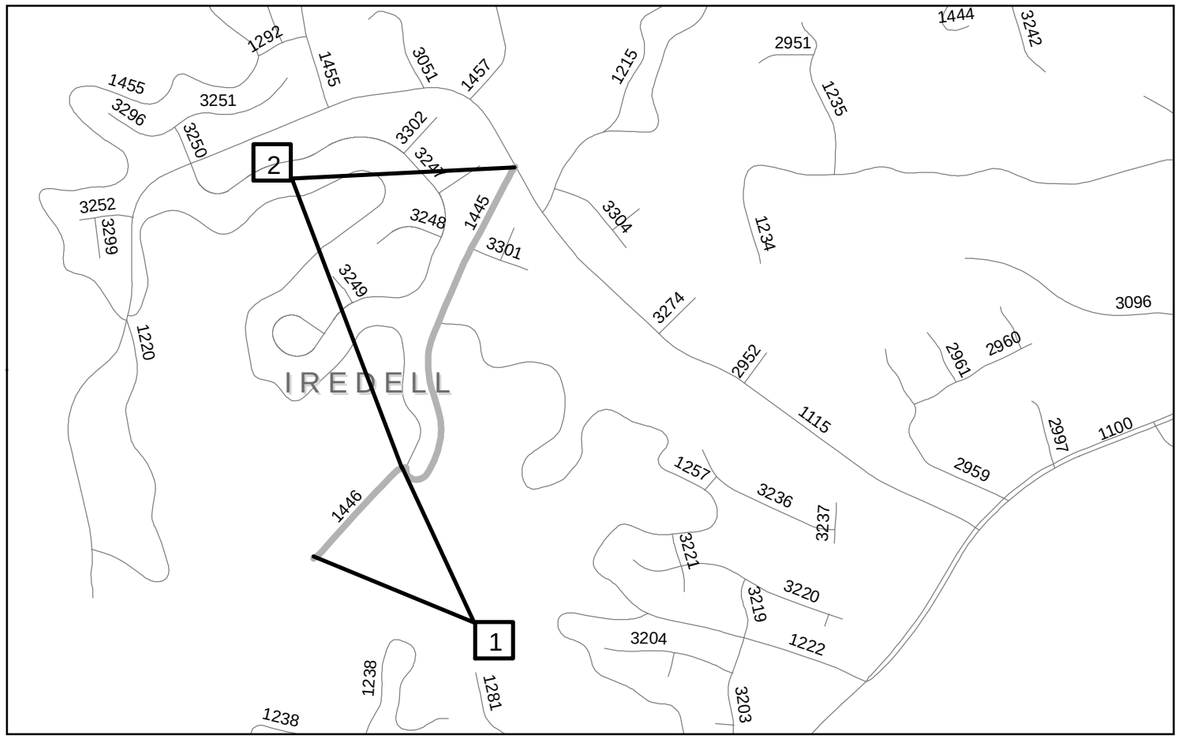
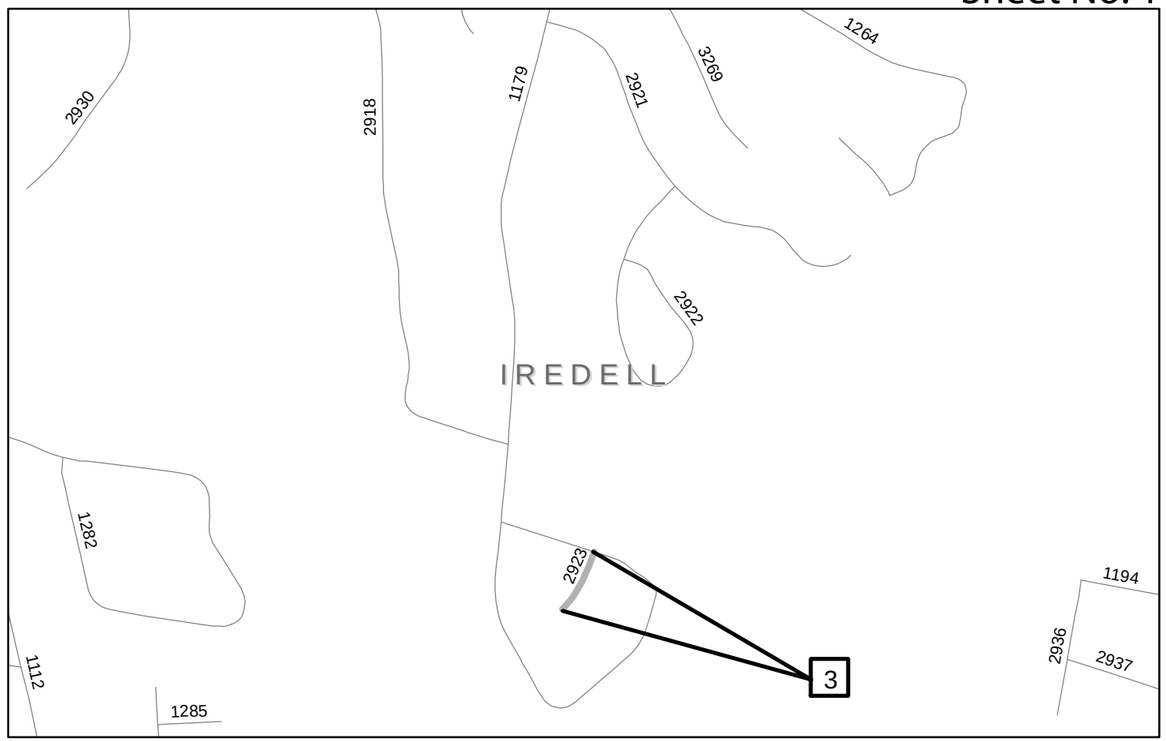
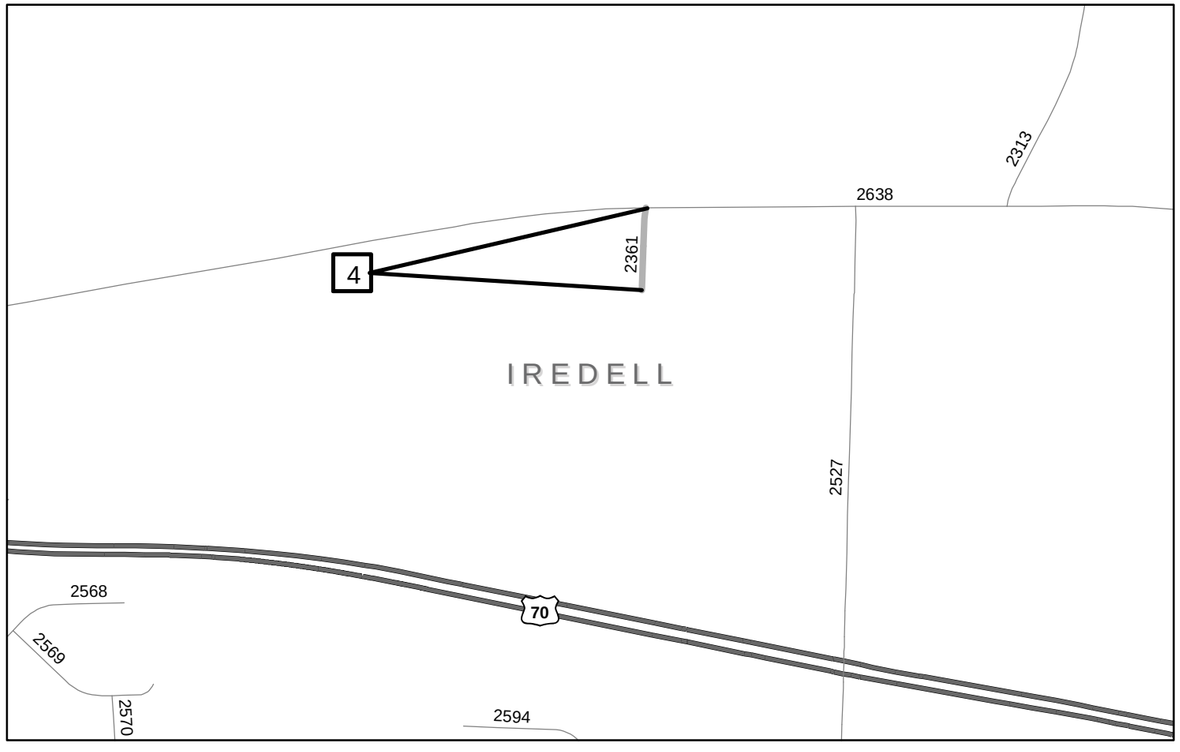
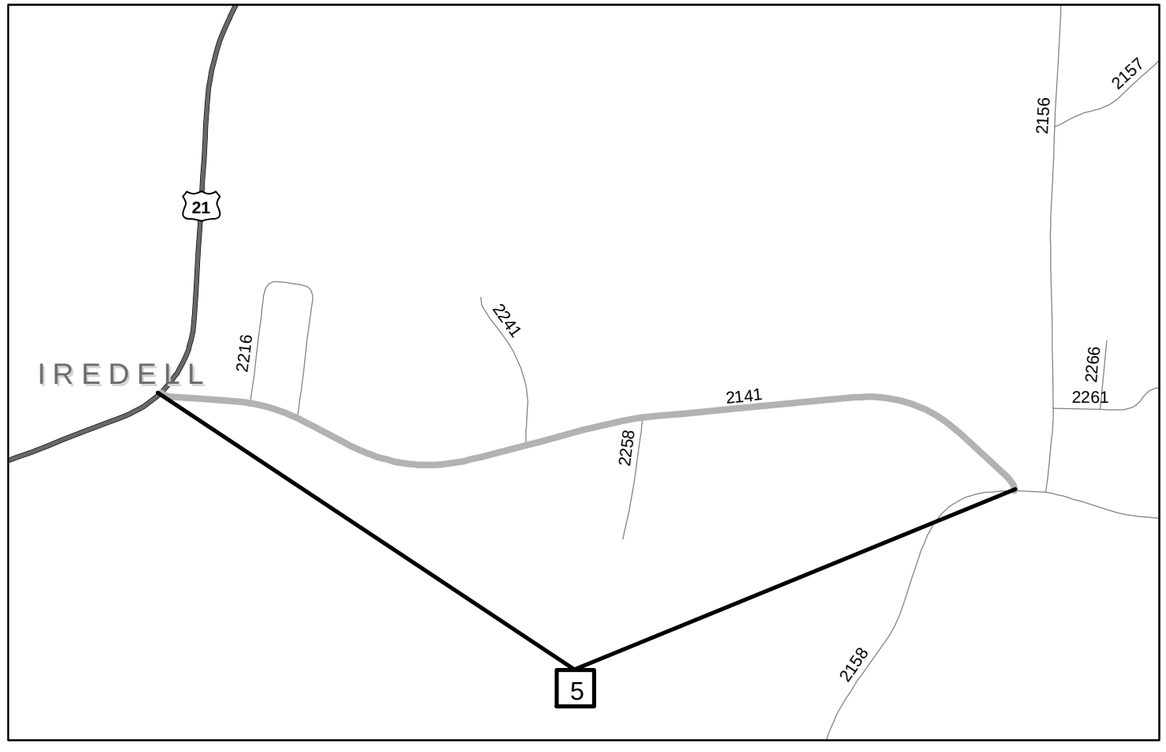
Sheet No. 1

