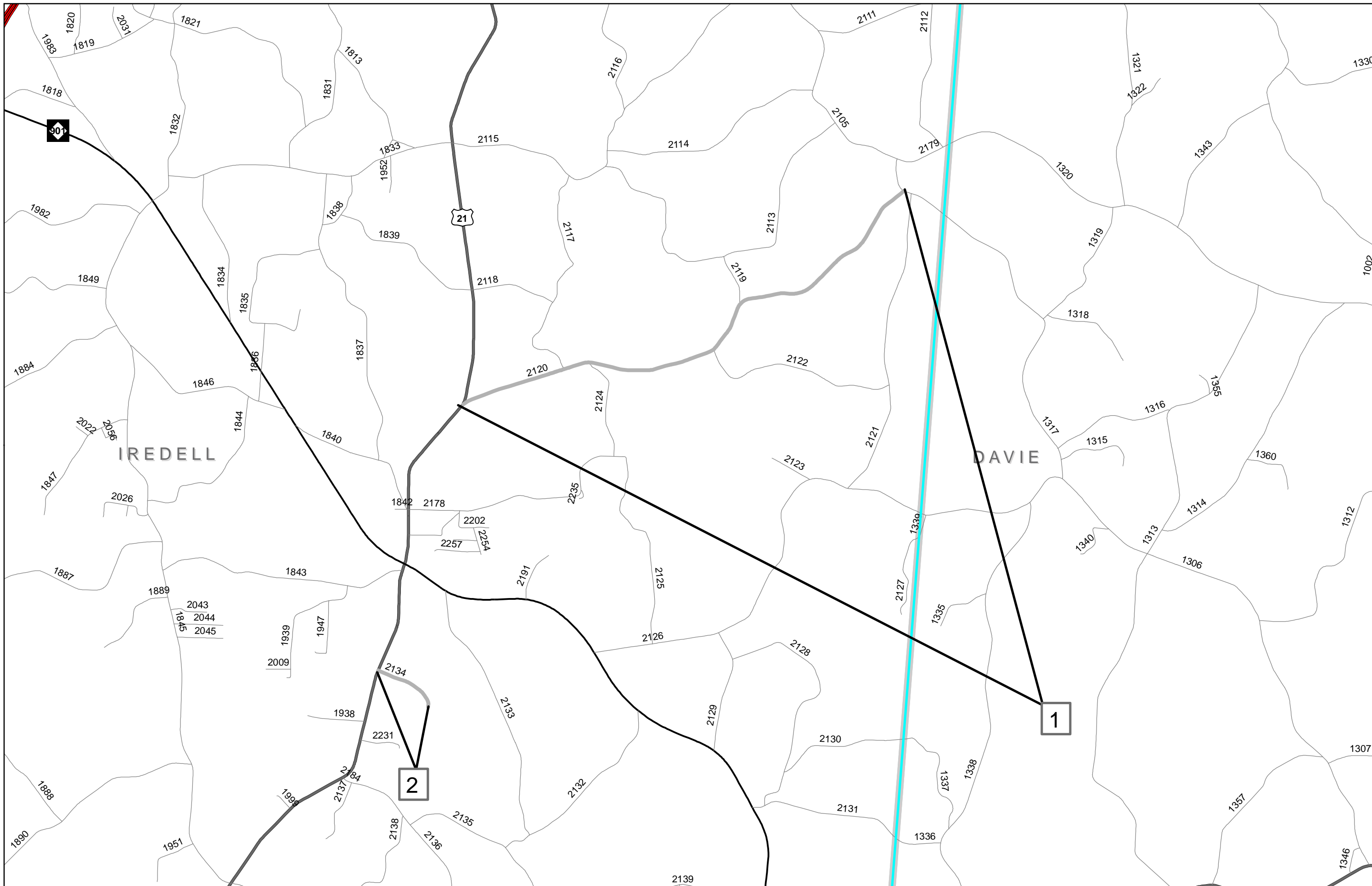
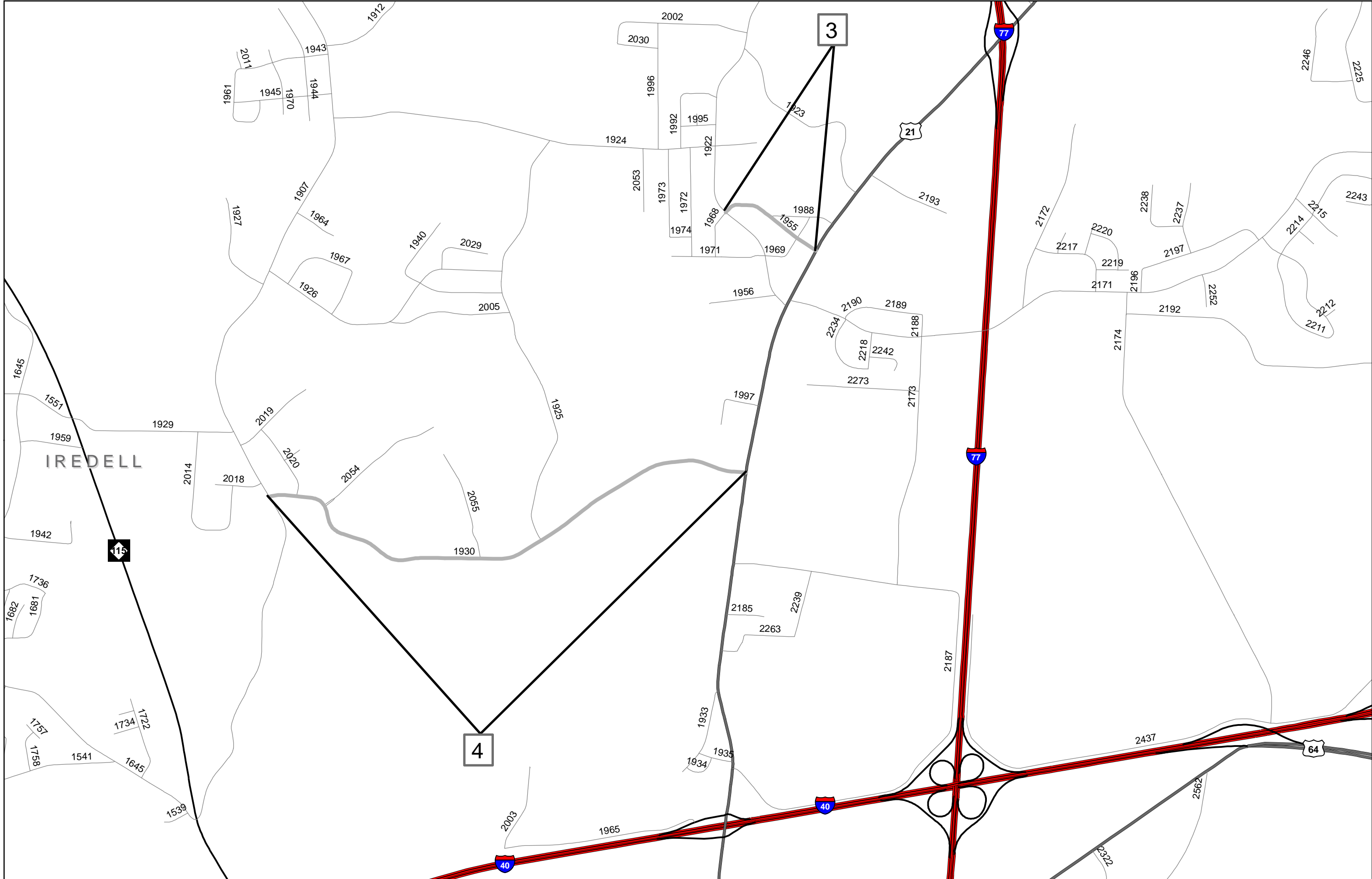


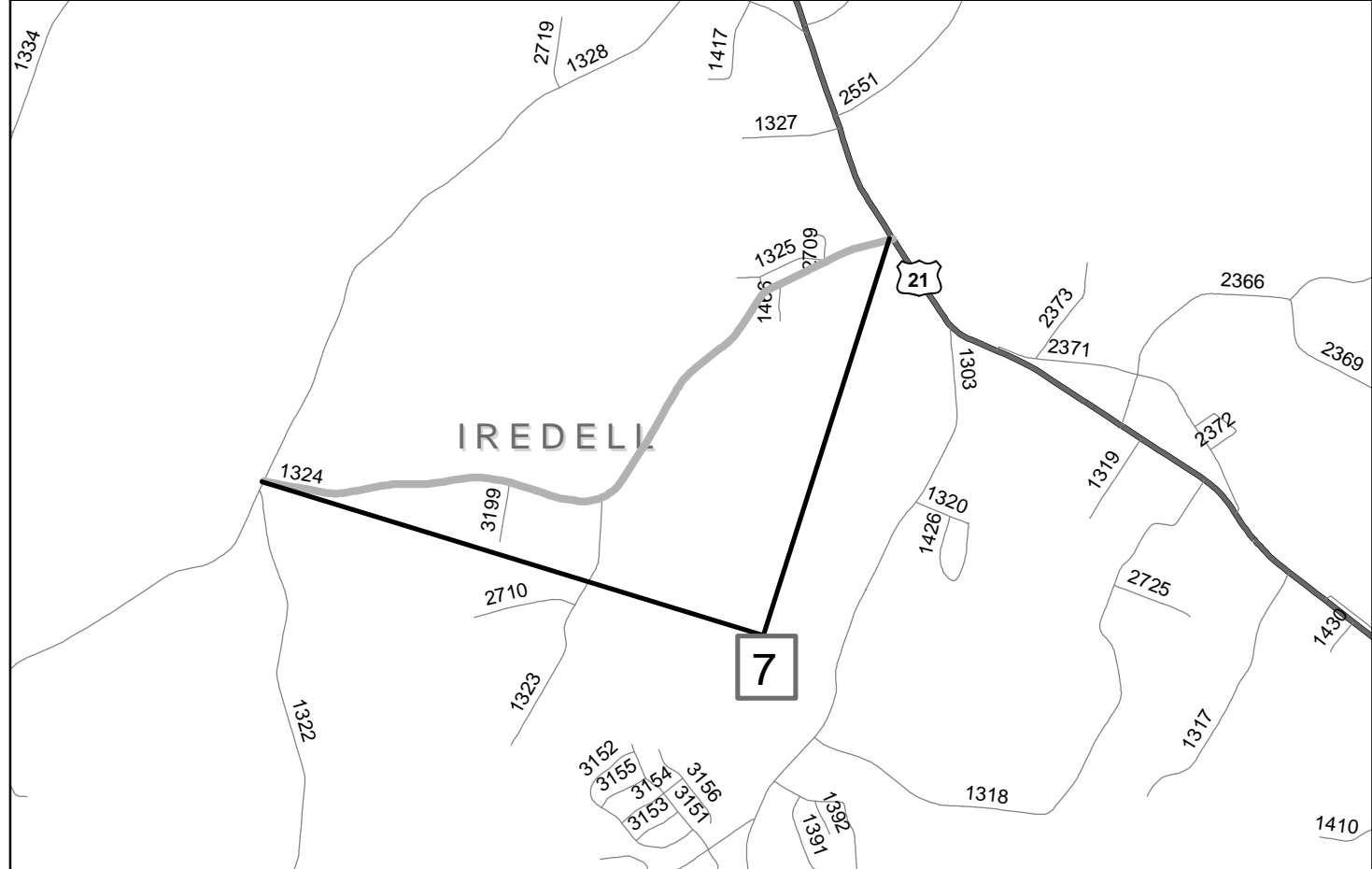
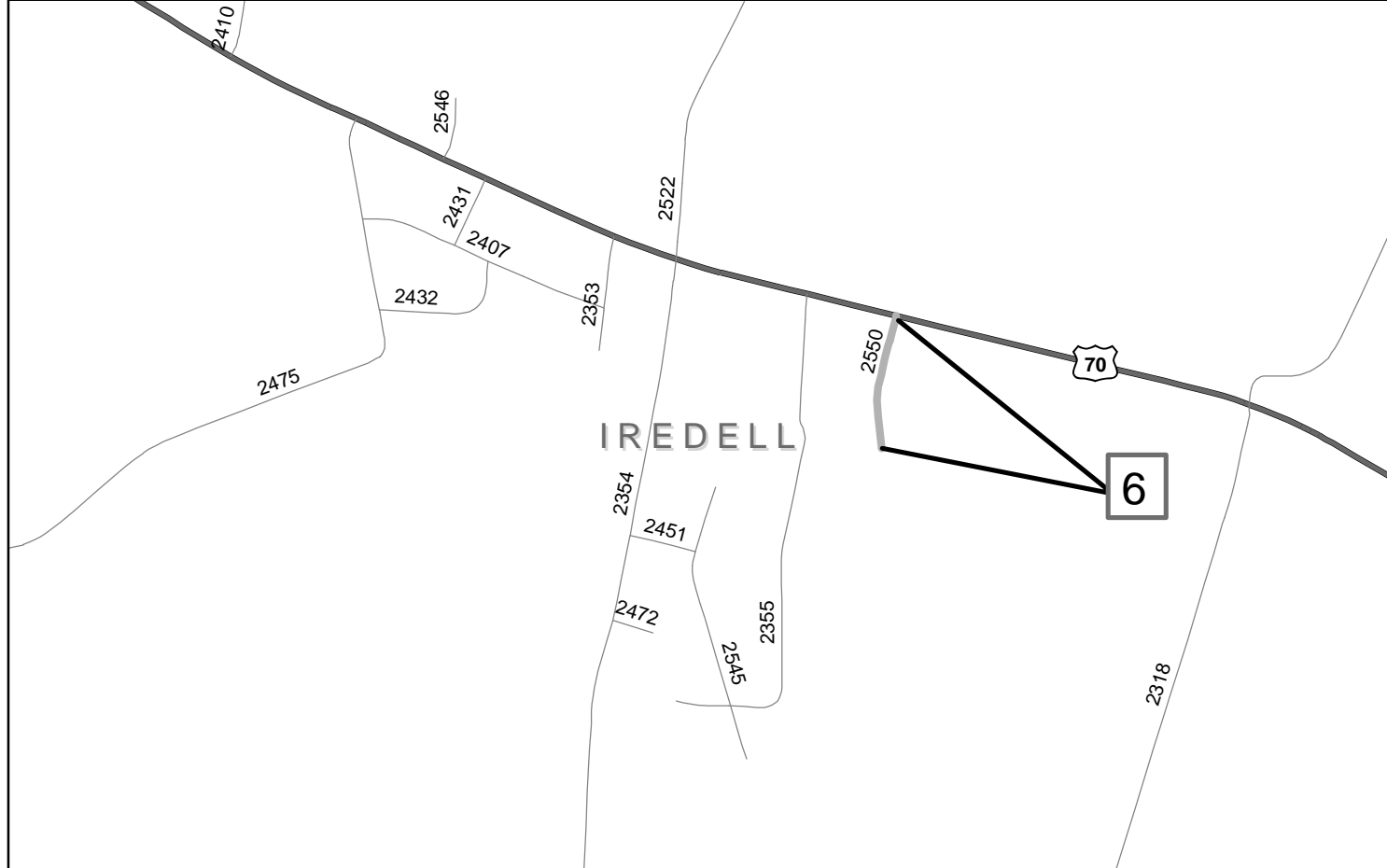
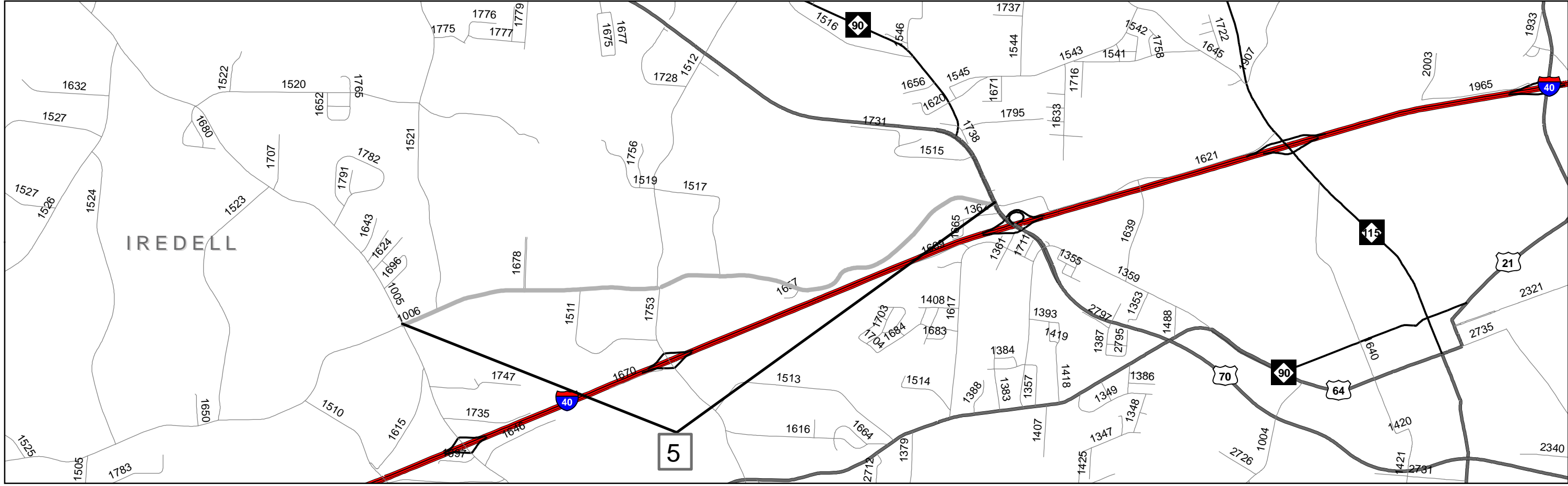
**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

