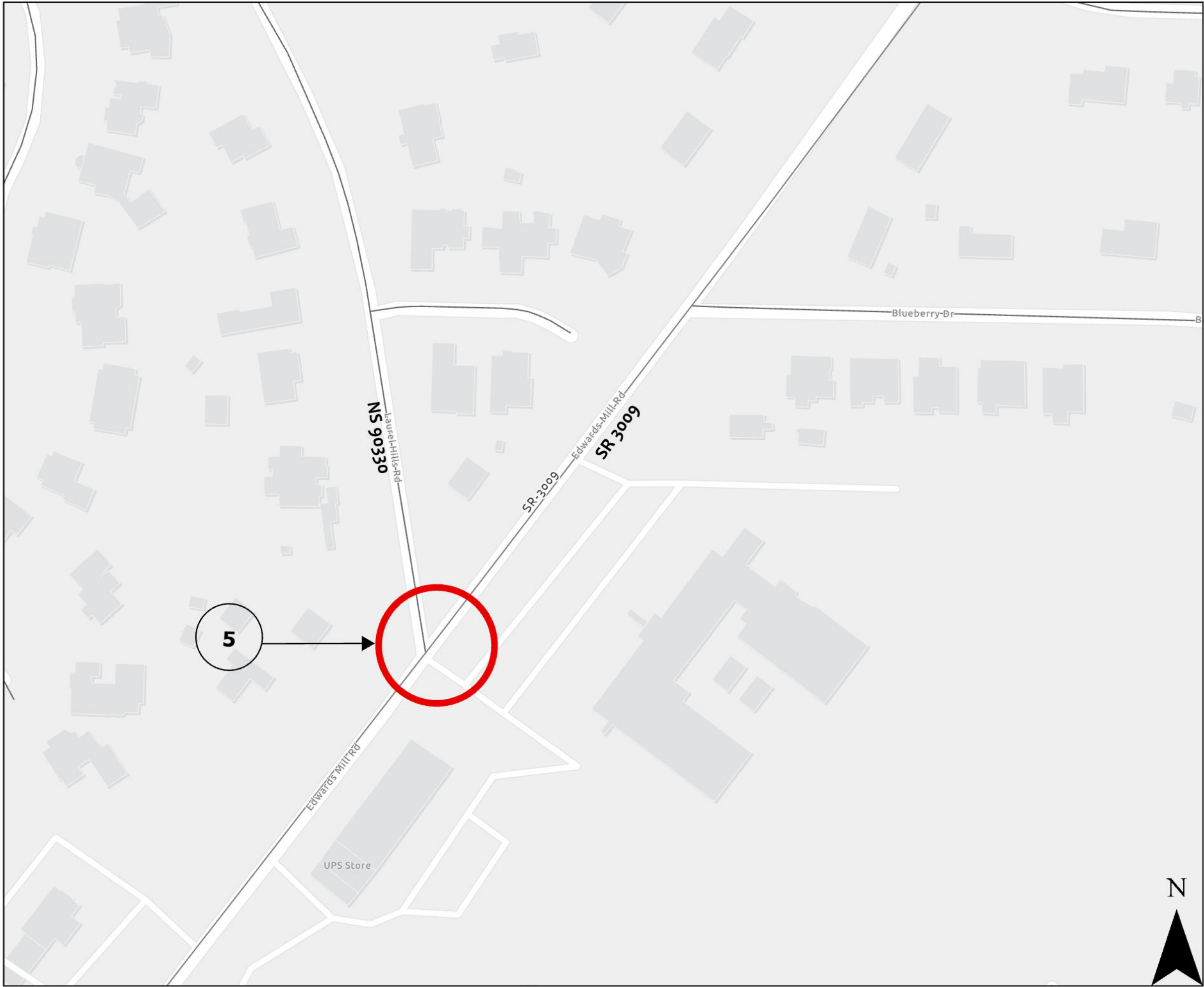


2025 Blue Rd Wake County Resurfacing	
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.05.01.20921.1	1

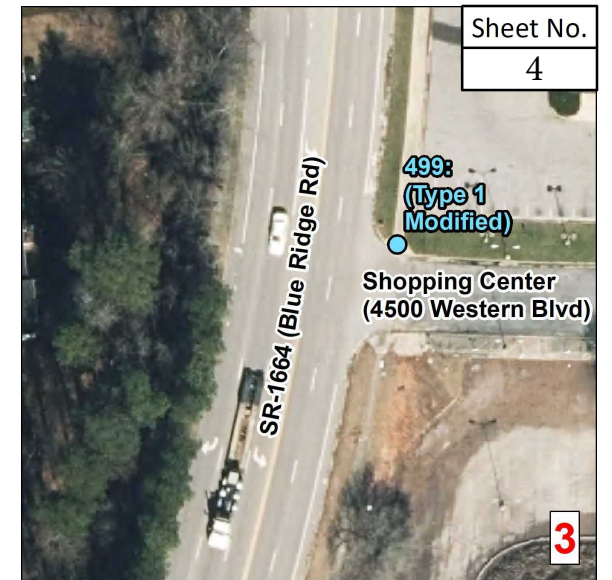
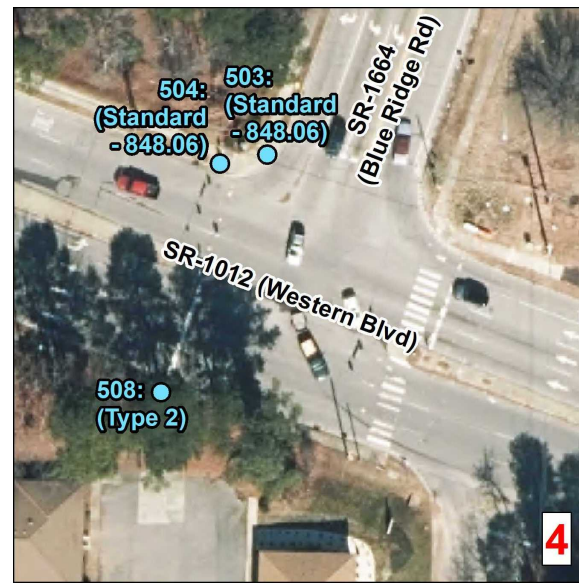
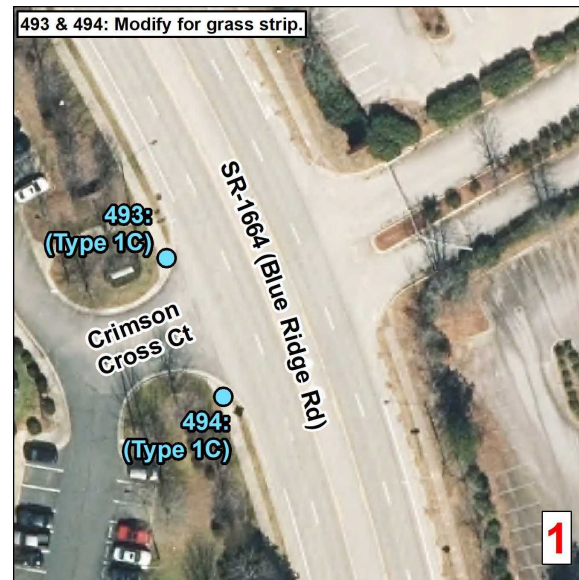
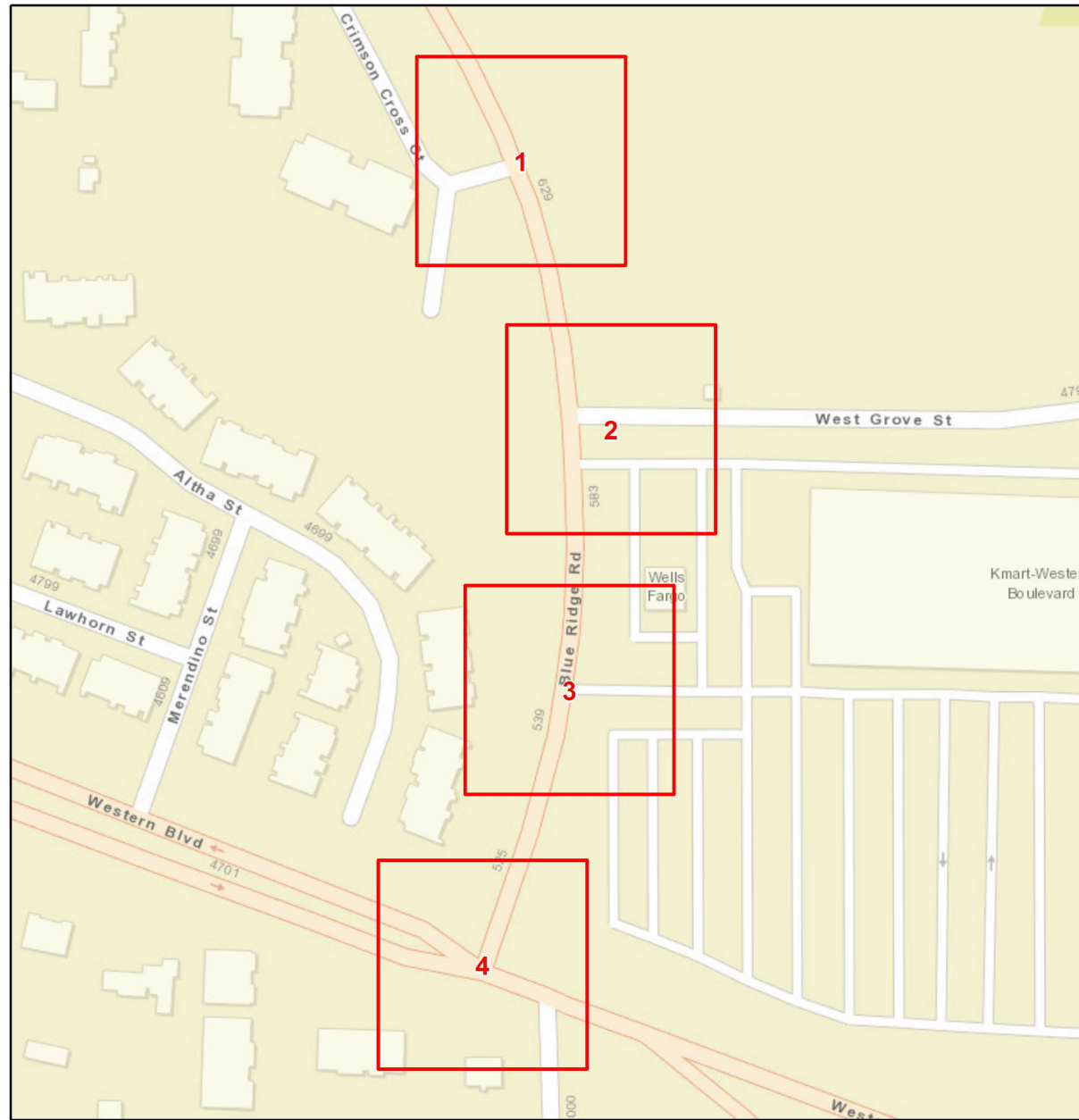
Map 1 Blue Ridge Rd
From SR 1012 (Western Blvd) to U-4437 Limits



2025 Blue Rdg Wake County Resurfacing	
PROJECT REFERENCE NO.	SHEET NO.
2025 Blue Ridge 2024CPT.05.01.20921.11	3

Map 5- Ramps Only for SR-3009 Edwards Mill Rd and Laurel Hill Rd





Sheet No.
4

Curb Ramps To Be Repaired

- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

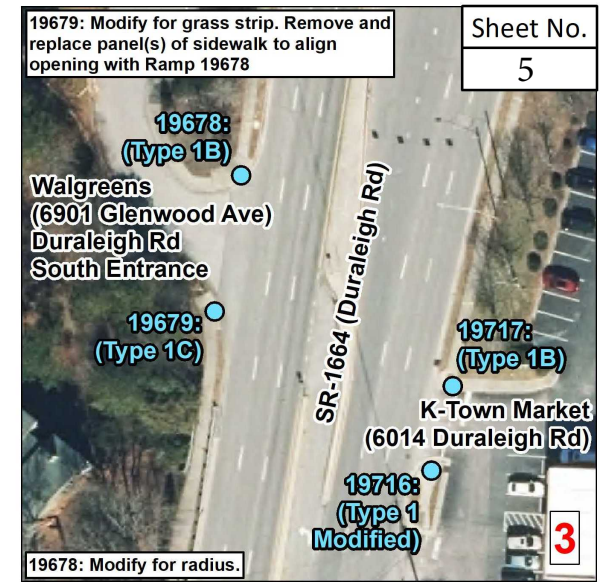
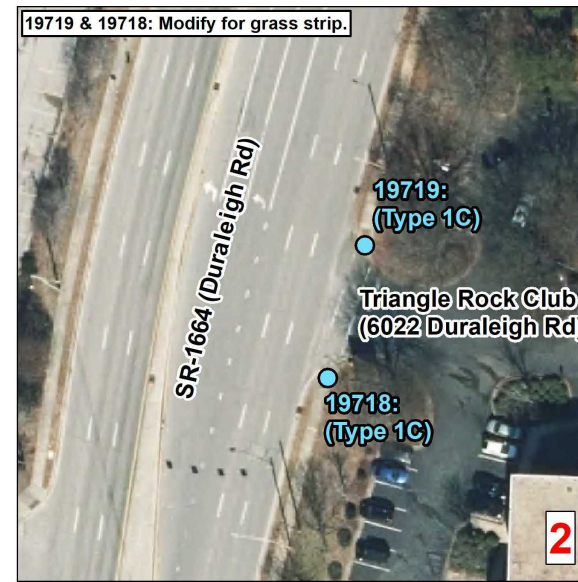
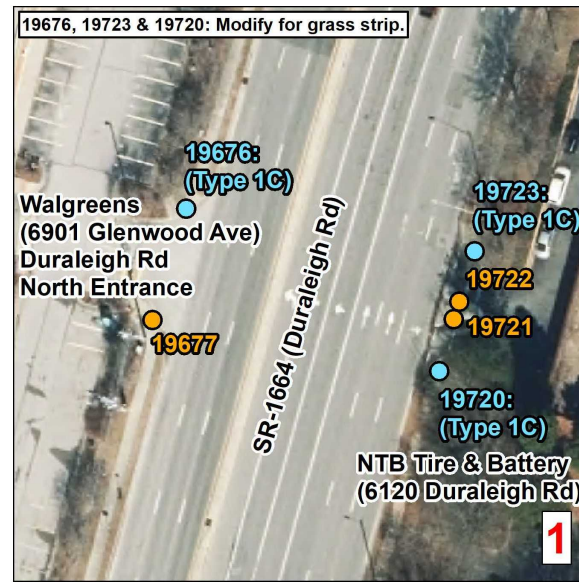
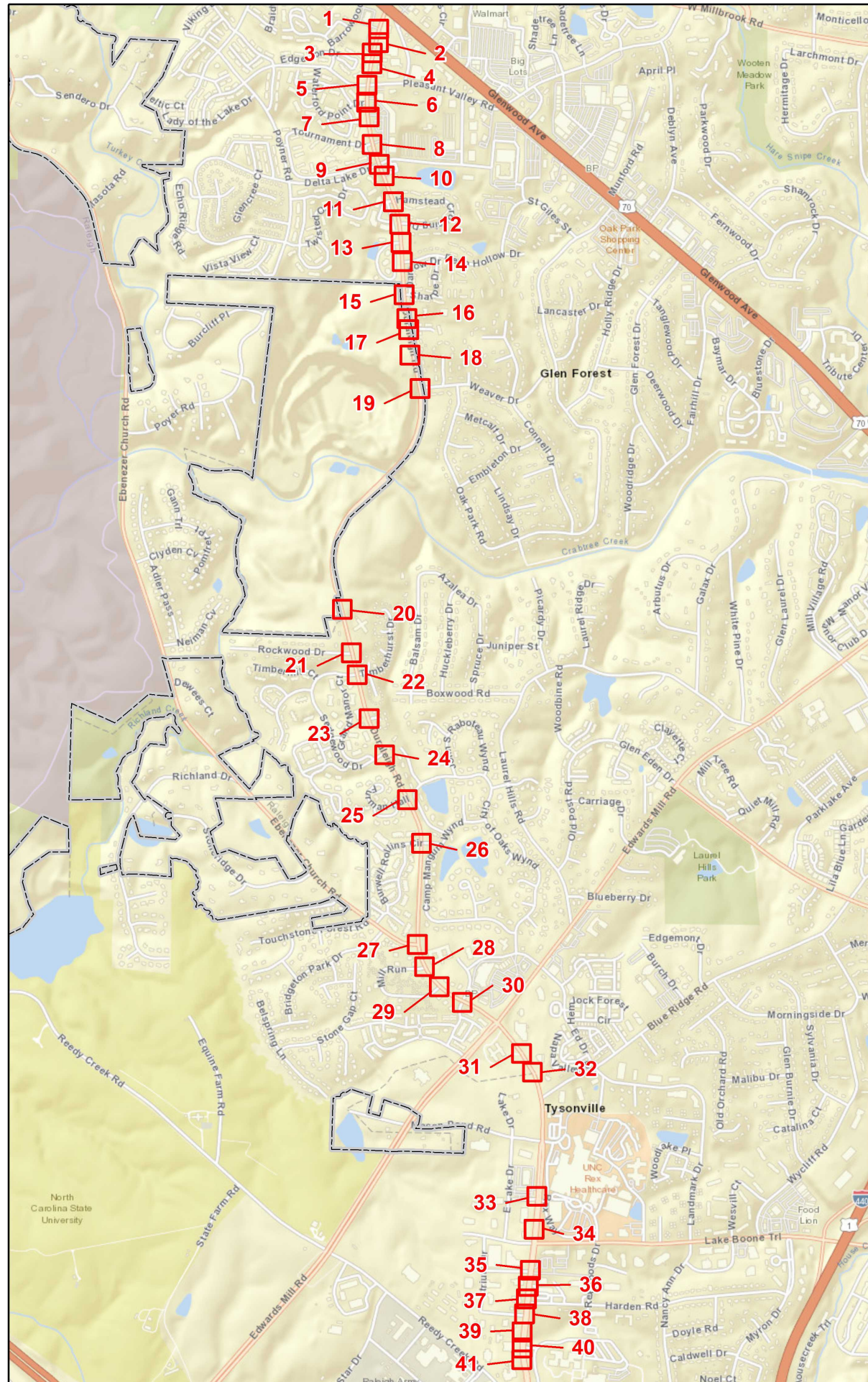
Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