Iredell County
2024CPT.12.05.20491





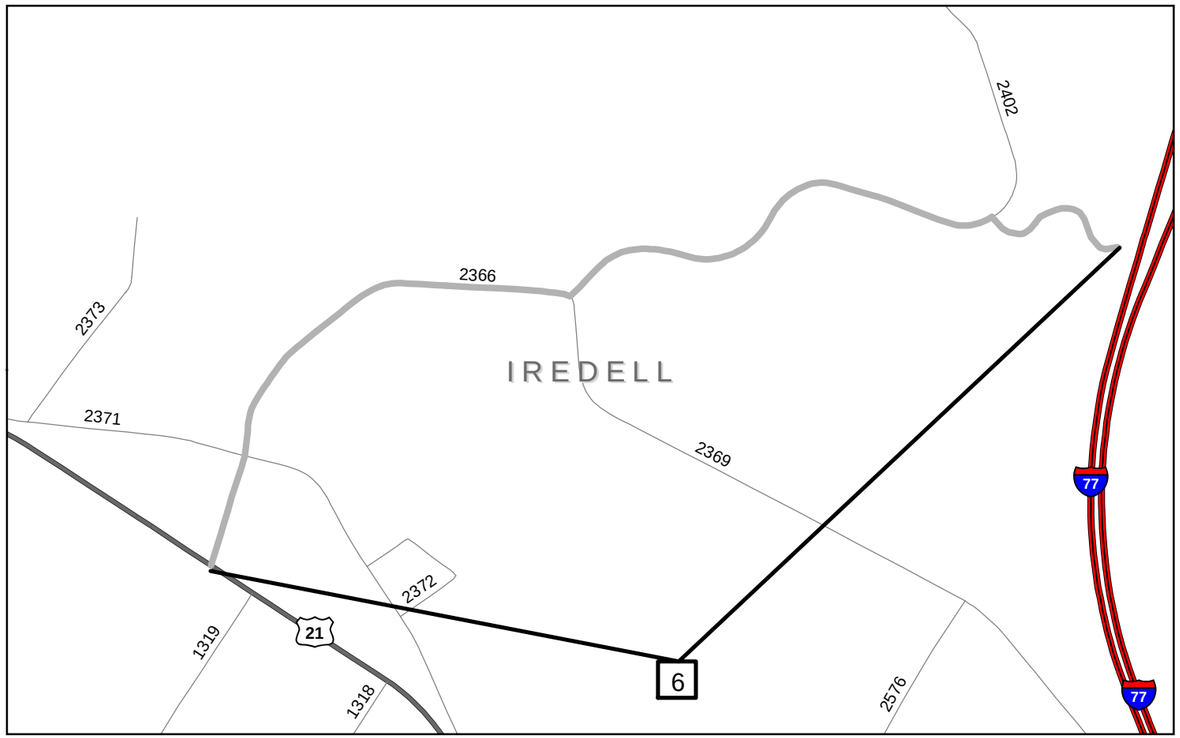


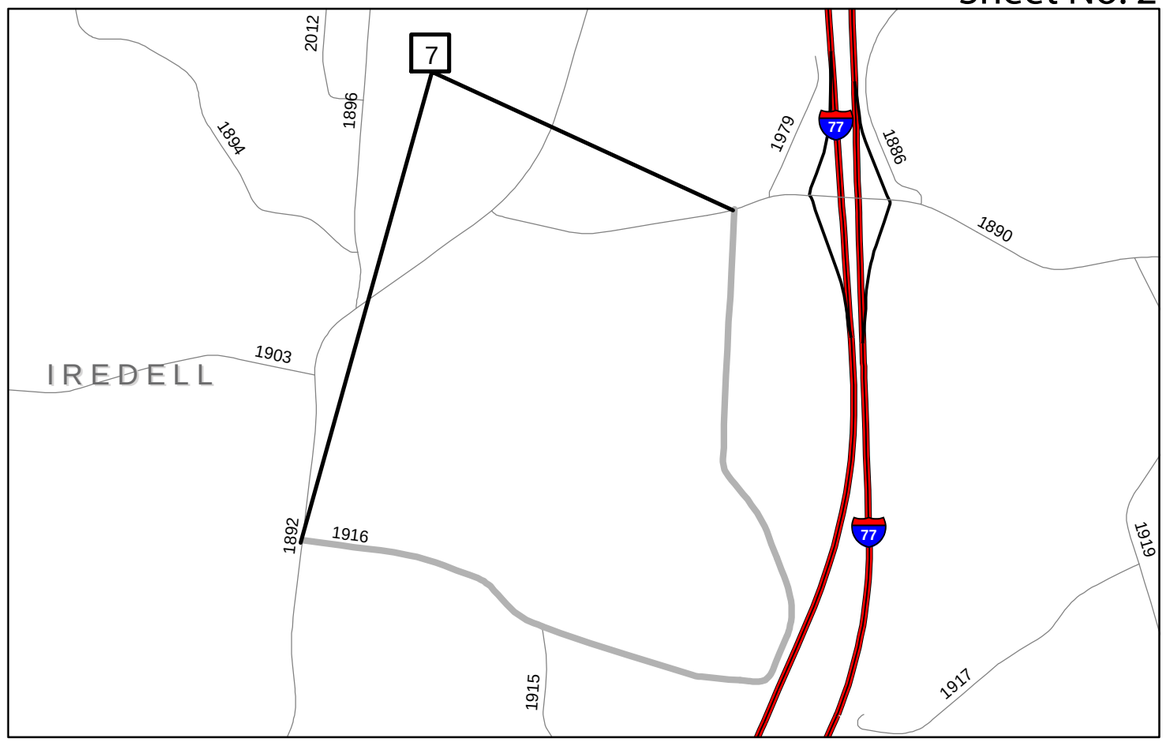


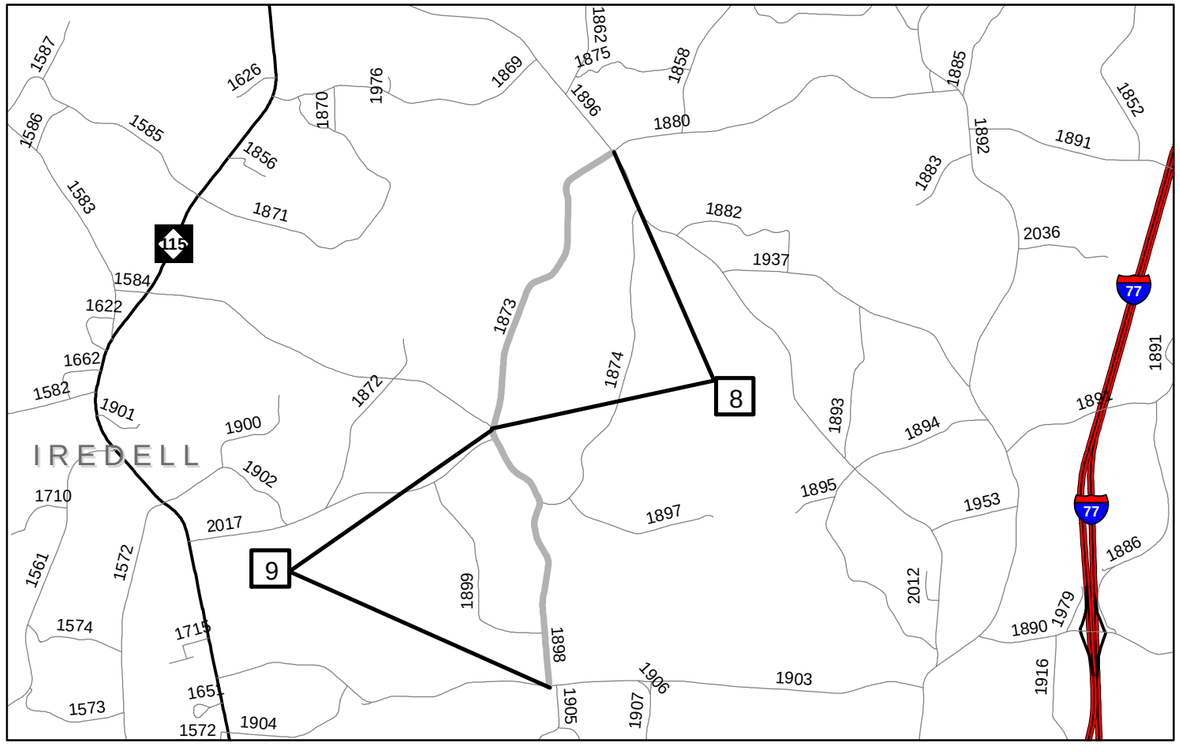
N

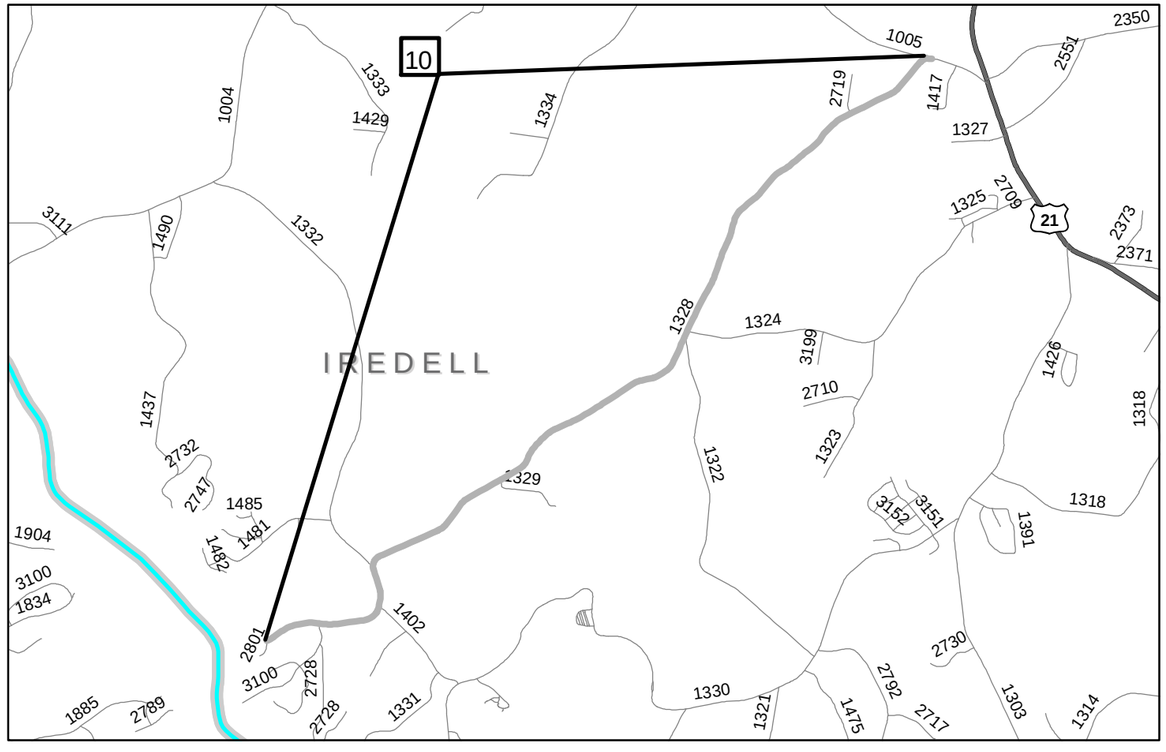
Sheet No. 2

Iredell County
2024CPT.12.05.2049





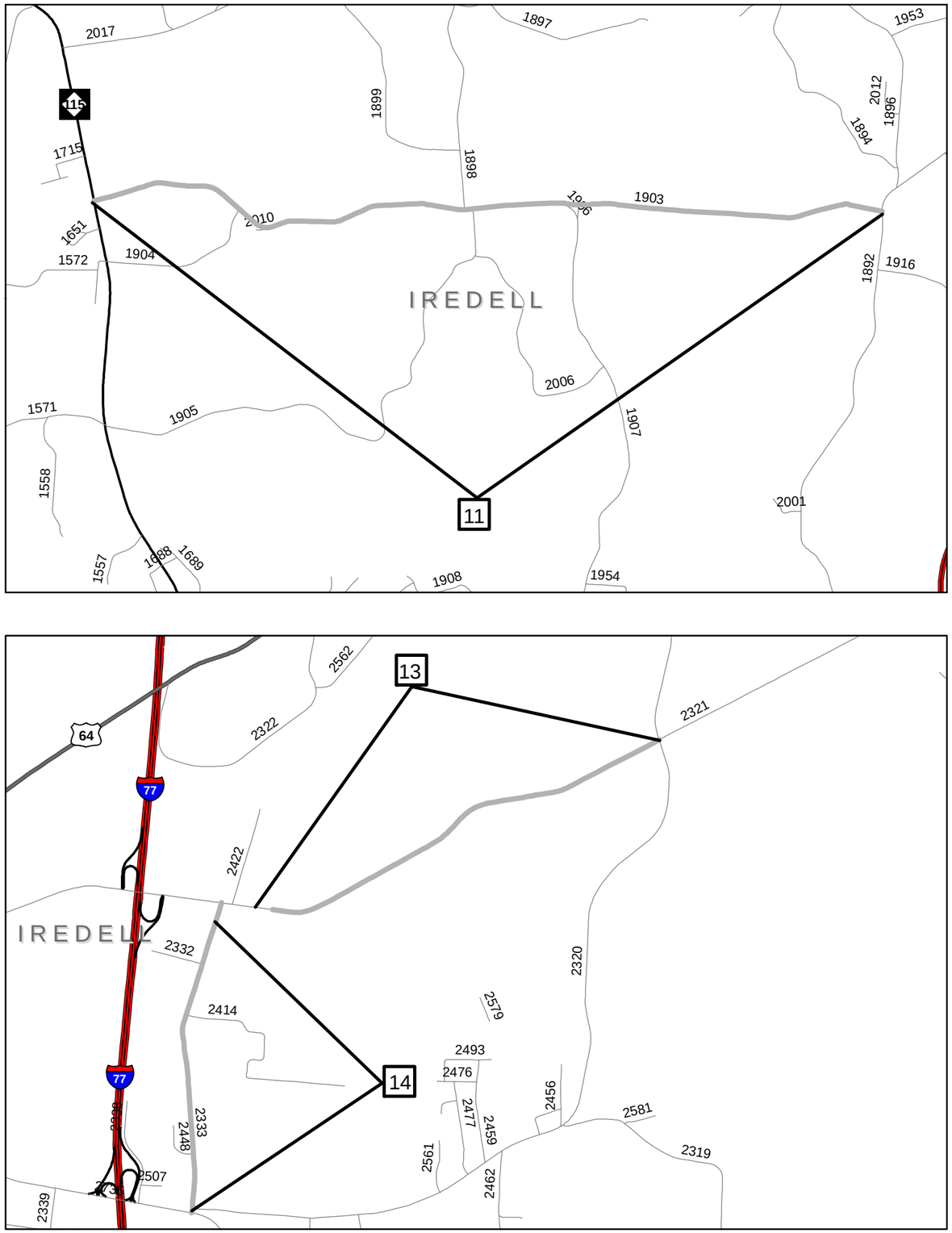




N

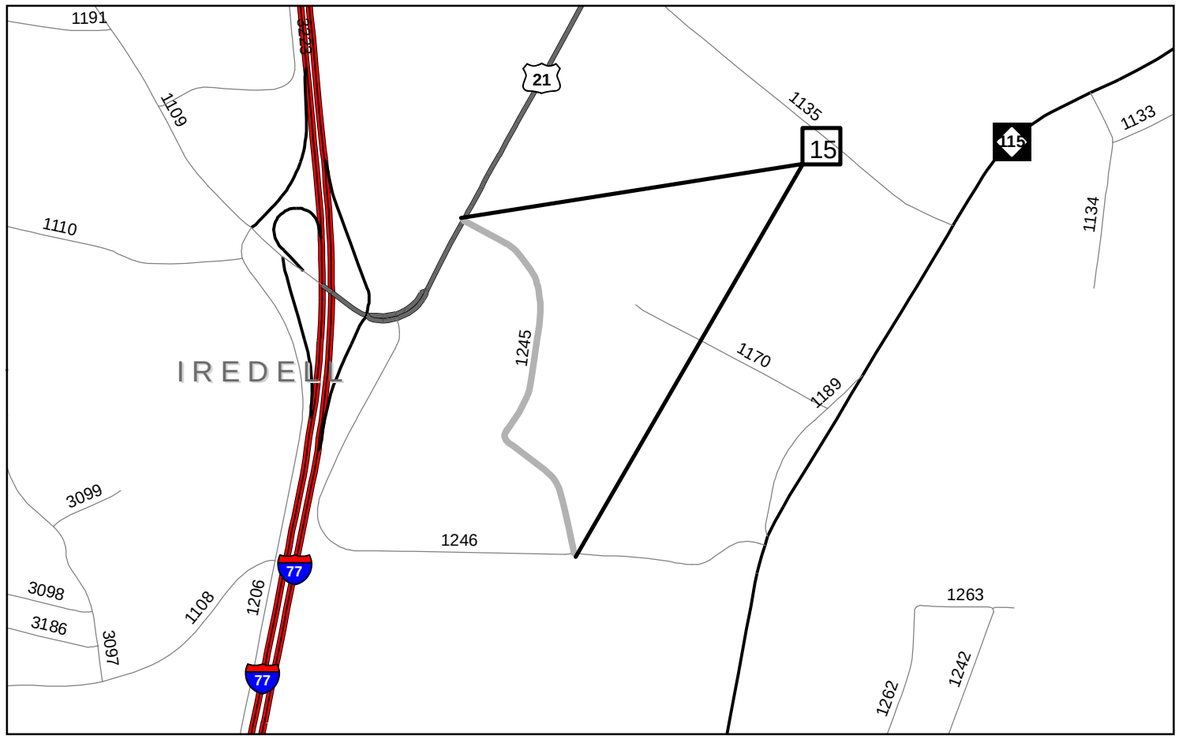
Sheet No. 3

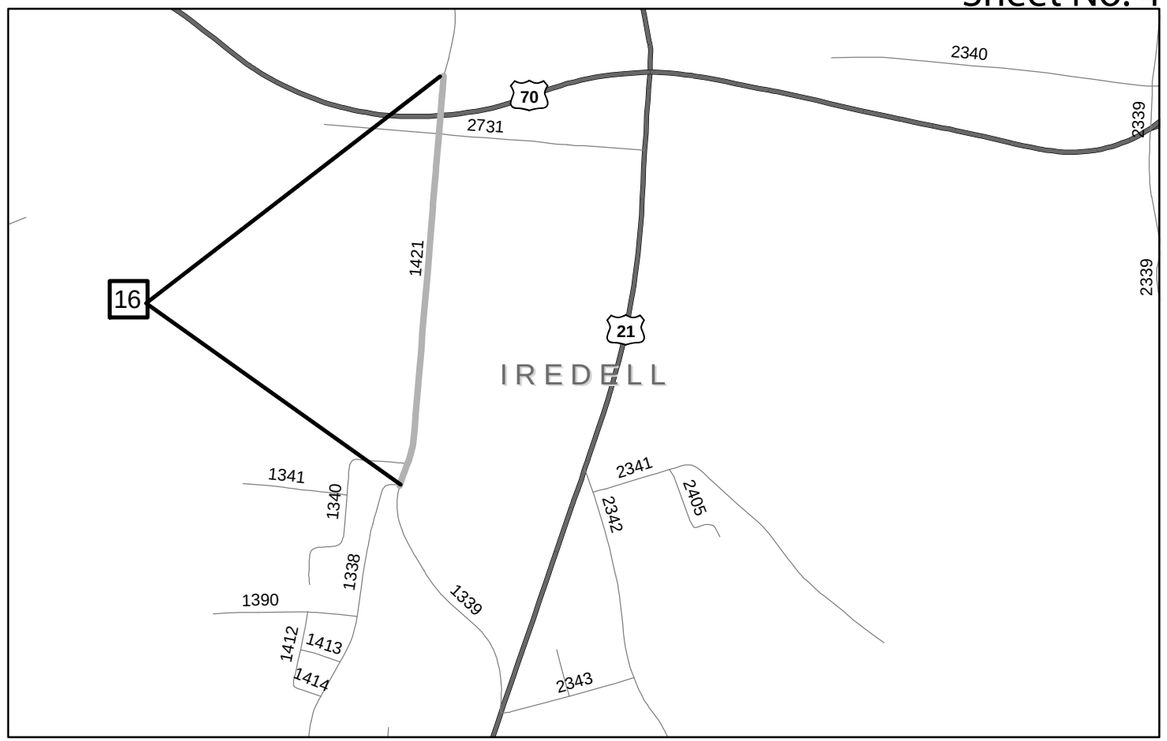
Iredell County
2024CPT.12.05.20491



N

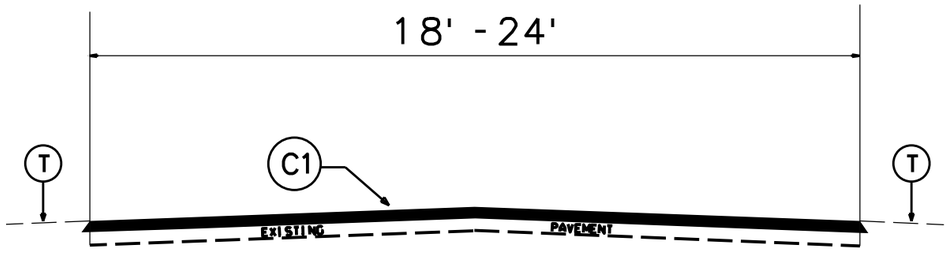
Iredell County
2024CPT.12.05.20491





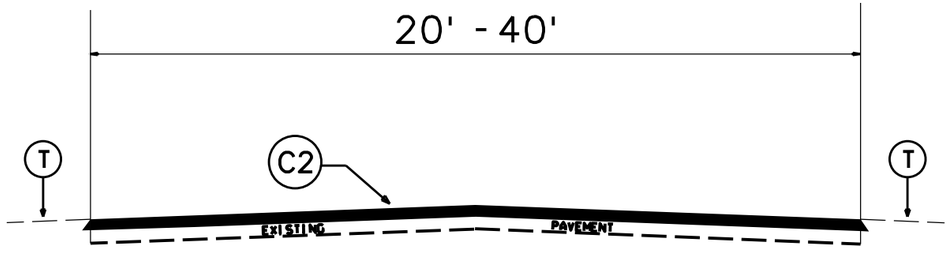
N

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY	5	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2024CPT.12.05.20491		SECONDARY RESURFACING



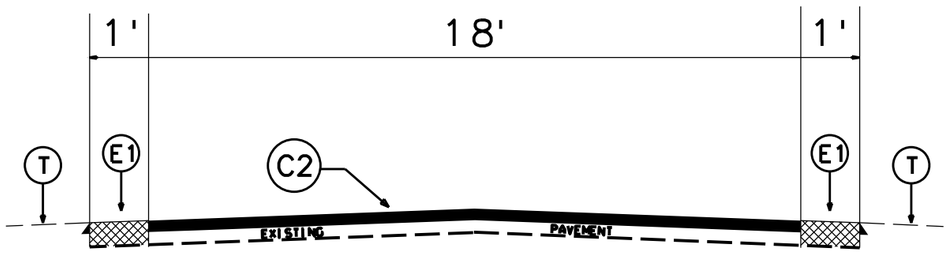
TYPICAL SECTION NO. 1

Maps 1-9: (ALL)



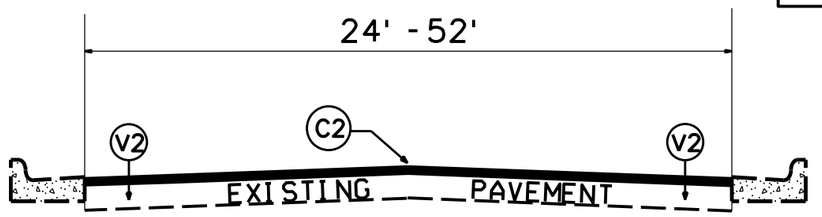
TYPICAL SECTION NO. 2

Maps 12: (ALL)
10: 0+00-252+25
13: 15+15-79+73
14: 0+00-21+46
27+81-33+37
37+95-54+91
16: 0+00-3+20



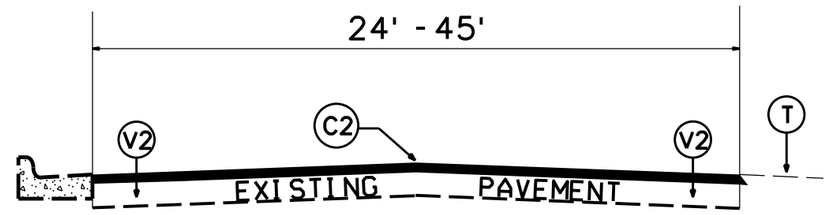
TYPICAL SECTION NO. 3

Maps 11: (ALL)



TYPICAL SECTION NO. 4

Maps 10: 252+25-259+25
13: 0+00-8+90
15: 20+08-31+68



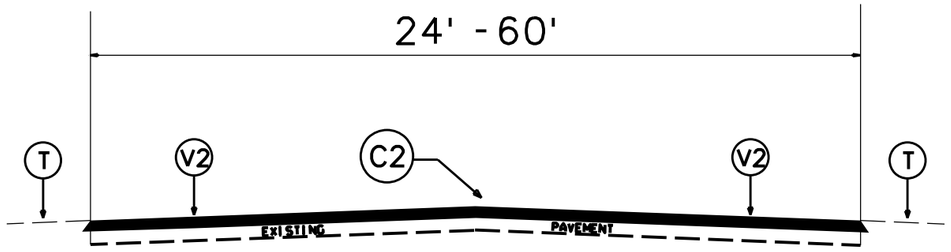
TYPICAL SECTION NO. 5

Maps 13: 8+90-15+15
14: 33+37-36+05
15: 16+50-20+08

2024-2025
Resurfacing Program
Typical Sections
Iredell County

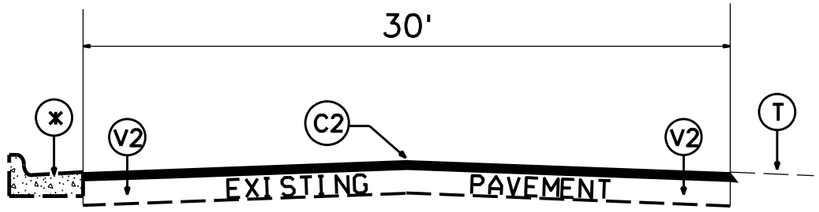
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, PLACED IN TWO 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER. SQ. YDS. PER LIFT
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
V1	MILL EXISTING ASPHALT PAVEMENT APPROX. 1" IN DEPTH
V2	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH
*	ADDITIONAL MILLING WILL BE REQUIRED TO REMOVE EXISTING ASPHALT FROM GUTTER PAN

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY	6	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2024CPT.12.05.20491		SECONDARY RESURFACING



