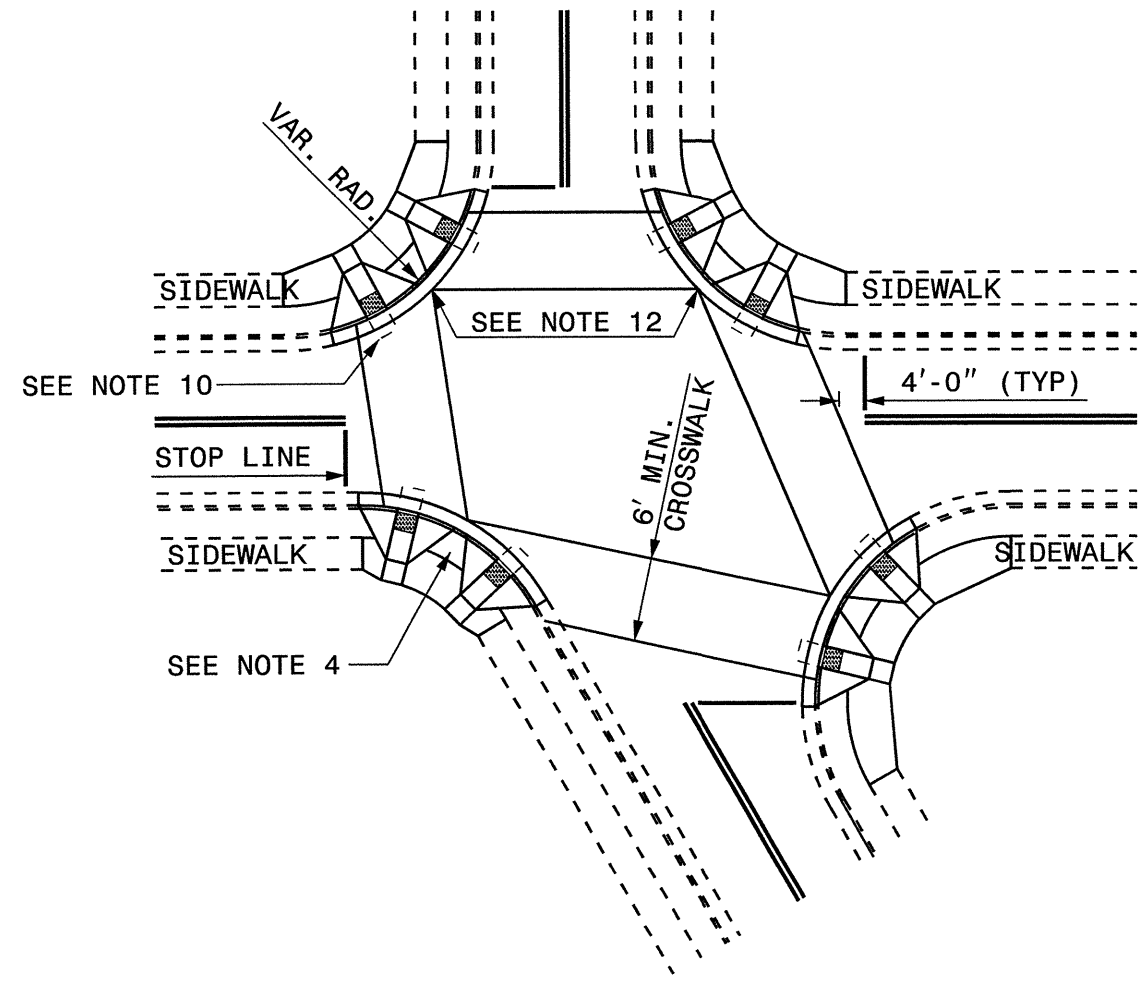
ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

**CURB RAMPS AND EXISTING SIDEWALK**

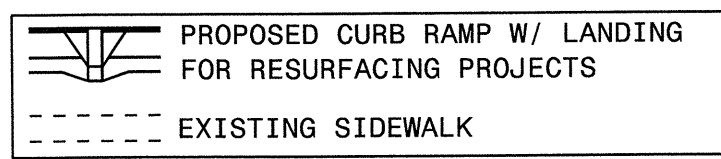


DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS



DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

**RESURFACING PROJECTS**



ALLOWABLE LOCATIONS  
DUAL RAMP RADII.....ANY

**CURB RAMP AND EXISTING SIDEWALK**

NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'x5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

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ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER

ENGLISH DETAIL DRAWING FOR  
**CURB RAMP**  
EXISTING CURB AND GUTTER



PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10601.44, 10CR.10601.45 10CR.10601.46, ETC.	31	33

### SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	5" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	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 EXIST. CURB RAMP EA	ADI. OF CATCH BASIN EA	ADI. OF DROP INLET EA	ADI. OF MANHOLES EA	ADI. OF METER OR VALVE BOX EA	PORTABLE LIGHTING LS	TEMPORARY SILT FENCE LF	MATTING (EROSION CONTROL) SY	WATTLE LF	POLYACRYLAMIDE (PAM) LB		
10CR.10601.44	Mecklenburg	1	NORTH TRYON STREET (US29/NC49) NORTHBOUND	FROM PAVEMENT JOINT +/- 0.4 MILES NORTH OF OLD CONCORD RD TO REAGAN DRIVE (SR 2620)	1,2,3	NO	0.9	41	50		1.10	19,008					1,682		100	700	9.00				2	2	*					
TOTAL FOR PROJ NO. 10CR.10601.44																																
10CR.10601.45	Mecklenburg	2	NORTH TRYON STREET (US 29 / NC 49) SOUTHBOUND	FROM OLD CONCORD RD TO REAGAN DRIVE (SR 2620)	4, 5, 6	NO	1.4	39	20		0.20	36,960					3,052		185	1,125	4.00				2	2	*					
TOTAL FOR PROJ NO. 10CR.10601.45																																
10CR.10601.46	Mecklenburg	3	TRYON STREET (US 29)	FROM BRIDGE OVER I-485 TO W.T. HARRIS (NC 24)	7, 8, 9	NO	2.14	60	400		7.00	75,328					6,658		395	1,800	11.00				10	12	*					
TOTAL FOR PROJ NO. 10CR.10601.46																																
10CR.10601.47	Mecklenburg	4	PROVIDENCE RD (NC 16)	FROM QUEENS RD TO INDEPENDENCE BLVD (US 74)	10	NO	1.45	45.5				38,705					3,423		205	1,000	33.00				3		*					
TOTAL FOR PROJ NO. 10CR.10601.47																																
10CR.10601.48	Mecklenburg	5	MCDOWELL STREET (NC 27)	7TH STREET TO WESTMOREHEAD STREET (NC 27)	10, 11	NO	0.95	60				33,440					2,956		175	600	30.00				2	2	*					
TOTAL FOR PROJ NO. 10CR.10601.48																																
10CR.10601.49	Mecklenburg	6	WEST MOREHEAD STREET (NC 27)	FROM I-77 TO MCDOWELL STREET (NC 27)	10	NO	1.45	53				45,085					3,796		225	1,000	27.00						*					
TOTAL FOR PROJ NO. 10CR.10601.49																																
10CR.10601.50	Mecklenburg	7	INDEPENDENCE BLVD (US 74)	FROM BRIAR CREEK DR TO EASTWAY DRIVE (SR 2940)	11	NO	0.9	96				50,688					4,477		265	800							*					
TOTAL FOR PROJ NO. 10CR.10601.50																																
10CR.10601.51	Mecklenburg	8	ALBEMARLE RD (NC 27) EASTBOUND	FROM PAVEMENT JOINT +/- 200' WEST OF REDDMAN RD TO PAVEMENT JOINT EAST OF HARRIS BLVD (NC 24)	12	NO	1.43	41.5				34,816					3,080		185	1,000	22.00				2	2	*					
TOTAL FOR PROJ NO. 10CR.10601.51																																
10CR.10601.52	Mecklenburg	9	ALBEMARLE RD (NC 24/27) WESTBOUND	FROM PAVEMENT JOINT EAST OF HARRIS BLVD TO PAVEMENT JOINT WEST OF REGAL OAKS DRIVE	13	NO	0.35	42				8,624					763		50	245	2.00				1	1	*					
TOTAL FOR PROJ NO. 10CR.10601.52																																
10CR.10601.53	Mecklenburg	10	ALBEMARLE RD (NC 24/27)	FROM PAVEMENT JOINT AT CIRCUMFERENTIAL RD TO PAVEMENT JOINT WEST OF WILGROVE-MINTHILL RD (SR 5223)	11, 14	NO	1.35	58	400		2.70	45,936					4,060		240	900	20.00						*					
TOTAL FOR PROJ NO. 10CR.10601.53																																
10CR.10601.54	Mecklenburg	11	OLD STATESVILLE RD (NC 115)	FROM FUTURE VERHOFF RD (SR 2695) TO PAVEMENT JOINT SOUTH OF GILEAD RD (SR 2136)	10, 15, 16,	NO	1	34	30	35	0.90	8,000		1,000	200		1,766		105	700	2.00	3			3			75	35.00	0.50		
TOTAL FOR PROJ NO. 10CR.10601.54																																
10CR.10601.55	Mecklenburg	12	OLD STATESVILLE RD (NC 115)	FROM SOUTH OF CORNELIUS CITY LIMITS TO NORTH OF CORNELIUS CITY LIMITS	10, 17	NO	2.9	30	5		0.60	51,040					4,520		270	1,700	32.00				10	3	2					
TOTAL FOR PROJ NO. 10CR.10601.55																																
10CR.10601.56	Mecklenburg	13	OLD STATESVILLE RD (NC 115)	FROM PAVEMENT JOINT NORTH OF GILEAD RD (SR 2136) TO PAVEMENT JOINT AT RAMAHS CHURCH RD (SR 2439)	10	NO	0.65	42				16,016					1,417		85	450	2.00				2							
TOTAL FOR PROJ NO. 10CR.10601.56																																
10CR.10601.57	Mecklenburg	14	OLD STATESVILLE RD (NC 115)	FROM NORTH OF CORNELIUS CITY LIMITS TO IREDELL COUNTY LINE	15	NO	0.25	26.5	15		0.50				300		344		25	185								100	50.00	0.50		
TOTAL FOR PROJ NO. 10CR.10601.57																																
10CR.10601.58	Mecklenburg	15	STATESVILLE RD (US 21)	FROM LAKEVIEW RD (SR 2112) TO W.T. HARRIS BLVD (NC 24)	15	NO	0.73	38	40	75	1.00				1,550		1,440		300	105	450							*	50	50	50.00	1.00
TOTAL FOR PROJ NO. 10CR.10601.58																																
10CR.10601.59	Mecklenburg	16	STATESVILLE RD (US 21)	FROM PAVEMENT JOINT +/- 0.1 MILE NORTH OF BAILEY RD TO PAVEMENT JOINT +/- 0.4 MILES NORTH OF WESTMORELAND RD (SR 2147)	15	NO	0.85	30	50	50	1.20				850		1,325		400	105	625								100	50	100.00	1.00
TOTAL FOR PROJ NO. 10CR.10601.59																																
10CR.10601.60	Mecklenburg	17	PINEVILLE-MATTHEWS RD (NC 51)	FROM POLK STREET TO PARK RD (SR 3687)	10, 11	NO	1	95				55,733					4,922		295	900	12.00				2	2	*					
TOTAL FOR PROJ NO. 10CR.10601.60																																
10CR.10601.61	Mecklenburg	18	SAM FURR RD (NC 73)	EAST OF WEST CATAWBA AVENUE (SR 5544)	18, 19	NO	0.12	70	10		0.20		4,928		1,185	435			85								*	50	15	25.00	1.00	
TOTAL FOR PROJ NO. 10CR.10601.61																																
10CR.20601.132	Mecklenburg	19	CHANCELOT PARK DRIVE (SR 5316)	FROM UNIVERSITY CITY BLVD (NC 49 TO W.T. HARRIS BLVD (NC 24)	10, 11	NO	0.27	41				6,494					575		35	175	4.00						*					
TOTAL FOR PROJ NO. 10CR.20601.132																																
10CR.10601.62	Mecklenburg	20	RAMPS FROM W.T. HARRIS BLVD (NC 24) TO UNIVERSITY CITY BLVD (NC 49)	ON AND OFF RAMPS	20, 21	NO	0.85	26	50		0.25	12,965					1,149		70	600							*					
TOTAL FOR PROJ NO. 10CR.10601.62																																
10CR.10601.63	Mecklenburg	21	W.T. HARRIS BLVD (NC 24)	FROM RAILROAD BRIDGE TO PAVEMENT JOINT AT PLAZA (SR 2935)	10, 11	NO	2.4	76				107,008					9,003		535	1,400	54.00				6	6	*					
TOTAL FOR PROJ NO. 10CR.10601.63																																
10CR.10601.64	Mecklenburg	22	UNIVERSITY CITY BLVD (NC 49)	FROM MECKLENBURG COUNTY LINE TO PAVEMENT JOINT AT OLD CONCORD RD	22, 23, 24, 25	NO	2.43	95	300	150	9.00			4,000	6,000		11,391		400	700	1,400	13.00					*	200	150	200.00	2.00	
TOTAL FOR PROJ NO. 10CR.10601.64																																
GRAND TOTAL							25.77		1,370	310	24.65	645,846	4,928	5,000	8,900	1,185	72,234	1,100	4,440	17,755	277.00	3	10	38	31	1.00	400	440	460.00	6.00		

PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10601.44, 10CR.10601.45 10CR.10601.46, ETC.	32	33

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	458900000-N	468500000-E	468600000-E	469500000-E	469700000-E	471000000-E	472100000-E	472500000-E				481000000-E		490000000-N		490500000-N					
							TRAFFIC CONTROL LS	4" X 90 M YELLOW THERMO LF	4" X 90 M WHITE THERMO LF	4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	8" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	MERGE ARROW EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	CRYSTAL & RED MARKERS EA	YELLOW & YELLOW MARKERS EA	SNOW PLOWABLE MARKERS EA
10CR.10601.44	Mecklenburg	1	NORTH TRYON STREET (US29/NC49) NORTHBOUND	FROM PAVEMENT JOINT +/- 0.4 MILES NORTH OF OLD CONCORD RD TO REAGAN DRIVE (SR 2620)	0.9	41	*	4,400	1,200	2,700				48	8	15	9	4				240	125				
TOTAL FOR MAP NO. 1					0.9			4,400	1,200	2,700				48	8	15	9	4				240	125				
TOTAL FOR PROJ NO. 10CR.10601.44					0.9			4,400	1,200	2,700				48	8	15	9	4				240	125				
								5,600		2,700								28				365					
10CR.10601.45	Mecklenburg	2	NORTH TRYON STREET (US 29 / NC 49) SOUTHBOUND	FROM OLD CONCORD RD TO REAGAN DRIVE (SR 2620)	1.4	39	*	6,800		6,000	5,000			84	8	19	8	8				400	100				
TOTAL FOR MAP NO. 2					1.4			6,800		6,000	5,000			84	8	19	8	8					400	100			
TOTAL FOR PROJ NO. 10CR.10601.45					1.4			6,800		6,000	5,000			84	8	19	8	8					400	100			
								6,800		11,000									35				500				
10CR.10601.46	Mecklenburg	3	TRYON STREET (US 29)	FROM BRIDGE OVER I-485 TO W.T. HARRIS (NC 24)	2.14	60	*	22,000	11,000	16,500		1,250		1,700	400	24	50	25	26	6			1,225				
TOTAL FOR MAP NO. 3					2.14			22,000	11,000	16,500		1,250		1,700	400	24	50	25	26	6				1,225			
TOTAL FOR PROJ NO. 10CR.10601.46					2.14			22,000	11,000	16,500		1,250		1,700	400	24	50	25	26	6				1,225			
								33,000		16,500		1,250							107				1,225				
10CR.10601.47	Mecklenburg	4	PROVIDENCE RD (NC 16)	FROM QUEENS RD TO INDEPENDENCE BLVD (US 74)	1.45	45.5	*			9,000	15,300			700	1,400	200		15	3				400	200			
TOTAL FOR MAP NO. 4					1.45					9,000	15,300			700	1,400	200			15	3				400	200		
TOTAL FOR PROJ NO. 10CR.10601.47					1.45					9,000	15,300			700	1,400	200			15	3				400	200		
										24,300		700											600				
10CR.10601.48	Mecklenburg	5	MCDOWELL STREET (NC 27)	7TH STREET TO WESTMOREHEAD STREET (NC 27)	0.95	60	*	9,000		4,000				2,500	750			35	3		2		4,000	10,000	250		
TOTAL FOR MAP NO. 5					0.95			9,000		4,000				2,500	750				35	3		2		4,000	10,000	250	
TOTAL FOR PROJ NO. 10CR.10601.48					0.95			9,000		4,000				2,500	750				35	3		2		4,000	10,000	250	
								9,000		4,000											40		14,000		250		
10CR.10601.49	Mecklenburg	6	WEST MOREHEAD STREET (NC 27)	FROM I-77 TO MCDOWELL STREET (NC 27)	1.45	53	*	1,000		5,800	9,570	150	50	3,560	432	36	23	6				5,800	9,570	200	95		
TOTAL FOR MAP NO. 6					1.45			1,000		5,800	9,570	150	50	3,560	432	36	23	6					5,800	9,570	200	95	
TOTAL FOR PROJ NO. 10CR.10601.49					1.45			1,000		5,800	9,570	150	50	3,560	432	36	23	6					5,800	9,570	200	95	
								1,000		15,370		200									29		15,370		295		
10CR.10601.50	Mecklenburg	7	INDEPENDENCE BLVD (US 74)	FROM BRIAR CREEK DR TO EASTWAY DRIVE (SR 2940)	0.9	96	*	9,500	500	8,600				1,000				12		12		4			712		
TOTAL FOR MAP NO. 7					0.9			9,500	500	8,600				1,000					12		12		4			712	
TOTAL FOR PROJ NO. 10CR.10601.50					0.9			9,500	500	8,600				1,000					12		12		4			712	
								10,000		8,600												16		8,600		712	
10CR.10601.51	Mecklenburg	8	ALBEMARLE RD (NC 27) EASTBOUND	FROM PAVEMENT JOINT +/- 200' WEST OF REDDMAN RD TO PAVEMENT JOINT EAST OF HARRIS BLVD (NC 24)	1.43	41.5	*	7,500		4,500				2,000	355			25	8	4		4,500		370			
TOTAL FOR MAP NO. 8					1.43			7,500		4,500				2,000	355				25	8	4		4,500		370		
TOTAL FOR PROJ NO. 10CR.10601.51					1.43			7,500		4,500				2,000	355				25	8	4		4,500		370		
								7,500		4,500												37		4,500		370	
10CR.10601.52	Mecklenburg	9	ALBEMARLE RD (NC 24/27) WESTBOUND	FROM PAVEMENT JOINT EAST OF HARRIS BLVD TO PAVEMENT JOINT WEST OF REGAL OAKS DRIVE	0.35	42	*	1,800		1,674				240	110			7	4	8							
TOTAL FOR MAP NO. 9					0.35			1,800		1,674				240	110				7	4	8						
TOTAL FOR PROJ NO. 10CR.10601.52					0.35			1,800		1,674				240	110				7	4	8						
								1,800		1,674																	
10CR.10601.53	Mecklenburg	10	ALBEMARLE RD (NC 24/27)	FROM PAVEMENT JOINT AT CIRCUMFERENTIAL RD TO PAVEMENT JOINT WEST OF WILGROVE-MINTHILL RD (SR 5223)	1.35	58	*	13,000		9,000				400				25	8	16	2						
TOTAL FOR MAP NO. 10					1.35			13,000		9,000				400					25	8	16	2					
TOTAL FOR PROJ NO. 10CR.10601.53					1.35			13,000		9,000				400					25	8	16	2					
								13,000		9,000			400														
10CR.10601.54	Mecklenburg	11	OLD STATESVILLE RD (NC 115)	FROM FUTURE VERHOFF RD (SR 2695) TO PAVEMENT JOINT SOUTH OF GILEAD RD (SR 2136)	1	34	*		4,750	350	10,500												3,750	25	150		
TOTAL FOR MAP NO. 11					1				4,750	350	10,500													3,750	25	150	
TOTAL FOR PROJ NO. 10CR.10601.54					1				4,750	350	10,500													3,750	25	150	
								4,750		10,850			250											3,750		175	
SHEET TOTAL					13.32		*	75,000	17,450	68,124	40,370	1,800	1,000	13,900	2,579	88	218	86	66	14			22,900	23,320	3,110	670	712
								92,450		108,494		2,800												46,220		3,780	



PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10601.44, 10CR.10601.45 10CR.10601.46, ETC.	33	33