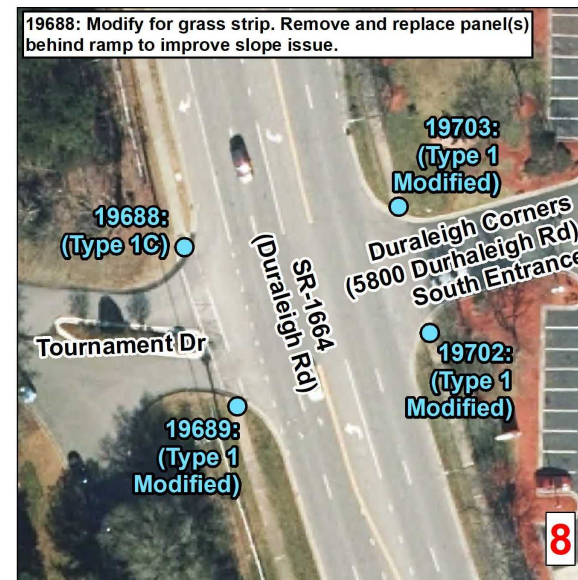
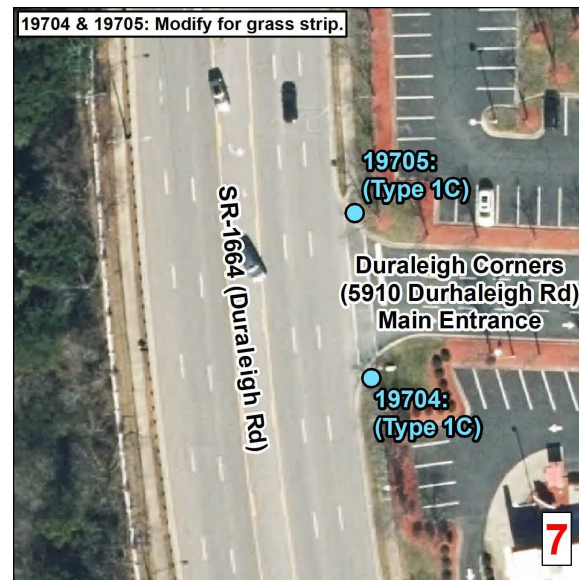
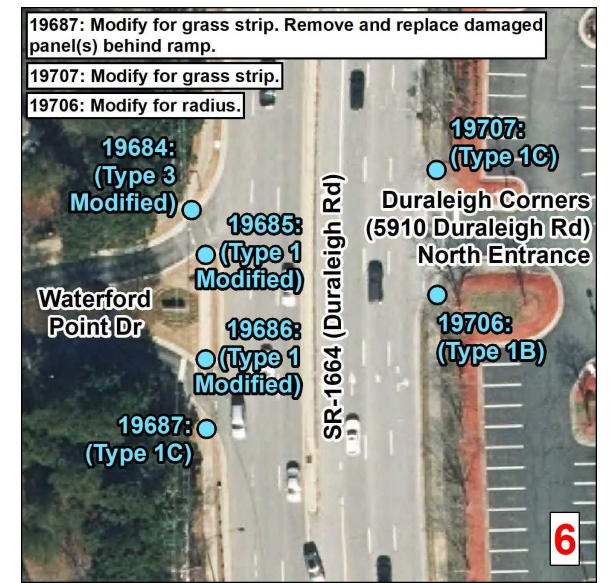
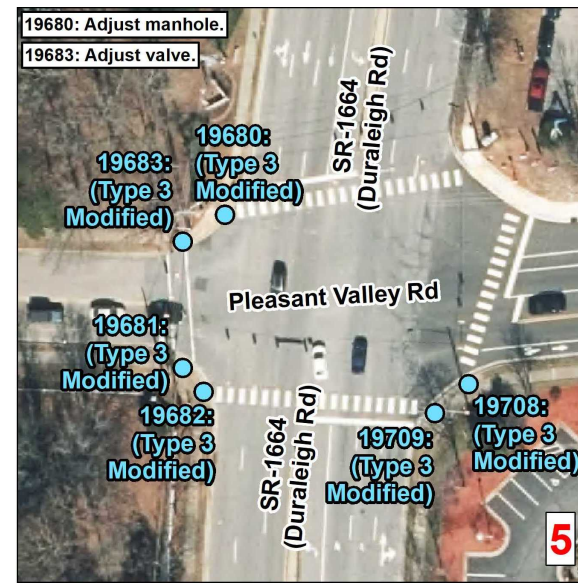
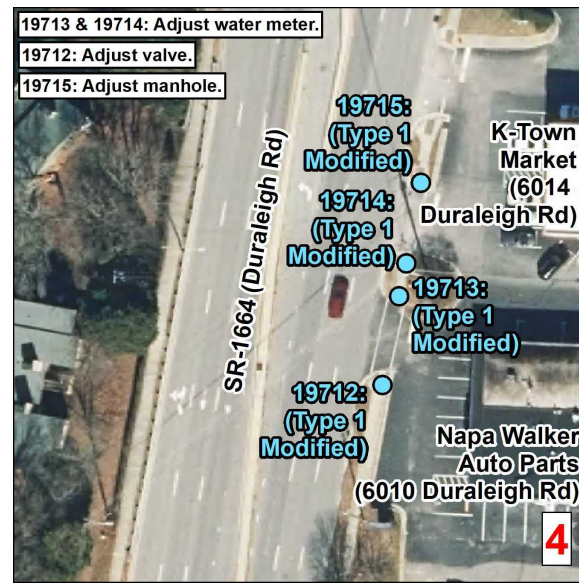
2025 Blue Rdg
WBS: 2024CPT.05.01.20921.1
Blue Ridge Rd/Duraleigh Rd
From SR 1012 To U-4437 Limits

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



Sheet No.
5



Curb Ramps To Be Repaired

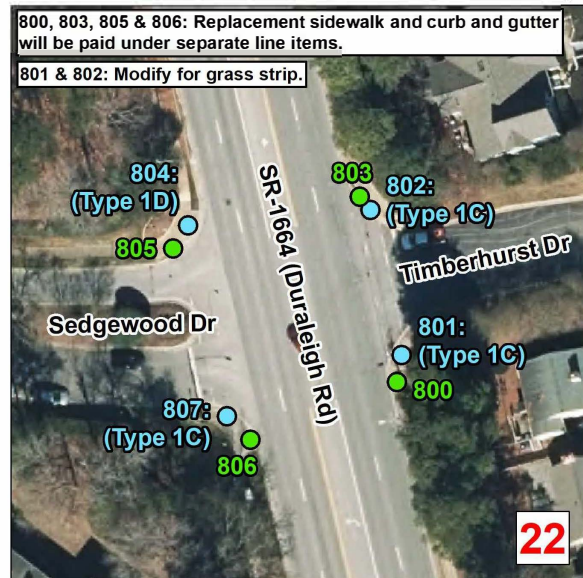
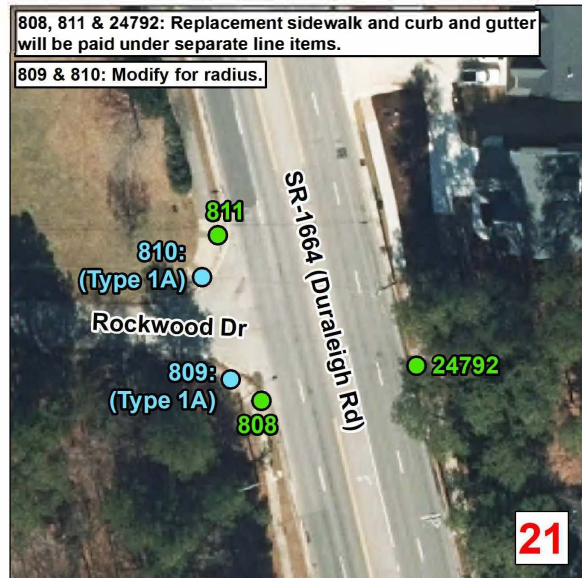
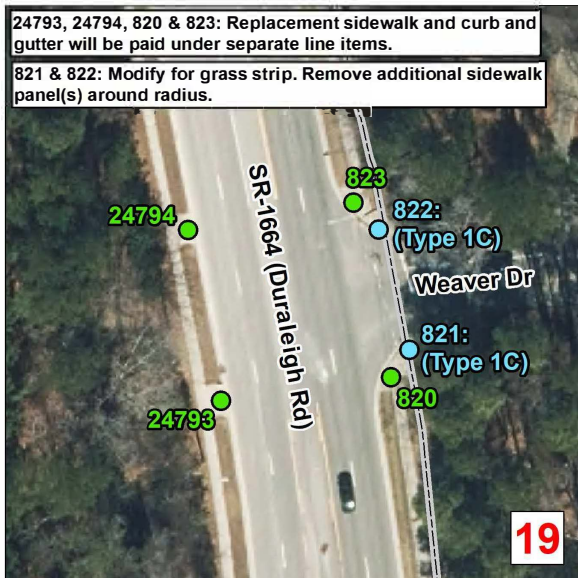
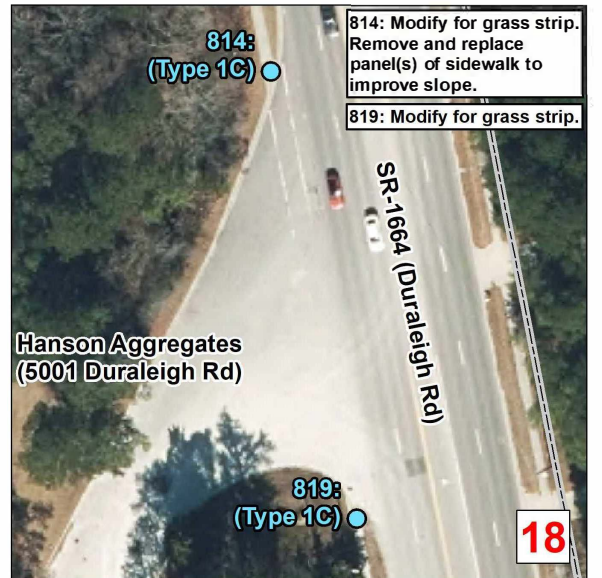
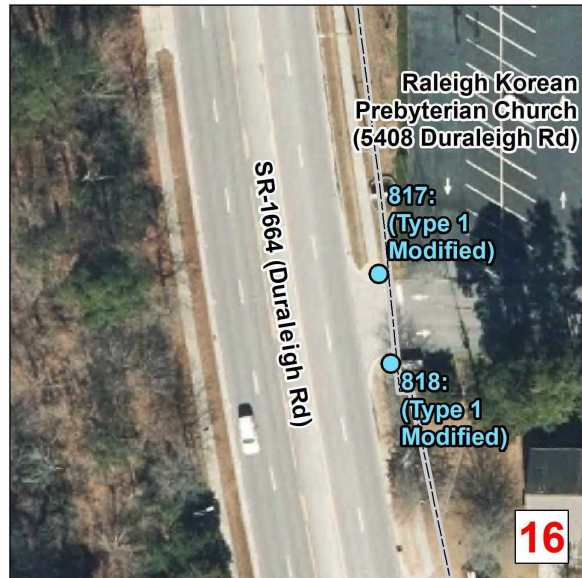
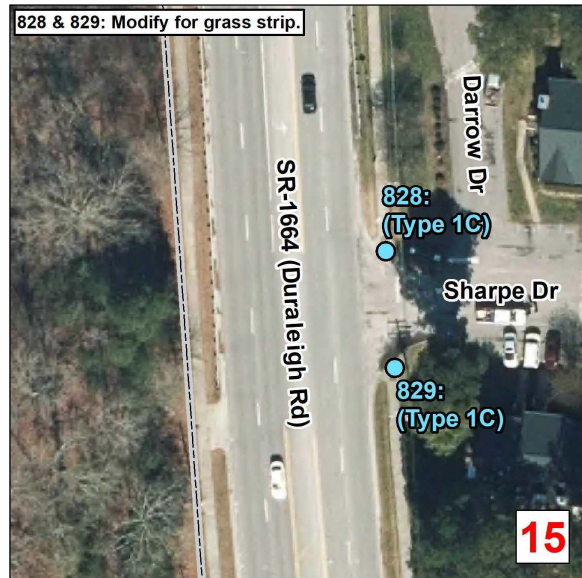
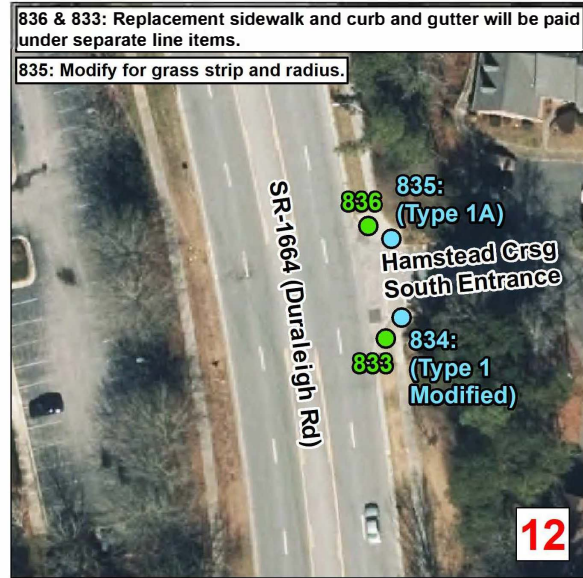
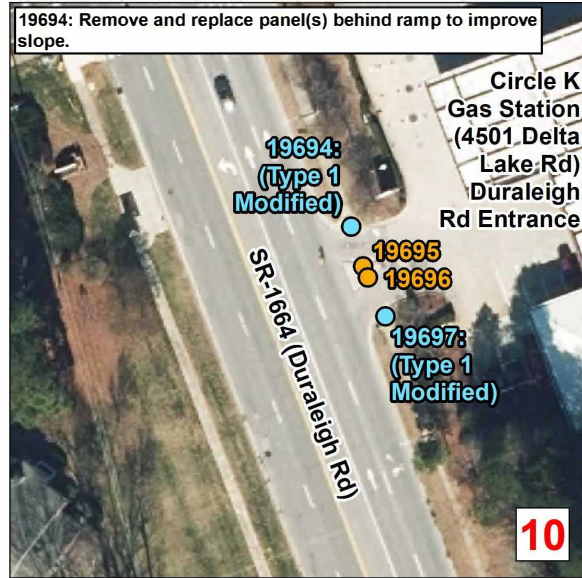
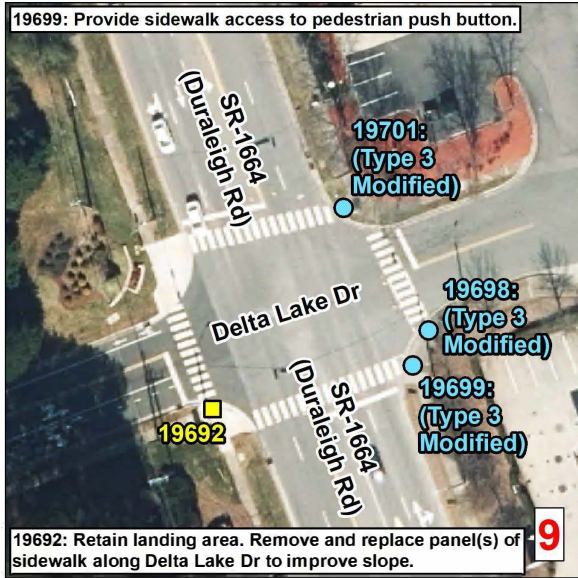
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