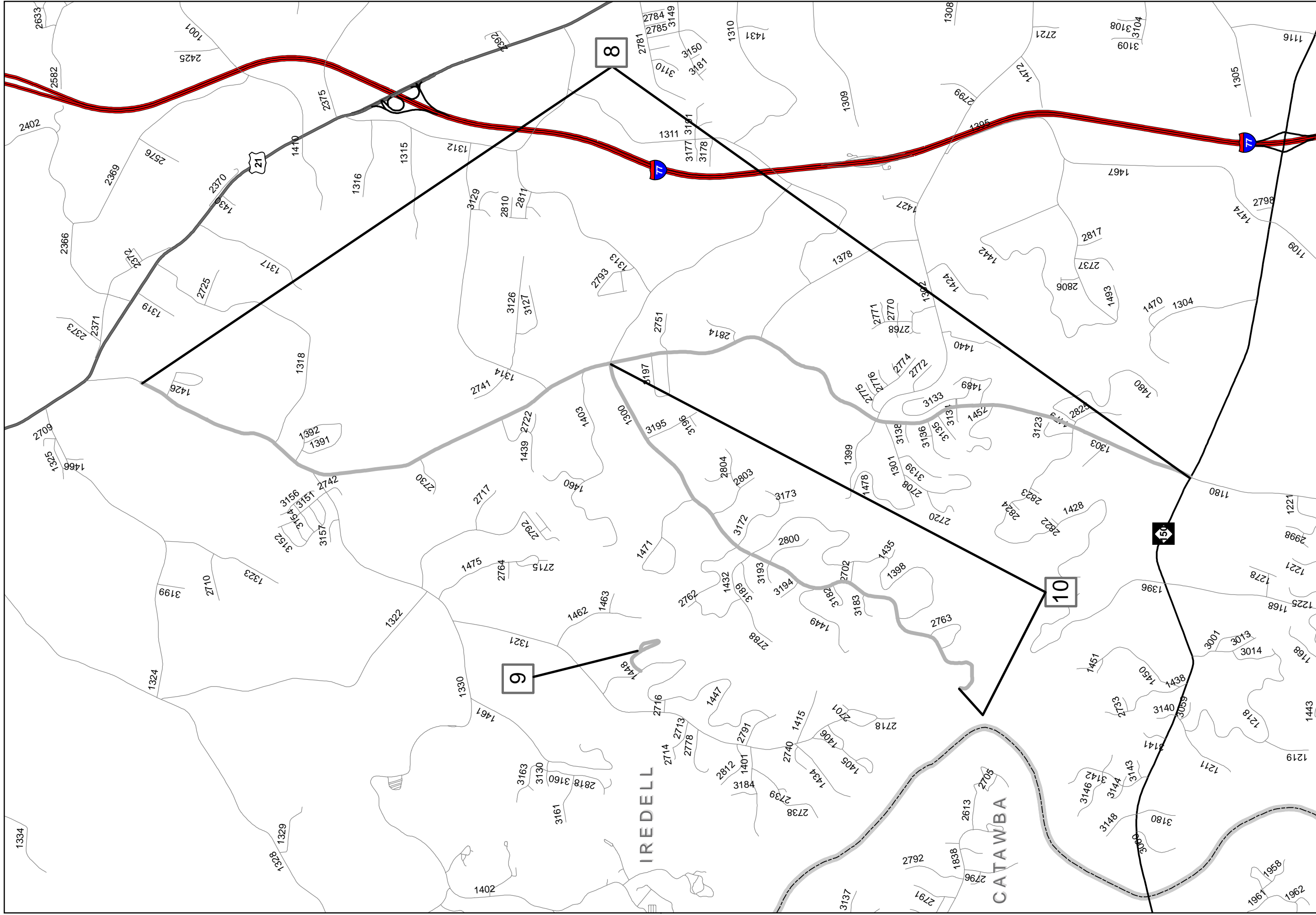
**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**









8

9

10

IREDELL

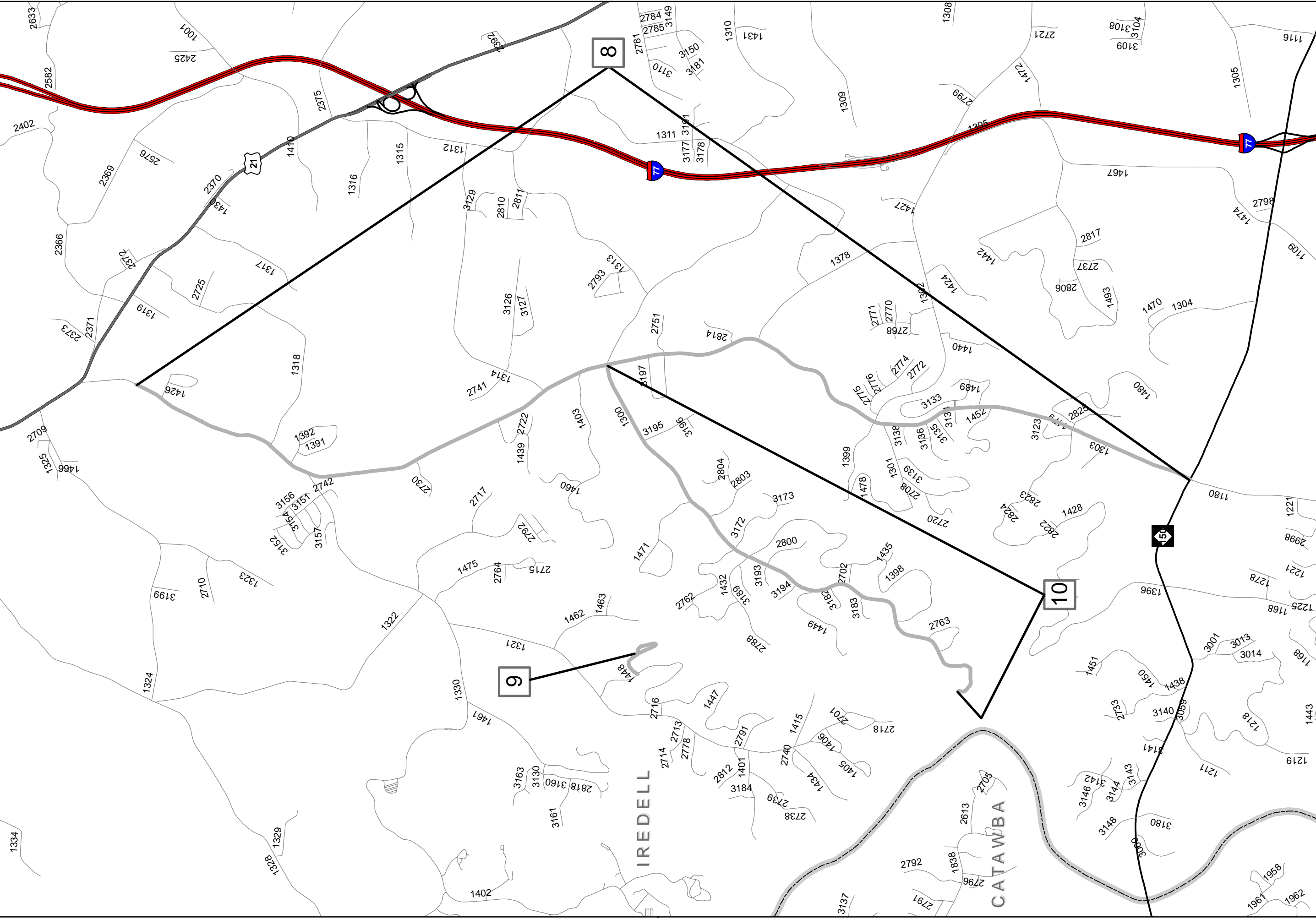
CATAWBA

21

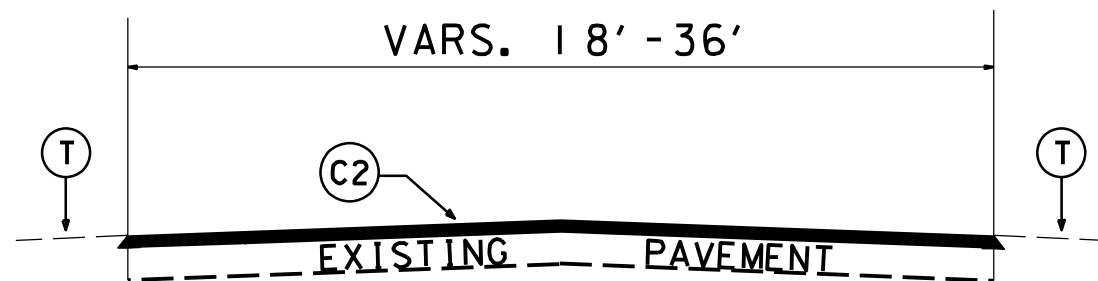
77

77

150

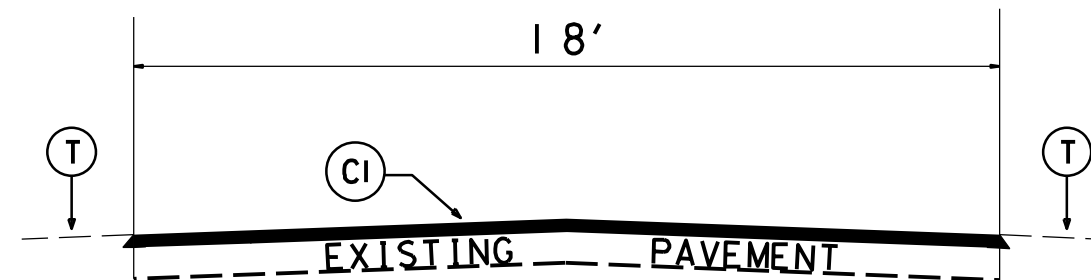


PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY		7
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2018CPT. 12.04.20491		SECONDARY RESURFACING