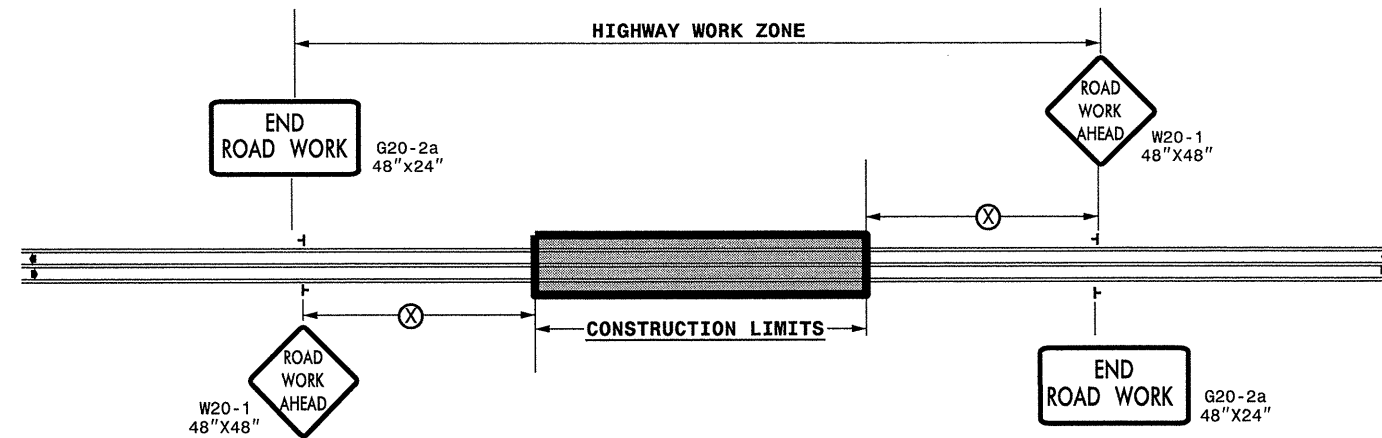
**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4589000000-N	4685000000-E	4686000000-E	4695000000-E	4697000000-E	4710000000-E	4721000000-E	4725000000-E					4810000000-E		4900000000-N		4905000000-N					
							TRAFFIC CONTROL	4" X 90 M YELLOW THERMO LF	4" X 90 M WHITE THERMO LF	4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	8" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	MERGE ARROW EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	CRYSTAL & RED MARKERS EA	YELLOW & YELLOW MARKERS EA	SNOW PLOWABLE MARKERS EA	
10CR.10601.55	Mecklenburg	12	OLD STATESVILLE RD (NC 115)	FROM SOUTH OF CORNELIUS CITY LIMITS TO NORTH OF CORNELIUS CITY LIMITS	2.9	30	*		34,604		31,000		1,850	144	4	2					50	400						
TOTAL FOR MAP NO. 12							2.9			34,604		31,000		1,850	144	4	2					50	400					
TOTAL FOR PROJ NO. 10CR.10601.55							2.9			34,604		31,000		1,850	144	4	2					50	400					
10CR.10601.56	Mecklenburg	13	OLD STATESVILLE RD (NC 115)	FROM PAVEMENT JOINT NORTH OF GILEAD RD (SR 2136) TO PAVEMENT JOINT AT RAMAH CHURCH RD (SR 2439)	0.65	42			1,000	1,000	6,900												90					
TOTAL FOR MAP NO. 13							0.65			1,000	1,000	6,900												90				
TOTAL FOR PROJ NO. 10CR.10601.56							0.65			1,000	1,000	6,900												90				
10CR.10601.57	Mecklenburg	14	OLD STATESVILLE RD (NC 115)	FROM NORTH OF CORNELIUS CITY LIMITS TO IREDELL COUNTY LINE	0.25	26.5	*		2,690		2,650												35					
TOTAL FOR MAP NO. 14							0.25			2,690		2,650												35				
TOTAL FOR PROJ NO. 10CR.10601.57							0.25			2,690		2,650												35				
10CR.10601.58	Mecklenburg	15	STATESVILLE RD (US 21)	FROM LAKEVIEW RD (SR 2112) TO W.T. HARRIS BLVD (NC 24)	0.73	38	*		7,000	1,000	9,000	300		45	16	2					20	100						
TOTAL FOR MAP NO. 15							0.73			7,000	1,000	9,000	300		16	2						20	100					
TOTAL FOR PROJ NO. 10CR.10601.58							0.73			7,000	1,000	9,000	300		16	2						20	100					
10CR.10601.59	Mecklenburg	16	STATESVILLE RD (US 21)	FROM PAVEMENT JOINT +/- 0.1 MILE NORTH OF BAILEY RD TO PAVEMENT JOINT +/- 0.4 MILES NORTH OF WESTMORELAND RD (SR 2147)	0.85	30	*		7,800	300	7,800	80	200	75	6													
TOTAL FOR MAP NO. 16							0.85			7,800	300	7,800	80	200	75	6												
TOTAL FOR PROJ NO. 10CR.10601.59							0.85			7,800	300	7,800	80	200	75	6												
10CR.10601.60	Mecklenburg	17	PINEVILLE-MATTHEWS RD (NC 51)	FROM POLK STREET TO PARK RD (SR 3687)	1	95	*		6,000	11,000	2,000	1,000	60	360	470	38	20	62	3		11,000	2,000						