2025 Blue Rdg
WBS: 2024CPT.05.01.20921.1
Blue Ridge Rd/Duraleigh Rd
From US 70 To Reedy Creek Rd

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



Curb Ramps To Be Repaired

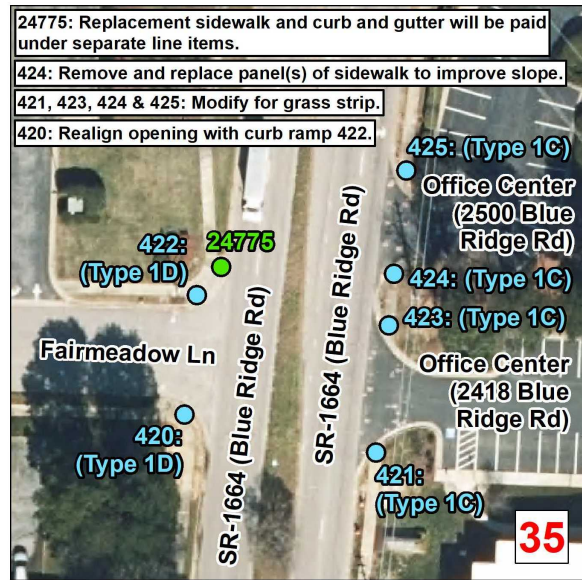
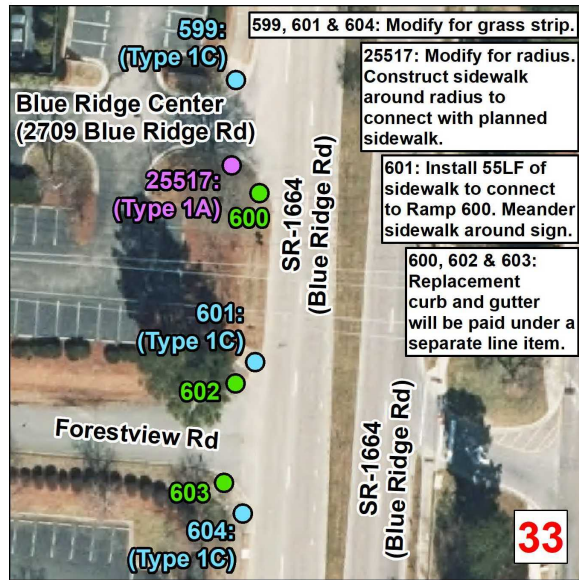
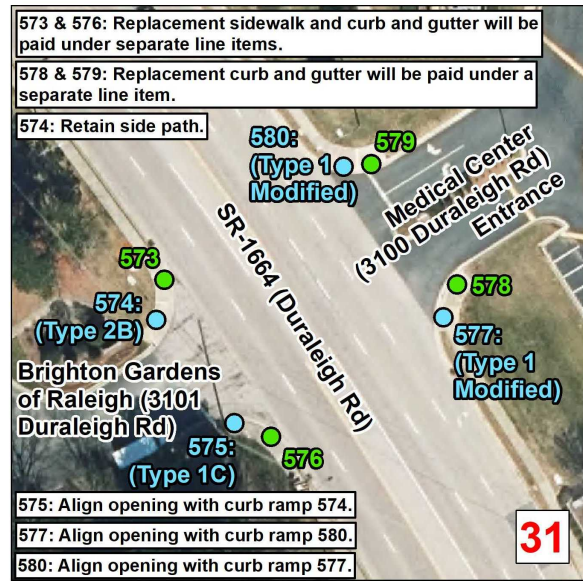
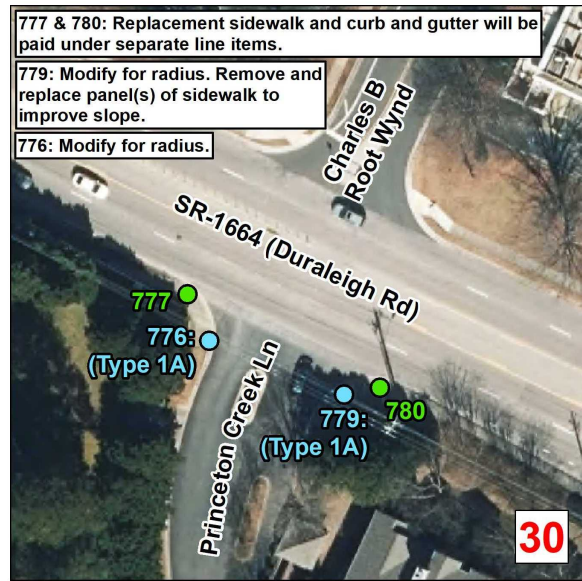
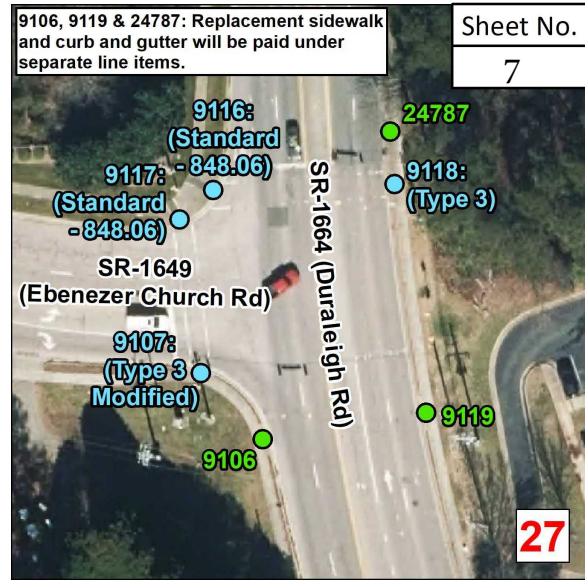
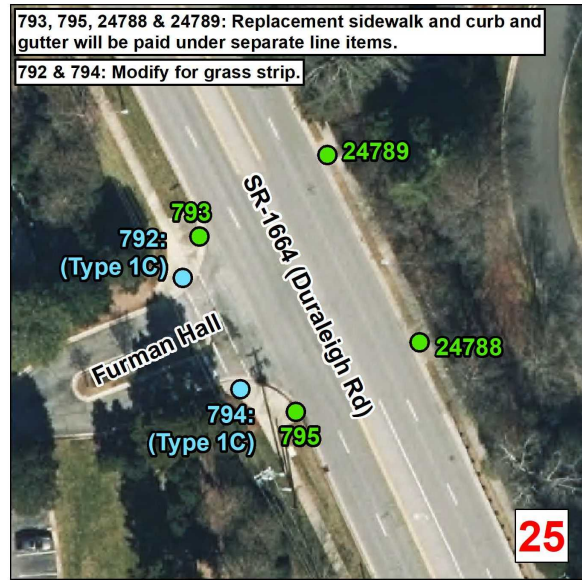
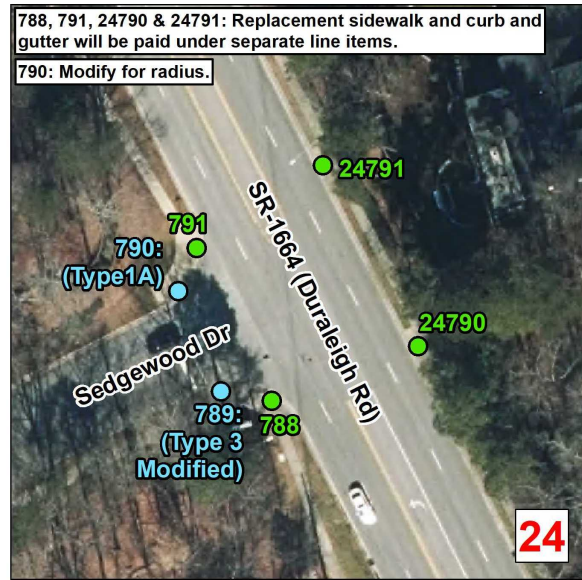
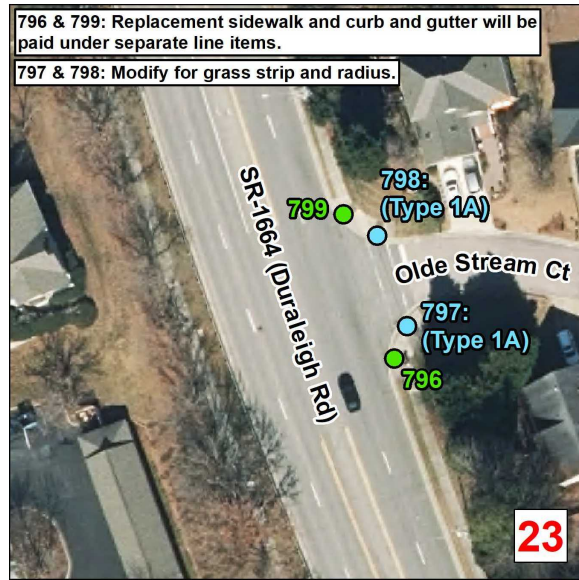
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

▭ Municipal Boundary
▭ NCHPO Historic Boundary (NR and LHD)

**2025 Blue Rd
WBS: 2024CPT.05.01.20921.1
Blue Ridge Rd/Duraleigh Rd
From US 70 To Reedy Creek Rd**

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



Curb Ramps To Be Repaired

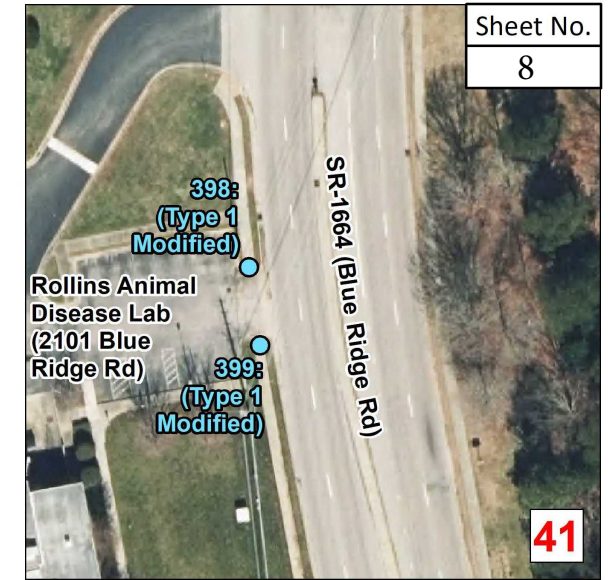
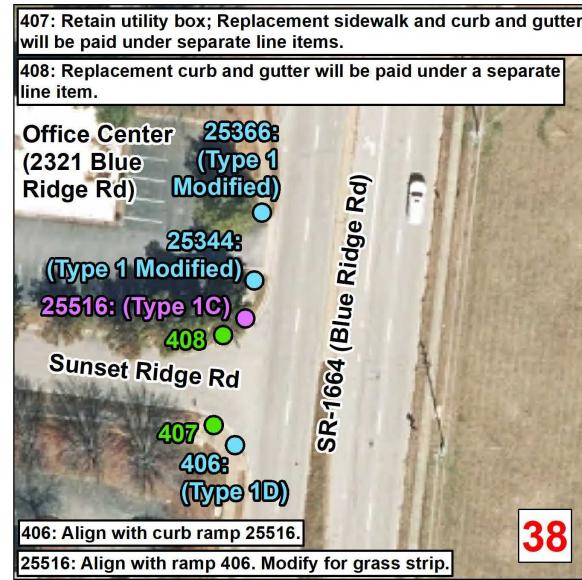
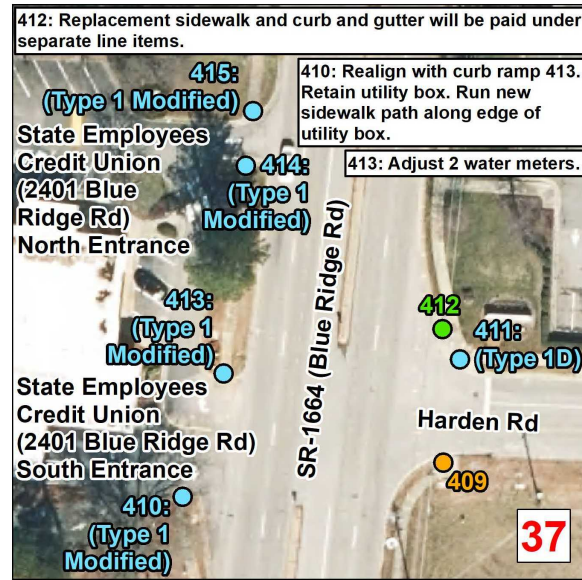
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

□ Municipal Boundary
□ NCHPO Historic Boundary (NR and LHD)

2025 Blue Rdg
WBS: 2024CPT.05.01.20921.1
Blue Ridge Rd/Duraleigh Rd
From US 70 To Reedy Creek Rd

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



Curb Ramps To Be Repaired

- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

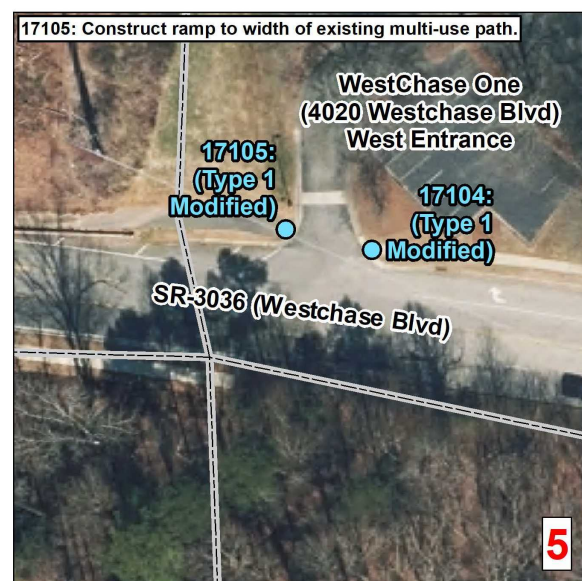
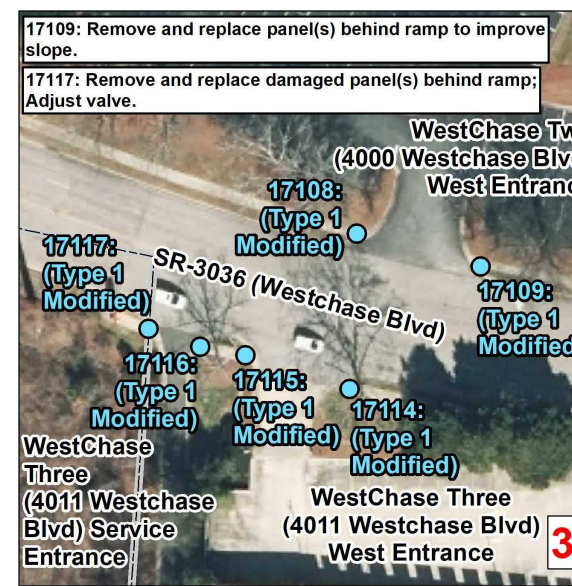
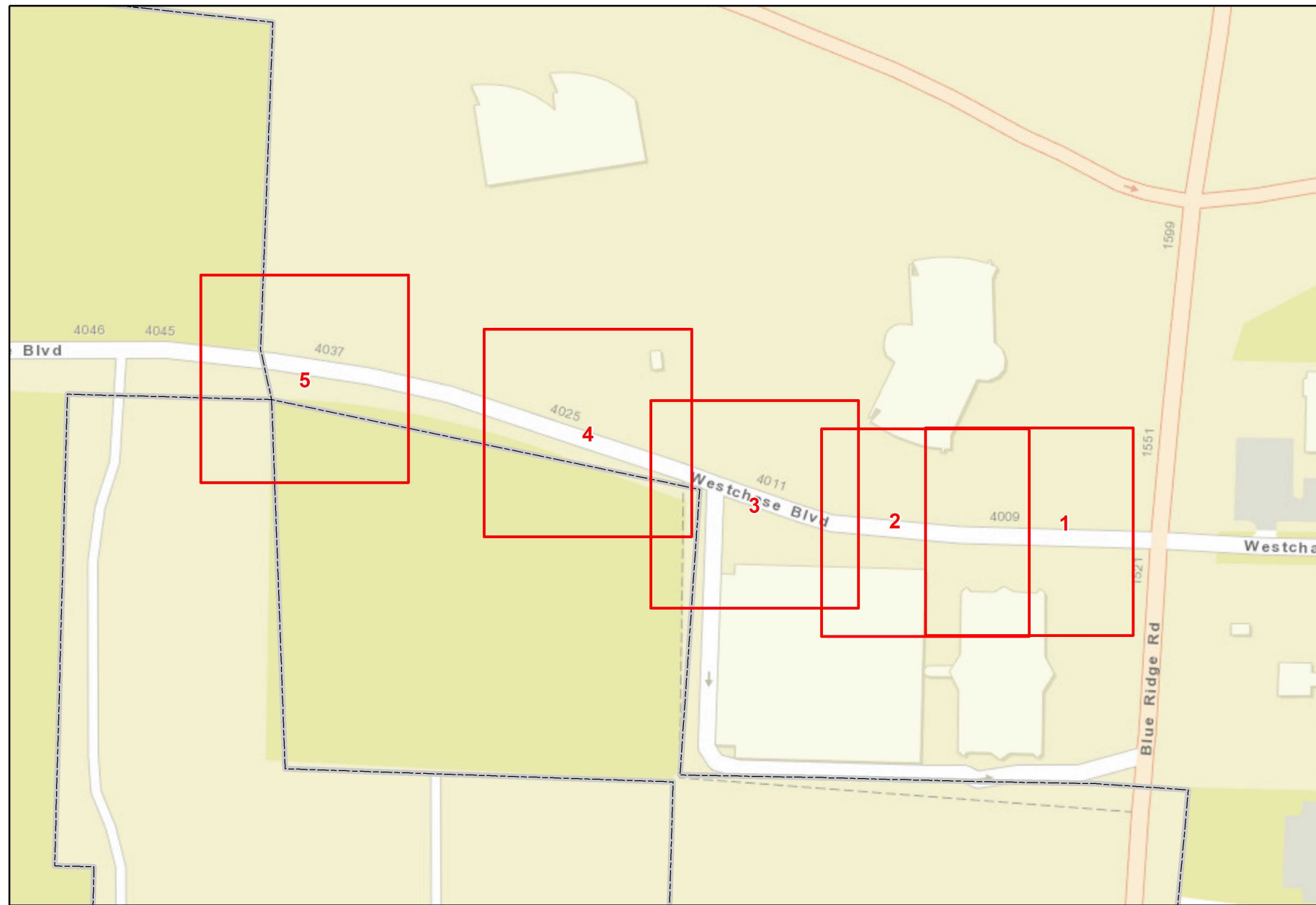
Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