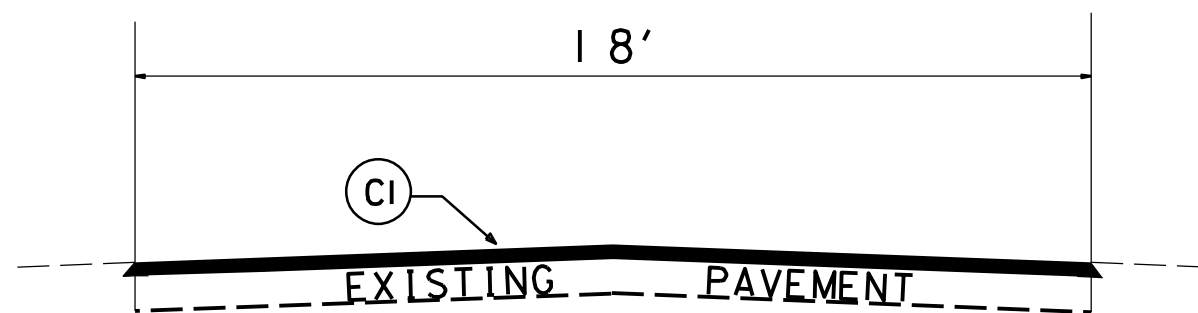
TYPICAL SECTION NO.1

Map 1, 2, 3, 4, 5, 7, 8, 10, 11 (All)
Map 13: 0+00 - 31+20



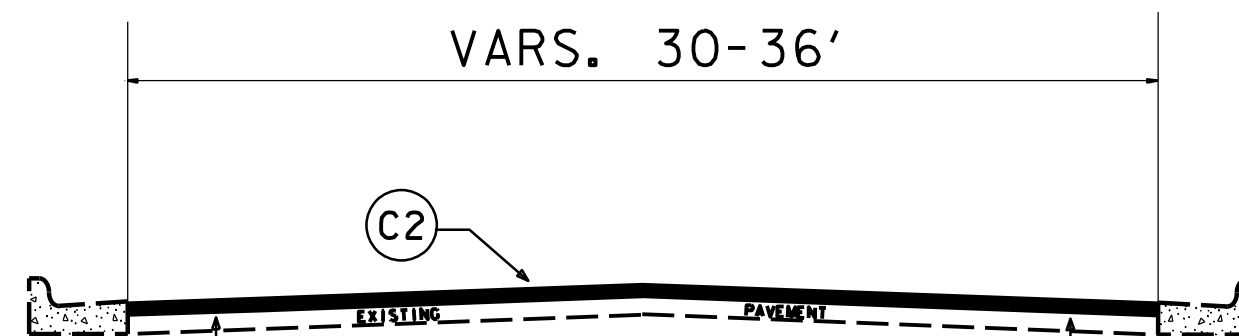
TYPICAL SECTION NO.3

Map 9



TYPICAL SECTION NO.2

Map 6



TYPICAL SECTION NO.4

Map 12

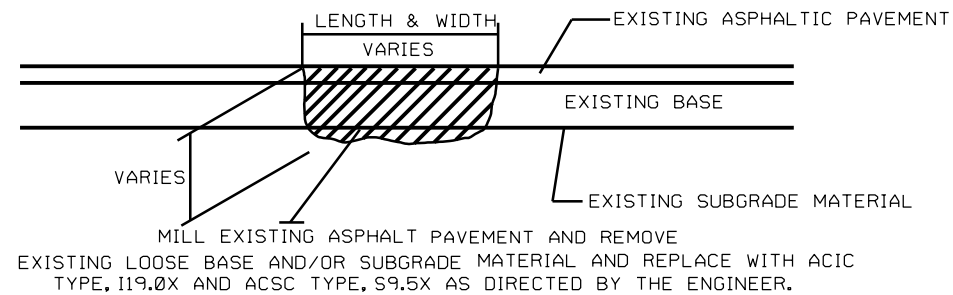
Map 13: 31+20 - 140+50

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.0" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
V1	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH

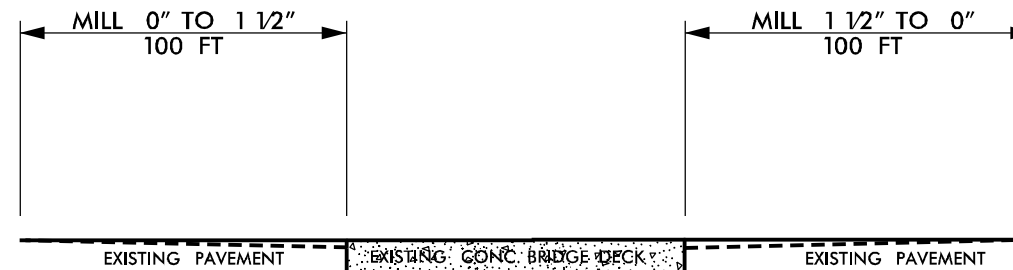
2018-2019
Additional Resurfacing
Typical Sections
Iredell County

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
IREDELL COUNTY		8
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2018CPT. 12. 04. 20491		SECONDARY RESURFACING

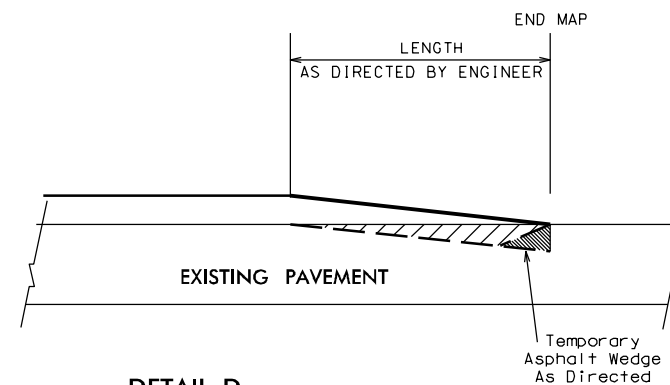
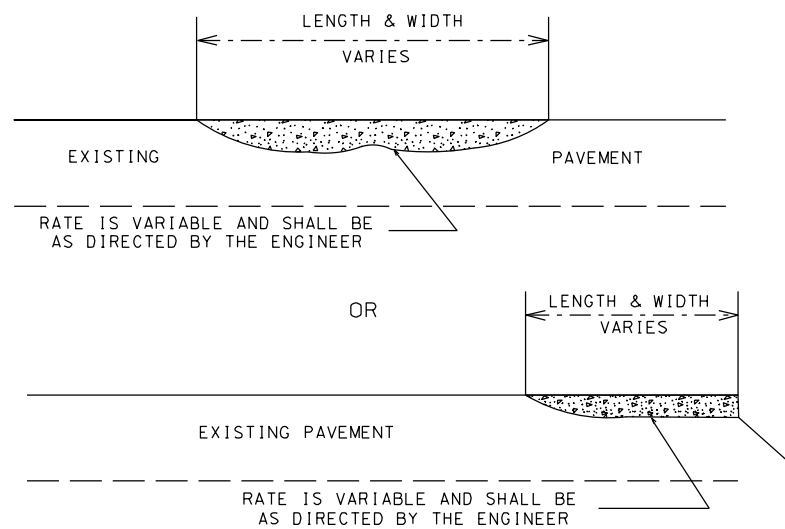
DETAIL A
PATCHING EXISTING PAVEMENT



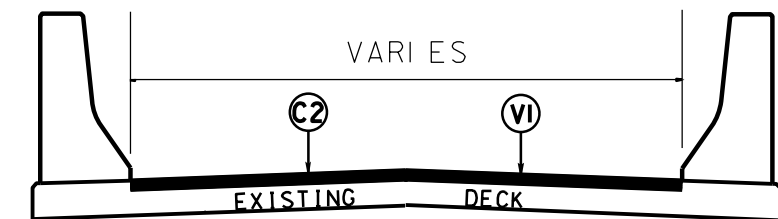
DETAIL C
MILLING BRIDGE APPROACHES



DETAIL B
ASPHALT CONCRETE SURFACE COURSE
TYPE SF9.5A & S9.5B (LEVELING COURSE)

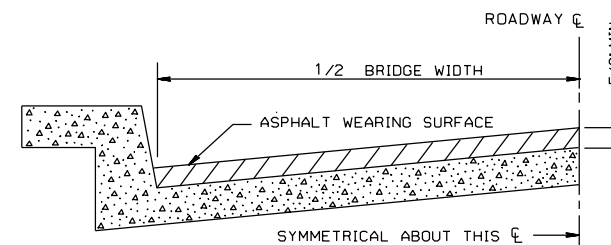


DETAIL D
TIE-IN (INCIDENTAL) MILLING DETAIL



ASPHALT BRIDGE SECTION
Use for all asphalt bridges

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.

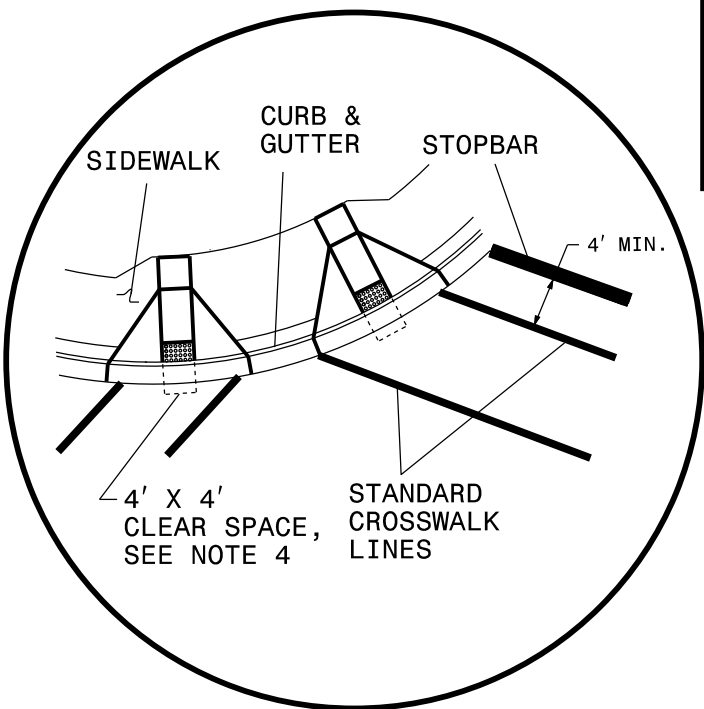
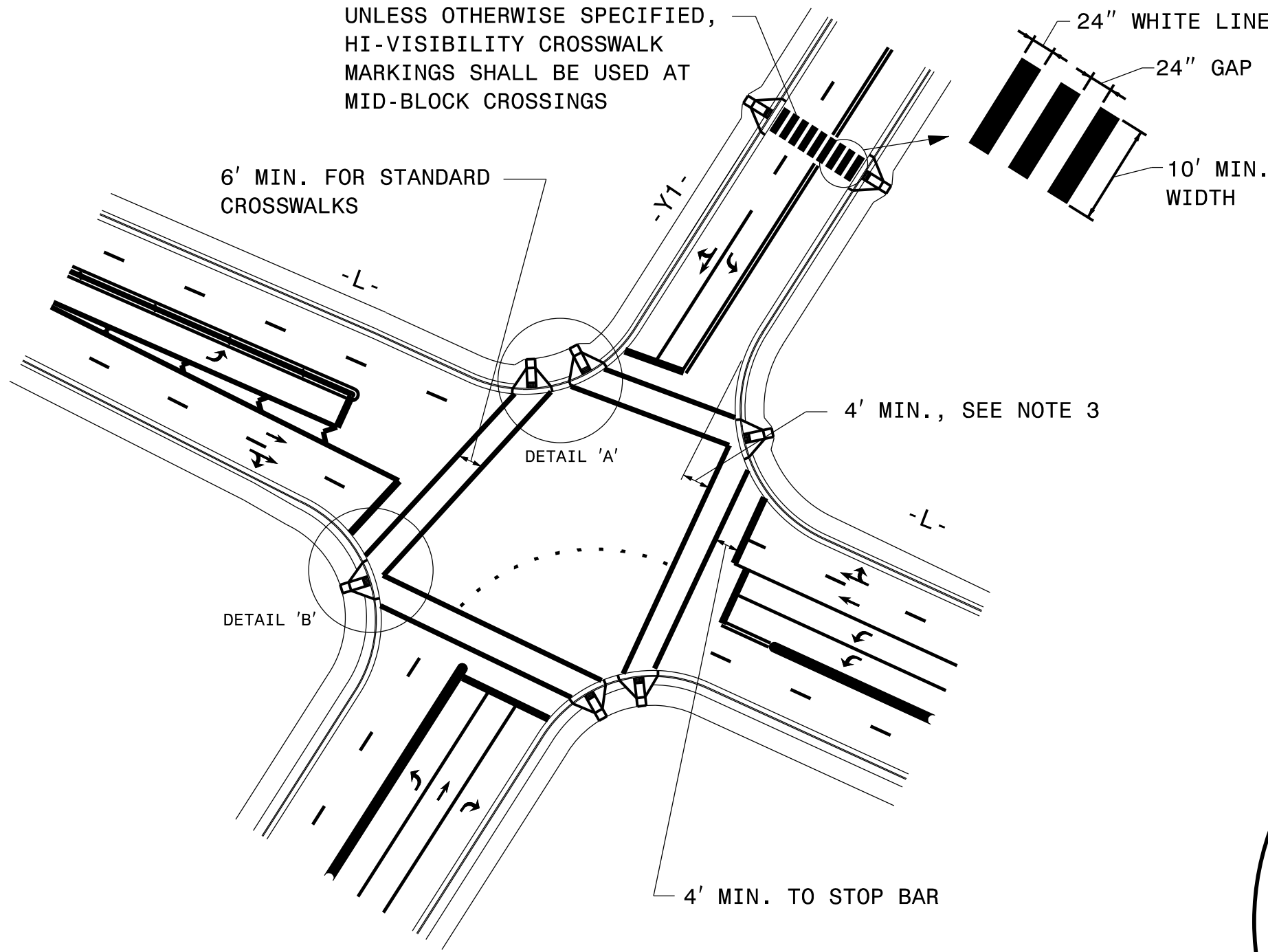
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

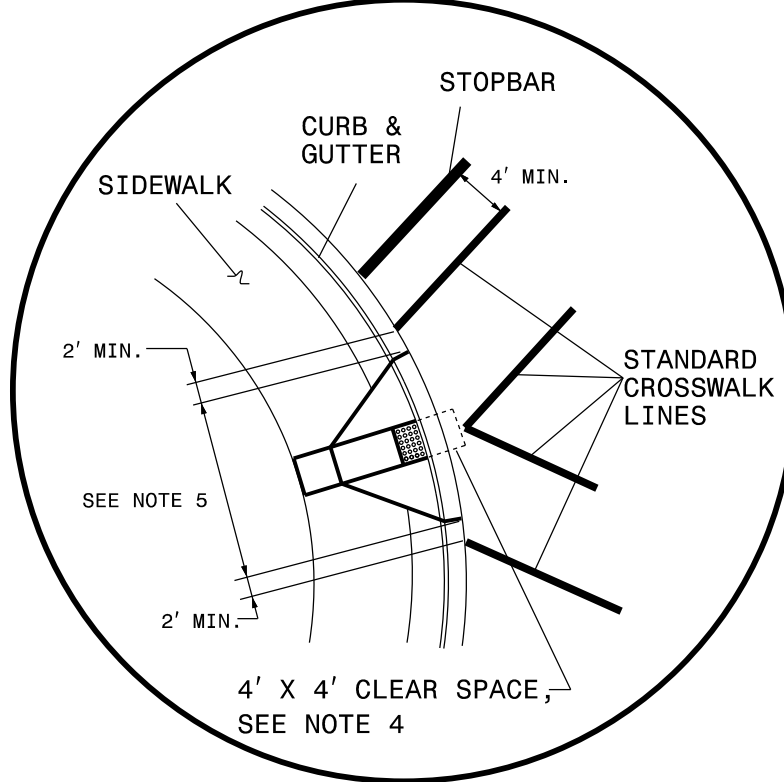
ALL UNPAVED S.R. ROADS TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
SHOULDERS AND DITCHES ARE 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 SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
V1	MILL EXISTING ASPHALT PAVEMENT APPROX. 1.5" IN DEPTH