TYPICAL SECTION NO. 6

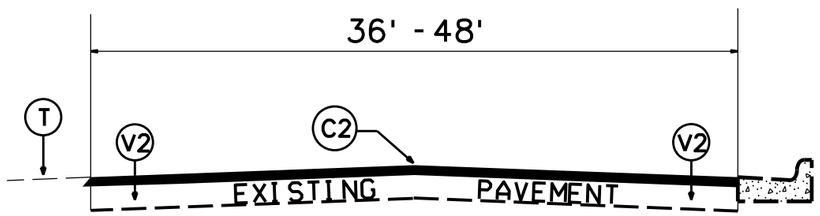
Maps 14: 21+46-27+81
15: 12+24-16+50



TYPICAL SECTION NO. 7

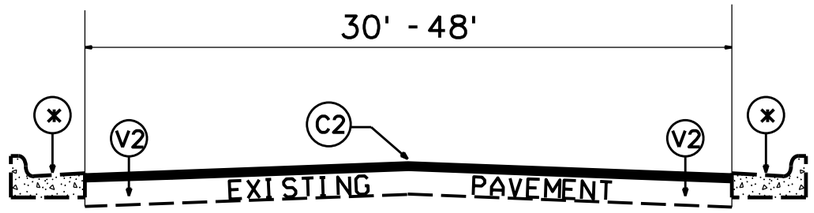
Maps 14: 36+05-37+95

*Additional milling will be required to remove existing asphalt from gutter pan



TYPICAL SECTION NO. 8

Maps 15: 0+00-12+24



TYPICAL SECTION NO. 9

Maps 16: 3+20-50+16

*Additional milling will be required to remove existing asphalt from gutter pan

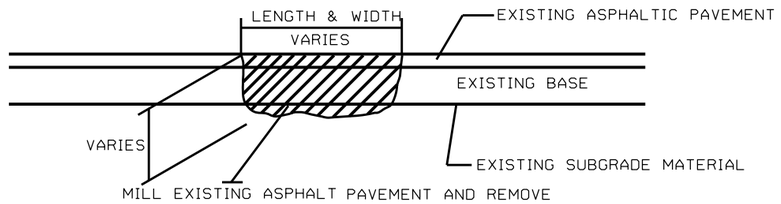
2024-2025
Resurfacing Program
Typical Sections
Iredell County

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, PLACED IN TWO 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER. SQ. YDS. PER LIFT
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
V1	MILL EXISTING ASPHALT PAVEMENT APPROX. 1" IN DEPTH
V2	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH
*	ADDITIONAL MILLING WILL BE REQUIRED TO REMOVE EXISTING ASPHALT FROM GUTTER PAN

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY	7	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2024CPT.12.05.20491		SECONDARY RESURFACING

DETAIL A

PATCHING EXISTING PAVEMENT



EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE, I19.0X AND ACSC TYPE, S9.5X AS DIRECTED BY THE ENGINEER.

DETAIL C

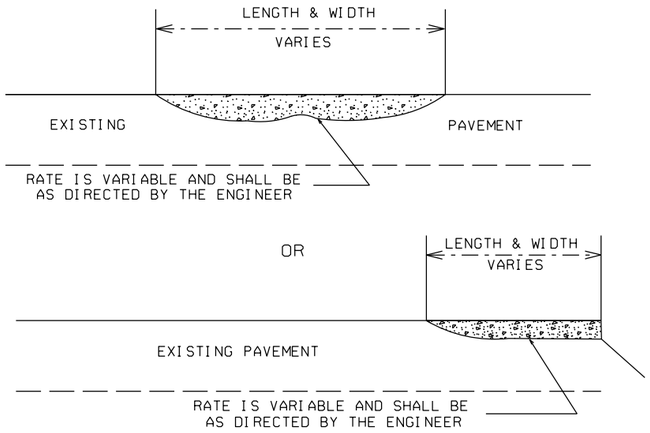
MILLING BRIDGE APPROACHES

(Map 13)

DETAIL B

ASPHALT CONCRETE SURFACE COURSE

TYPE S9.5B & S9.5C (LEVELING COURSE)

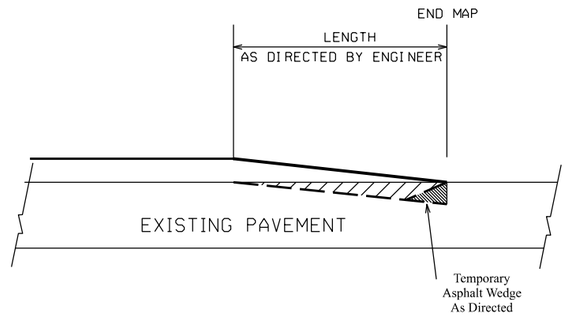


2024 - 2025

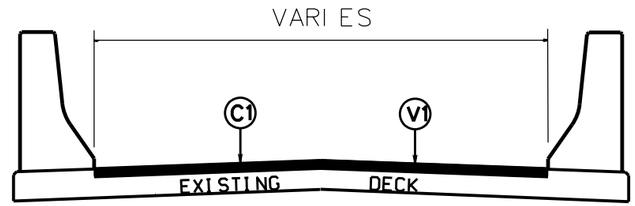
Resurfacing Program

Detail Sheet

Iredell County



TIE-IN (INCIDENTAL) MILLING DETAIL



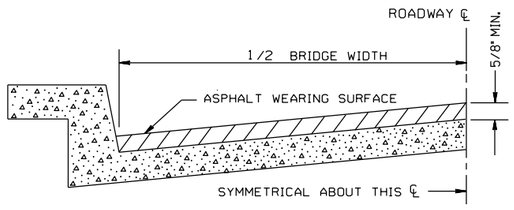
ASPHALT BRIDGE SECTION

Use for all asphalt bridges

(Maps 6, 8, 9)

DETAIL E

BRIDGE HALF TYPICAL SECTION



FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

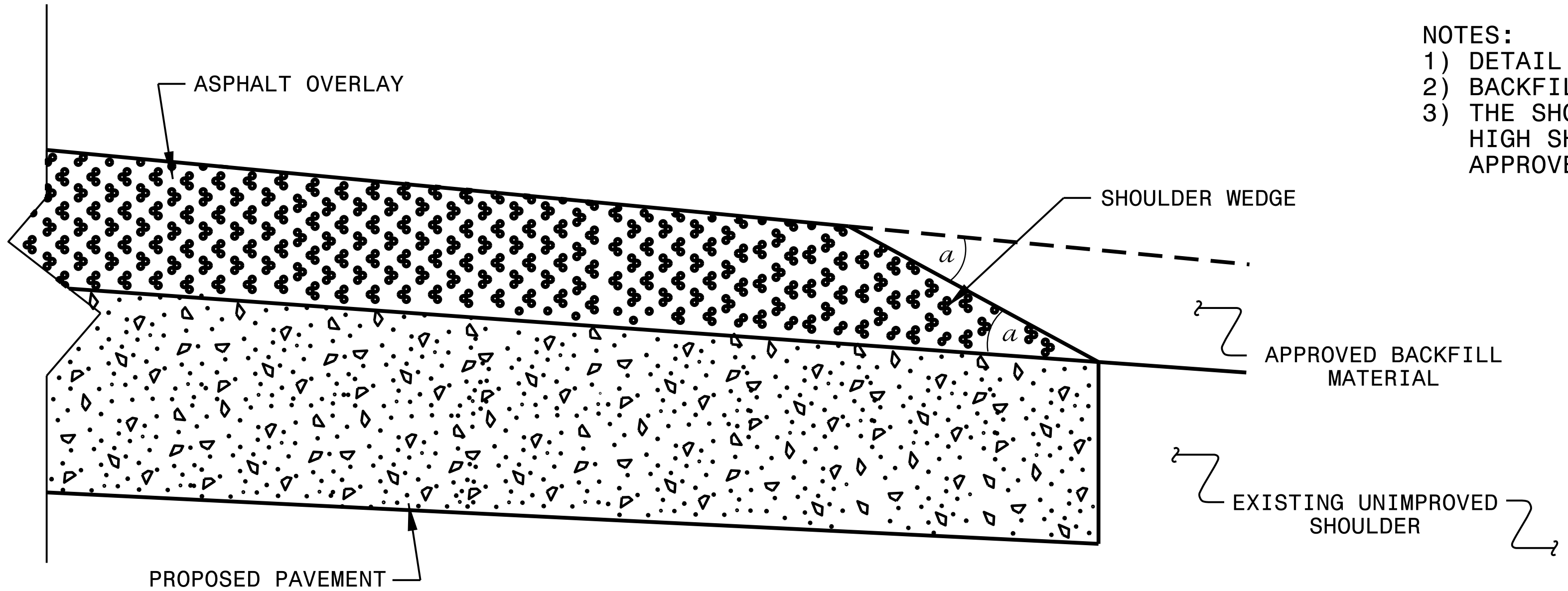
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