TOTAL FOR MAP NO. 17							1			6,000	11,000	2,000	1,000	60	360	470	38	20	62	3			11,000	2,000				
TOTAL FOR PROJ NO. 10CR.10601.60							1			6,000	11,000	2,000	1,000	60	360	470	38	20	62	3			11,000	2,000				
10CR.10601.61	Mecklenburg	18	SAM FURR RD (NC 73)	FROM NORMAN ISLAND DRIVE TO +/- 250' EAST OF WEST CATAWBA AVENUE (SR 5544)	0.12	70	*		500	1,000	840	500		72	4	6	3	4			1,000	500	36	6				
TOTAL FOR MAP NO. 18							0.12			500	1,000	840	500		72	4	6	3	4				1,000	500	36	6		
TOTAL FOR PROJ NO. 10CR.10601.61							0.12			500	1,000	840	500		72	4	6	3	4				1,000	500	36	6		
10CR.20601.132	Mecklenburg	19	CHANCELOT PARK DRIVE (SR 5316)	FROM UNIVERSITY CITY BLVD (NC 49) TO W.T. HARRIS BLVD (NC 24)	0.27	41	*		1,300	500	800		170	55	10						20	20						
TOTAL FOR MAP NO. 19							0.27			1,300	500	800		170	55	10								20	20			
TOTAL FOR PROJ NO. 10CR.20601.132							0.27			1,300	500	800		170	55	10								20	20			
10CR.10601.62	Mecklenburg	20	RAMPS FROM W.T. HARRIS BLVD (NC 24) TO UNIVERSITY CITY BLVD (NC 49)	ON AND OFF RAMPS	0.85	26	*		4,500	4,500	500		600	48	6	3					20							
TOTAL FOR MAP NO. 20							0.85			4,500	4,500	500		600	48	6	3							20				
TOTAL FOR PROJ NO. 10CR.10601.62							0.85			4,500	4,500	500		600	48	6	3							20				
10CR.10601.63	Mecklenburg	21	W.T. HARRIS BLVD (NC 24)	FROM RAILROAD BRIDGE TO PAVEMENT JOINT AT PLAZA (SR 2935)	2.4	76	*		16,600	15,000	2,000	150		175	225	4	51	9	14	3		1,275	50					
TOTAL FOR MAP NO. 21							2.4			16,600	15,000	2,000	150		175	225	4	51	9	14	3			1,275	50			
TOTAL FOR PROJ NO. 10CR.10601.63							2.4			16,600	15,000	2,000	150		175	225	4	51	9	14	3			1,275	50			
10CR.10601.64	Mecklenburg	22	UNIVERSITY CITY BLVD (NC 49)	FROM MECKLENBURG COUNTY LINE TO PAVEMENT JOINT AT OLD CONCORD RD	2.43	95	*		24,000	25,000	8,000	1,100		200	350	12	29	20	20	1								
TOTAL FOR MAP NO. 22							2.43			24,000	25,000	8,000	1,100		200	350	12	29	20	20	1							
TOTAL FOR PROJ NO. 10CR.10601.64							2.43			24,000	25,000	8,000	1,100		200	350	12	29	20	20	1							
SHEET TOTAL							12.45		*	52,900	83,594	38,140	62,650	2,630	430	3,185	1,484	20	166	59	100	7	2	3	12,000	2,500		
TOTAL FROM SHEET 32							13.32		*	75,000	17,450	68,124	40,370	1,800	1,000	13,900	2,579	88	218	86	66	14			22,900	23,320	3,110	670
GRAND TOTAL							25.77		1	127,900	101,044	106,264	103,020	4,430	1,430	17,085	4,063	108	384	145	166	21	2	3	34,900	25,820	4,531	1,371
										228,944	209,284			5,860					721				60,720		5,902			