2018-2019
Additional Resurfacing
Typical Sections
Iredell County



DETAIL 'A'- DUAL CURB RAMPS



DETAIL 'B'- SINGLE DIAGONAL CURB RAMP

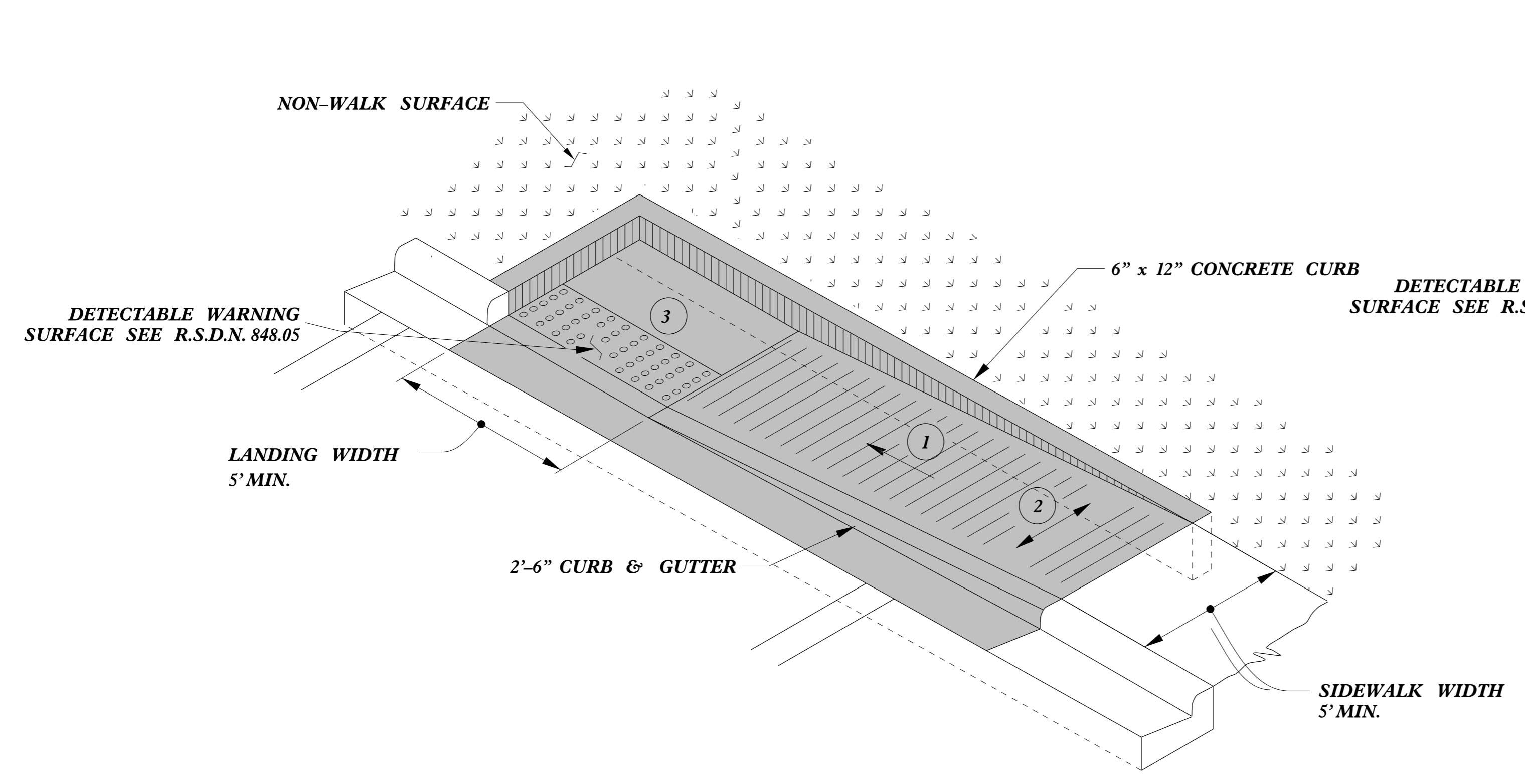
GUIDANCE DETAIL FOR CROSSWALK MARKINGS

NOTES:

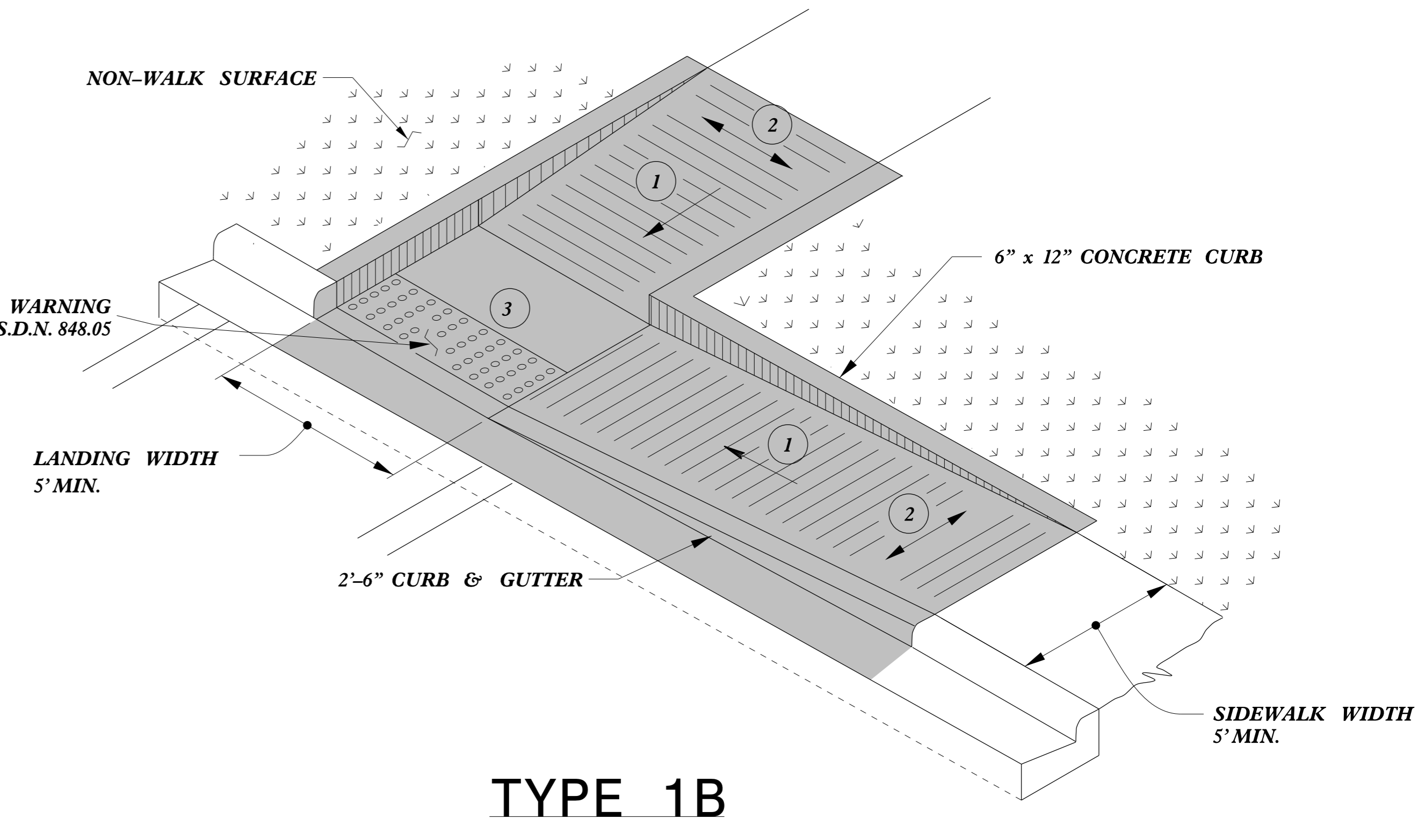
1. USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS NOT STATIONED ON THE DETAIL SHEETS OR WHEN FIELD ADJUSTMENTS REQUIRED MOVING STATIONED MARKINGS AS DIRECTED BY THE ENGINEER. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.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

\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$DCON\$\$\$\$\$
 \$\$\$USERNAME\$\$\$\$\$