2025 Blue Rdg
WBS: 2024CPT.05.01.20921.1
Blue Ridge Rd/Duraleigh Rd
From US 70 To Reedy Creek Rd

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



Curb Ramps To Be Repaired

- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

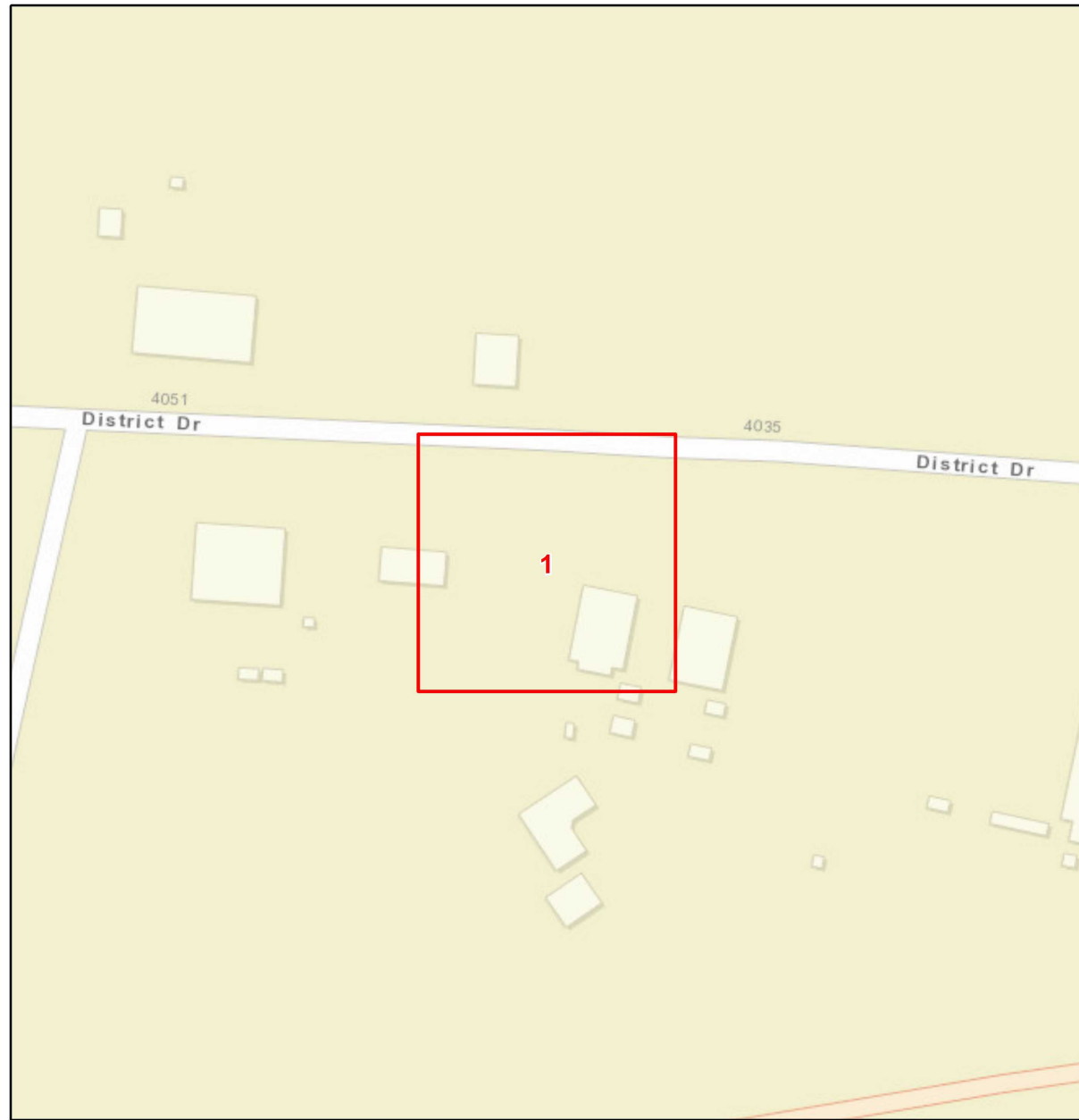
Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

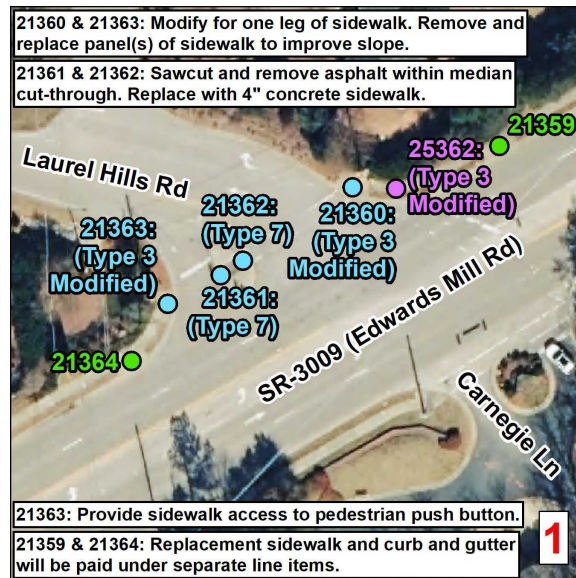
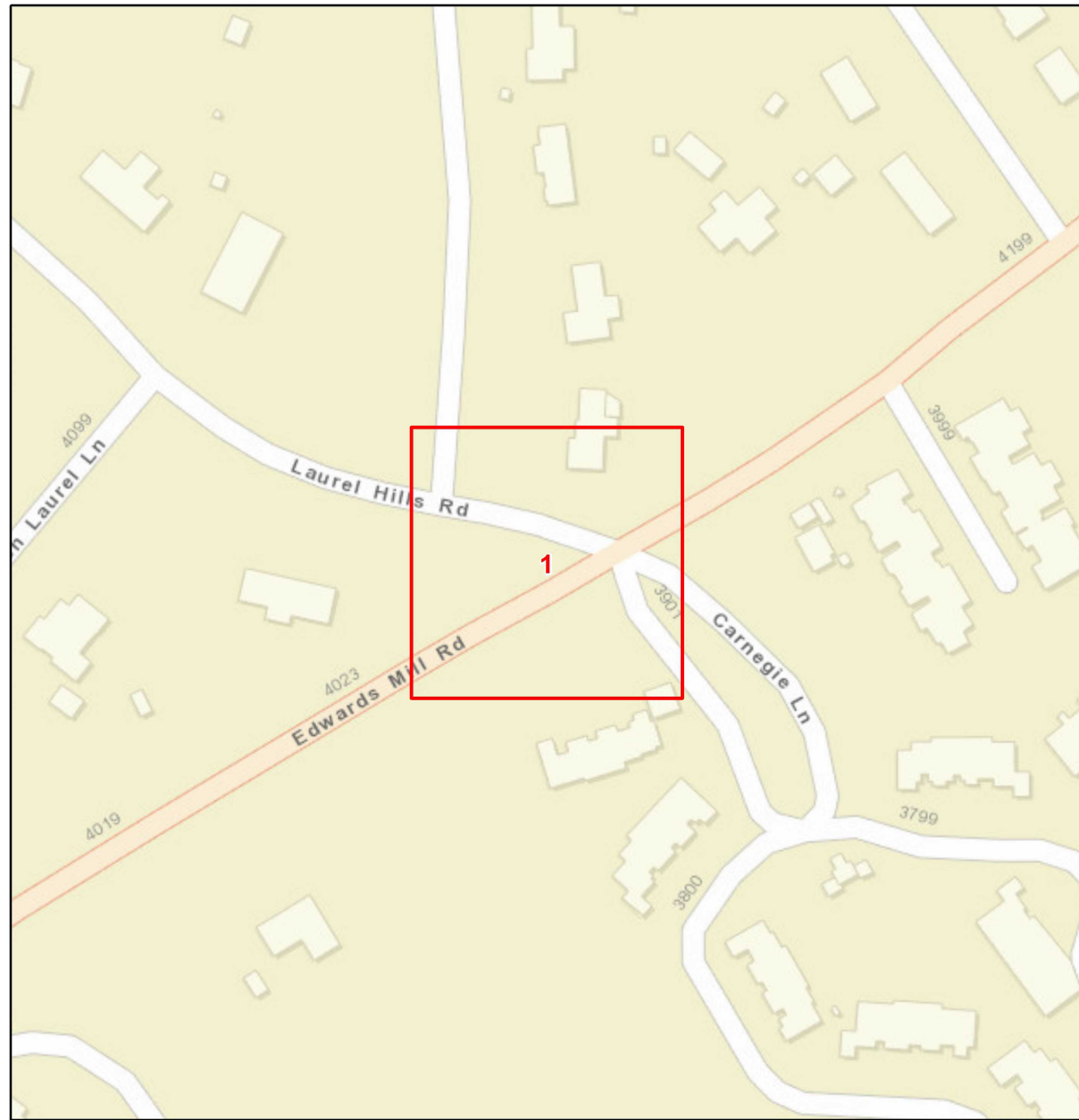
2025 Blue Rdg
WBS: 2024CPT.05.01.20921.1
Westchase Blvd
From SR 1664 To END MAINT

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



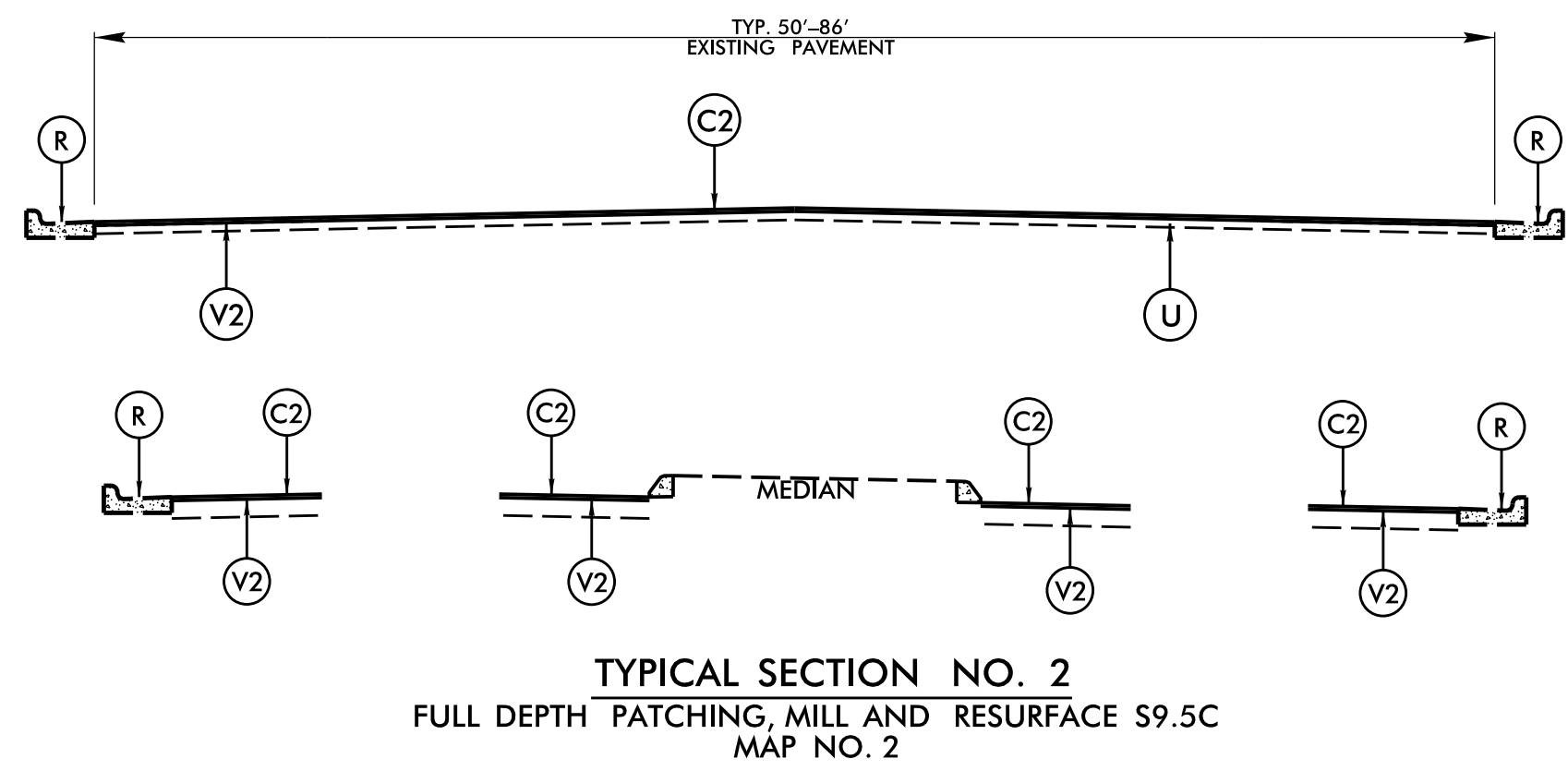
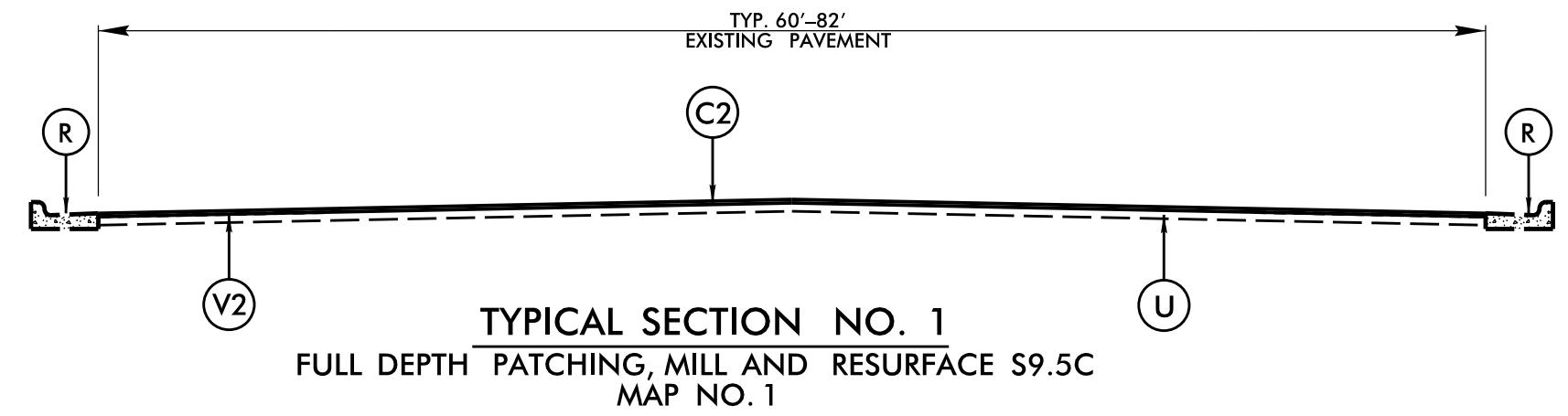
Curb Ramps To Be Repaired		
<ul style="list-style-type: none"> ● Retrofit ● Remove and Replace ● New Curb Ramp ● Remove Ramp ■ Other 		
<ul style="list-style-type: none"> Municipal Boundary NCHPO Historic Boundary (NR and LHD) 		
<p>2025 Blue Rdg WBS: 2024CPT.05.01.20921.1 District Office Driveway From SR 1174 To END MAINT</p>		
		<p>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5</p>
<p>Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO</p>		



Curb Ramps To Be Repaired	
Retrofit	
Remove and Replace	
New Curb Ramp	
Remove Ramp	
Other	
Municipal Boundary	
NCHPO Historic Boundary (NR and LHD)	
2025 Blue Rdg WBS: 2024CPT.05.01.20921.1 Intersection of SR-3009 and Laurel Hills Rd	
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO	

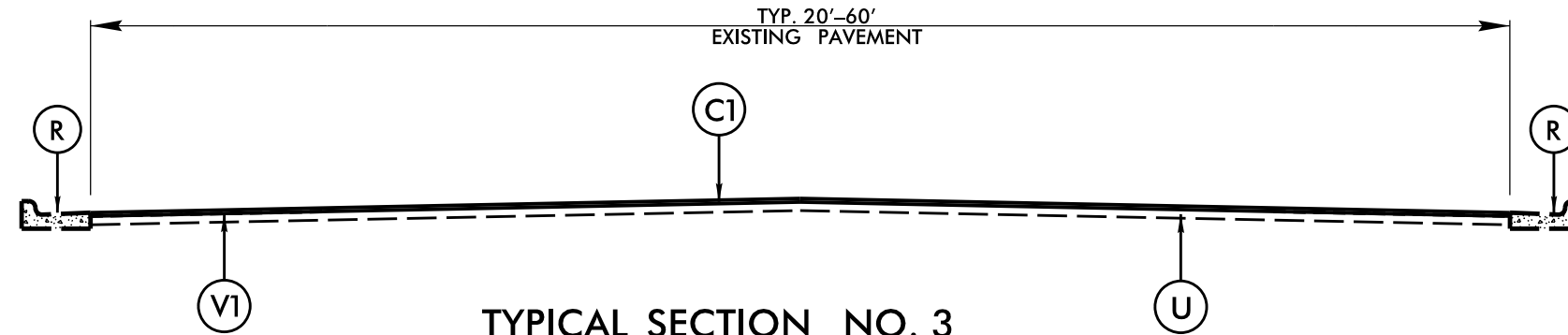
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.	V1	MILL ASPHALT PAVEMENT, 1½" DEPTH
R	EXISTING CURB AND GUTTER	V2	MILL ASPHALT PAVEMENT, 2" DEPTH