ALL UNPAVED S.R. ROADS TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE NOTED.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

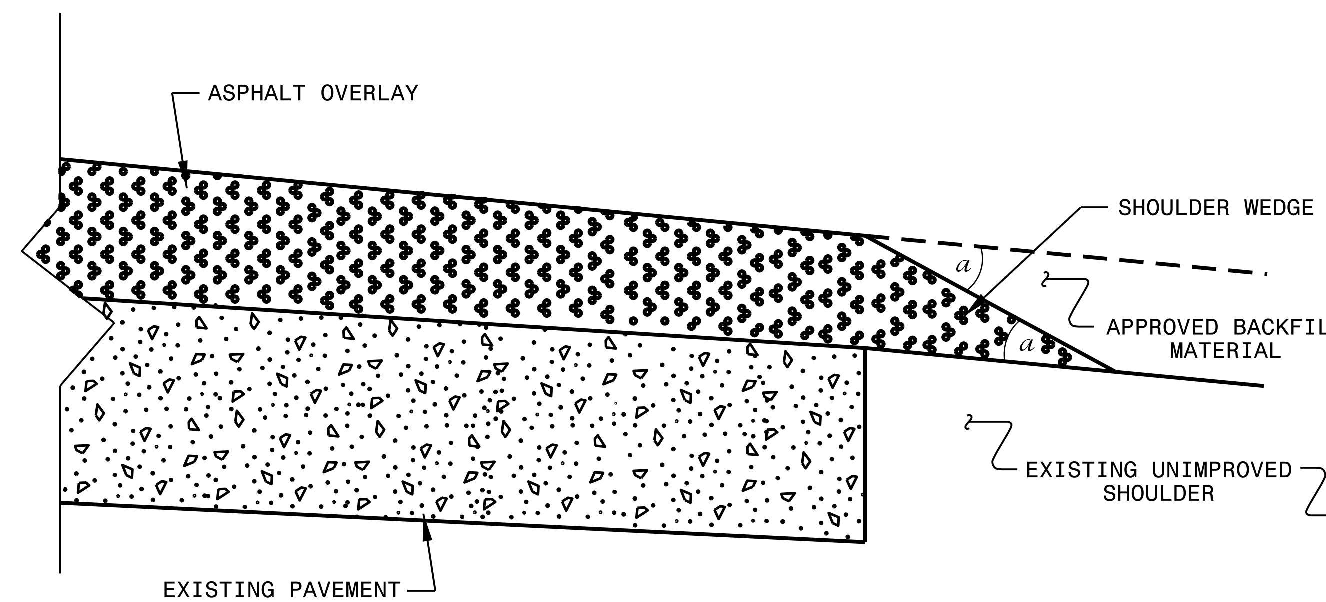
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, PLACED IN TWO 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER. SQ. YDS. PER LIFT
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
V1	MILL EXISTING ASPHALT PAVEMENT APPROX. 1" IN DEPTH
V2	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH
*	ADDITIONAL MILLING WILL BE REQUIRED TO REMOVE EXISTING ASPHALT FROM GUTTER PAN

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



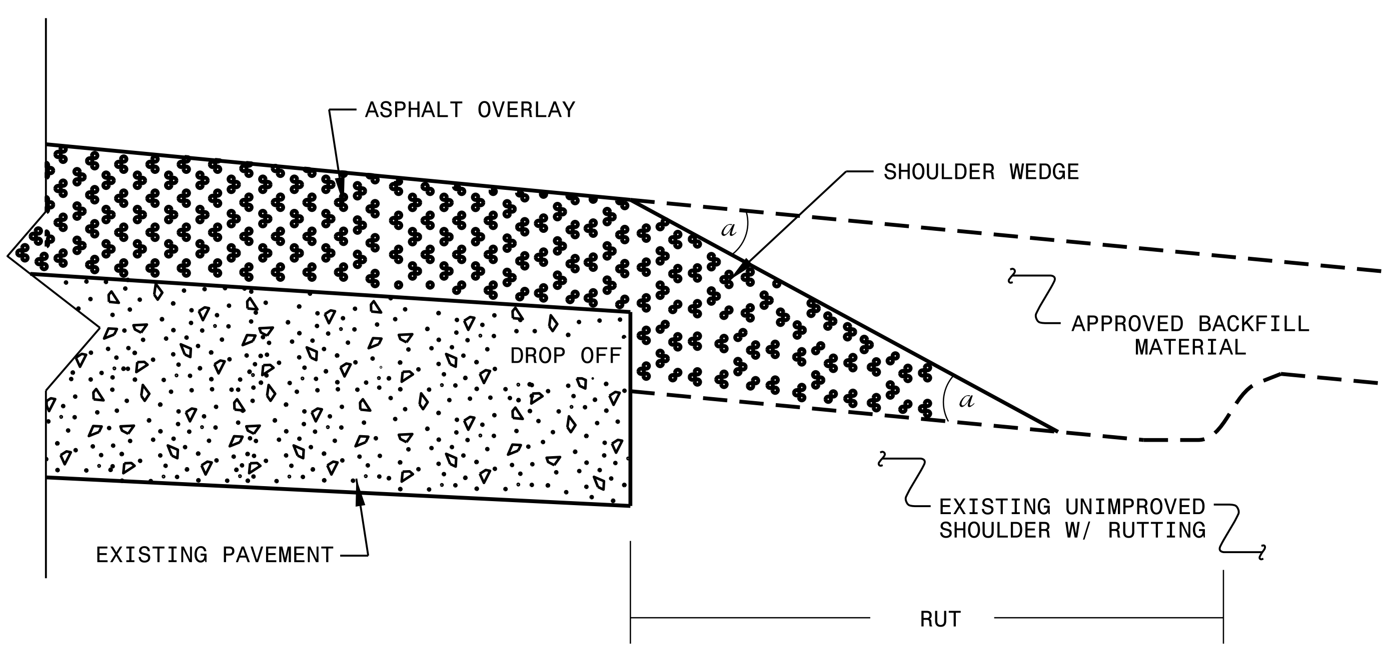
SHOULDER WEDGE DETAIL

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



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

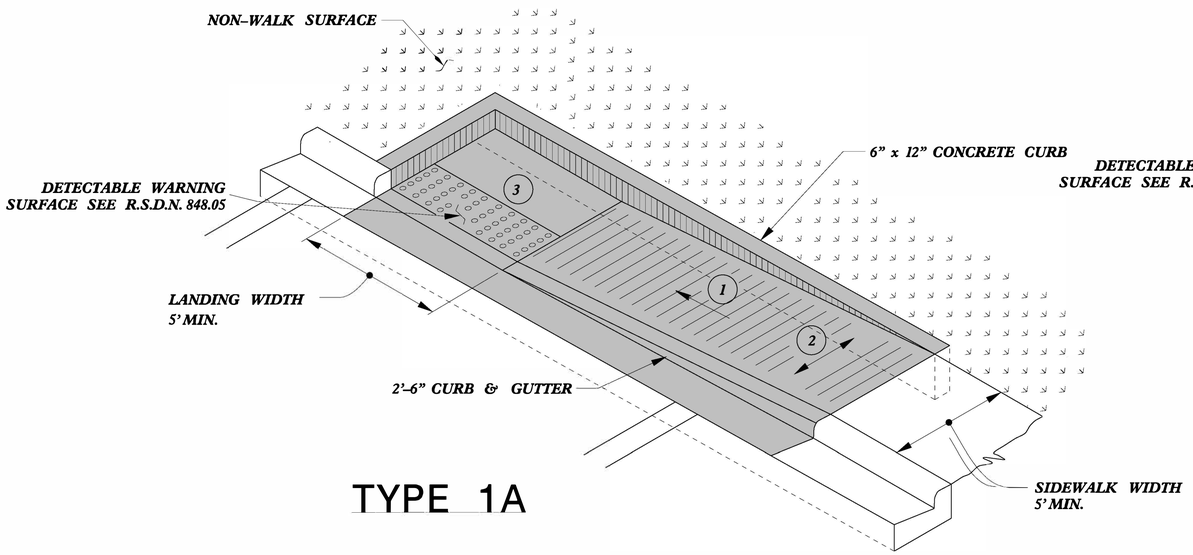
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

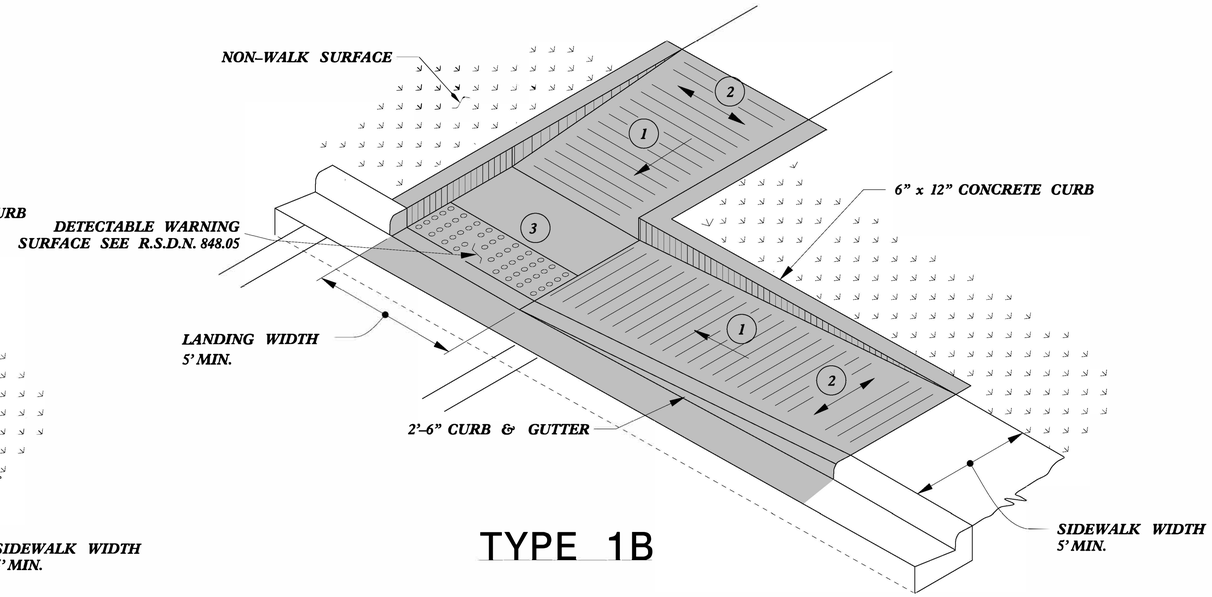
SHOULDER WEDGE DETAILS

ORIGINAL BY: T.SPELL DATE: 7-19-11
MODIFIED BY: DATE: 2/2/16
CHECKED BY: DATE:
FILE SPEC.: s:usr/details/stand/shoulderwedgedetail.dgn

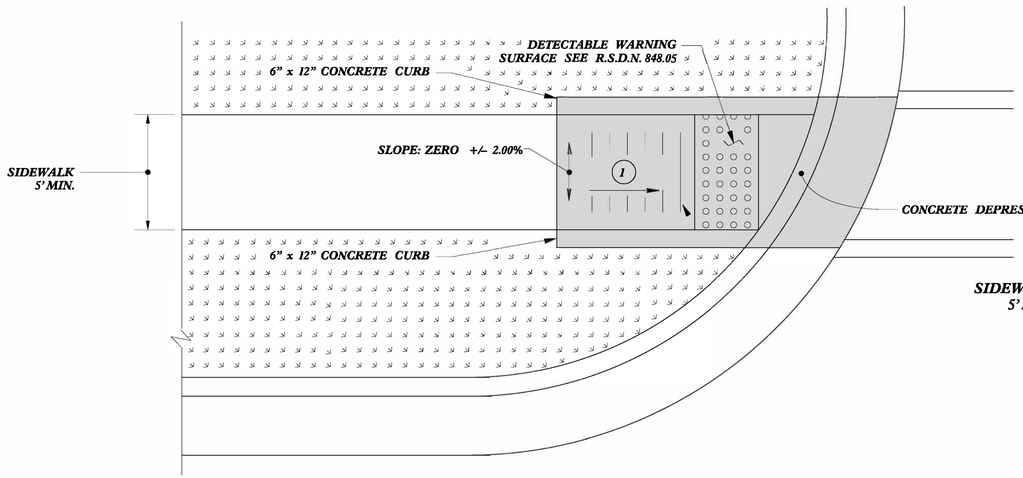
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.12.05.20491	9



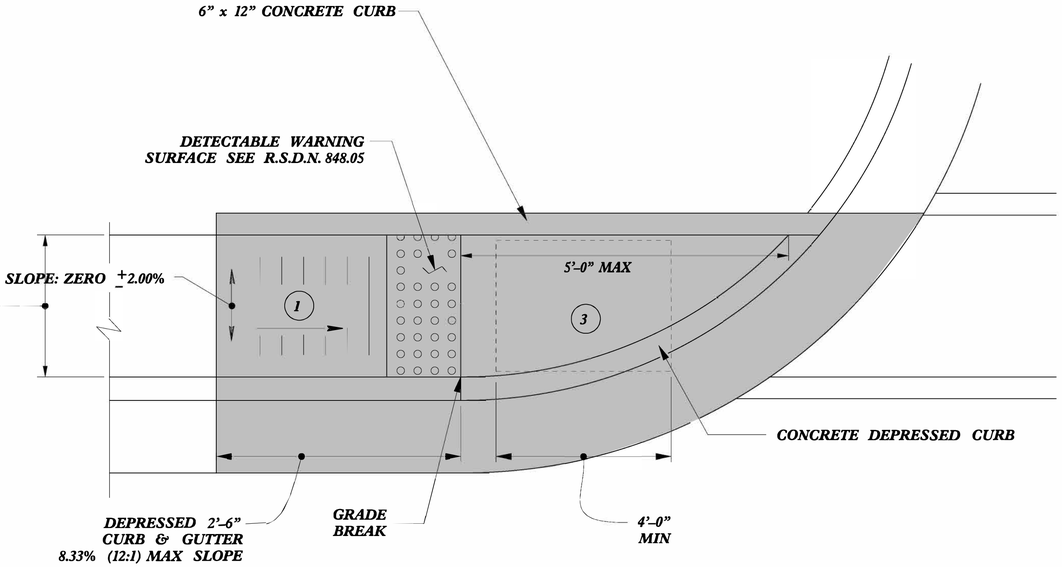
TYPE 1A



TYPE 1B



TYPE 1 Modified



TYPE 1

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

PAY LIMITS FOR 1 CURB RAMP

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 33144 ENGINEER NICOLE M HAWLEY