5/14/99



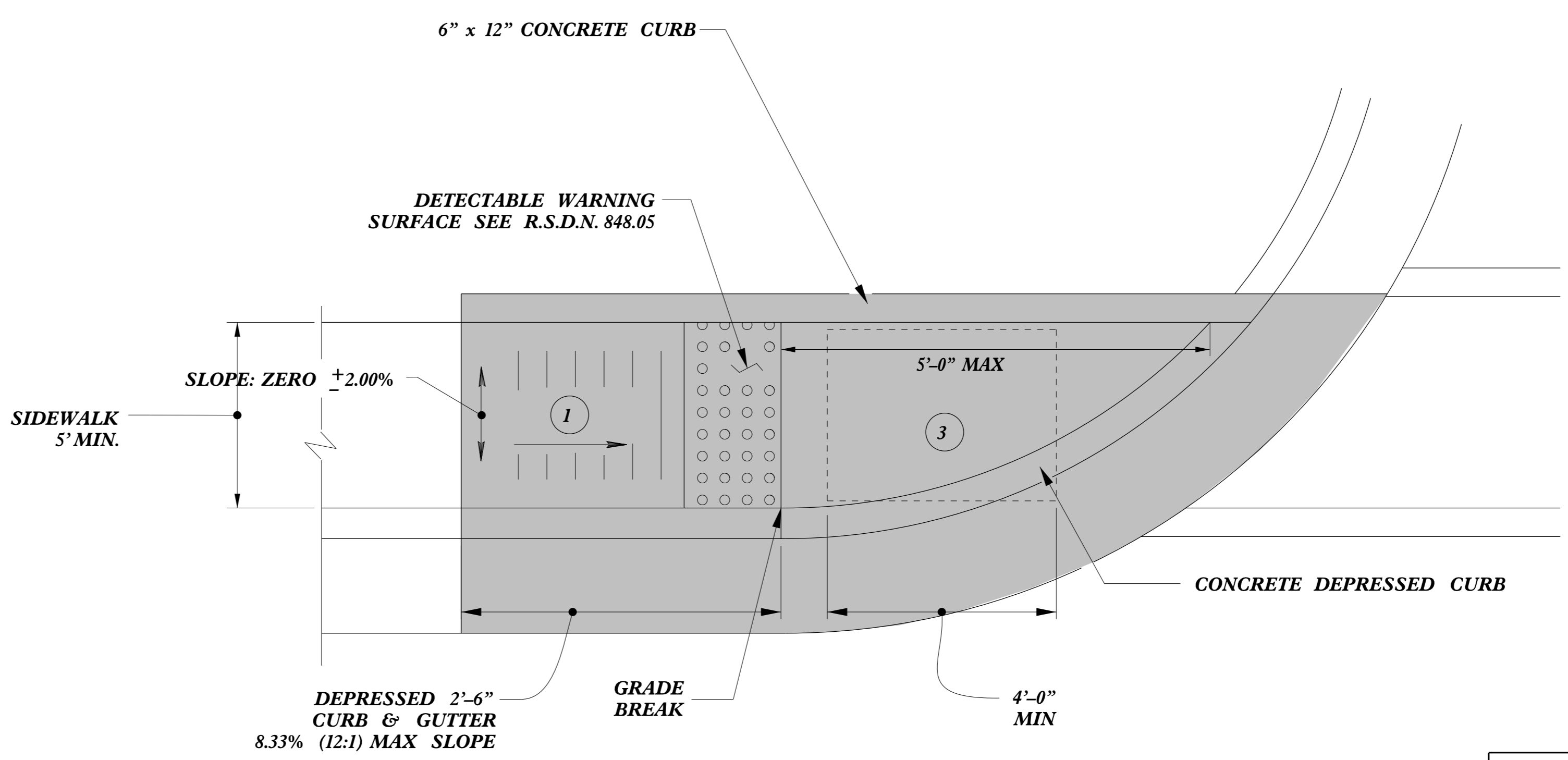
TYPE 1A



TYPE 1B

PAY LIMITS FOR 1 CURB RAMP

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



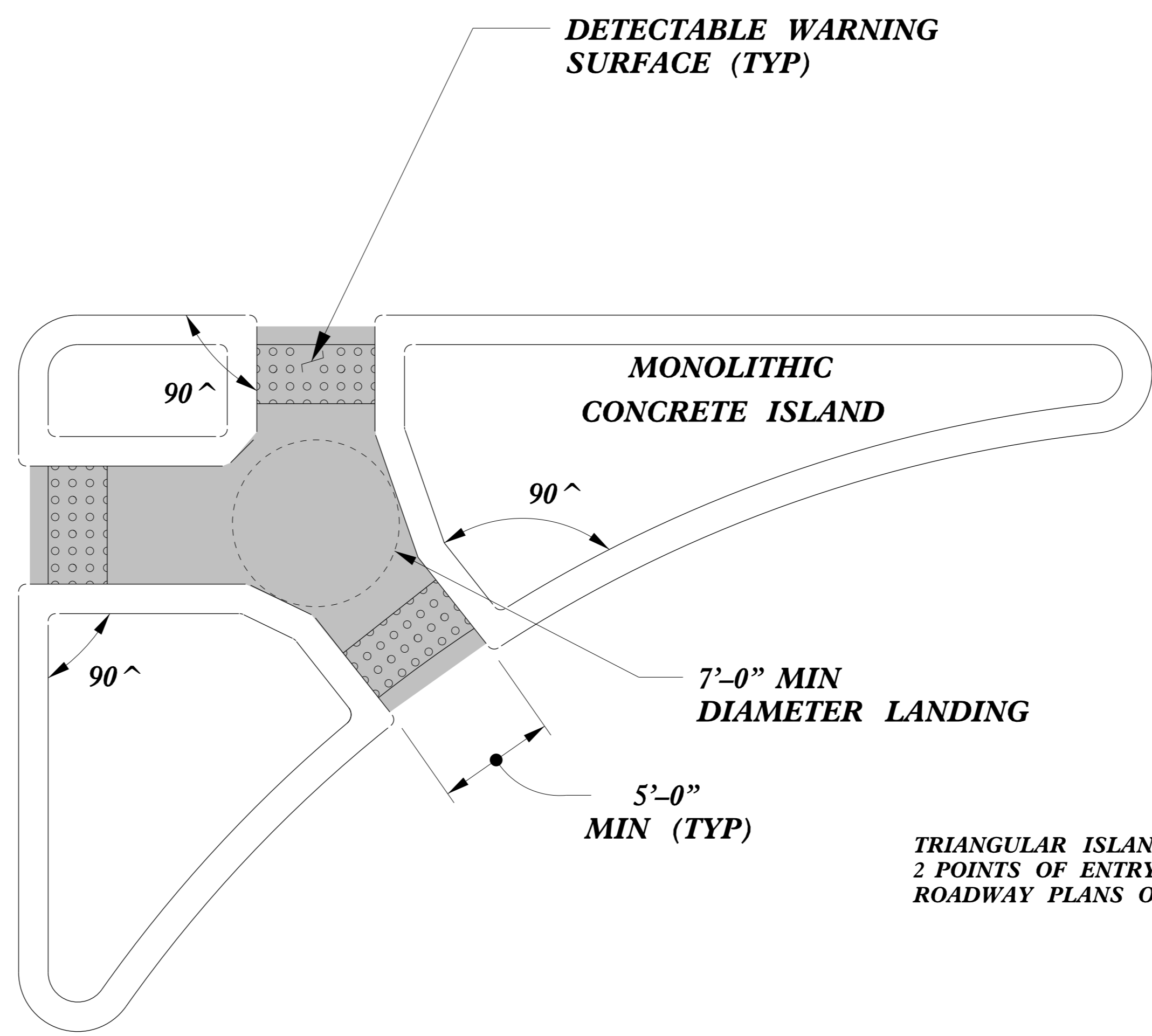
TYPE 1



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

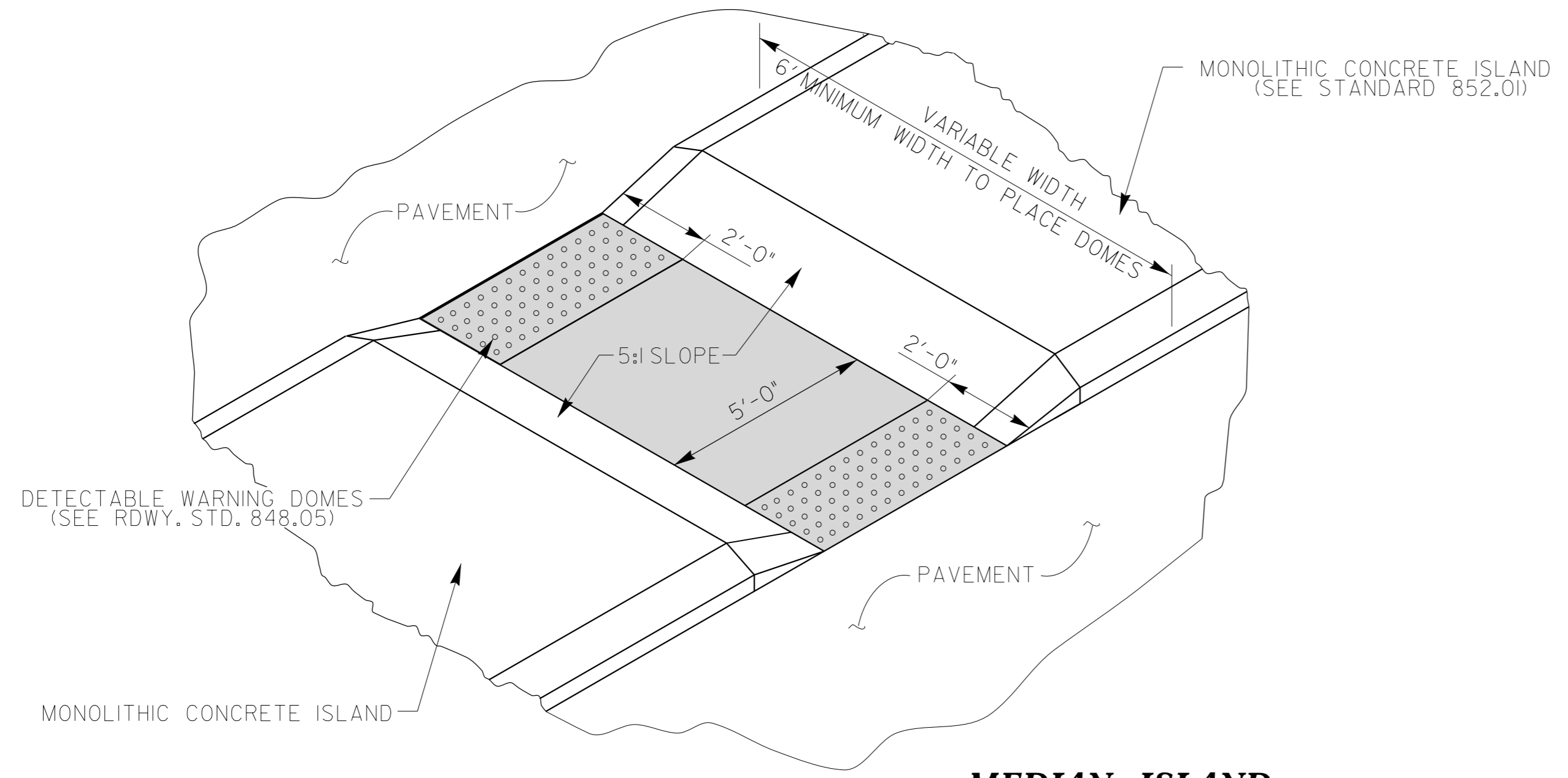
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES



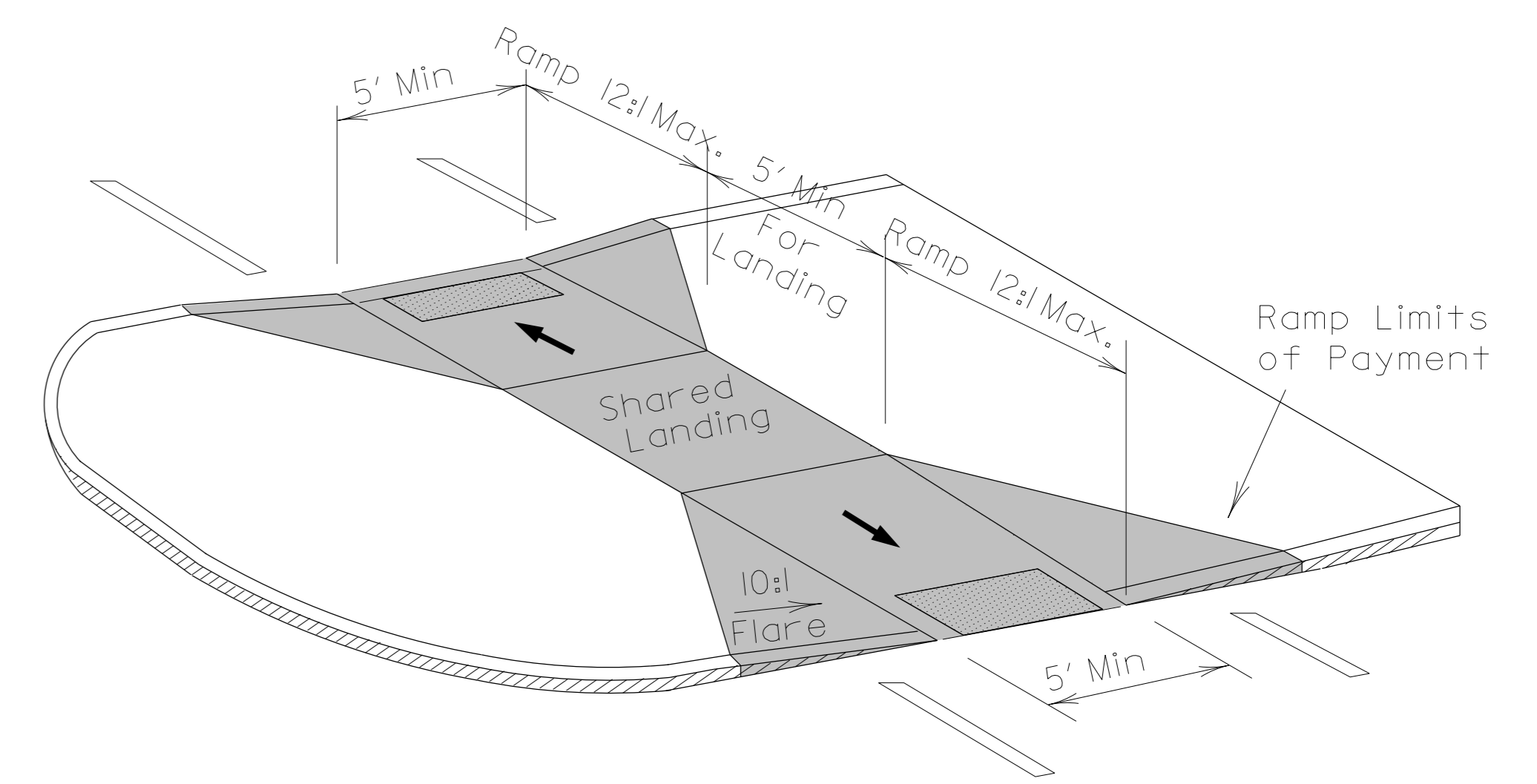
PAY LIMITS FOR 2 OR 3 CURB RAMPS
 (CALCULATE BASED ON NUMBER OF
 SETS OF TRUNCATED DOMES)

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

**TRIANGULAR ISLAND
WITH CUT THROUGH**

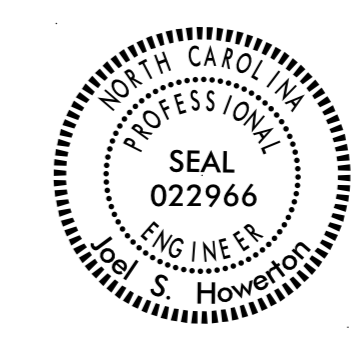


**MEDIAN ISLAND
WITH CUT THROUGH**



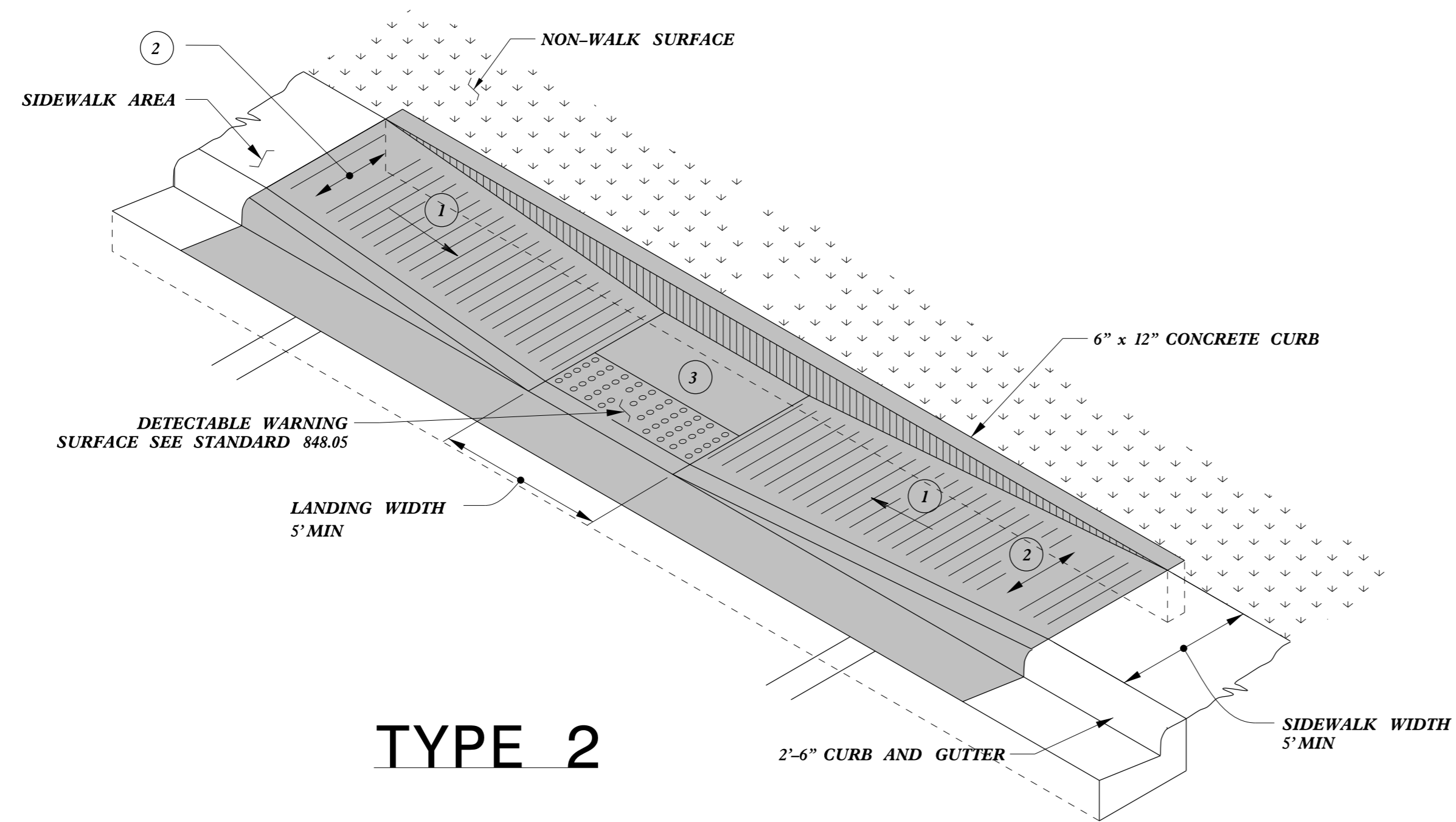
**MEDIAN ISLAND
CURB RAMPS**

5/14/99
 C:\P\2018\2018CPT\12\04\20491\DWG\CURB RAMPS\2018CPT.12.04.20491.CURB RAMPS.DWG
 USER: J.S. HOWERTON
 DATE: 7/7/11
 TIME: 10:00 AM
 PLOT: 11