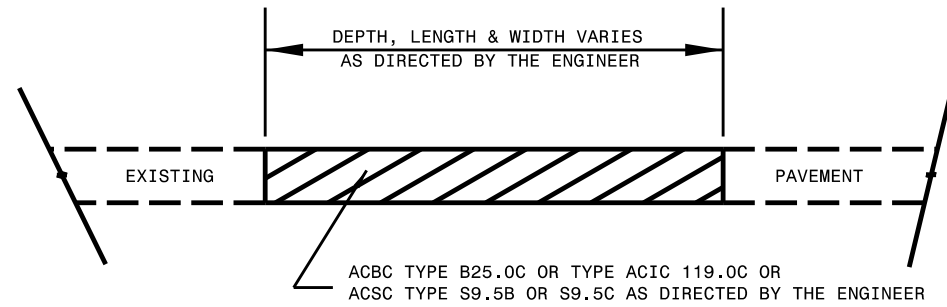
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 11/13/24
 11:48 AM
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 11/13/24
 11:48 AM
 0.12 MB

C1	1½" S9.5B
C2	2" S9.5C
R	EXIST. C&G
U	EXIST. PAVEMENT
V1	1½" MILLING
V2	2" MILLING

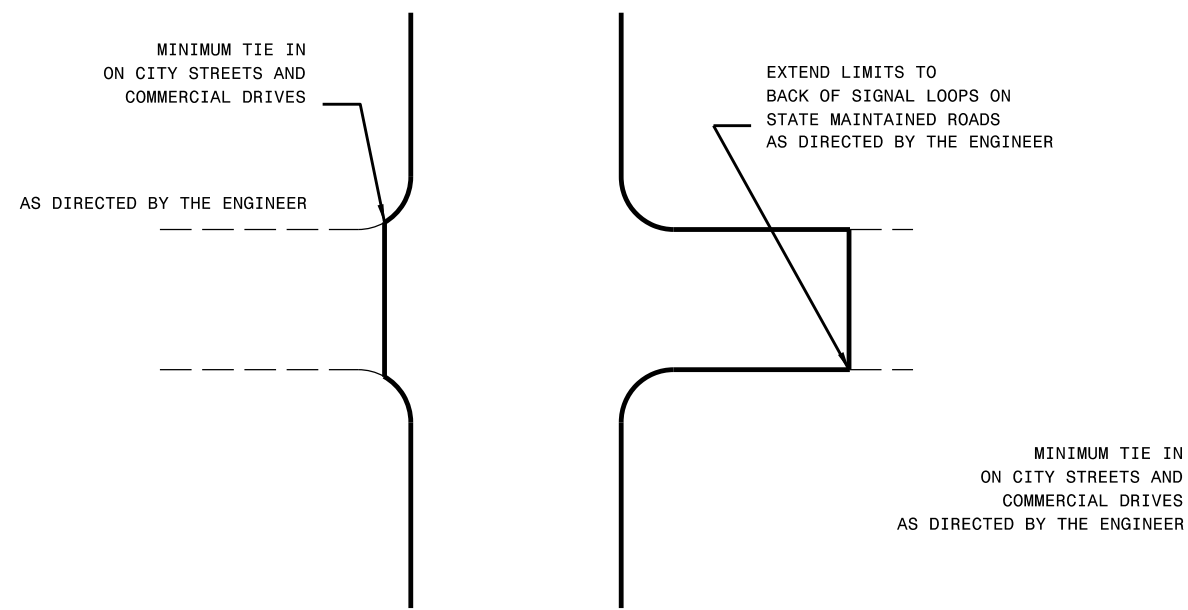
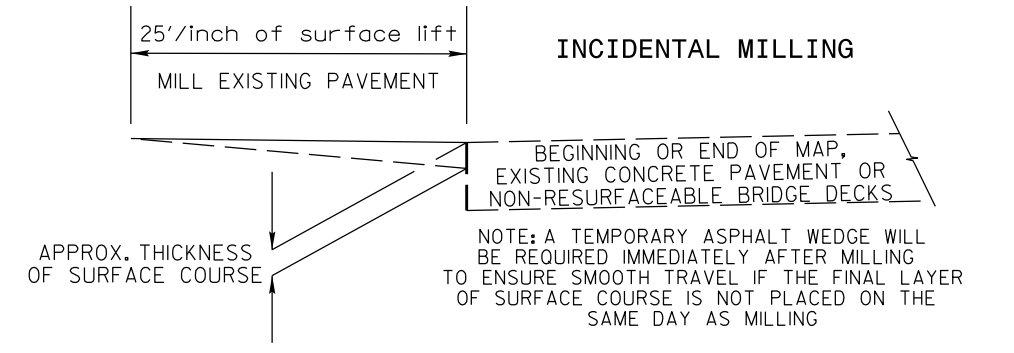


TYPICAL SECTION NO. 3
FULL DEPTH PATCHING, MILL AND RESURFACE S9.5B
MAP NOS. 3, 4

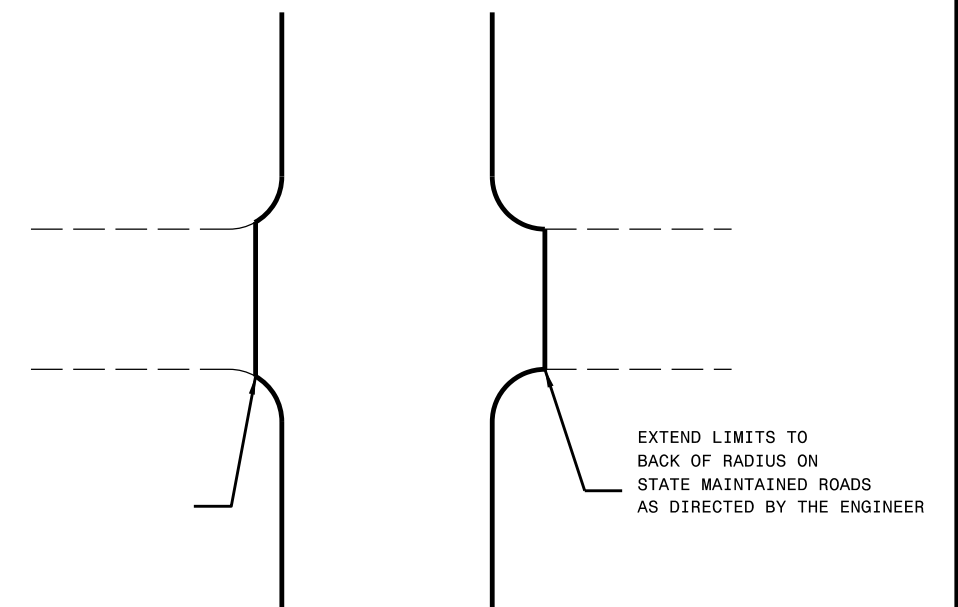
DATE: 05/01/2024
TIME: 10:00 AM
DRAWN BY: [signature]
CHECKED BY: [signature]



PATCHING EXISTING PAVEMENT
MILLING TO BE PERFORMED PRIOR TO PATCHING



DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

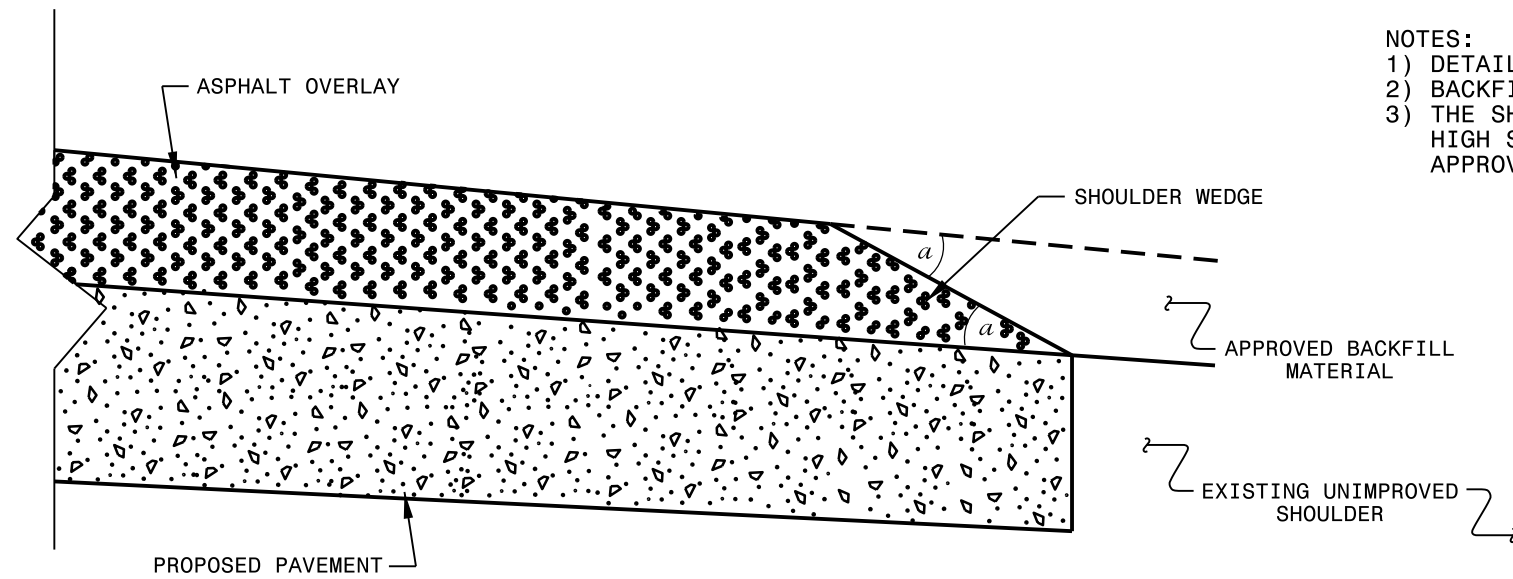


DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

14/03/2024 09:53 AM

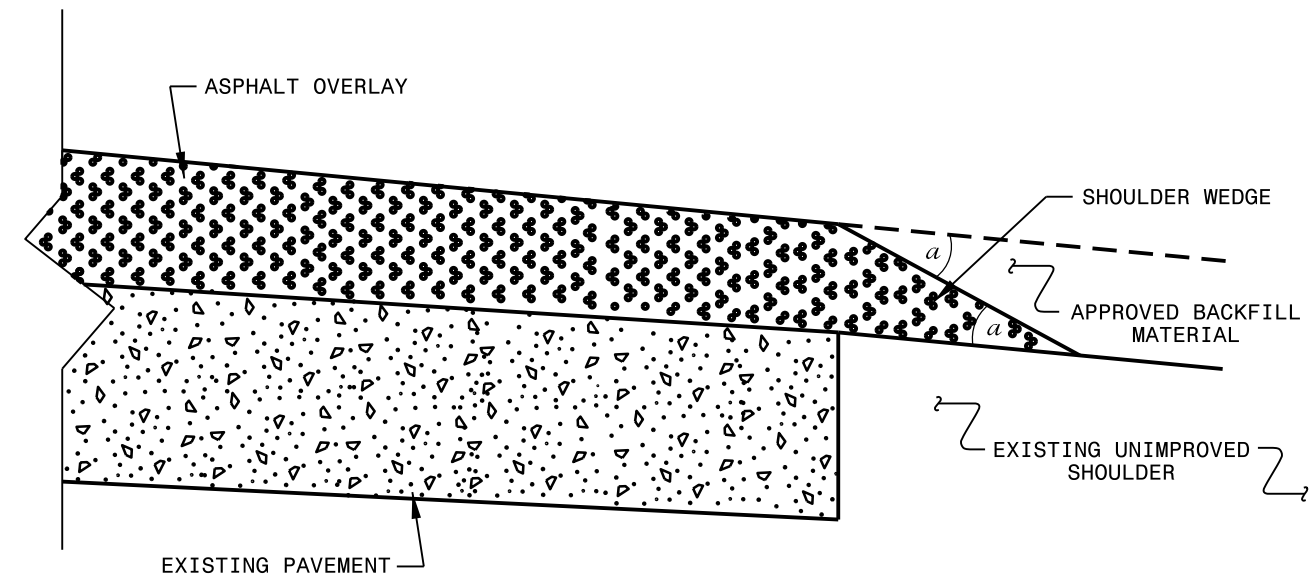
NOTES:

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



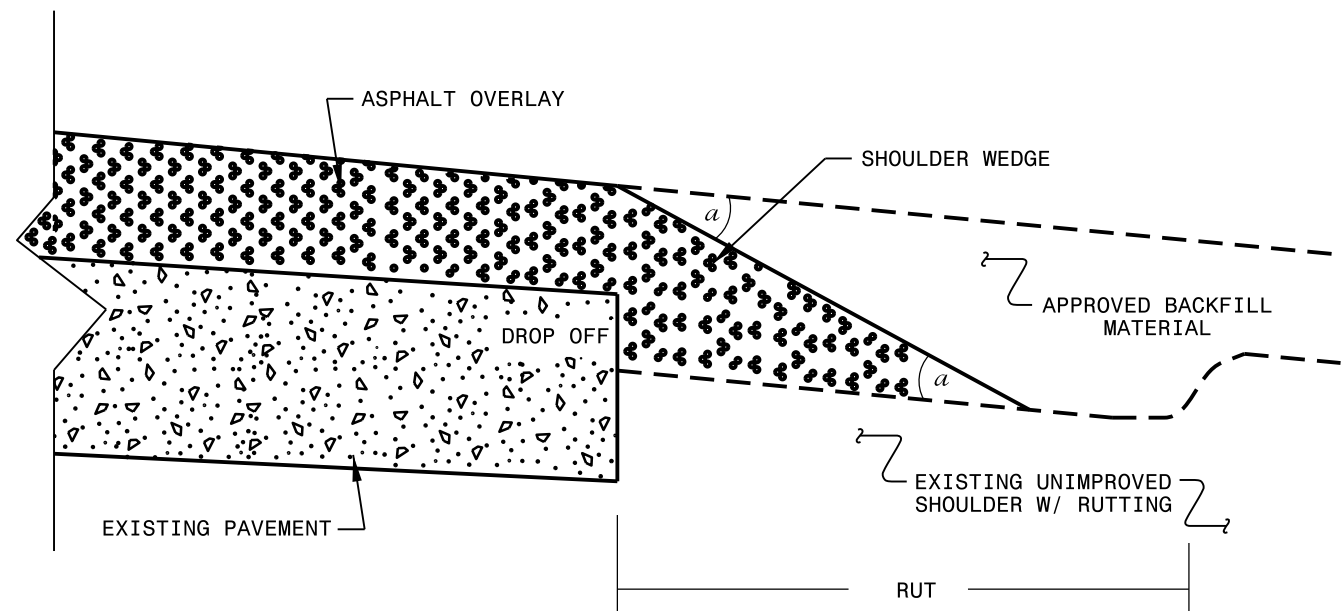
SHOULDER WEDGE DETAIL

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



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



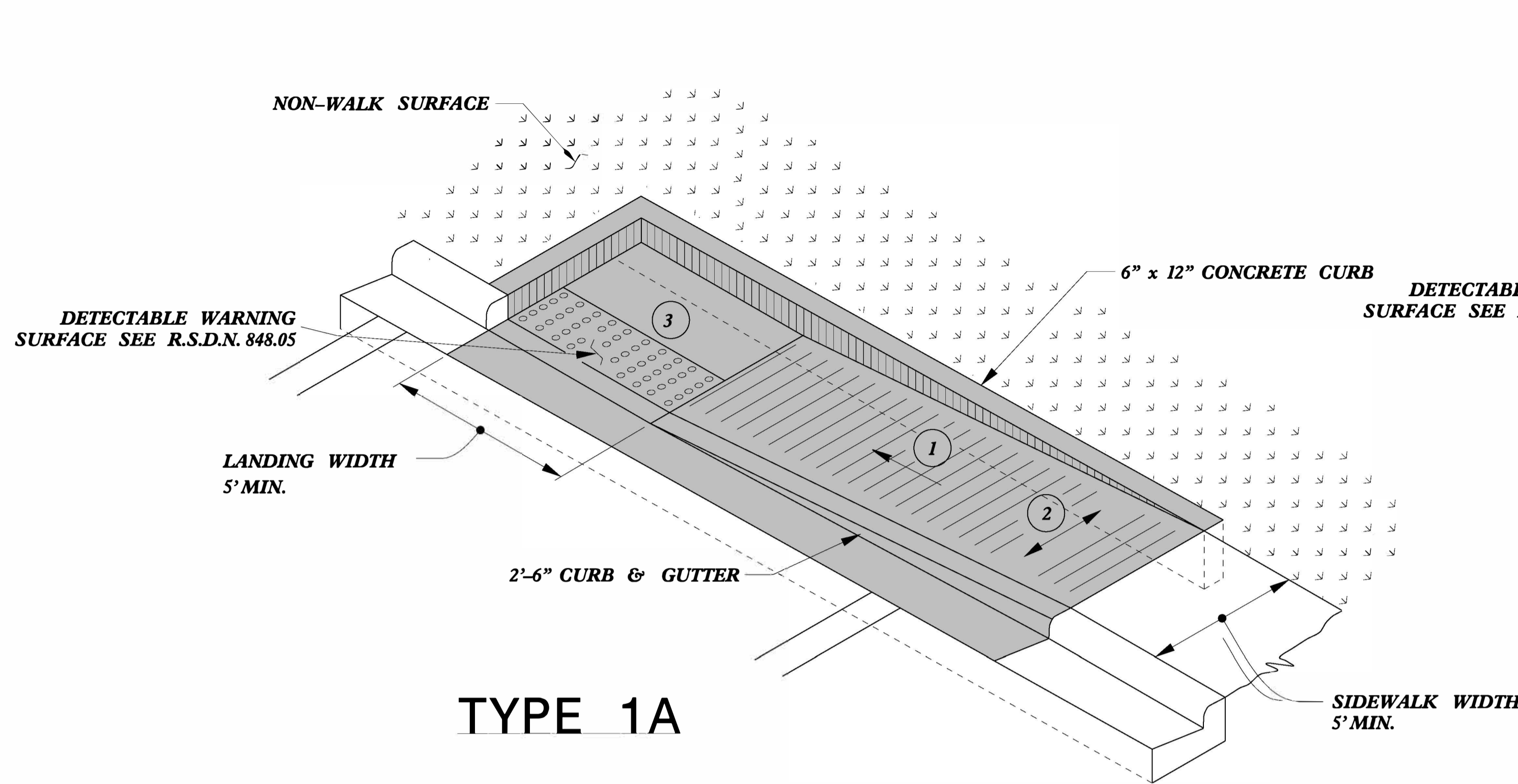
SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