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

CURB RAMPS

Directional Ramps

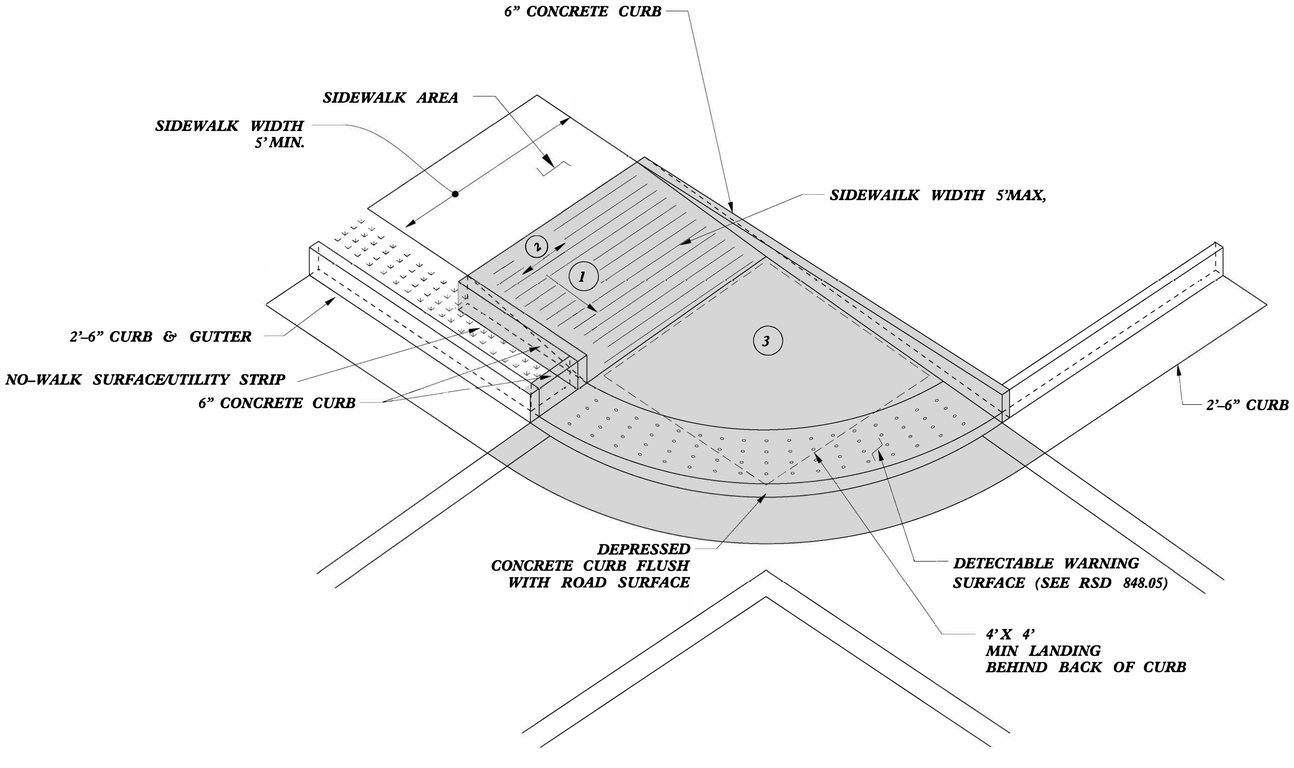
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn

5/14/99

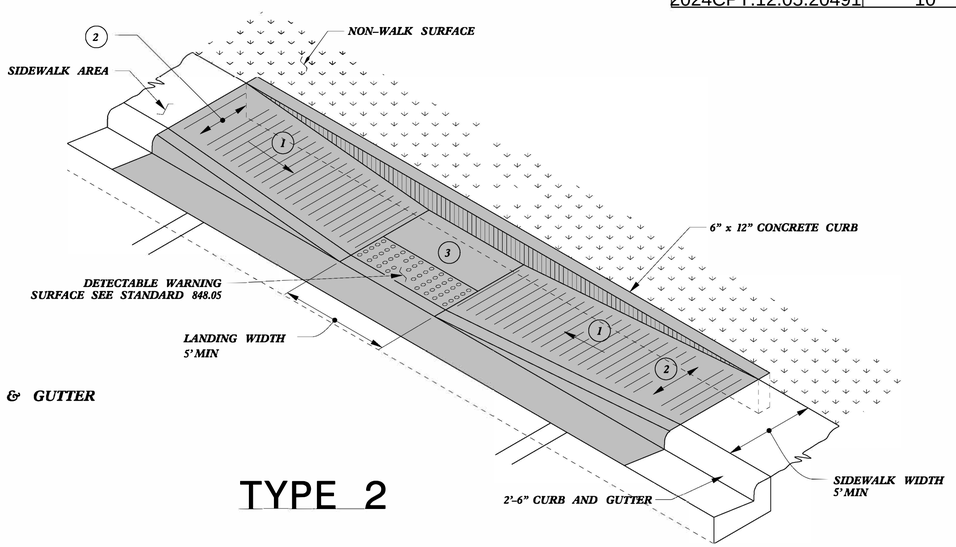
$$SYSTEM$$
$$USERNAME$$

5/14/99

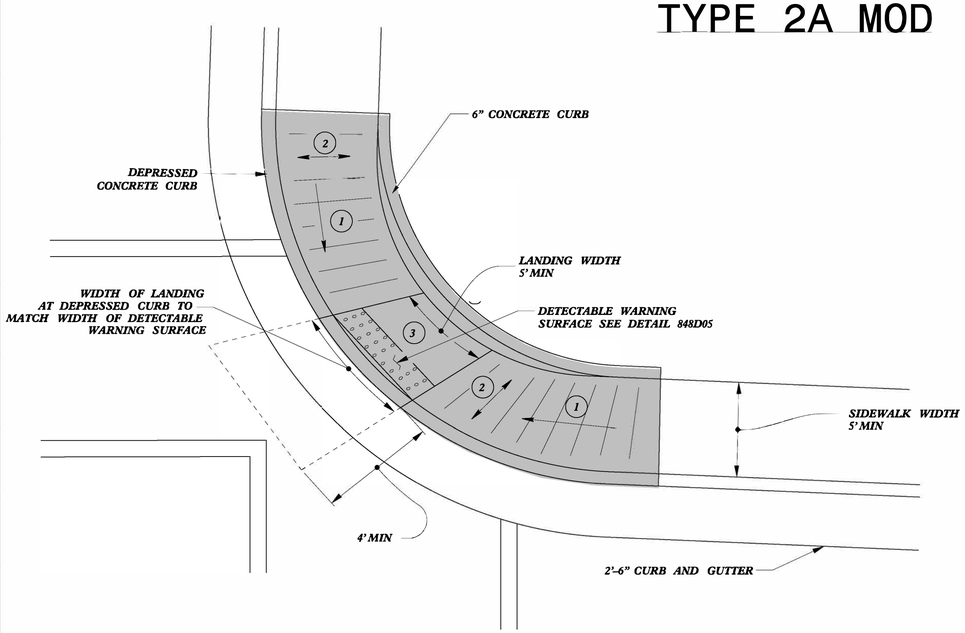
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.12.05.20491	10



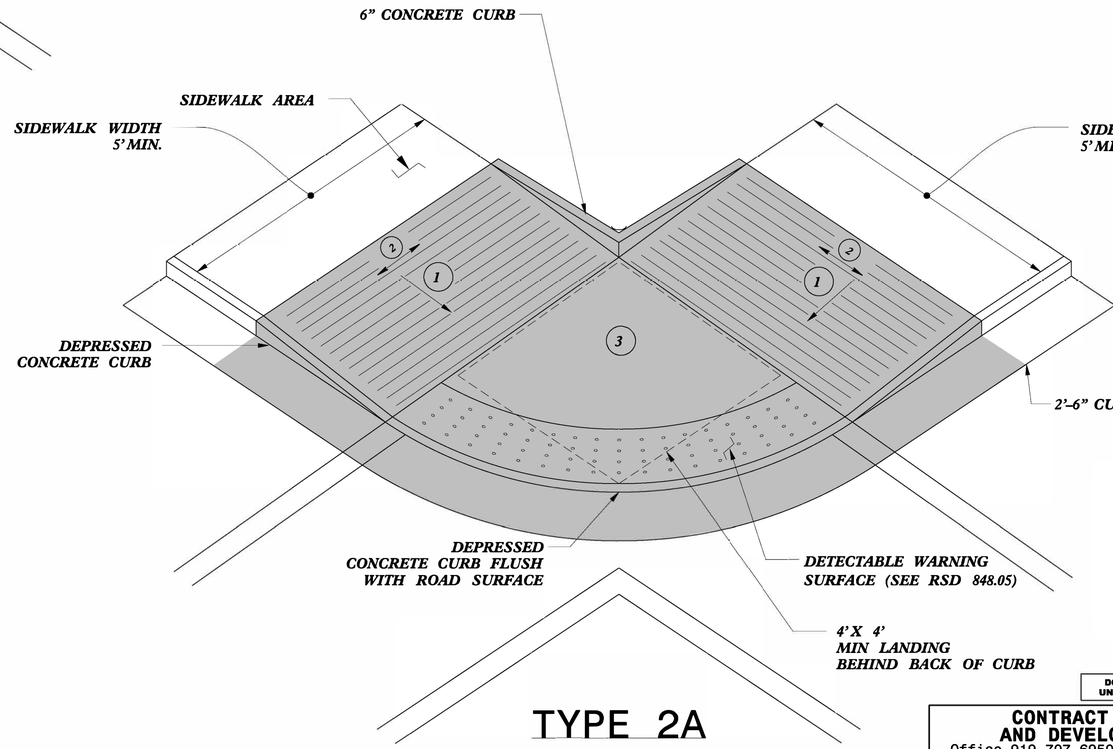
TYPE 2A MOD



TYPE 2



TYPE 2B



TYPE 2A

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

PAY LIMITS FOR 1 CURB RAMP

NORTH CAROLINA PROFESSIONAL SEAL 33144 ENGINEER NICOLE M. HACKLEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

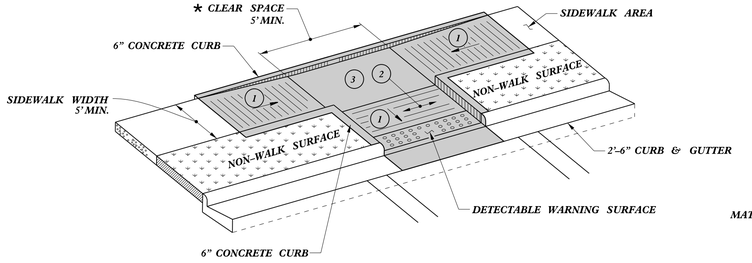
CURB RAMPS

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

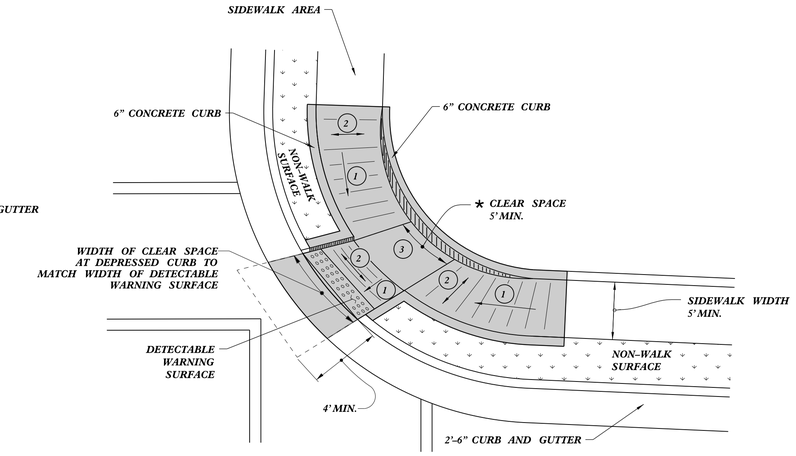
USER NAME = $$USERNAME$$ DESIGN SYSTEMS $$$$

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.12.05.20491	11

* - *WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4'MINIMUM X 5'MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.*



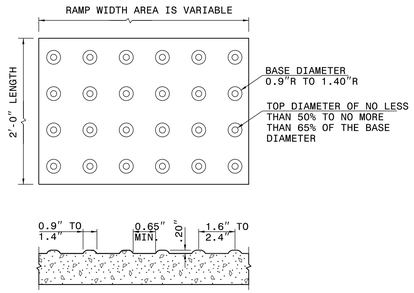
TYPE 3



TYPE 3 MODIFIED
INSTALLATION IN A RADIUS

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

(1) *8.33% (12:1) MAX RAMP SLOPE*

(2) *CROSS SLOPE: 2.00%*

(3) *MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.*

PAY LIMITS FOR 1 CURB RAMP

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

ROADWAY STANDARD DRAWING FOR

CURB RAMP

PARALLEL RAMP

SHEET 9 OF13

848D06

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033144 NICOLE M. HACKLER

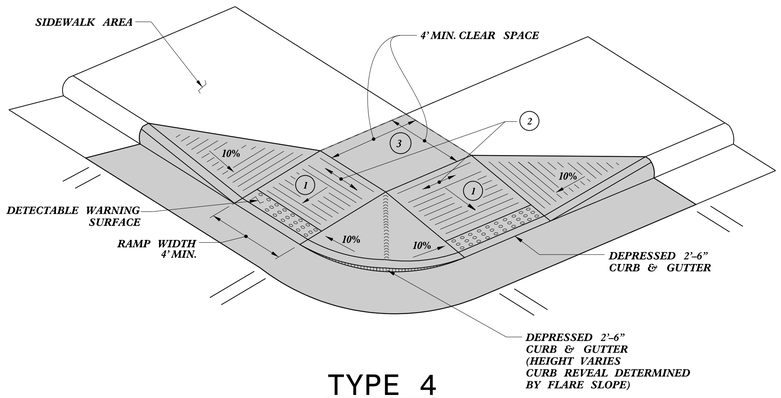
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

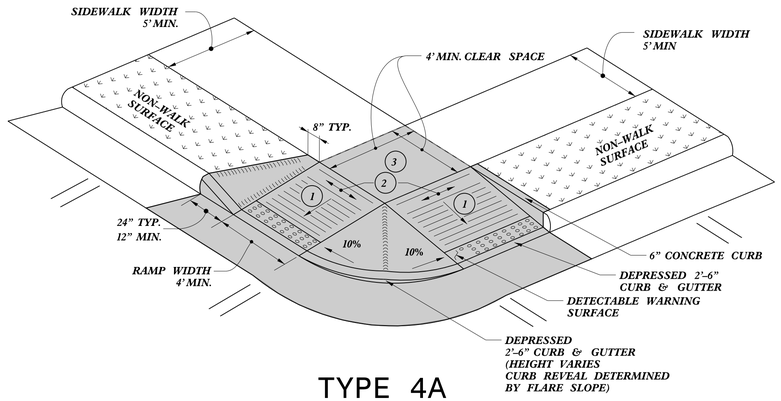
SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: special details\nmhackler\D0609.dgn