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

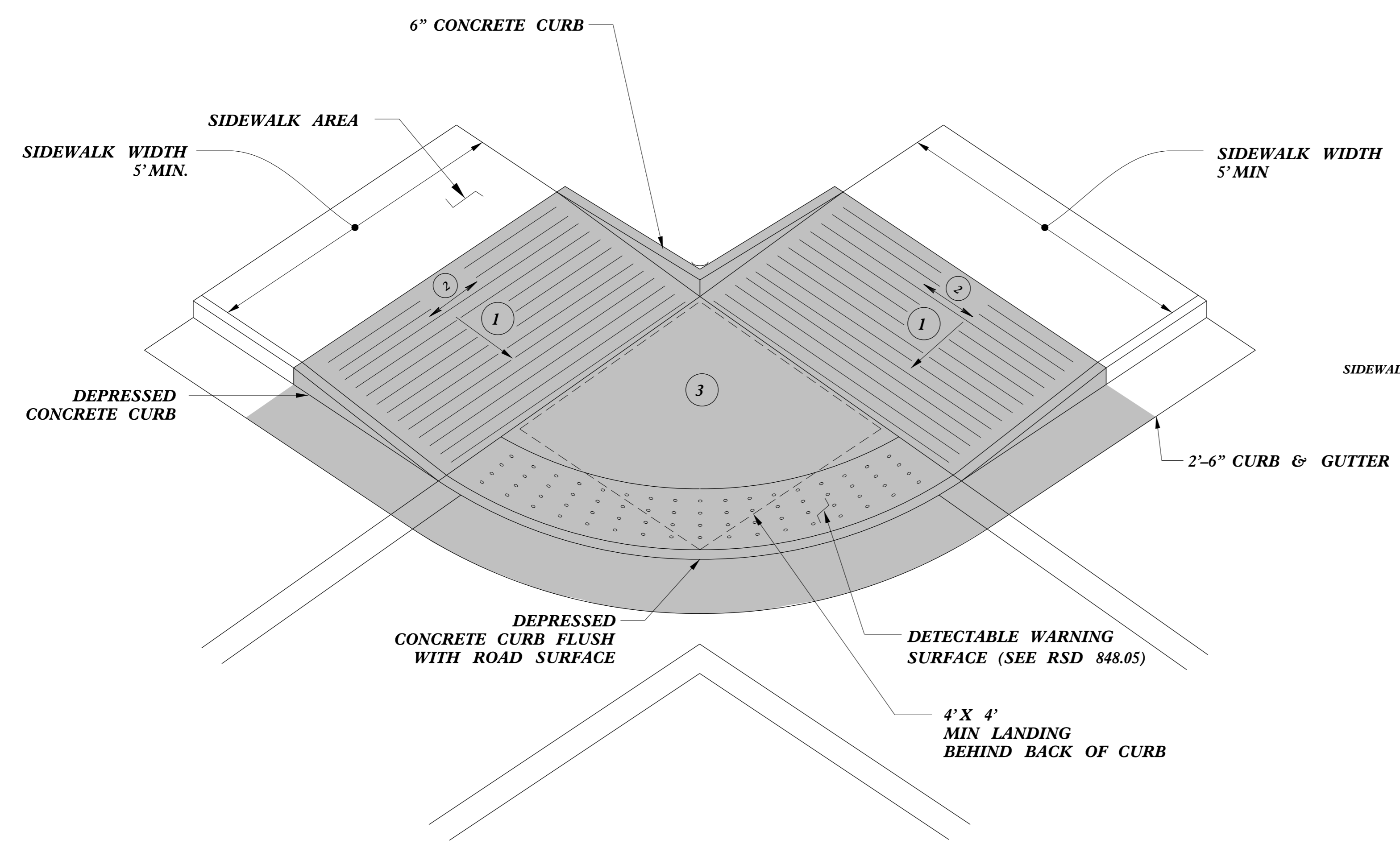
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Median or Turn Lane Islands	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn	



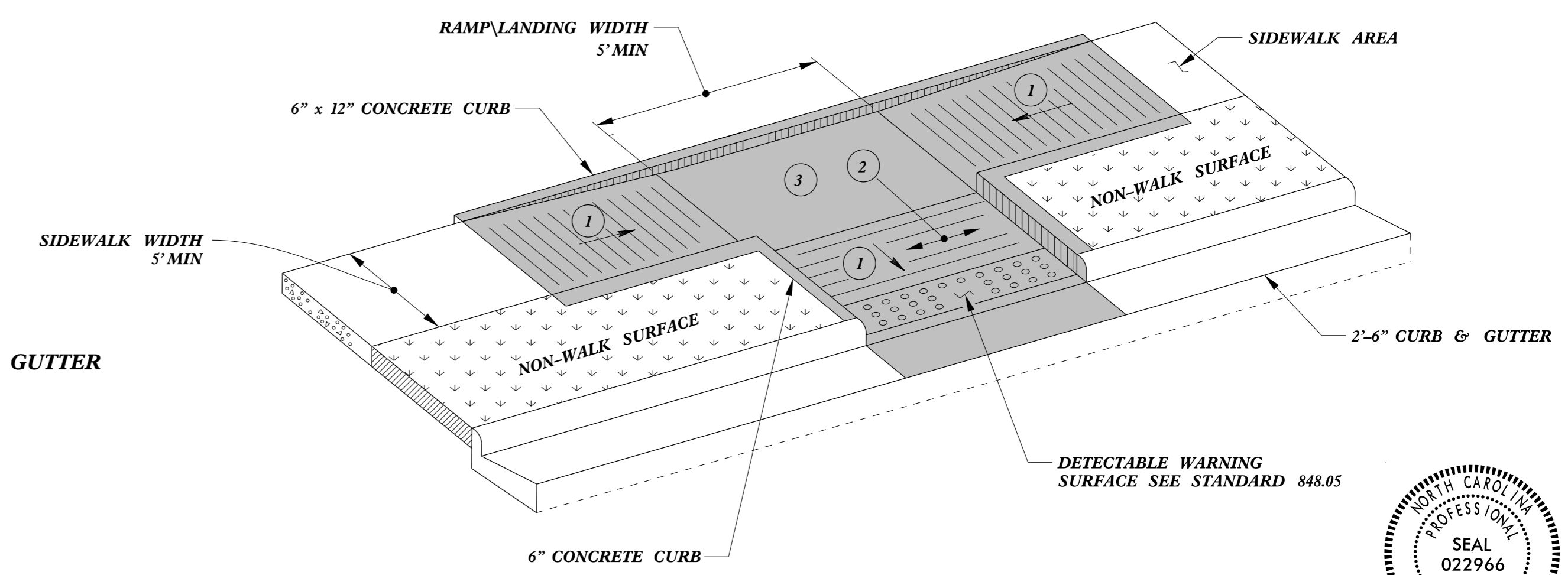
TYPE 2

PAY LIMITS FOR 1 CURB RAMP

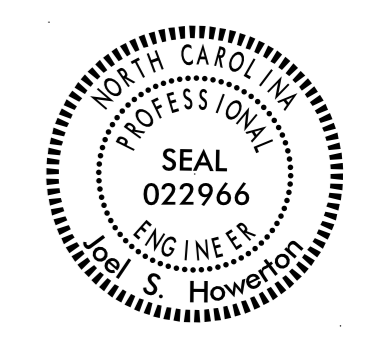
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



TYPE 2A



TYPE 3

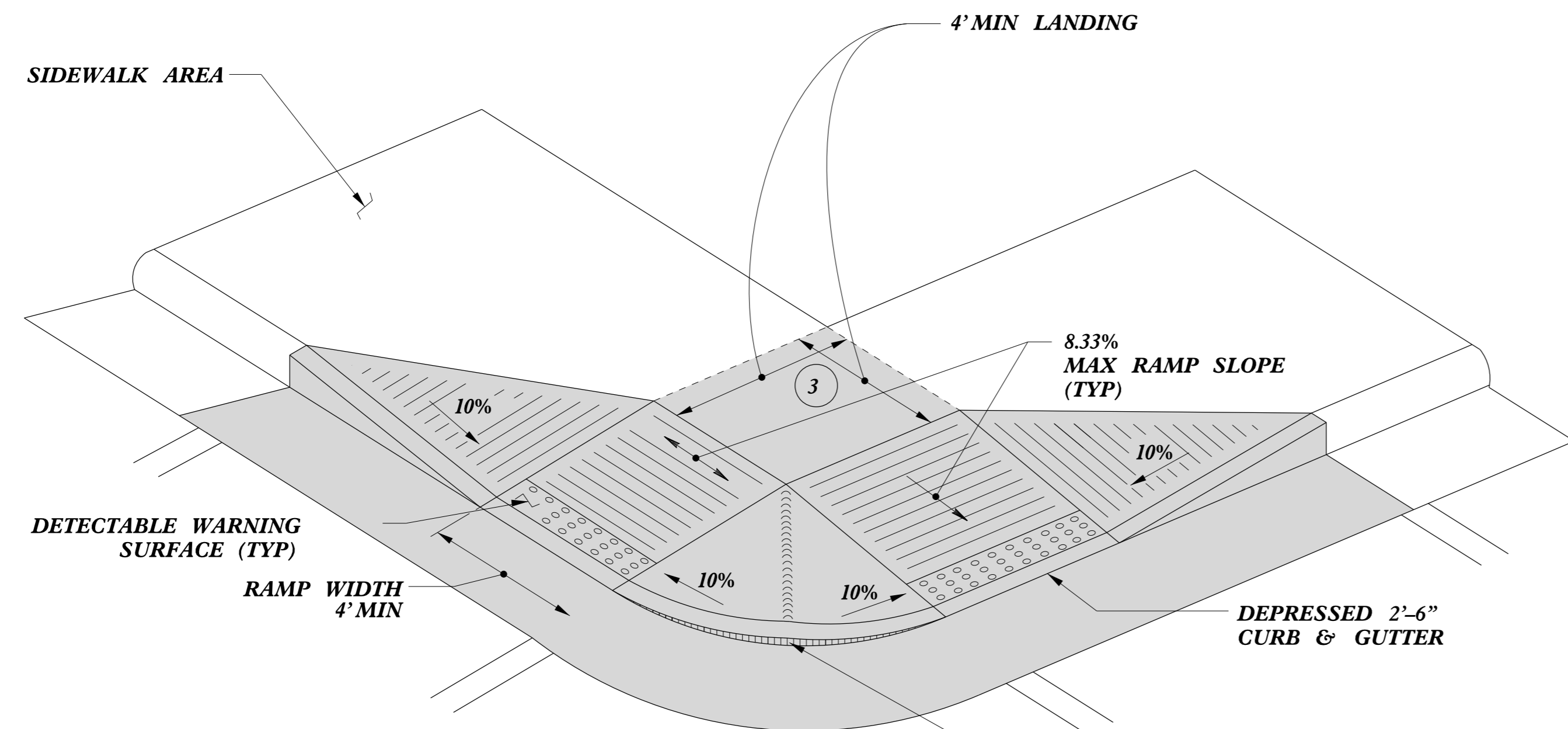


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

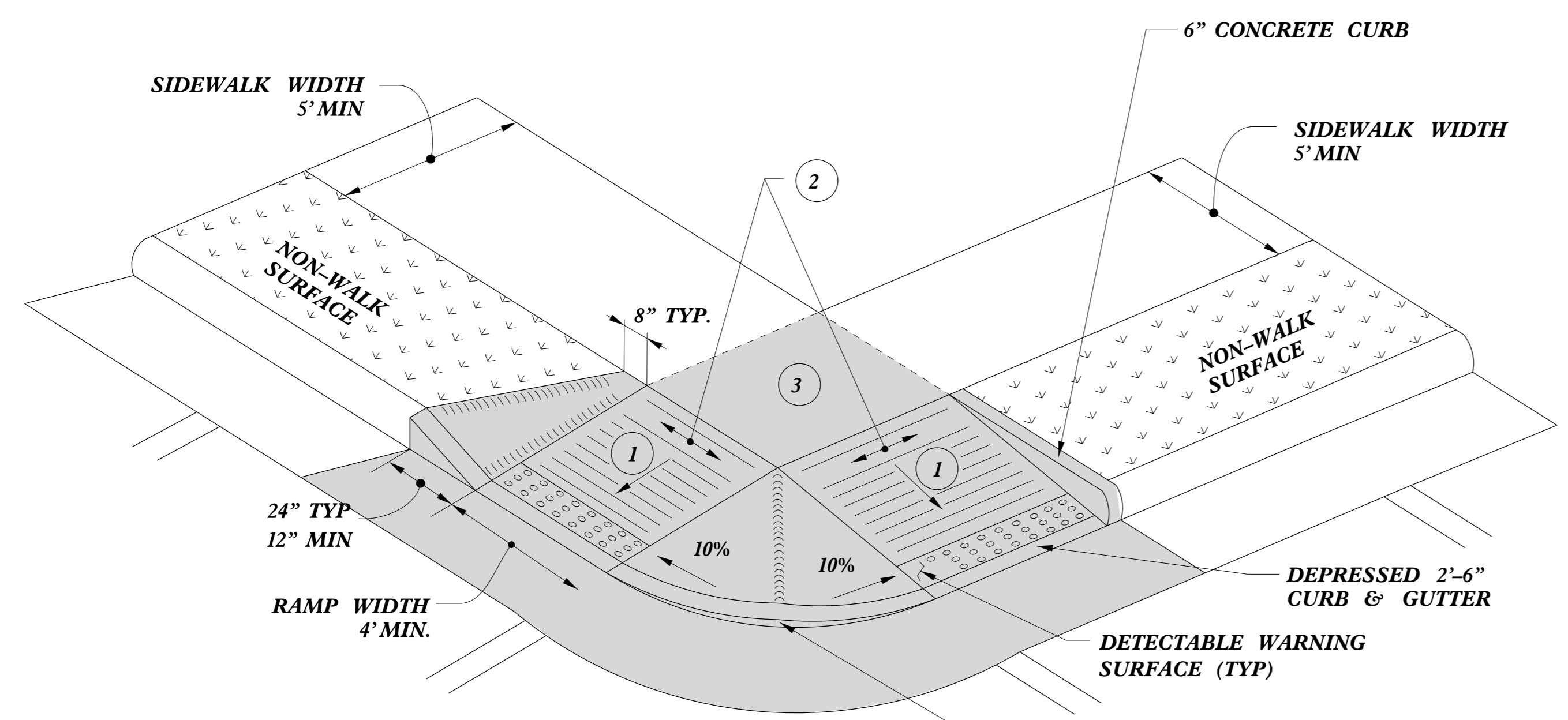
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Parallel Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn	