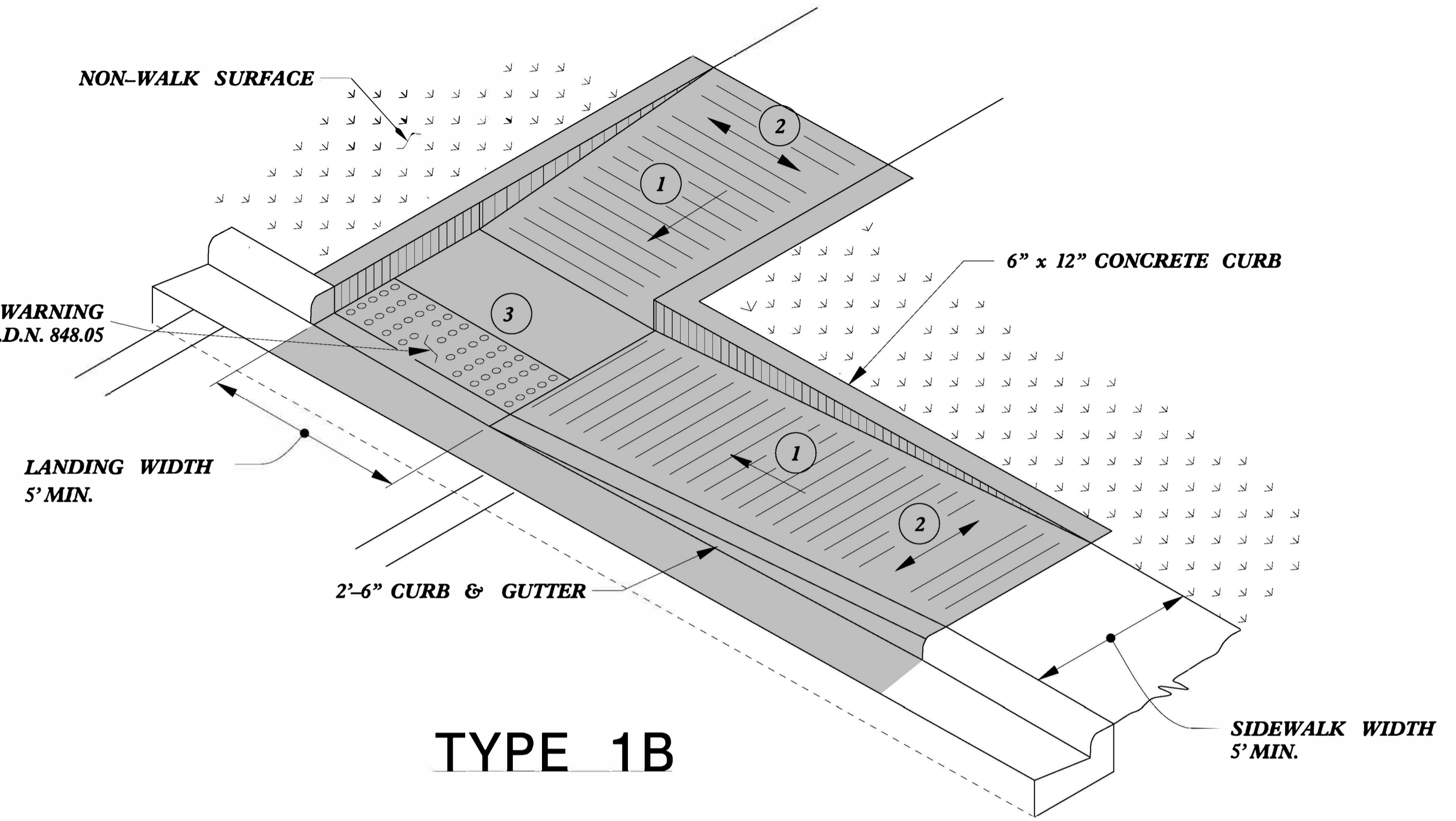
- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT		
Office 919-707-6950 FAX 919-250-4119		
SHOULDER WEDGE DETAILS		
ORIGINAL BY: T.SPELL	DATE: 7-19-11	
MODIFIED BY:	DATE: 2/2/16	
CHECKED BY:	DATE:	
FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn		