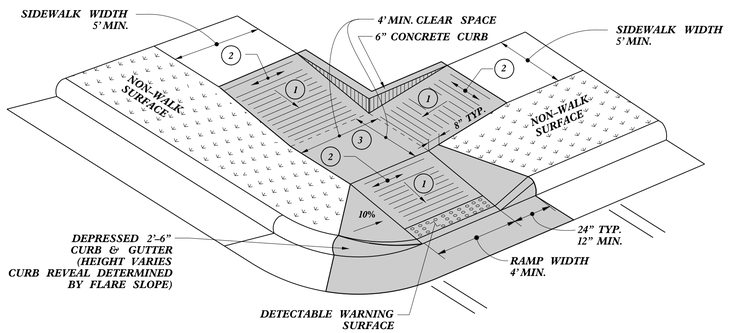
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.12.05.20491	12



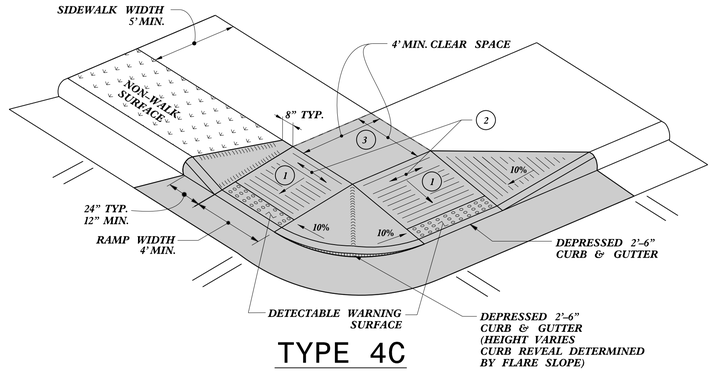
TYPE 4



TYPE 4A



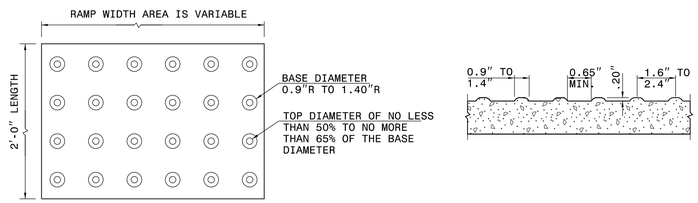
TYPE 4B



TYPE 4C

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

1. *8.33% (12:1) MAX RAMP SLOPE*
2. *CROSS SLOPE: 2.00%*
3. *MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.*

PAY LIMITS FOR 1 OR 2 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF DETECTABLE WARNING SURFACES

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

ROADWAY STANDARD DRAWING FOR

CURB RAMP

SHARED LANDING

SHEET 10 OF 13

848D06

NORTH CAROLINA PROFESSIONAL SEAL 033144 ENGINEER NICOLE M. HACKLER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

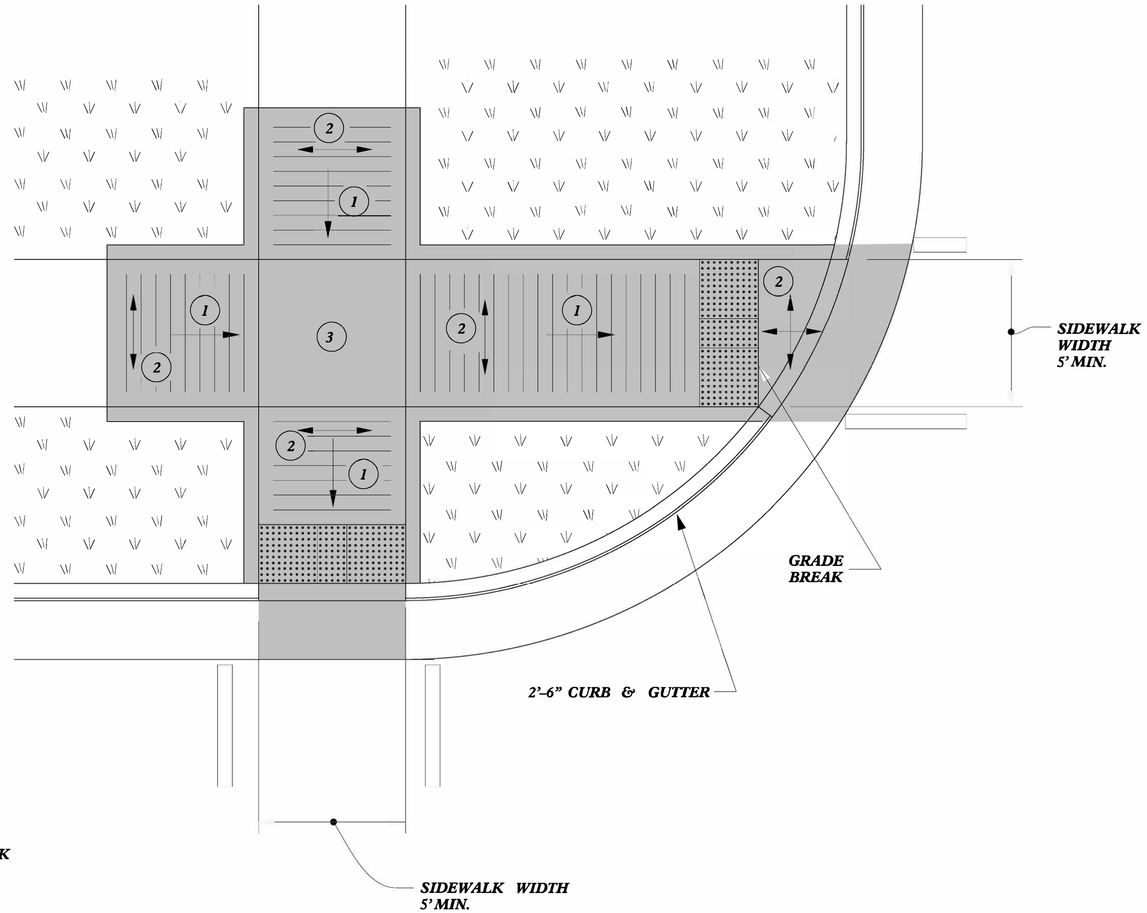
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

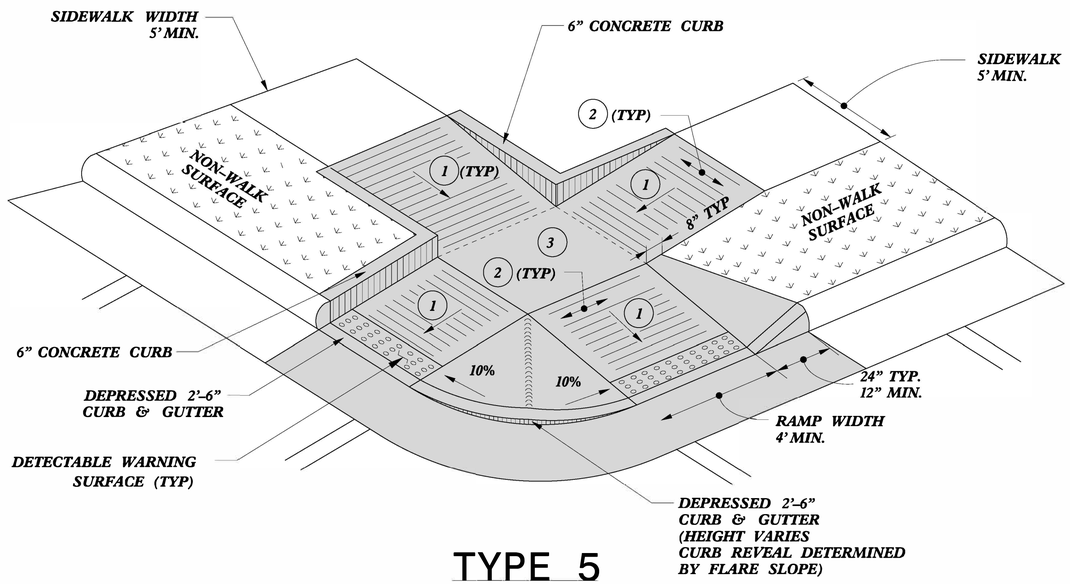
ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special_details\nmhackler\848D0610.dgn

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.12.05.20491	13

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF TRUNCATED DOMES)



TYPE 5A



TYPE 5

(1) 8.33% (12:1) MAX RAMP SLOPE

(2) CROSS SLOPE: 2.00%

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

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

NORTH CAROLINA PROFESSIONAL SEAL 33144 ENGINEER NICOLE M. HACKLER

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

CURB RAMPS

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

5/14/99

$$$$SYSTIME$$$$
$$$$SYSDINS$$$$
$$$$USERNAME$$$$

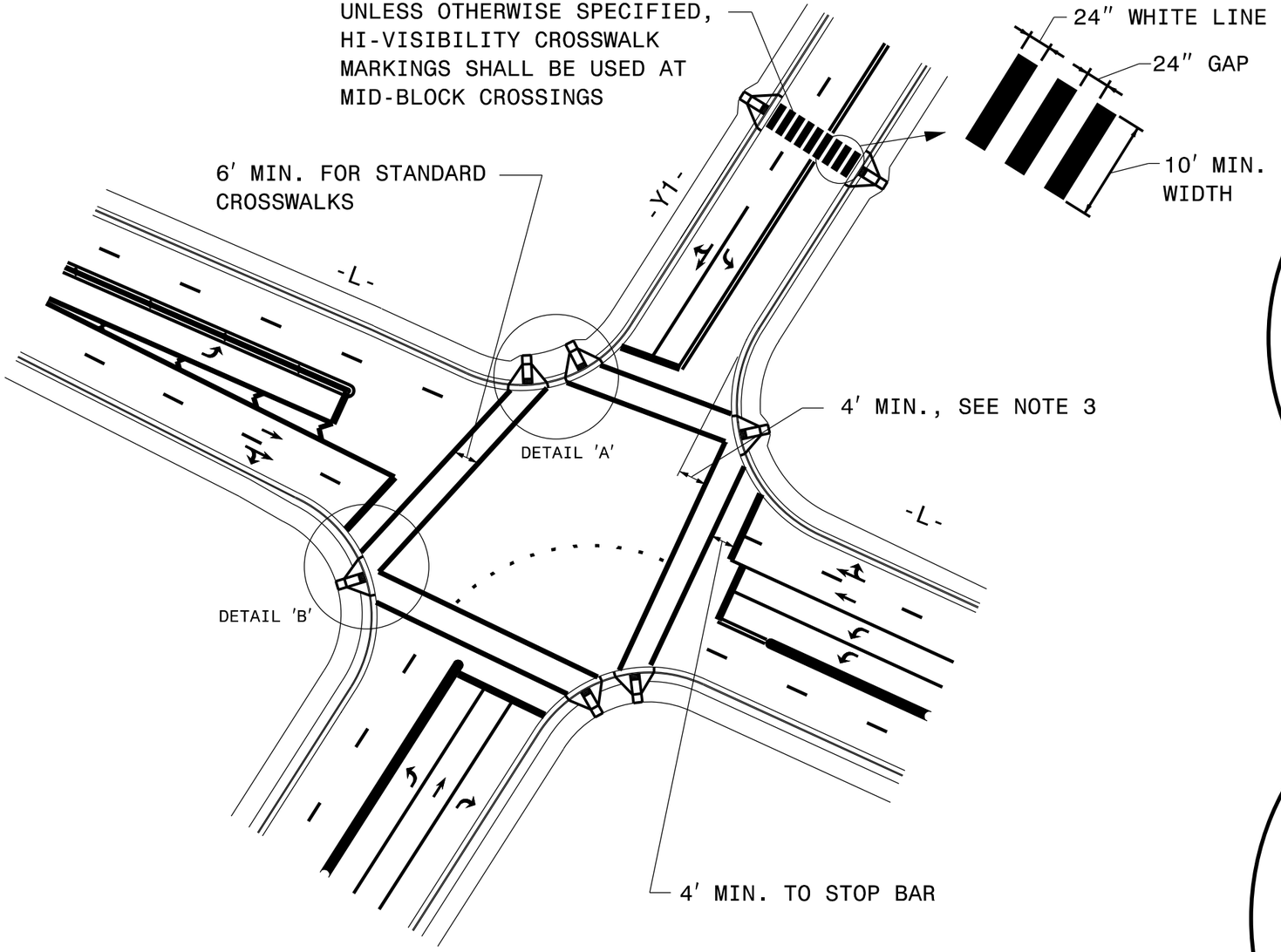
TIP NO.	SHEET NO.
2024CPT.12.05.20491	14

APPROVED:

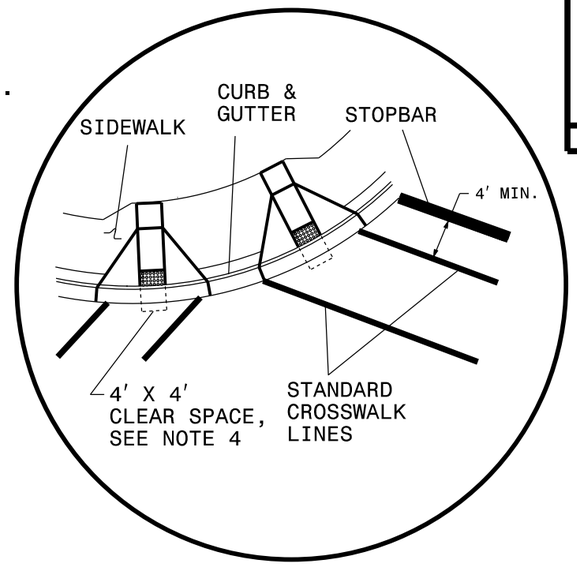
DATE:

SEAL

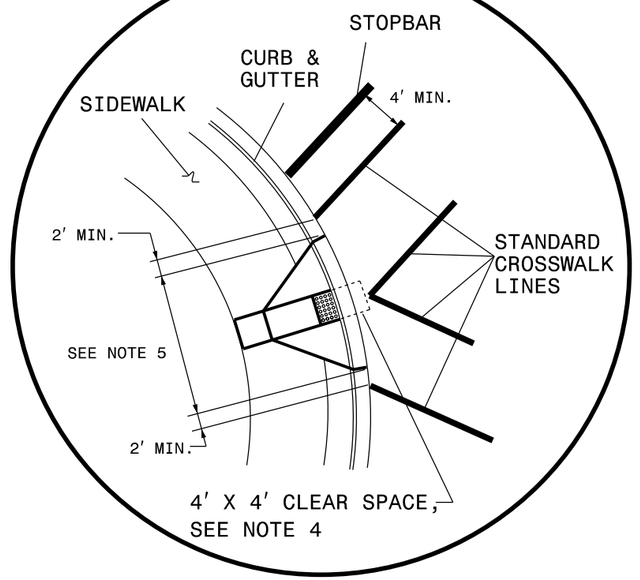
REVISIONS



GUIDANCE DETAIL FOR CROSSWALK MARKINGS



DETAIL 'A'- DUAL CURB RAMPS



DETAIL 'B'- SINGLE DIAGONAL CURB RAMP

NOTES:

1. USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS NOT STATIONED ON THE DETAIL SHEETS OR WHEN FIELD ADJUSTMENTS REQUIRED MOVING STATIONED MARKINGS AS DIRECTED BY THE ENGINEER. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.