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 single sheet AT 11244133

PROJ. REFERENCE NO.	SHEET NO.
10CR.10601.44- 10CR.10601.64	TCP-1

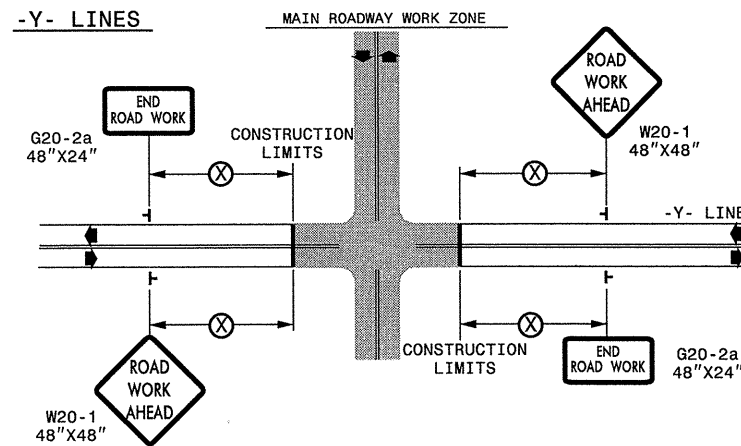
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

**ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)**



**GENERAL NOTES**

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

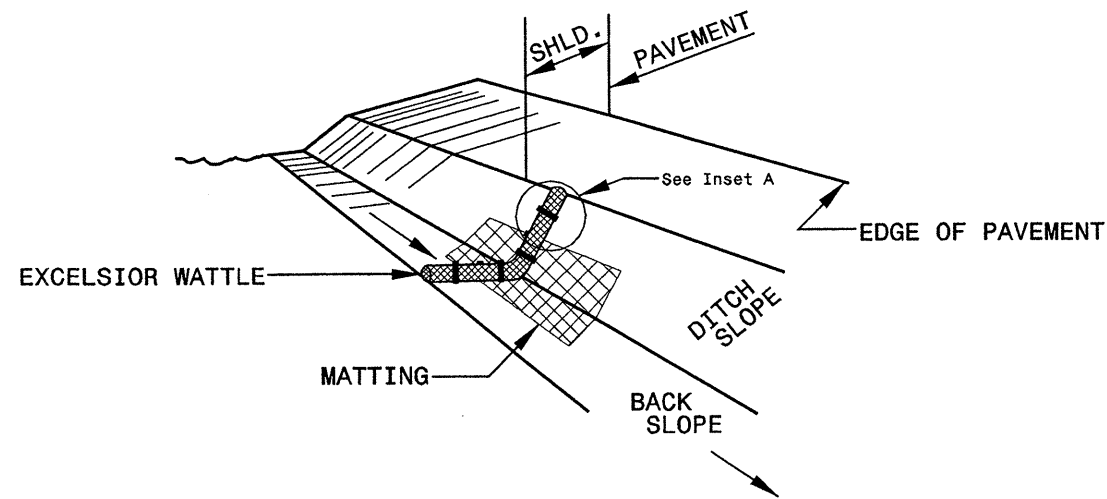
SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
			DATE: _____
DWG. BY: _____	10-98		03/04
DESIGN BY: _____	01/01		11/04
REVIEWED BY: _____	CADD		FILE