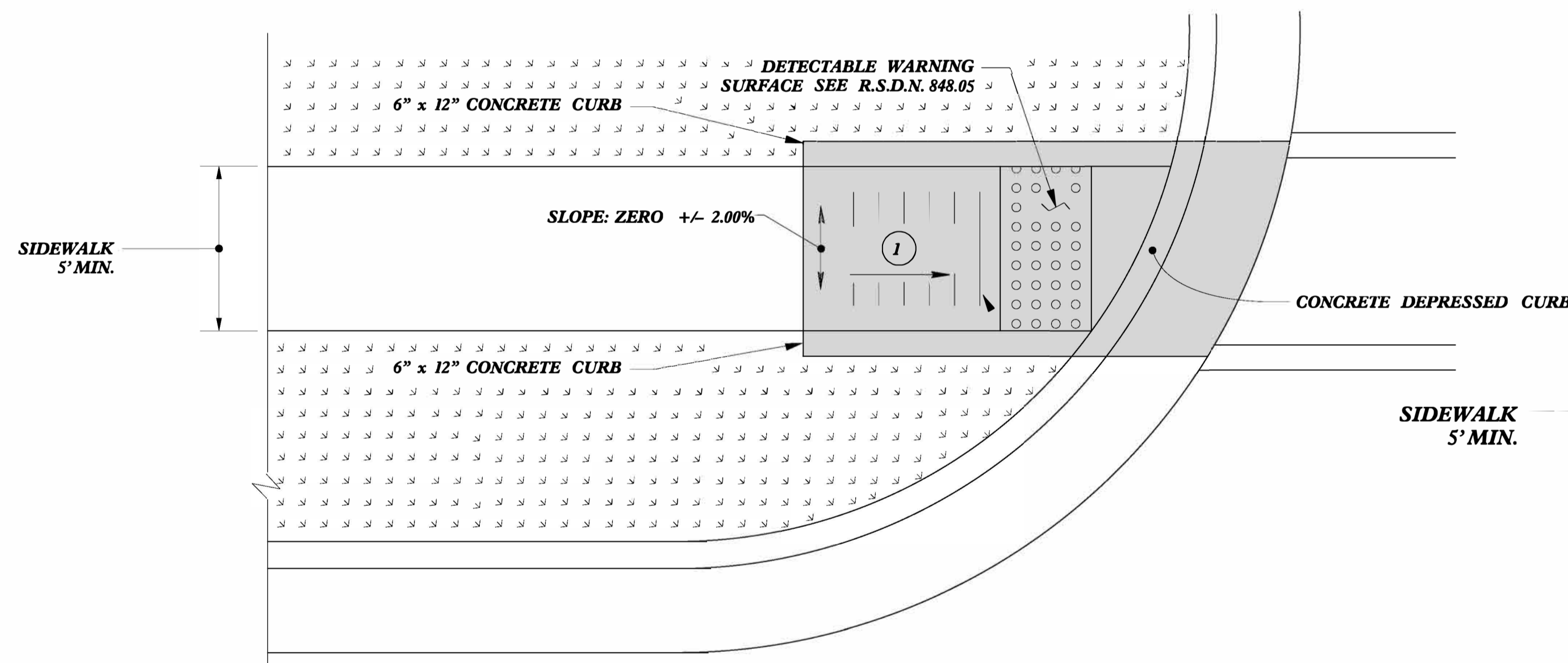
5/14/99



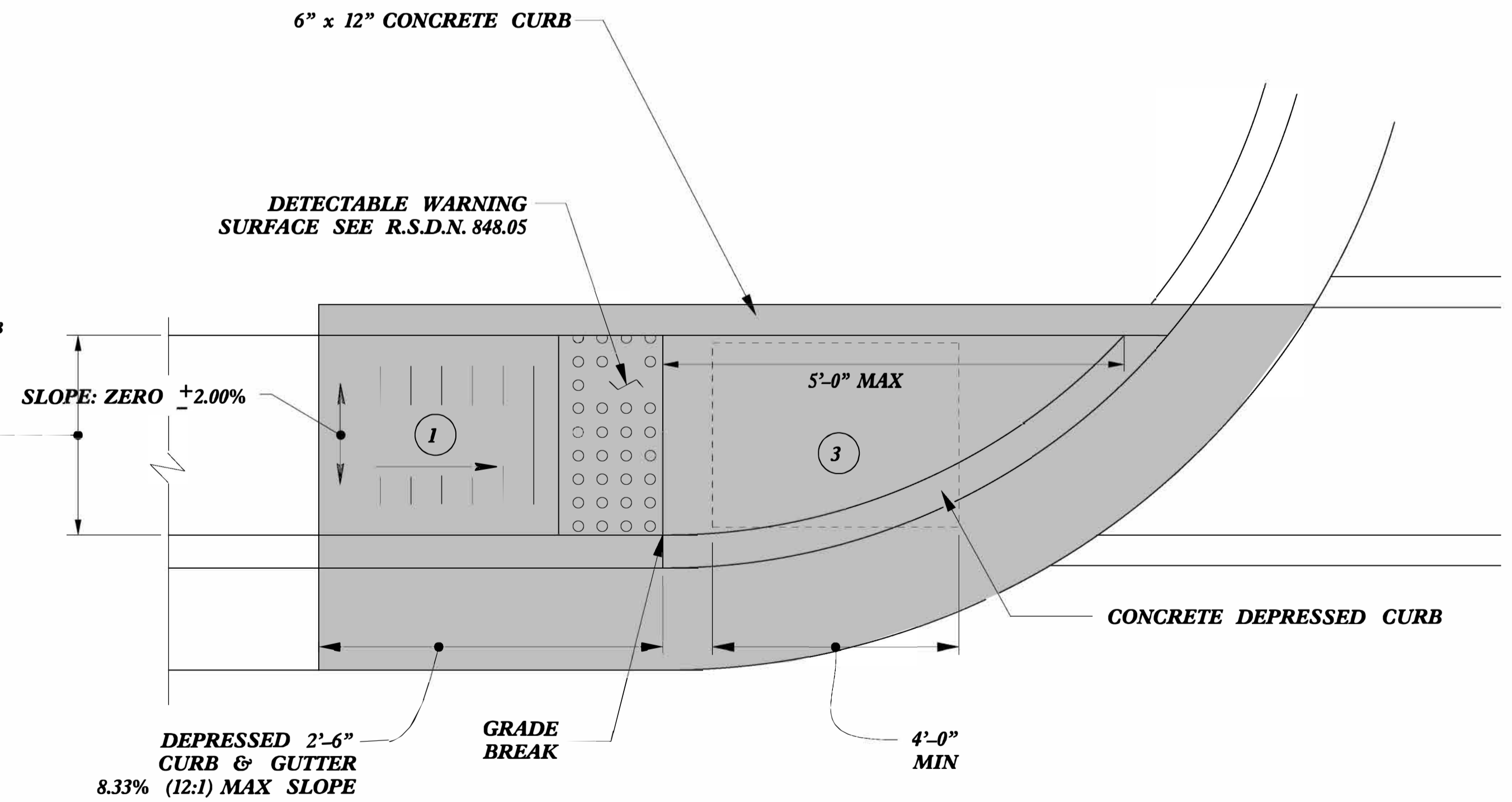
TYPE 1A



TYPE 1B



TYPE 1 Modified

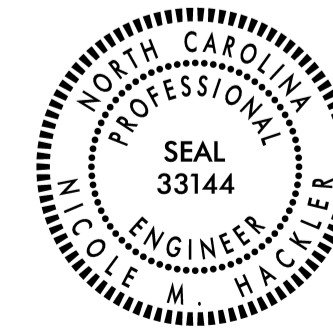


TYPE 1

- 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



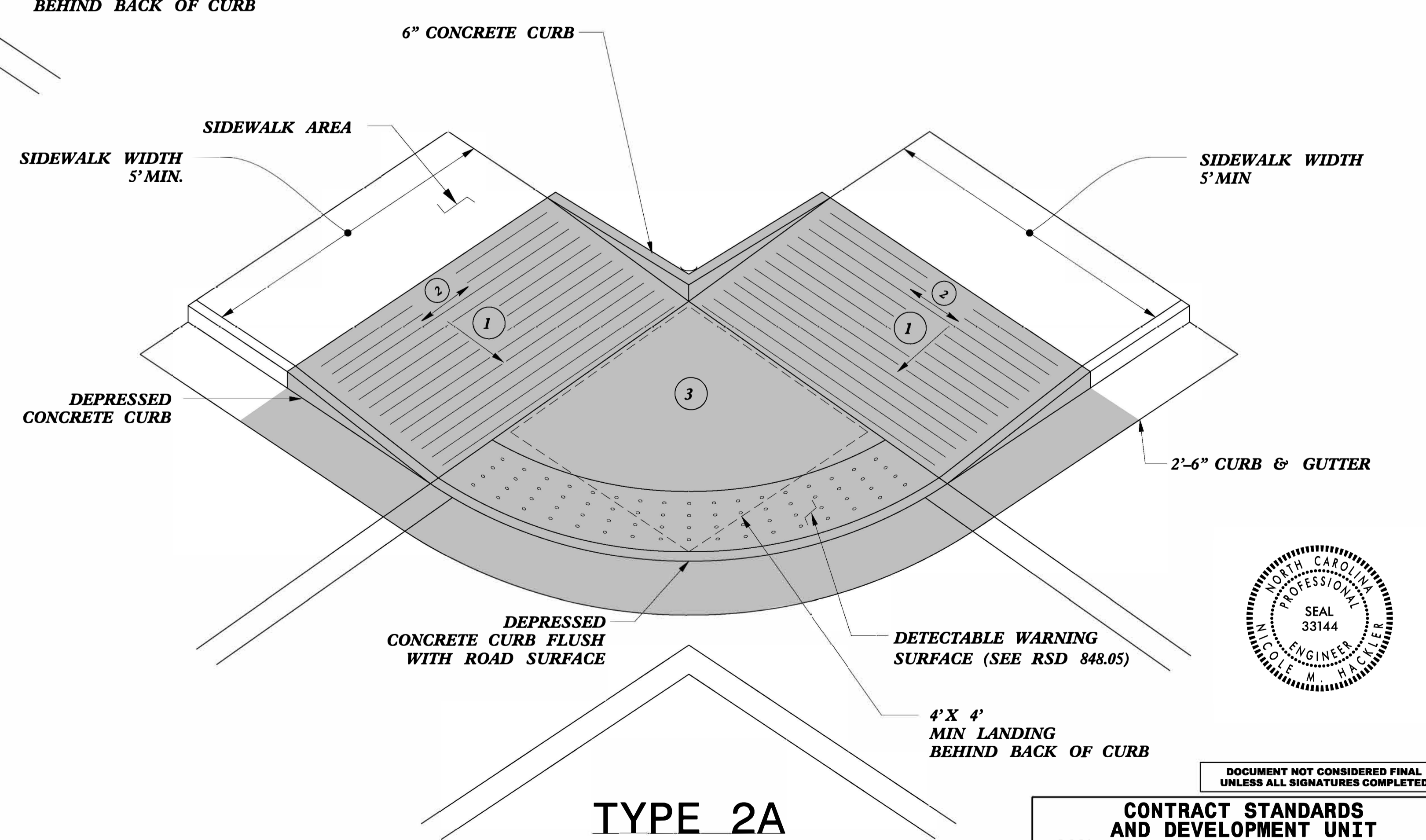
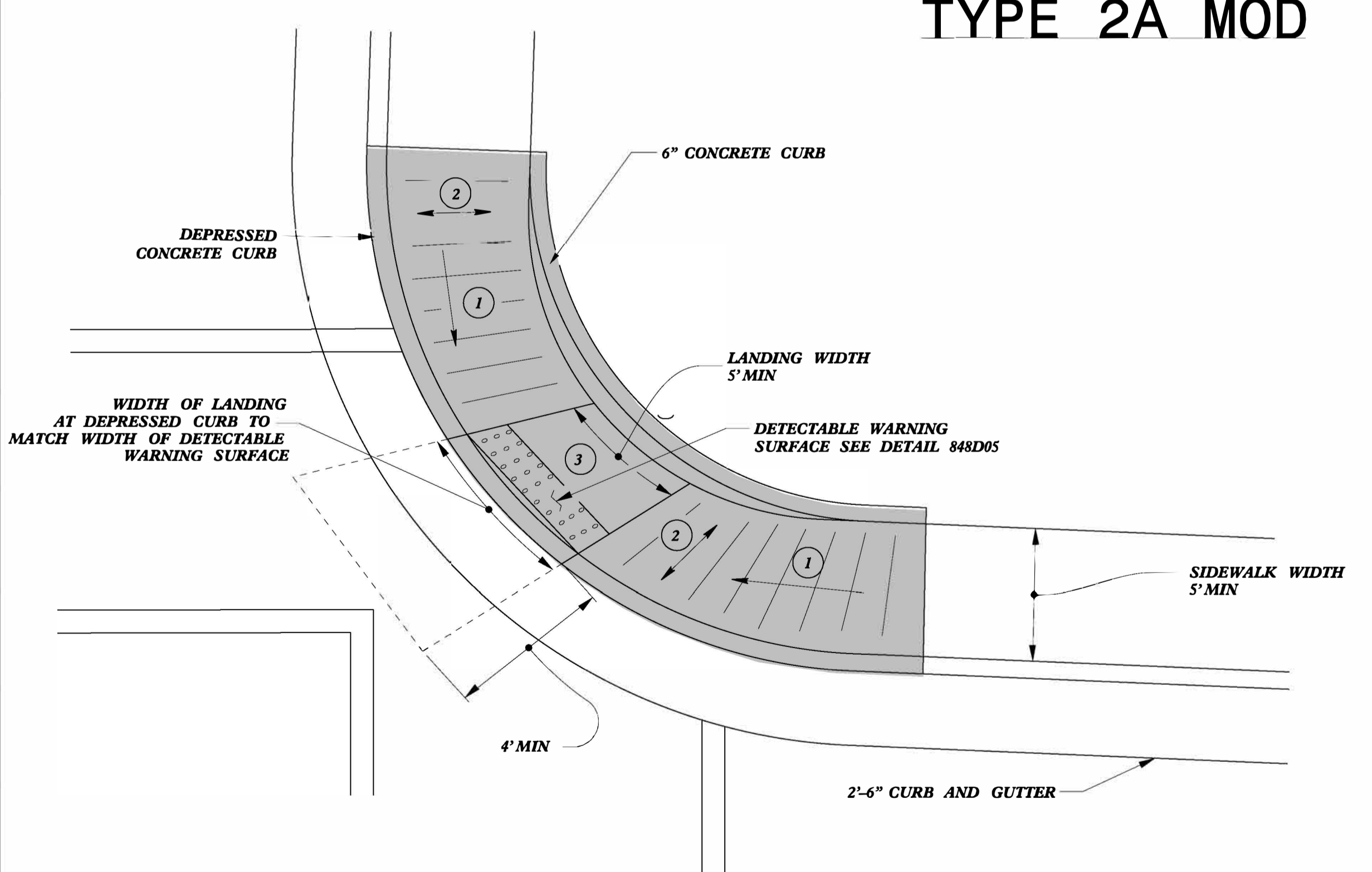
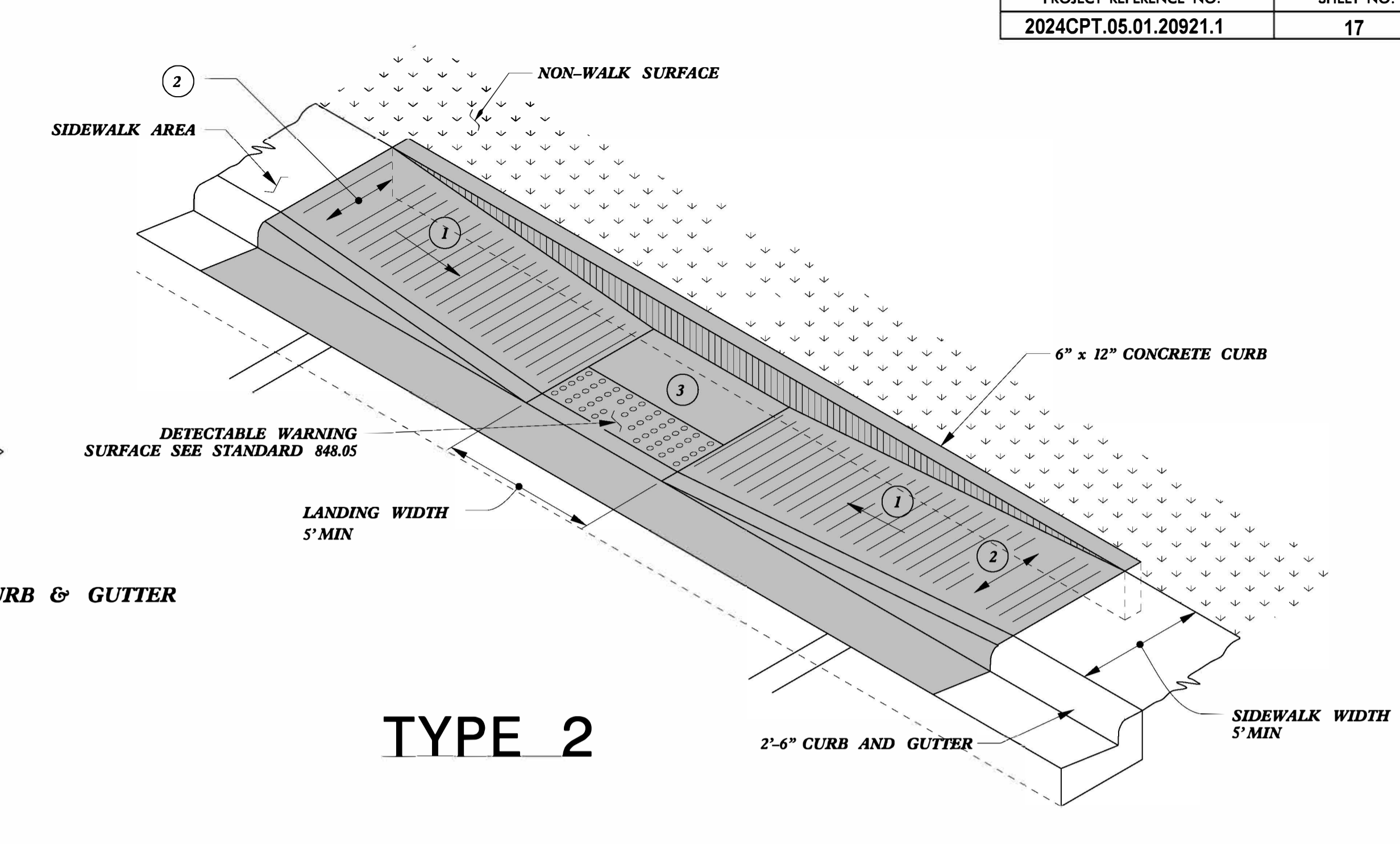
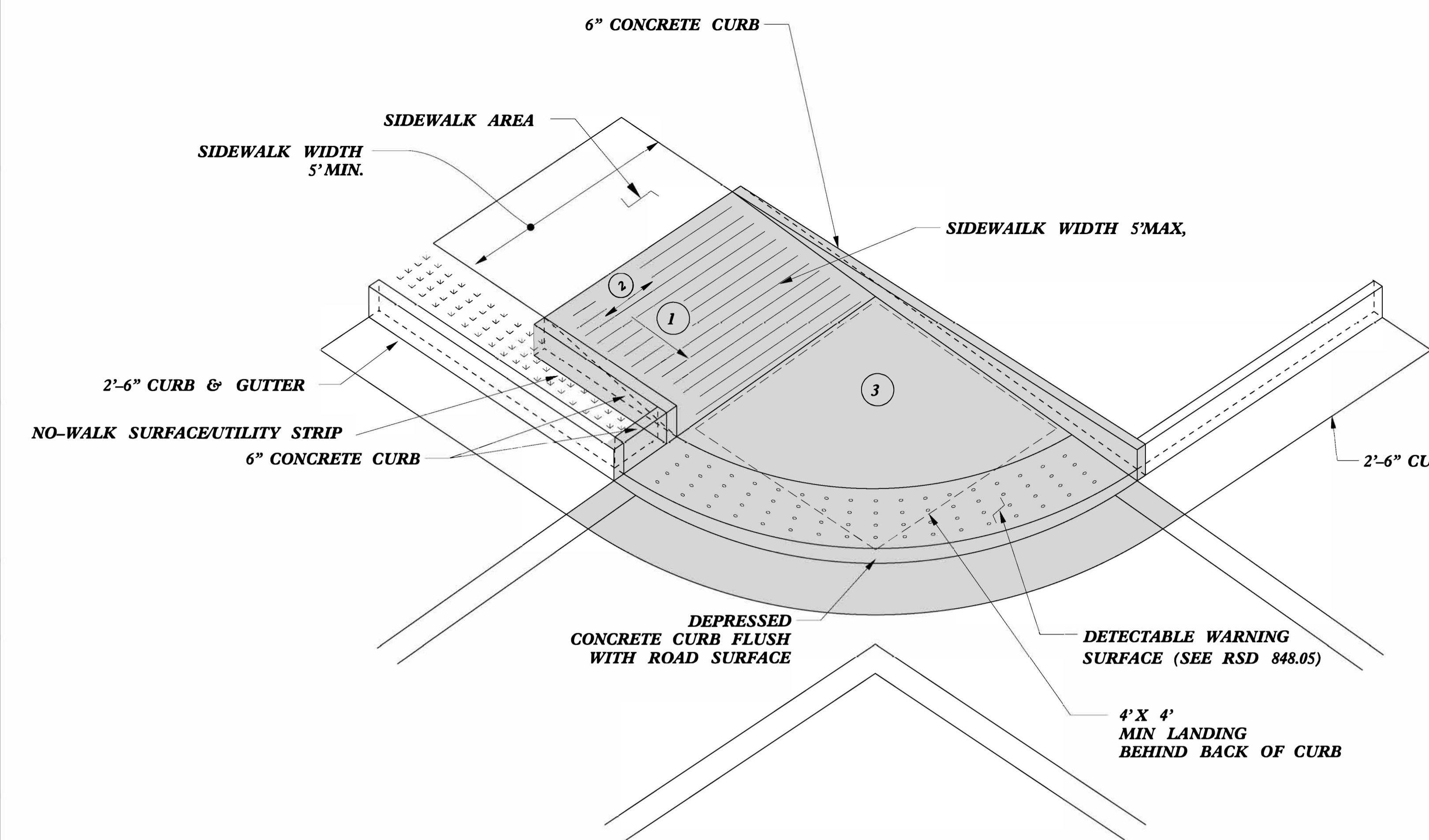
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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



- 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

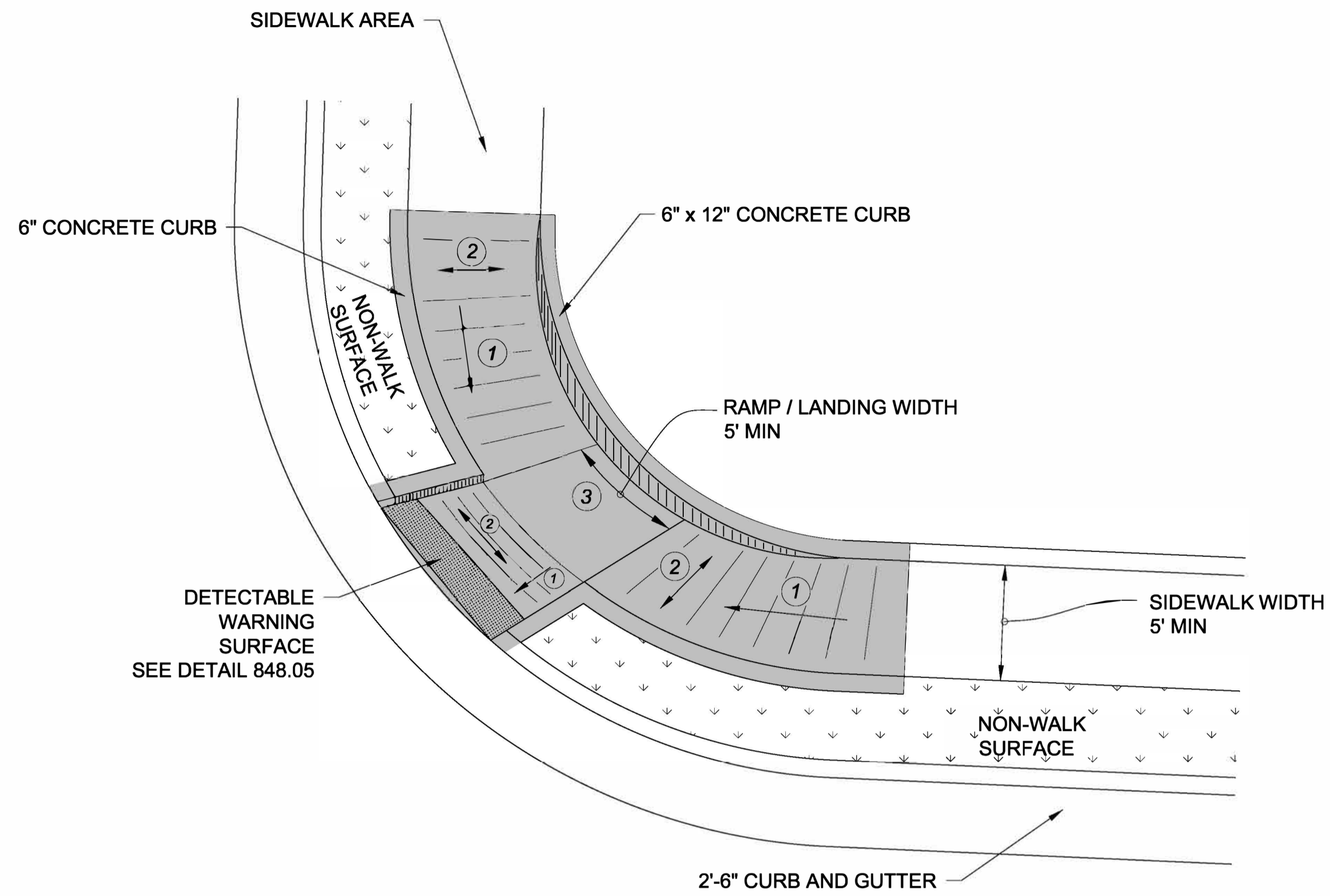


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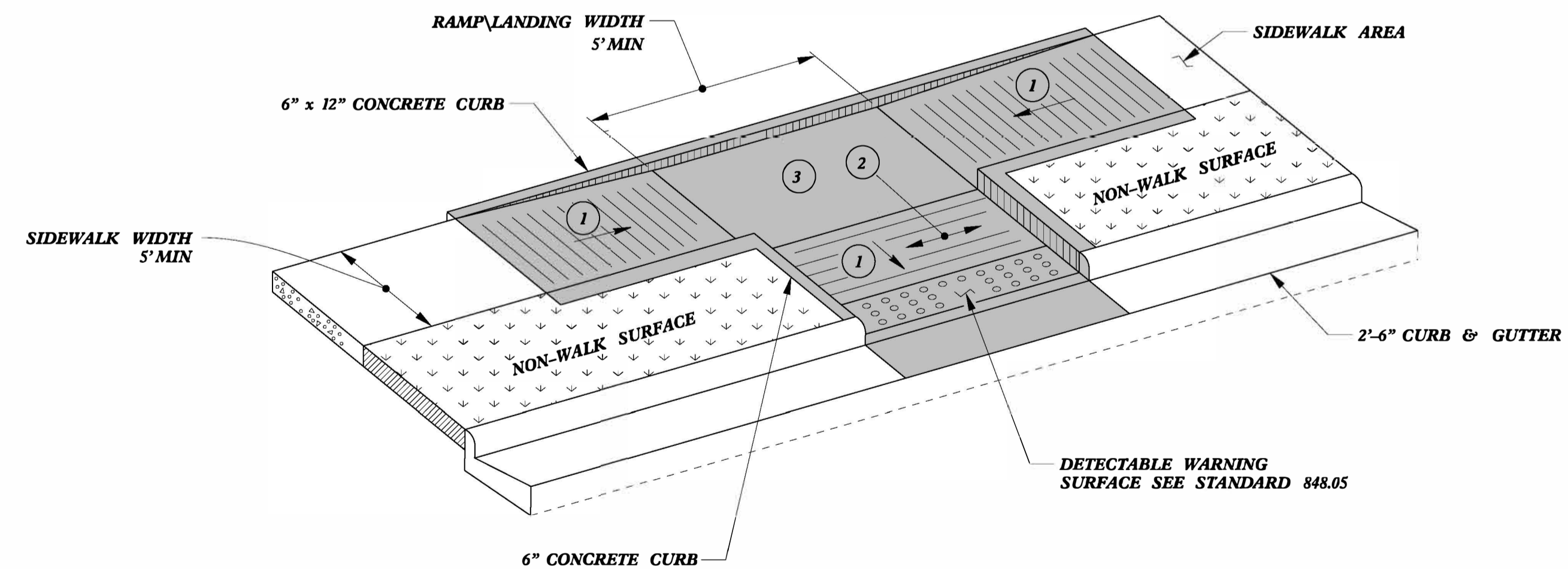
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn	