2. THE CROSSWALK MARKINGS SHOWN ON THE ABOVE DETAILS ARE FOR REFERENCE ONLY. ONLY INSTALL CROSSWALK MARKINGS WHERE SHOWN ON THE DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER. THE CROSSWALK MARKING TYPE, STANDARD OR HI-VISIBILITY, SHALL BE INSTALL AS SPECIFIED ON THE DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER.

3. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4′ MIN.

4. BEYOND THE BOTTOM GRADE BRAKE, A CLEAR SPACE OF 4′ X 4′ MINIMUM SHALL BE PROVIDED WITHIN THE MARKINGS.

5. SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2 FEET LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.

6. CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS.

CROSSWALK PAVEMENT MARKING GUIDANCE DETAIL

$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.12.05.20491	15	

SUMMARY OF QUANTITIES

															1260000000-E	1220000000-E	1245000000-E	1297000000-E		1308000000-E	1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP		AGGREGATE SHOULDER BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1" MILLING	1½" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
										MI	FT				TON	TONS	SMI	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	TONS
2024CPT.12.05.20491	Iredell	1	SR-1446 / COOLEY RD	FROM SR 1445 (KEMP RD.) TO DEAD END	1	2		NO	NO	0.261	18	1.757	2.018		90	15	0.52						190	75			21	75
TOTAL FOR MAP NO. 1										**0.261**					**90**	**15**	**0.52**						**190**	**75**			**21**	**75**
2024CPT.12.05.20491	Iredell	2	SR-1445 / KEMP RD	FROM SR 1446 (COOLEY RD.) TO SR 1115 (MCKENDREE RD.)	1	2		NO	NO	0.721	20	0	0.721		240	40	1.44				165		530	100			46	100
TOTAL FOR MAP NO. 2										**0.721**					**240**	**40**	**1.44**				**165**		**530**	**100**			**46**	**100**
2024CPT.12.05.20491	Iredell	3	SR-2923 / CHATWORTH LN	FROM SR 1179 (CANVASBACK RD.) TO CUL-DE-SAC	1	2		NO	NO	0.069	20	0	0.069		30	5	0.16				40		80	50			11	50
TOTAL FOR MAP NO. 3										**0.069**					**30**	**5**	**0.16**				**40**		**80**	**50**			**11**	**50**
2024CPT.12.05.20491	Iredell	4	SR-2361 / MCNESS RD	FROM SR 2638 (SALISBURY HWY.) TO END OF MAINTANANCE	1	2		NO	NO	0.076	24	0	0.076		30	5	0.16				30		70	20			7	30
TOTAL FOR MAP NO. 4										**0.076**					**30**	**5**	**0.16**				**30**		**70**	**20**			**7**	**30**
2024CPT.12.05.20491	Iredell	5	SR-2141 / DUNLAP GATE RD	FROM US 21 TO SR 2158 (OLD MOCKSVILLE RD.)	1	2		NO	NO	1.504	20	0	1.504		500	75	3.00				180		1,100	225			95	175
TOTAL FOR MAP NO. 5										**1.504**					**500**	**75**	**3.00**				**180**		**1,100**	**225**			**95**	**175**
2024CPT.12.05.20491	Iredell	6	SR-2366 / PERRY RD./HOOVER RD./CREEKS EDGE LN	FROM US 21 TO CUL-DE-SAC	1	2		NO	NO	1.582	20	0	1.582		525	80	3.16	112			150		1,175	100			86	75
TOTAL FOR MAP NO. 6										**1.582**					**525**	**80**	**3.16**	**112**			**150**		**1,175**	**100**			**86**	**75**
2024CPT.12.05.20491	Iredell	7	SR-1916 / LENTZ RD	FROM SR 1890 (TOMLIN MILL RD.) TO SR 1892 (JENNINGS RD.)	1	2		NO	NO	1.956	20	0	1.956		655	100	3.95				100		1,440	220			113	100
TOTAL FOR MAP NO. 7										**1.956**					**655**	**100**	**3.95**				**100**		**1,440**	**220**			**113**	**100**
2024CPT.12.05.20491	Iredell	8	SR-1873 / N CHIPLEY FORD RD	FROM SR 1896 (FRIENDSHIP RD.) TO SR 1898 (DOBSON FARM RD)	1	2		NO	NO	2.031	20	0	2.031		670	105	4.06	223			60		1,450	125			107	100
TOTAL FOR MAP NO. 8										**2.031**					**670**	**105**	**4.06**	**223**			**60**		**1,450**	**125**			**107**	**100**
2024CPT.12.05.20491	Iredell	9	SR-1898 / N CHIPLEY FORD RD	FROM SR 1873 (NORTH CHIPLEY FORD RD.) TO SR 1903 (SNOW CREEK RD.)	1	2		NO	NO	1.743	20	2.39	4.133		575	90	3.48	112			120		1,235	150			94	75
TOTAL FOR MAP NO. 9										**1.743**					**575**	**90**	**3.48**	**112**			**120**		**1,235**	**150**			**94**	**75**
2024CPT.12.05.20491	Iredell	10	SR-1328 / EAST MONBO RD	FROM SR 1005 (OLD MOUNTAIN RD.) TO SR 2801 (HIGHLAND VIEW DR.)	2, 4	2		NO	NO	4.91	20	0	4.91		1,620	250	9.82		2,000		200					5,420	350	354	275
TOTAL FOR MAP NO. 10										**4.91**					**1,620**	**250**	**9.82**		**2,000**		**200**					**5,420**	**350**	**354**	**275**
2024CPT.12.05.20491	Iredell	11	SR-1903 / SNOW CREEK RD	FROM NC 115 TO SR 1892 (JENNINGS RD.)	3	2		NO	NO	4.555	20	0	4.555		1,505	230	9.12				210	2,500				5,035	275	433	150
TOTAL FOR MAP NO. 11										**4.555**					**1,505**	**230**	**9.12**				**210**	**2,500**				**5,035**	**275**	**433**	**150**
2024CPT.12.05.20491	Iredell	12	SR-1005 / OLD MOUNTAIN RD	FROM ALEXANDER COUNTY LINE TO BRIDGE #90 OVER I-40	2	2		NO	NO	5.732	20	0	5.732		1,900	300	11.46			245	690					6,325	300	400	200
TOTAL FOR MAP NO. 12										**5.732**					**1,900**	**300**	**11.46**			**245**	**690**					**6,325**	**300**	**400**	**200**
2024CPT.12.05.20491	Iredell	13	SR-2321 OI / E BROAD ST	FROM I-3819B PROJECT LIMITS TO SR 2320 (S.GREENBRIAR)	2, 4, 5	2		NO	NO	1.51	20	1.973	3.483		425	65	2.50		7,670	450	100					2,600	120	163	50
TOTAL FOR MAP NO. 13										**1.51**					**425**	**65**	**2.50**		**7,670**	**450**	**100**					**2,600**	**120**	**163**	**50**
2024CPT.12.05.20491	Iredell	14	SR-2333 / EASTSIDE DR	FROM I-3819B PROJECT LIMITS TO SR 2735 (SALISBURY RD.)	2, 5, 6, 7	2		NO	NO	1.04	22	0.124	1.164		350	55	2.08		5,000		180					1,740	120	113	75
TOTAL FOR MAP NO. 14										**1.04**					**350**	**55**	**2.08**		**5,000**		**180**					**1,740**	**120**	**113**	**75**
2024CPT.12.05.20491	Iredell	15	SR-1245 / MEDICAL PARK RD	FROM US 21 TO SR 1246 (FAIRVIEW RD)	4, 5, 6, 8	2		NO	NO	0.601	35	0	0.601		135	25	0.78		13,000		60					1,350		80	10
TOTAL FOR MAP NO. 15										**0.601**					**135**	**25**	**0.78**		**13,000**		**60**					**1,350**		**80**	**10**
2024CPT.12.05.20491	Iredell	16	SR-1421 / WILSON W LEE BLVD	FROM SR 1338 (WALLACE SPRINGS RD.) TO PAVEMENT CHANGE NORTH OF US 70	2, 9	2		NO	NO	0.701	30	0.251	0.952		25	5	0.14		12,000		100					1,200	20	73	25
TOTAL FOR MAP NO. 16										**0.701**					**25**	**5**	**0.14**		**12,000**		**100**					**1,200**	**20**	**73**	**25**
TOTAL FOR PROJ NO. 2024CPT.12.05.20491										**28.992**					**9,275**	**1,445**	**55.83**	**447**	**39,670**	**695**	**2,385**	**2,500**	**7,270**	**1,065**	**23,670**	**1,185**	**2,196**	**1,565**
GRAND TOTAL										**28.992**					**9,275**	**1,445**	**55.83**	**447**	**39,670**	**695**	**2,385**	**2,500**	**7,270**	**1,065**	**23,670**	**1,185**	**2,196**	**1,565**

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.12.05.20491	16	

SUMMARY OF QUANTITIES

														2605000000-N	2612300000-N	2800000000-N	2815000000-N	2830000000-N	2845000000-N	5255000000-N	7324000000-N	7444000000-E	7456100000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP	CONCRETE CURB RAMPS	RETROFIT EXISTING CONCRETE CURB RAMPS	ADJ. OF CATCH BASIN	ADJ. OF DROP INLET	ADJ. OF MANHOLES	ADJ. OF METER BOXES OR VALVE BOXES	PORTABLE LIGHTING	JUNCTION BOX (STANDARD SIZE)	INDUCTIVE LOOP	LEAD-IN CABLE (14-2)
										MI	FT			EA	EA	EA	EA	EA	EA	LS	EA	LF	LF
2024CPT.12.05.20491	Iredell	1	SR-1446 / COOLEY RD	FROM SR 1445 (KEMP RD.) TO DEAD END	1	2		NO	NO	0.261	18	1.757	2.018										
TOTAL FOR MAP NO. 1										**0.261**													
2024CPT.12.05.20491	Iredell	2	SR-1445 / KEMP RD	FROM SR 1446 (COOLEY RD.) TO SR 1115 (MCKENDREE RD.)	1	2		NO	NO	0.721	20	0	0.721										
TOTAL FOR MAP NO. 2										**0.721**													
2024CPT.12.05.20491	Iredell	3	SR-2923 / CHATWORTH LN	FROM SR 1179 (CANVASBACK RD.) TO CUL-DE-SAC	1	2		NO	NO	0.069	20	0	0.069										
TOTAL FOR MAP NO. 3										**0.069**													
2024CPT.12.05.20491	Iredell	4	SR-2361 / MCNESS RD	FROM SR 2638 (SALISBURY HWY.) TO END OF MAINTANANCE	1	2		NO	NO	0.076	24	0	0.076										
TOTAL FOR MAP NO. 4										**0.076**													
2024CPT.12.05.20491	Iredell	5	SR-2141 / DUNLAP GATE RD	FROM US 21 TO SR 2158 (OLD MOCKSVILLE RD.)	1	2		NO	NO	1.504	20	0	1.504										
TOTAL FOR MAP NO. 5										**1.504**													
2024CPT.12.05.20491	Iredell	6	SR-2366 / PERRY RD./HOOVER RD./CREEKS EDGE LN	FROM US 21 TO CUL-DE-SAC	1	2		NO	NO	1.582	20	0	1.582										
TOTAL FOR MAP NO. 6										**1.582**													
2024CPT.12.05.20491	Iredell	7	SR-1916 / LENTZ RD	FROM SR 1890 (TOMLIN MILL RD.) TO SR 1892 (JENNINGS RD.)	1	2		NO	NO	1.956	20	0	1.956										
TOTAL FOR MAP NO. 7										**1.956**													
2024CPT.12.05.20491	Iredell	8	SR-1873 / N CHIPLEY FORD RD	FROM SR 1896 (FRIENDSHIP RD.) TO SR 1898 (DOBSON FARM RD)	1	2		NO	NO	2.031	20	0	2.031										
TOTAL FOR MAP NO. 8										**2.031**													
2024CPT.12.05.20491	Iredell	9	SR-1898 / N CHIPLEY FORD RD	FROM SR 1873 (NORTH CHIPLEY FORD RD.) TO SR 1903 (SNOW CREEK RD.)	1	2		NO	NO	1.743	20	2.39	4.133										
TOTAL FOR MAP NO. 9										**1.743**													
2024CPT.12.05.20491	Iredell	10	SR-1328 / EAST MONBO RD	FROM SR 1005 (OLD MOUNTAIN RD.) TO SR 2801 (HIGHLAND VIEW DR.)	2, 4	2		NO	NO	4.91	20	0	4.91										
TOTAL FOR MAP NO. 10										**4.91**													
2024CPT.12.05.20491	Iredell	11	SR-1903 / SNOW CREEK RD	FROM NC 115 TO SR 1892 (JENNINGS RD.)	3	2		NO	NO	4.555	20	0	4.555										
TOTAL FOR MAP NO. 11										**4.555**													
2024CPT.12.05.20491	Iredell	12	SR-1005 / OLD MOUNTAIN RD	FROM ALEXANDER COUNTY LINE TO BRIDGE #90 OVER I-40	2	2		NO	NO	5.732	20	0	5.732								1	624	80
TOTAL FOR MAP NO. 12										**5.732**											**1**	**624**	**80**
2024CPT.12.05.20491	Iredell	13	SR-2321 OI / E BROAD ST	FROM I-3819B PROJECT LIMITS TO SR 2320 (S.GREENBRIAR)	2, 4, 5	2		NO	NO	1.51	20	1.973	3.483					5	2	1	1	1,404	120
TOTAL FOR MAP NO. 13										**1.51**								**5**	**2**	**1**	**1**	**1,404**	**120**
2024CPT.12.05.20491	Iredell	14	SR-2333 / EASTSIDE DR	FROM I-3819B PROJECT LIMITS TO SR 2735 (SALISBURY RD.)	2, 5, 6, 7	2		NO	NO	1.04	22	0.124	1.164			1	1	14	6		1	1,248	60
TOTAL FOR MAP NO. 14										**1.04**						**1**	**1**	**14**	**6**		**1**	**1,248**	**60**
2024CPT.12.05.20491	Iredell	15	SR-1245 / MEDICAL PARK RD	FROM US 21 TO SR 1246 (FAIRVIEW RD)	4, 5, 6, 8	2		NO	NO	0.601	35	0	0.601								1	780	40
TOTAL FOR MAP NO. 15										**0.601**											**1**	**780**	**40**
2024CPT.12.05.20491	Iredell	16	SR-1421 / WILSON W LEE BLVD	FROM SR 1338 (WALLACE SPRINGS RD.) TO PAVEMENT CHANGE NORTH OF US 70	2, 9	2		NO	NO	0.701	30	0.251	0.952	1	1			13	13		1	624	40
TOTAL FOR MAP NO. 16										**0.701**				**1**	**1**			**13**	**13**		**1**	**624**	**40**
TOTAL FOR PROJ NO. 2024CPT.12.05.20491										**28.992**				**1**	**1**	**1**	**1**	**32**	**21**	**1**	**5**	**4,680**	**340**
GRAND TOTAL										**28.992**				**1**	**1**	**1**	**1**	**32**	**21**	**1**	**5**	**4,680**	**340**