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

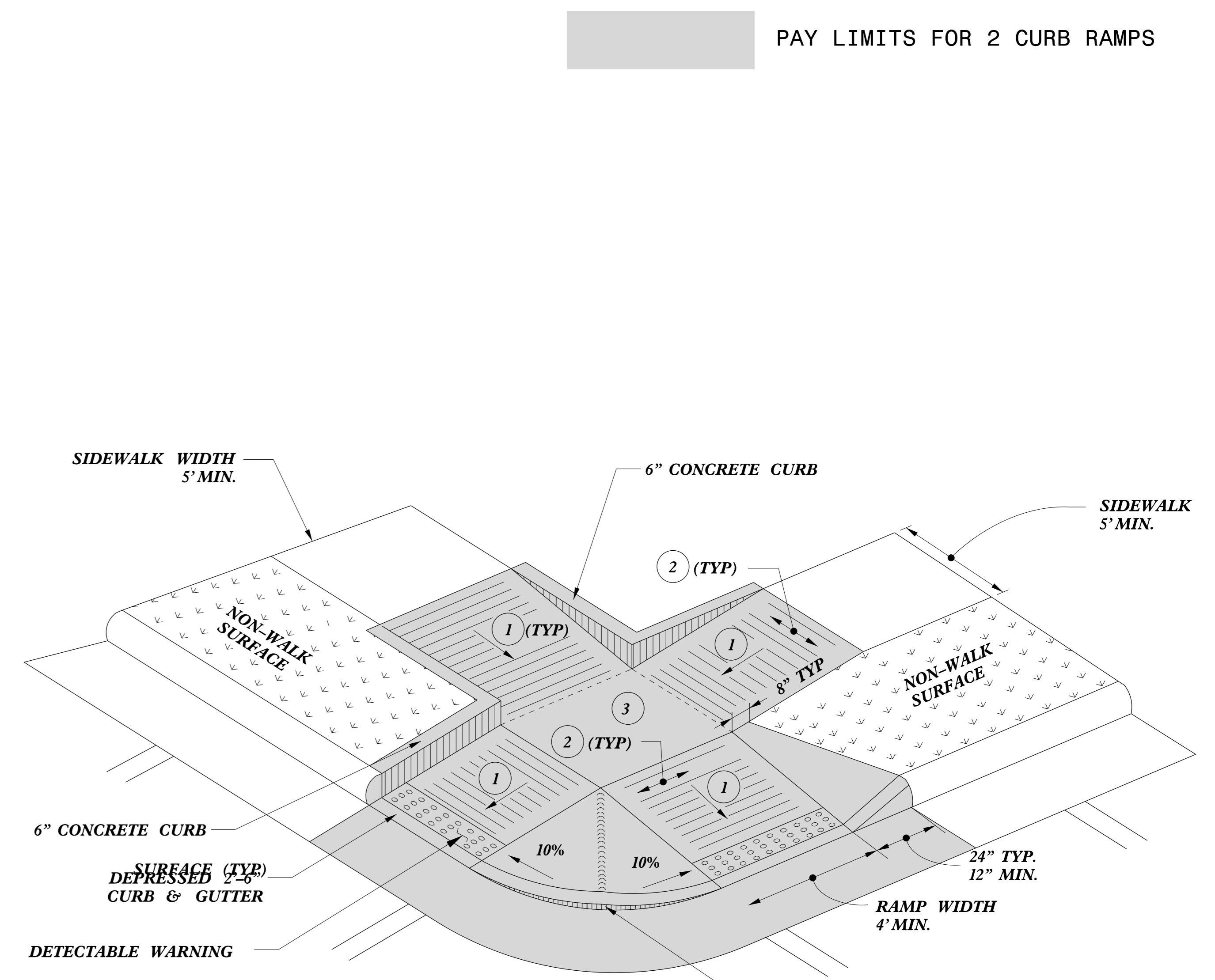
5/14/99
C:\P\2018\2018CPT.12.04.20491\DWG\2018CPT.12.04.20491_12.dwg
PLOT DATE: 7/7/11 10:00 AM
PLOT BY: J.S. HOWERTON
PLOT DEVICE: HP DesignJet 5000PSN
PLOT SCALE: 1.0000
PLOT SHEET: 12 OF 12
PLOT STATUS: SUCCESS



TYPE 4



TYPE 4A



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.



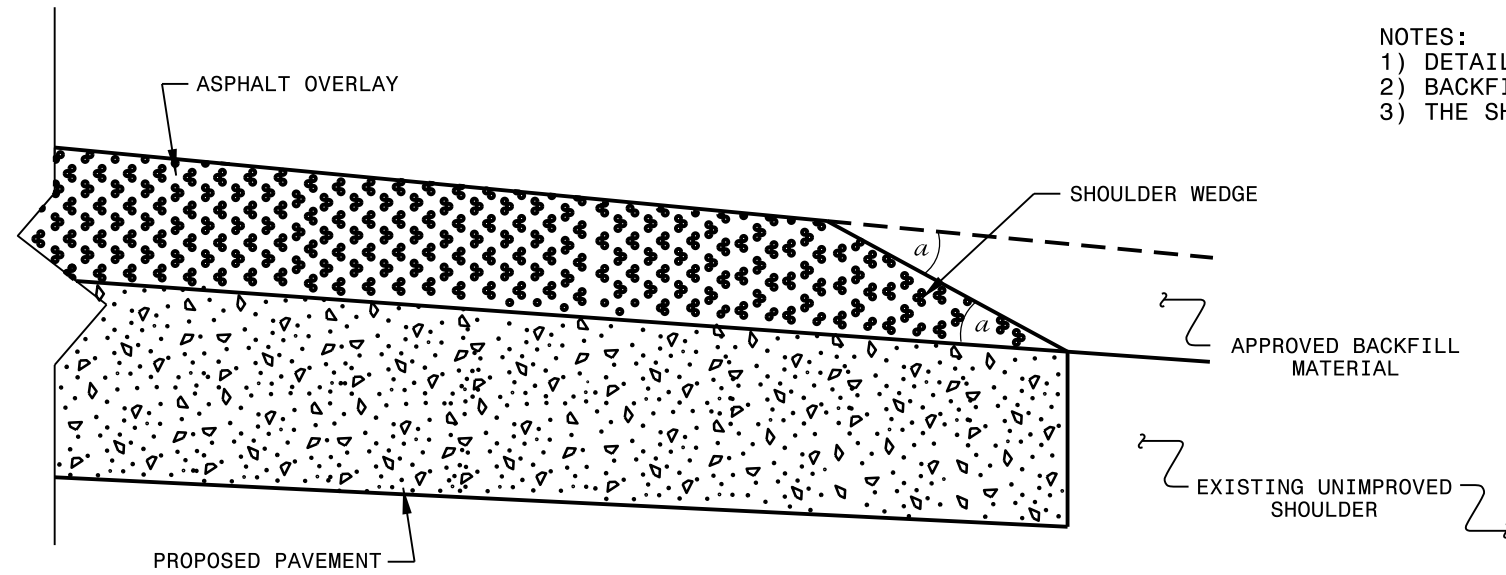
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Shared Landing	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

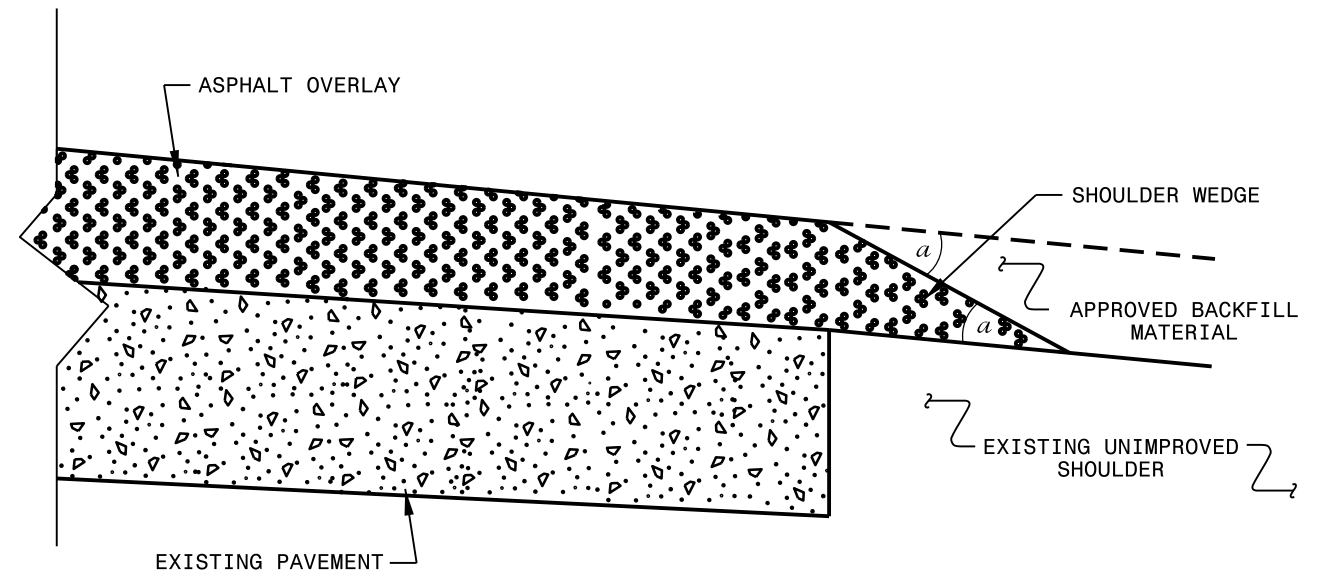
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99
C:\P\2018\2018CPT\2018CPT.12.04.20491\2018CPT.12.04.20491.dwg
J.S. HOWERTON
022966
7/7/11

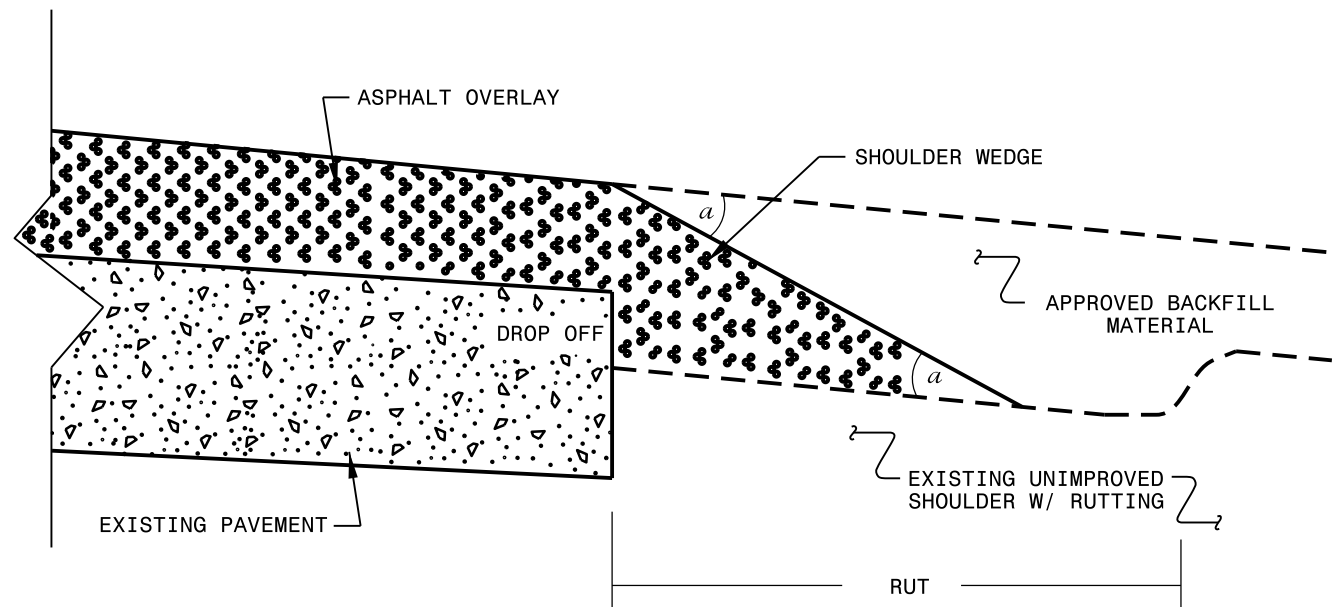
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN
USER NAME