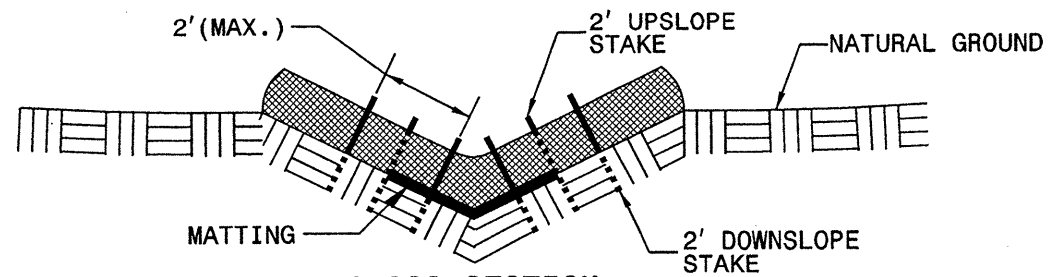


PROJECT REFERENCE NO.	SHEET NO.
	EC-
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

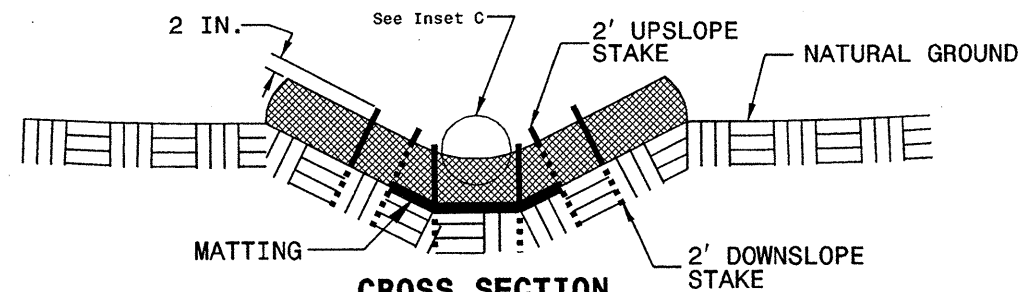
# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

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

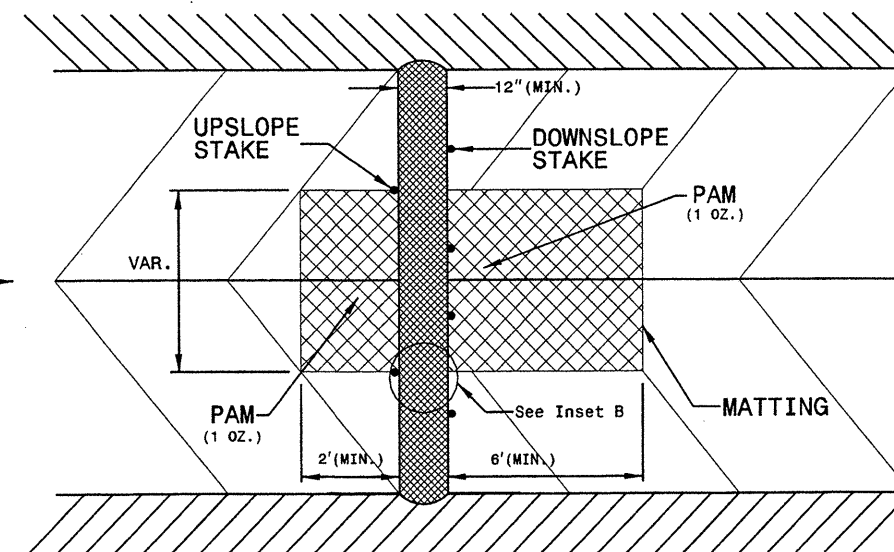
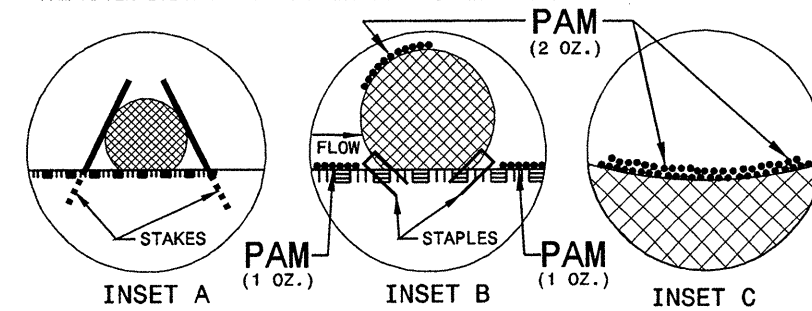
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

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

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.