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.12.05.20491	17	

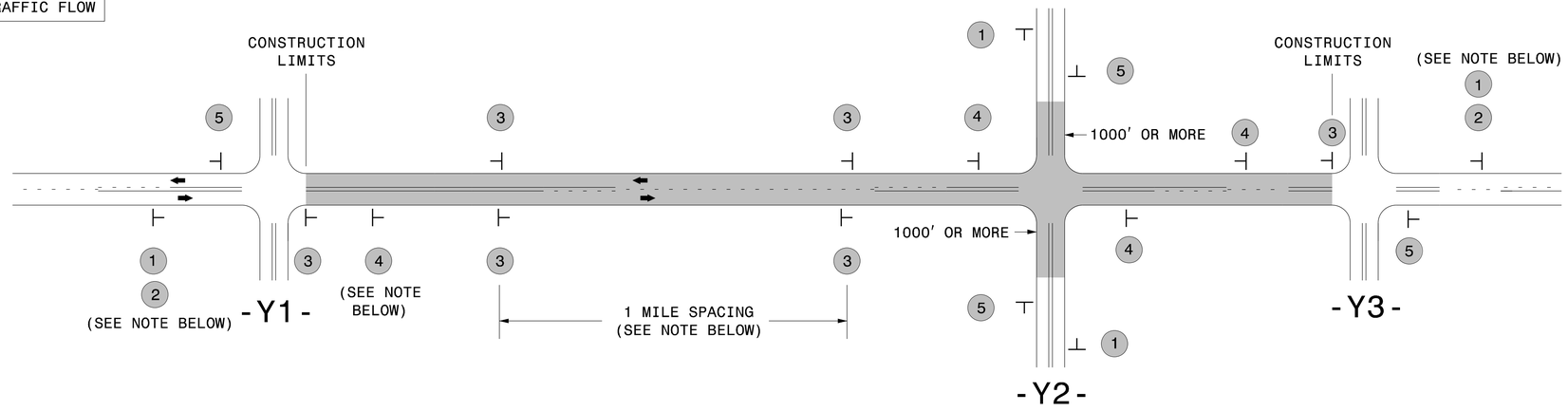
THERMOPLASTIC AND PAINT QUANTITIES

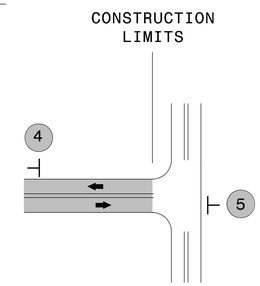
													4413000000-E	4447000000-E	4457000000-N	4685000000-E		4695000000-E		4709000000-E	4725000000-E						4810000000-E		4905100000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		WORK SONE ADVANCE/GENERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DEVICES	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING LINES WHITE (4", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES YELLOW (4", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES YELLOW (8", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES WHITE (8", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO MERGE ARROW (90 MILS)	THERMO RT ARROW 90 M	THERMO STR & LT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER
								MI	FT				SF	LF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	LF	LF	EA
2024CPT.12.05.20491	Iredell	1	SR-1446 / COOLEY RD	FROM SR 1445 (KEMP RD.) TO DEAD END	1	2		0.261	18	1.757	2.018		30														6,040	6,040	
TOTAL FOR MAP NO. 1								**0.261**					**30**														**6,040**	**6,040**	
2024CPT.12.05.20491	Iredell	2	SR-1445 / KEMP RD	FROM SR 1446 (COOLEY RD.) TO SR 1115 (MCKENDREE RD.)	1	2		0.721	20	0	0.721		80														16,750	16,750	
TOTAL FOR MAP NO. 2								**0.721**					**80**														**16,750**	**16,750**	
2024CPT.12.05.20491	Iredell	3	SR-2923 / CHATWORTH LN	FROM SR 1179 (CANVASBACK RD.) TO CUL-DE-SAC	1	2		0.069	20	0	0.069		16																
TOTAL FOR MAP NO. 3								**0.069**					**16**																
2024CPT.12.05.20491	Iredell	4	SR-2361 / MCNESS RD	FROM SR 2638 (SALISBURY HWY.) TO END OF MAINTANANCE	1	2		0.076	24	0	0.076		16																
TOTAL FOR MAP NO. 4								**0.076**					**16**																
2024CPT.12.05.20491	Iredell	5	SR-2141 / DUNLAP GATE RD	FROM US 21 TO SR 2158 (OLD MOCKSVILLE RD.)	1	2		1.504	20	0	1.504		168														34,850	34,850	
TOTAL FOR MAP NO. 5								**1.504**					**168**														**34,850**	**34,850**	
2024CPT.12.05.20491	Iredell	6	SR-2366 / PERRY RD./HOOVER RD./CREEKS EDGE LN	FROM US 21 TO CUL-DE-SAC	1	2		1.582	20	0	1.582		177														33,400	33,400	
TOTAL FOR MAP NO. 6								**1.582**					**177**														**33,400**	**33,400**	
2024CPT.12.05.20491	Iredell	7	SR-1916 / LENTZ RD	FROM SR 1890 (TOMLIN MILL RD.) TO SR 1892 (JENNINGS RD.)	1	2		1.956	20	0	1.956		220														45,535	45,535	
TOTAL FOR MAP NO. 7								**1.956**					**220**														**45,535**	**45,535**	
2024CPT.12.05.20491	Iredell	8	SR-1873 / N CHIPLEY FORD RD	FROM SR 1896 (FRIENDSHIP RD.) TO SR 1898 (DOBSON FARM RD)	1	2		2.031	20	0	2.031		228														47,160	47,160	
TOTAL FOR MAP NO. 8								**2.031**					**228**														**47,160**	**47,160**	
2024CPT.12.05.20491	Iredell	9	SR-1898 / N CHIPLEY FORD RD	FROM SR 1873 (NORTH CHIPLEY FORD RD.) TO SR 1903 (SNOW CREEK RD.)	1	2		1.743	20	2.39	4.133		195		1												40,425	40,425	
TOTAL FOR MAP NO. 9								**1.743**					**195**														**40,425**	**40,425**	
2024CPT.12.05.20491	Iredell	10	SR-1328 / EAST MONBO RD	FROM SR 1005 (OLD MOUNTAIN RD.) TO SR 2801 (HIGHLAND VIEW DR.)	2, 4	2		4.91	20	0	4.91		550														111,000	111,000	
TOTAL FOR MAP NO. 10								**4.91**					**550**														**111,000**	**111,000**	
2024CPT.12.05.20491	Iredell	11	SR-1903 / SNOW CREEK RD	FROM NC 115 TO SR 1892 (JENNINGS RD.)	3	2		4.555	20	0	4.555		515														106,000	106,000	
TOTAL FOR MAP NO. 11								**4.555**					**515**														**106,000**	**106,000**	
2024CPT.12.05.20491	Iredell	12	SR-1005 / OLD MOUNTAIN RD	FROM ALEXANDER COUNTY LINE TO BRIDGE #90 OVER I-40	2	2		5.732	20	0	5.732		650			66,600	66,600	150		48									625
TOTAL FOR MAP NO. 12								**5.732**					**650**			**66,600**	**66,600**	**150**		**48**									**625**
2024CPT.12.05.20491	Iredell	13	SR-2321 OI / E BROAD ST	FROM I-3819B PROJECT LIMITS TO SR 2320 (S.GREENBRIAR)	2, 4, 5	2		1.51	20	1.973	3.483		170			18,662	19,250	195	182	150	12	4	4	3					200
TOTAL FOR MAP NO. 13								**1.51**					**170**			**18,662**	**19,250**	**195**	**182**	**150**	**12**	**4**	**4**	**3**					**200**
2024CPT.12.05.20491	Iredell	14	SR-2333 / EASTSIDE DR	FROM I-3819B PROJECT LIMITS TO SR 2735 (SALISBURY RD.)	2, 5, 6, 7	2		1.04	22	0.124	1.164		120			12,125	12,250	154		110	15				9				150
TOTAL FOR MAP NO. 14								**1.04**					**120**			**12,125**	**12,250**	**154**		**110**	**15**				**9**				**150**
2024CPT.12.05.20491	Iredell	15	SR-1245 / MEDICAL PARK RD	FROM US 21 TO SR 1246 (FAIRVIEW RD)	4, 5, 6, 8	2		0.601	35	0	0.601		70			6,350	7,615	150	22	209	22	4			3				100
TOTAL FOR MAP NO. 15								**0.601**					**70**			**6,350**	**7,615**	**150**	**22**	**209**	**22**	**4**			**3**				**100**
2024CPT.12.05.20491	Iredell	16	SR-1421 / WILSON W LEE BLVD	FROM SR 1338 (WALLACE SPRINGS RD.) TO PAVEMENT CHANGE NORTH OF US 70	2, 9	2		0.701	30	0.251	0.952		80	50		900	10,200		160	250		4			2	4			100
TOTAL FOR MAP NO. 16								**0.701**					**80**	**50**		**900**	**10,200**		**160**	**250**		**4**			**2**	**4**			**100**
TOTAL FOR PROJ NO. 2024CPT.12.05.20491								**28.992**					**3,285**	**50**	**1**	**104,637**	**115,915**	**649**	**364**	**767**	**49**	**12**	**4**	**3**	**14**	**4**	**441,160**	**441,160**	**1,175**
																220,552		**1,013**			**86**						**882,320**		
GRAND TOTAL								**28.992**					**3,285**	**50**	**1**	**104,637**	**115,915**	**649**	**364**	**767**	**49**	**12**	**4**	**3**	**14**	**4**	**441,160**	**441,160**	**1,175**
																220,552		**1,013**			**86**						**882,320**		

PROJ. REFERENCE NO.	SHEET NO.
2024CPT.12.05.20491	TMP-1

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 & 2 — ROAD WORK AHEAD W20-1 48″ X 48″ / NEXT XX MILES W7-3aP 24″ X 18″

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 CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)

3 — LOW/SOFT SHOULDER SP 13107 48″ X 48″

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.

4 — ROAD UNDER CONST SP 13106 48″ X 48″

- 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 — END ROAD WORK 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.

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

MAPS LESS THAN 2 MILES

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

-Y- LINE SIGNING

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

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

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

ROAD WORK AHEAD W20-1 48″ X 48″
PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A 48″ X 48″
PLACED 250′ IN ADVANCE OF FLAGGER.

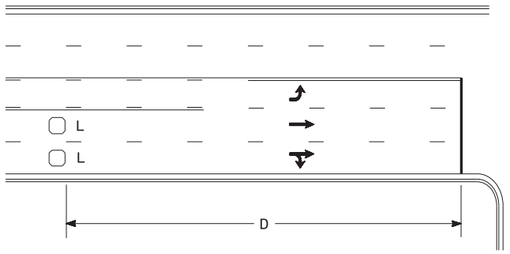
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

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

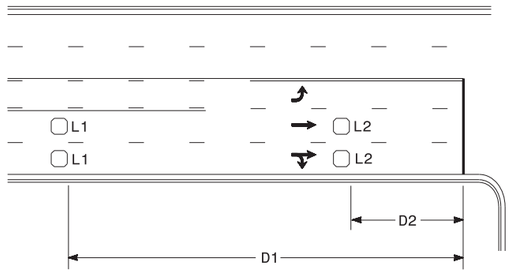
5/15/2017
SATMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kedavis

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.12.05.20491	SIG-1

High Speed Detection
(≥40 mph)



OR



Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

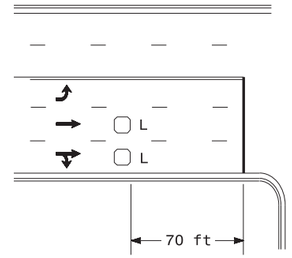
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

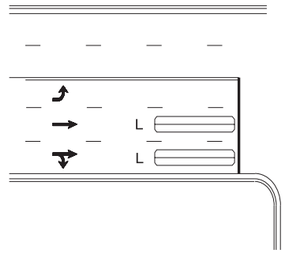
L2 = 6ft X 6ft
Wired in series

"Stretch" Operation

Low Speed Detection
(≤35 mph)



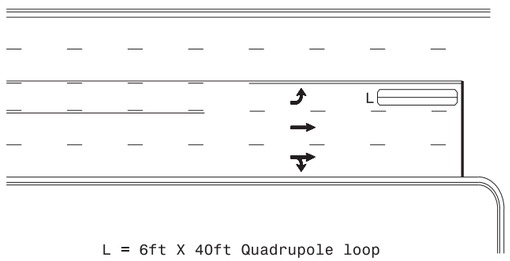
OR



L = 6ft X 6ft
Wired in series

L = 6ft X 40ft
Quadrupole loop, wired separately

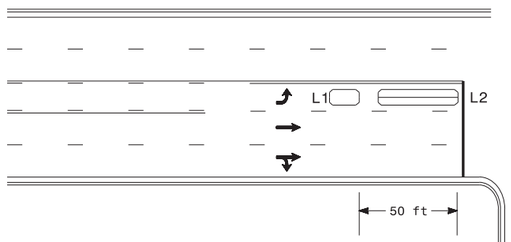
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

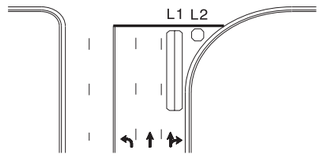
OR



L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

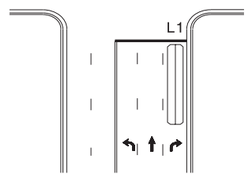
Queue Loop Detection

Right Turn Lane Detection

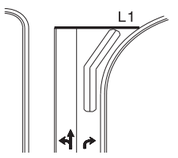


Shared Lane/
Wide Radius Turn

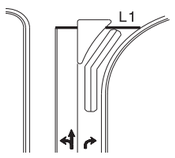
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

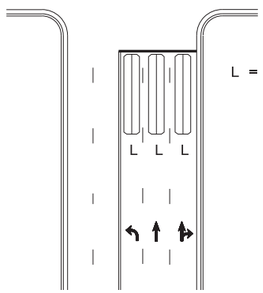


Wide Radius Turn



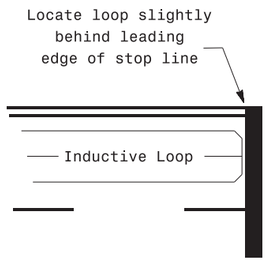
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Note:
Loop may be located in advance of stop line under any of the following conditions:
1) stop line is greater than 15′ from edge of intersecting roadway
2) loop detects a permissive or protected/permissive left turn
3) for an exclusive right turn lane

Recommended Number of Turns

Single 6′ X 6′ loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6′ X 15′ Loops:
Lead-in < 150′, use 2 turns
Lead-in > 150′, use 3 turns

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N.Greenfield Pkwy.,Garner,NC 27529

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE
N/A

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

9/8/2020
DATE

SIG. INVENTORY NO.

08-SEP-2020 11:54
S:\TESIGN\Traffic Signals\Signal Design Section\Eastern Region\Loop Typicals\loop typical2015.dgn
jgalloway