SUMMARY OF QUANTITIES

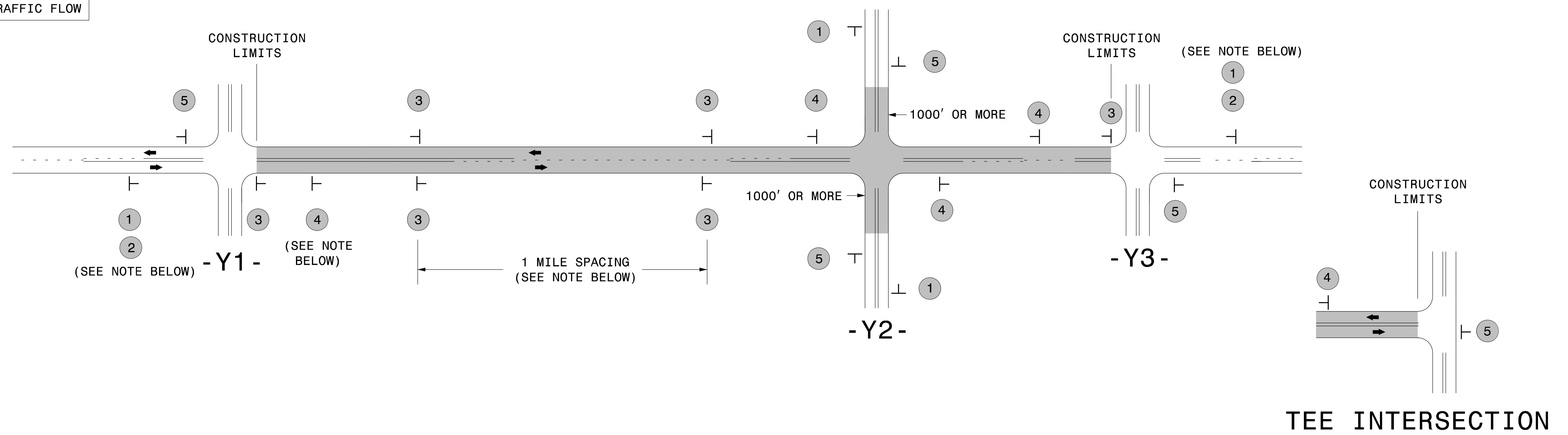
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0255000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1520000000-E	1525000000-E	1525100000-E	1575000000-E	1704000000-E	2600000000-N	2605000000-N	2830000000-N	2845000000-N	5250000000-N	
												AGGREGATE SHOULDER BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, SF9.5A	LEVELING COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	RETROFIT EXISTING CURB RAMP	CONCRETE CURB RAMP	ADI. OF MANHOLES	ADI. OF METER OR VALVE BOX	PORTABLE LIGHTING	
											MI	FT	TON	TONS	SMI	SY	SY	SY	TONS	TONS	TONS	TON	TONS	TONS	EA	EA	EA	EA	LS
2018CPT.12.04.20491	Iredell	1	SR 2120 (POWELL BRIDGE RD.)	FROM US 21 TO SR 2105 (TURKEYFOOT RD.)	1	2		NO	NO	4.13	19	661	205	8.26	375	430	60	4,254	1,000			320	850						
2018CPT.12.04.20491	Iredell	2	SR 2134 (ALEXANDER FARM RD.)	FROM US 21 TO DEAD END	1	2		NO	NO	0.519	20	85	26	1.04			20	563	20			35	150				1		
2018CPT.12.04.20491	Iredell	3	SR 1955 (E. EDISON DR.)	FROM SR 1922 (SHUMAKER DR.) TO US 21	1	2		NO	NO	0.391	20	65	20	0.78			60	424	150			35	15				2		
2018CPT.12.04.20491	Iredell	4	SR 1930 (FORT DOBBS RD.)	FROM SR 1907 (S. CHIPPLEY FORD RD.) TO US 21	1	2		NO	NO	1.93	22	310	100	3.86	250	500	300	2,302	820			191	200				1		
2018CPT.12.04.20491	Iredell	5	SR 1006 (ISLAND FORD RD.)	FROM SR 1005 (OLD MTN. RD.) TO US 64	1	2		NO	NO	4.055	20-36	650	225	8.11		1,900	260	5,000	1,500			398	550			3	1		
2018CPT.12.04.20491	Iredell	6	SR 2550 (DELLWOOD DR.)	FROM US 70 TO DEAD END	2	2		NO	NO	0.149	18		15							150	15	11	50						
2018CPT.12.04.20491	Iredell	7	SR 1324 (TALLEY RD.)	FROM US 21 TO SR 1328 (EAST MONBO RD.)	1	2		NO	NO	2.125	20	350	100	4.25	160	450	80	2,300	300			158	650			8	6		
2018CPT.12.04.20491	Iredell	8	SR 1303 (PERTH RD.)	FROM 0.4 MILES NORTH OF SR 1318 (AUTUMN LEAF RD.) TO NC 150	1	2		NO	NO	6.667	VAR. 22-36	1,100	400	13.33		1,075	7,000	8,750	2,500			688	2,000			3	1		
2018CPT.12.04.20491	Iredell	9	SR 1448 (HONEYDEW CIRCLE)	FROM SR 1447 (STILLWATER RD.) TO END OF LOOP	3	2		NO	NO	0.455	18	75	25	0.91			20			300	445	47	40						
2018CPT.12.04.20491	Iredell	10	SR 1300 (FERN HILL RD.)	FROM SR 1303 (PERTH RD.) TO DEAD END	1	2		NO	NO	3.403	20	550	175	6.81			350	3,700	425			250	375						
2018CPT.12.04.20491	Iredell	11	SR 1001 (OSWALT AMITY RD.)	FROM SR 2359 (BETHESDA RD.) THE US 21	1	2		NO	NO	3.959	20	650	200	7.92			200	4,300	100			265	425						
2018CPT.12.04.20491	Iredell	12	SR 1100 (BRAWLEY SCHOOL RD.)	ROUNDBOUNT ONLY	4	2		NO	NO	0.165	30				4,000			275	5			17	10	5	3				
2018CPT.12.04.20491	Iredell	13	SR 1100 (BRAWLEY SCHOOL RD.)	FROM BEGIN MAINT. TO ROUNDBOUNT	1	2		NO	NO	2.661	VAR. 20-36	95	30	1.18	52,800			4,325	20			261	150	2	1				
TOTAL FOR PROJ NO. 2018CPT.12.04.20491											30.609		4,591	1,521	56.45	57,585	4,355	8,350	36,193	6,840	450	460	2,676	5,465	7	4	11	14	1
GRAND TOTAL											30.609		4,591	1,521	56.45	57,585	4,355	8,350	36,193	6,840	450	460	2,676	5,465	7	4	11	14	1

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4695000000-E		4697000000-E	4710000000-E	4721000000-E	4725000000-E				4810000000-E		4847000000-E		4850000000-E	4905000000-N		
										WZ ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	8" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	8" x 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO MSG SCHOOL 120 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO STR & LT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	4" WHITE POLYUREA (HIGHLY REFLECTIVE)	4" YELLOW POLYUREA (HIGHLY REFLECTIVE)	4" LINE REMOVAL	SNOW PLOWABLE MARKERS		
2018CPT.12.04.20491	Iredell	1	SR 2120 (POWELL BRIDGE RD.)	FROM US 21 TO SR 2105 (TURKEYFOOT RD.)	1	2		4.13	19	465	*																	
2018CPT.12.04.20491	Iredell	2	SR 2134 (ALEXANDER FARM RD.)	FROM US 21 TO DEAD END	1	2		0.519	20	60	*										87,226	87,226						
2018CPT.12.04.20491	Iredell	3	SR 1955 (E. EDISON DR.)	FROM SR 1922 (SHUMAKER DR.) TO US 21	1	2		0.391	20	45	*										8,258	8,258						
2018CPT.12.04.20491	Iredell	4	SR 1930 (FORT DOBBS RD.)	FROM SR 1907 (S. CHIPPLEY FORD RD.) TO US 21	1	2		1.93	22	225	*												20,381	20,381				
2018CPT.12.04.20491	Iredell	5	SR 1006 (ISLAND FORD RD.)	FROM SR 1005 (OLD MTN. RD.) TO US 64	1	2		4.055	VAR. 20-36	460	*			144	12	5	2	1					42,821	42,821				
2018CPT.12.04.20491	Iredell	6	SR 2550 (DELLWOOD DR.)	FROM US 70 TO DEAD END	2	2		0.149	18	20	*																	
2018CPT.12.04.20491	Iredell	7	SR 1324 (TALLEY RD.)	FROM US 21 TO SR 1328 (EAST MONBO RD.)	1	2		2.125	20	240	*												22,440	22,440				
2018CPT.12.04.20491	Iredell	8	SR 1303 (PERTH RD.)	FROM 0.4 MILES NORTH OF SR 1318 (AUTUMN LEAF RD.) TO NC 150	1	2		6.667	VAR. 22-36	750	*	350		275	12	18	9	1	2				71,000	71,000	1,800	500		
2018CPT.12.04.20491	Iredell	9	SR 1448 (HONEYDEW CIRCLE)	FROM SR 1447 (STILLWATER RD.) TO END OF LOOP	3	2		0.455	18	55	*																	
2018CPT.12.04.20491	Iredell	10	SR 1300 (FERN HILL RD.)	FROM SR 1303 (PERTH RD.) TO DEAD END	1	2		3.403	20	385	*												36,000	36,000				
2018CPT.12.04.20491	Iredell	11	SR 1001 (OSWALT AMITY RD.)	FROM SR 2359 (BETHESDA RD.) THE US 21	1	2		3.959	20	445	*												41,810	41,810				
2018CPT.12.04.20491	Iredell	12	SR 1100 (BRAWLEY SCHOOL RD.)	ROUNDBOUNT ONLY	4	2		0.165	30	20	*		60										400	600		20		
2018CPT.12.04.20491	Iredell	13	SR 1100 (BRAWLEY SCHOOL RD.)	FROM BEGIN MAINT. TO ROUNDBOUNT	1	2		2.661	VAR. 20-36	300	*		60										6,245	28,100		180		
TOTAL FOR PROJ NO. 2018CPT.12.04.20491											30.609		3,470	1	350	60	419	24	23	11	2	2	95,484	95,484	241,097	263,152	1,800	700
GRAND TOTAL											30.609		3,470	1	350	60	419	24	23	11	2	2	95,484	95,484	241,097	263,152	1,800	700

SIGNING FOR RESURFACING PROJECTS

LEGEND
 ┆ STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

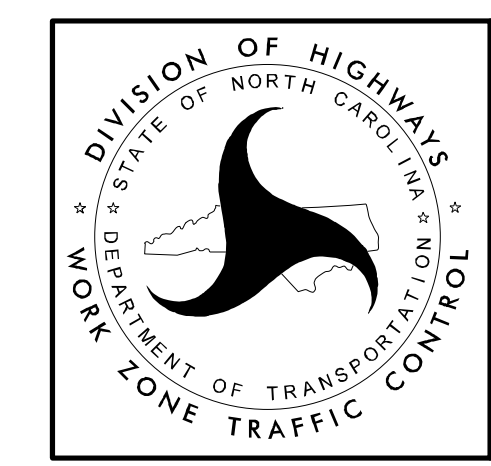
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	2		#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		- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4		- 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		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.

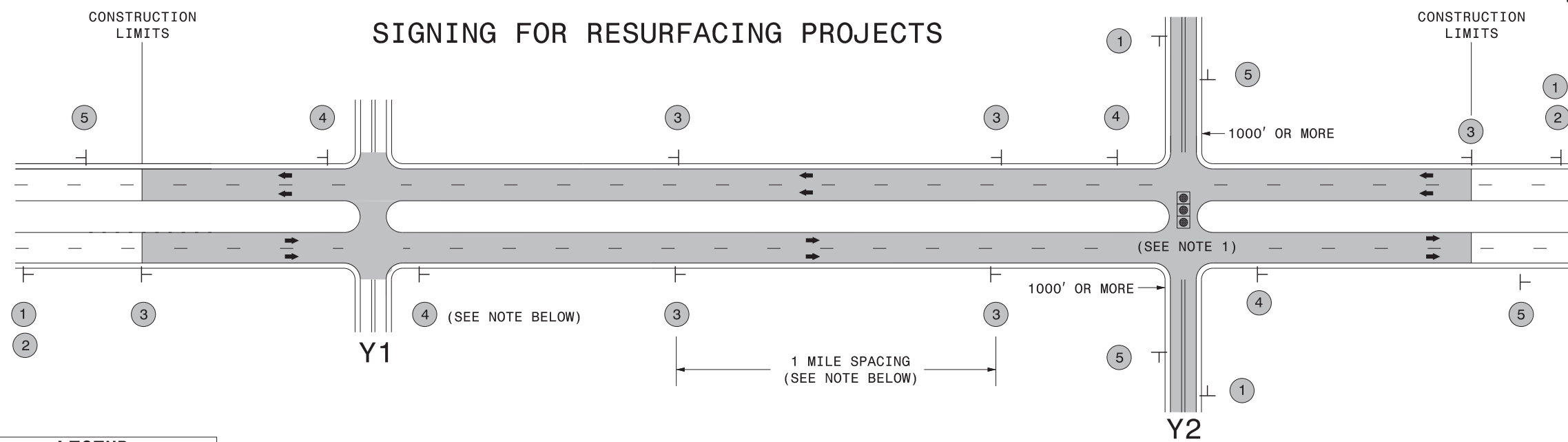
MAPS LESS THAN 2 MILES

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.



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

5/15/2017 S:\TUXWZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn User:kadai



LEGEND
 | STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

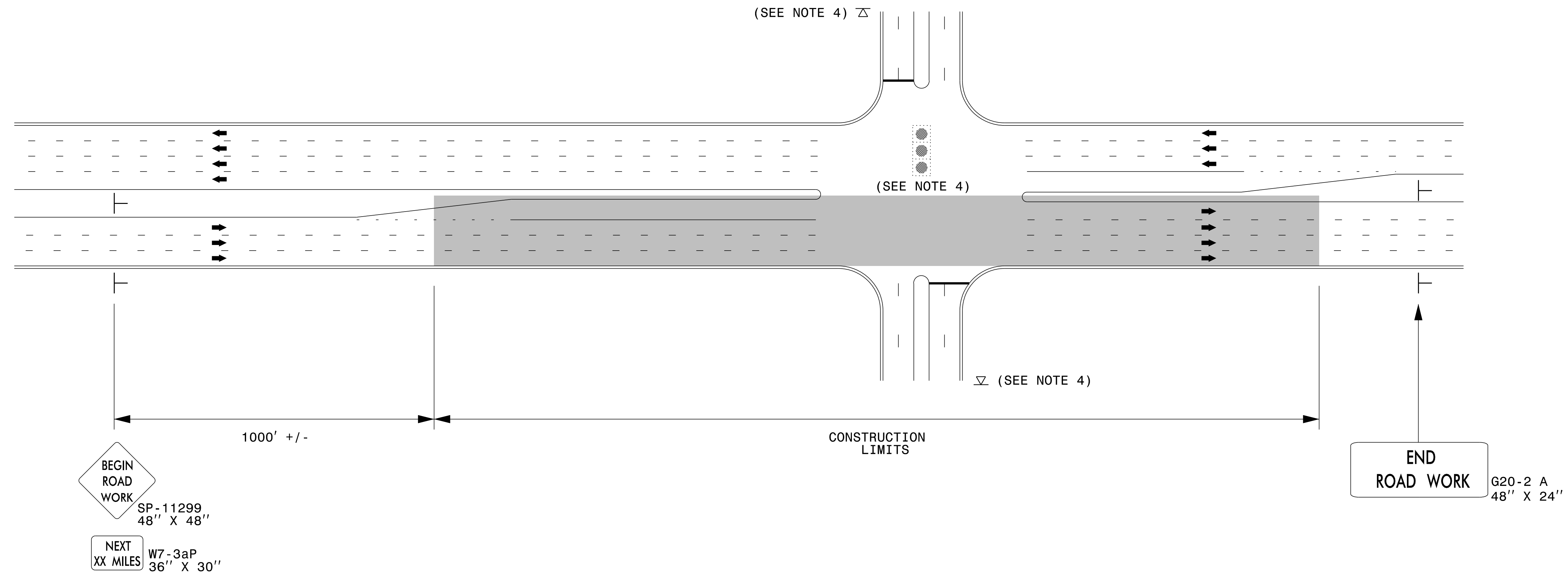
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
		<p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>	
		<p>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.</p>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

3/23/2015 C:\Users\rmgarrrett\Downloads\Resurfacing_AdvWarn_LrSu_Shldr.dgn User:rmgarrrett

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

URBAN / SUBURBAN WORKZONES

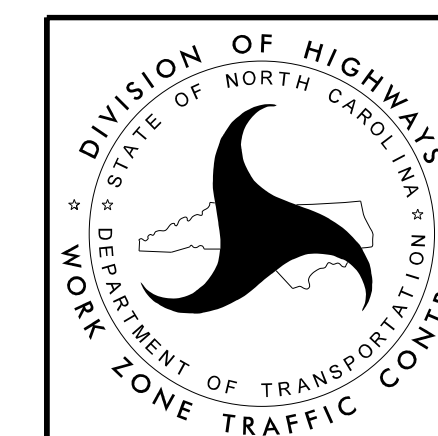


NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- ┆ STATIONARY SIGN
- ➔ DIRECTION OF TRAFFIC FLOW



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