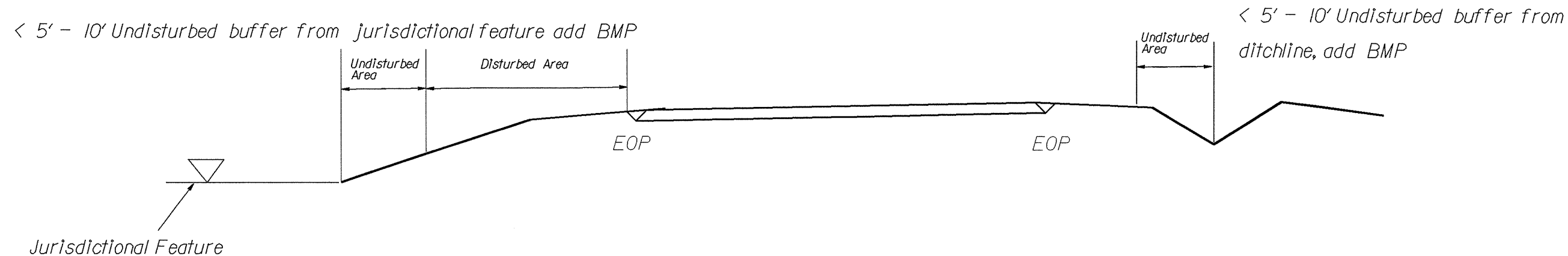
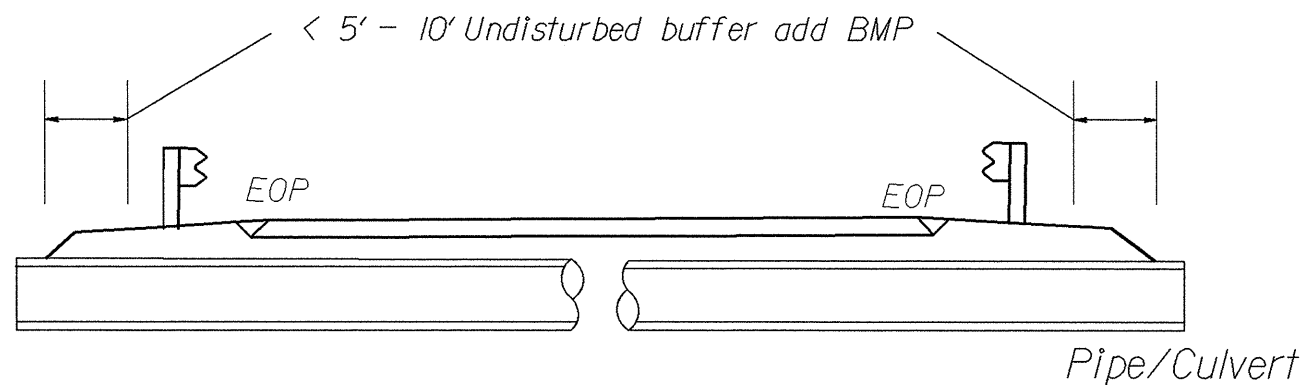
**TOP VIEW**

PROJECT REFERENCE NO.	SHEET NO.
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

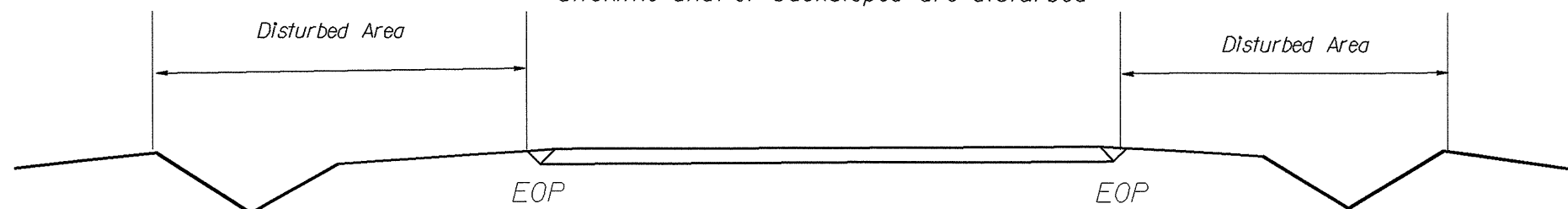
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

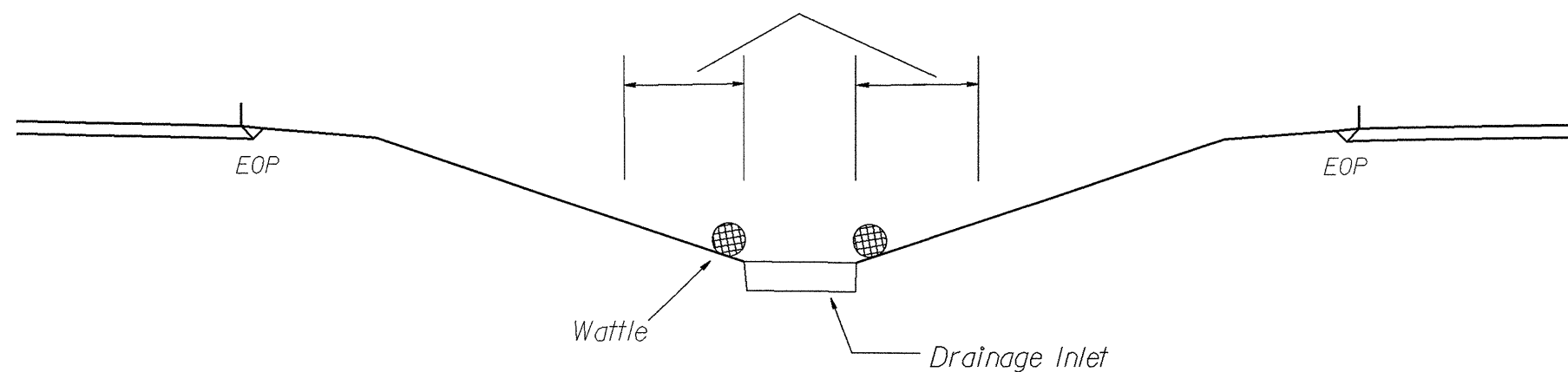
# EROSION CONTROL DETAIL



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