C:\TIME\9905\2024CPT\05\01\20921\17\990505.dwg

PAY LIMITS FOR 1 CURB RAMP



TYPE 3 MODIFIED
INSTALLATION IN A RADIUS



TYPE 3

- 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

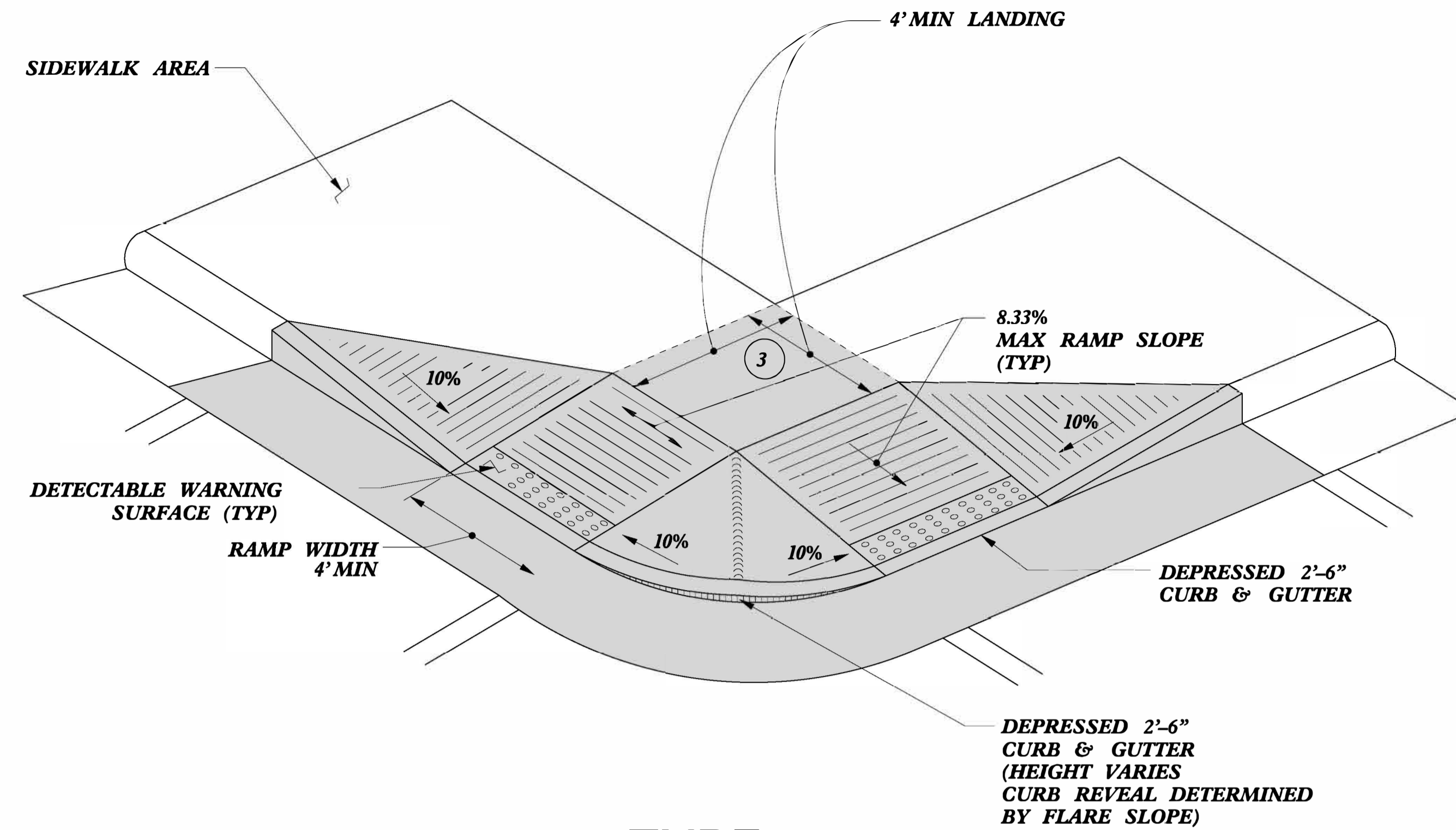
**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

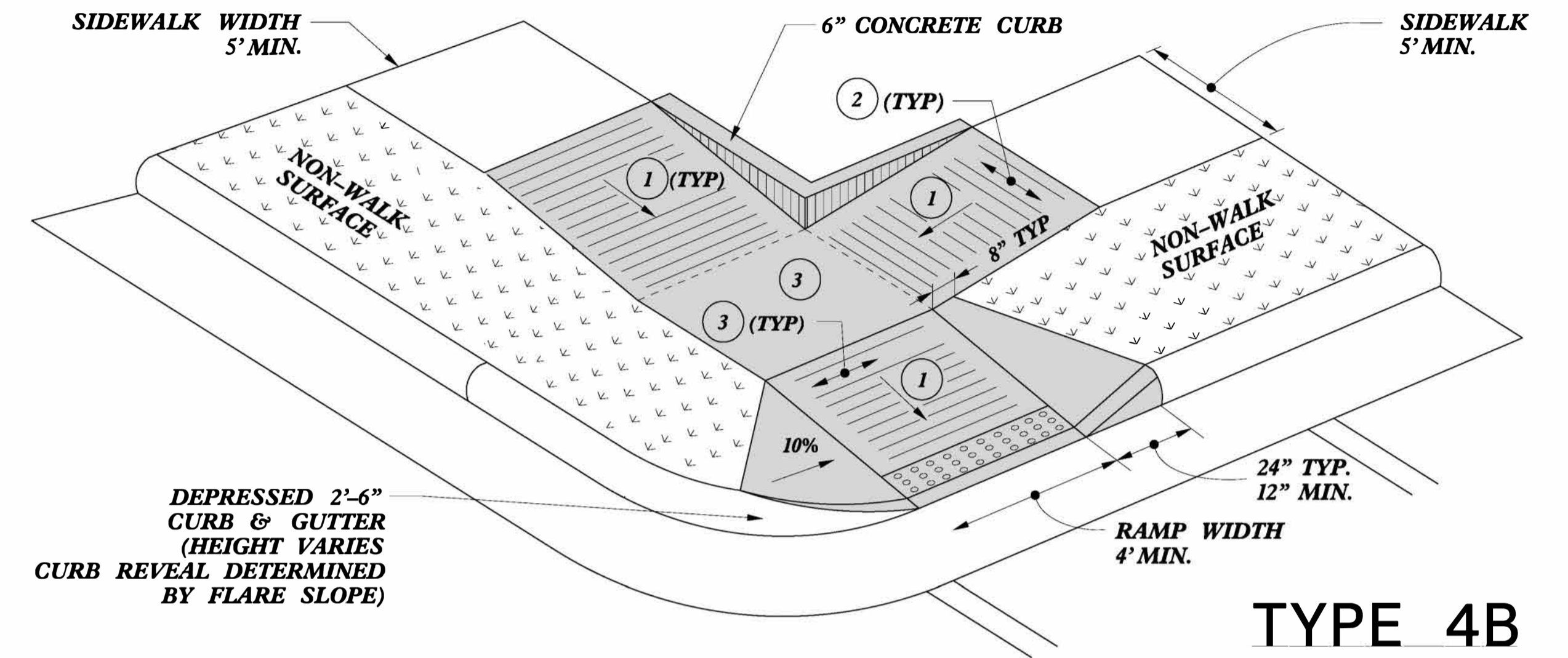
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 CHECKED BY: _____ DATE: _____
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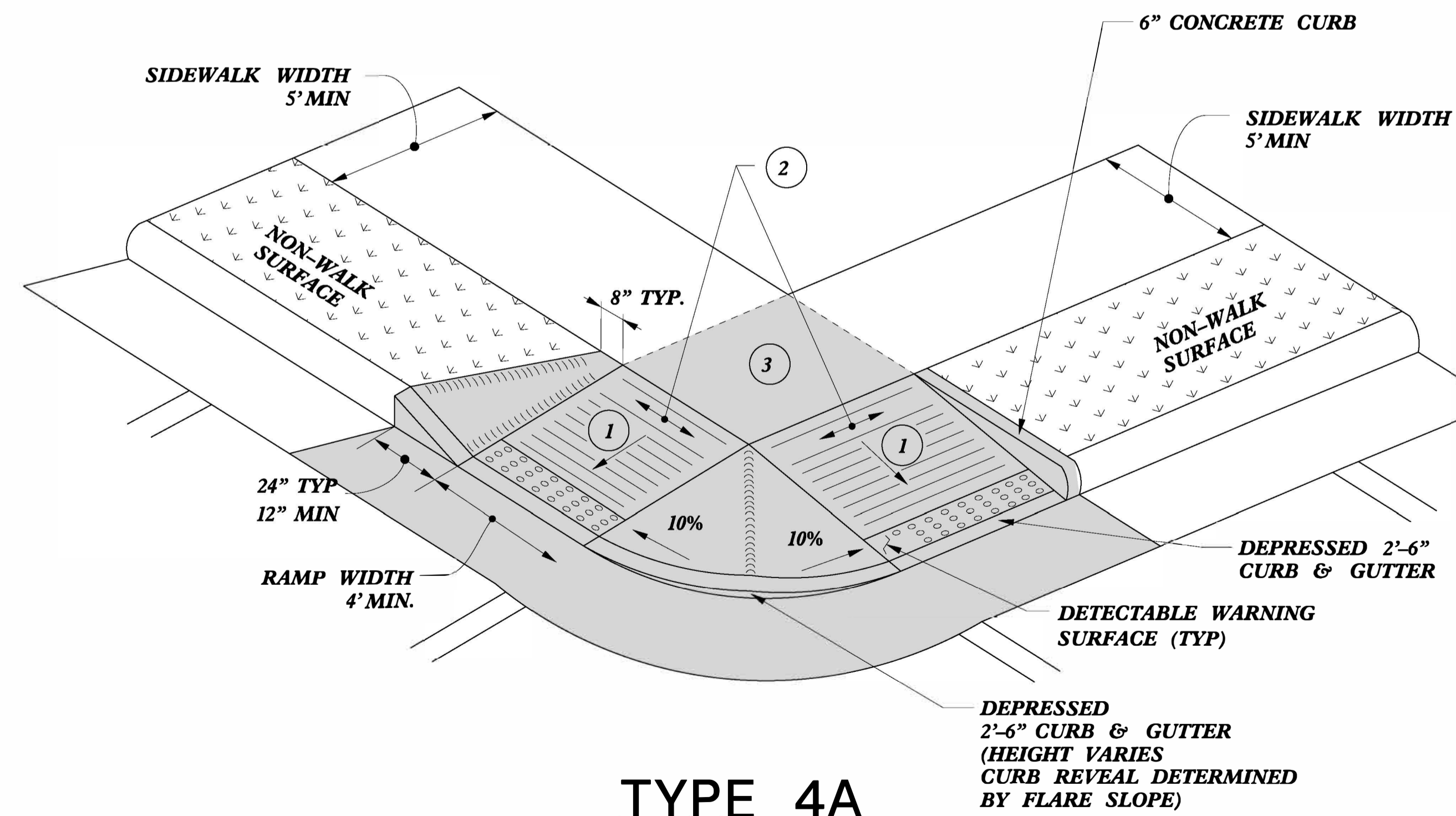
PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF TRUNCATED DOMES)



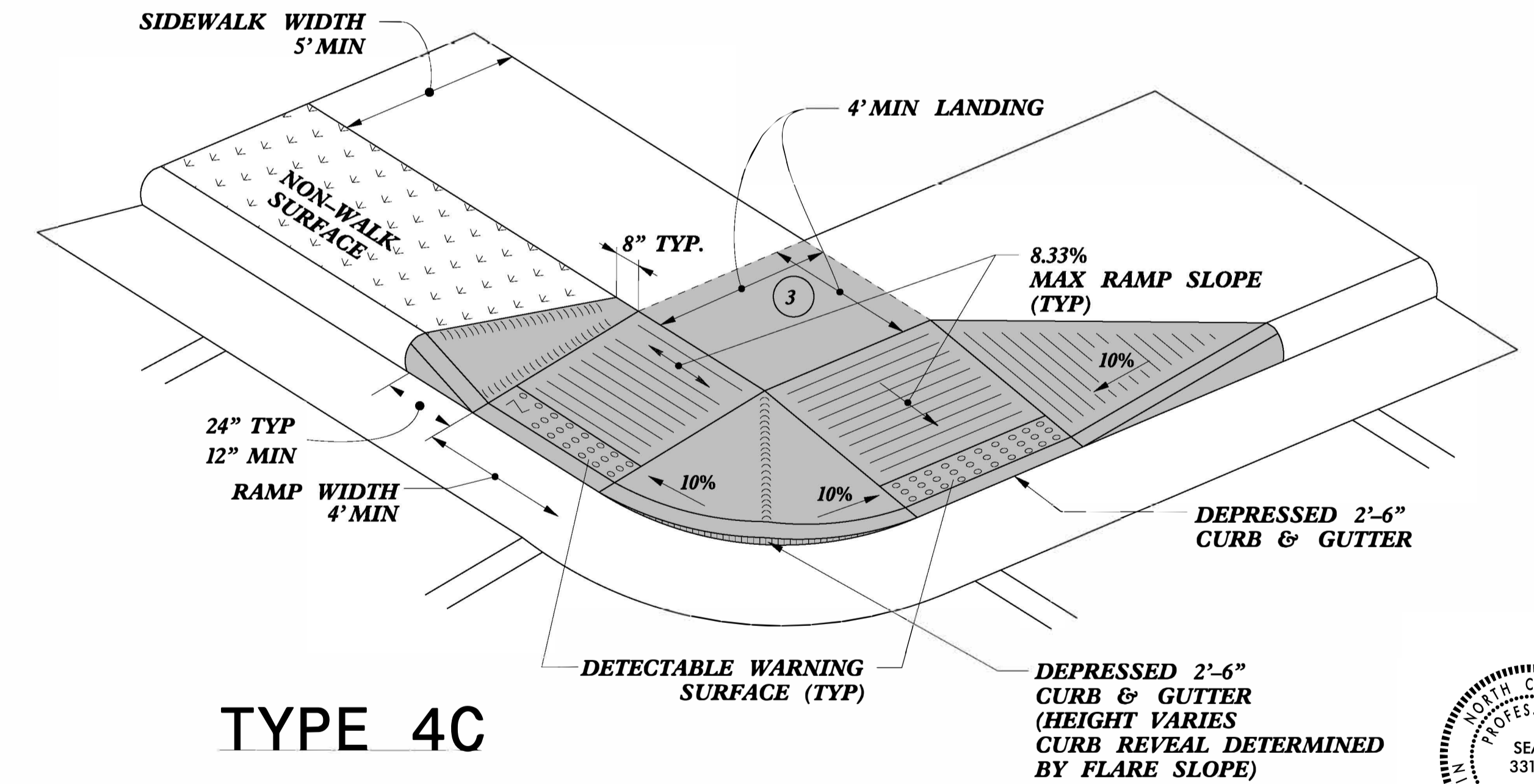
TYPE 4



TYPE 4B



TYPE 4A



TYPE 4C

- 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

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AND DEVELOPMENT UNIT**
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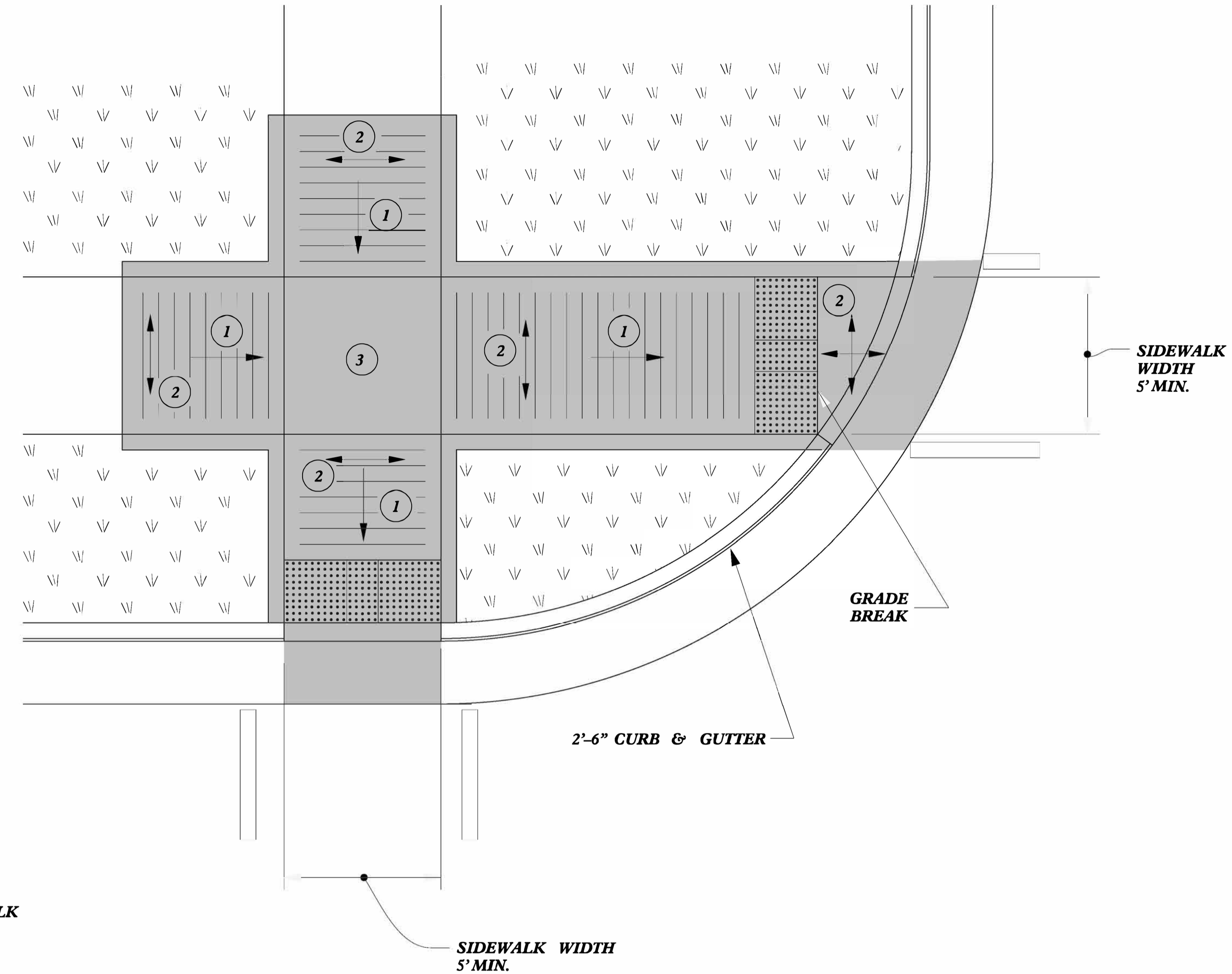
CURB RAMPS

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

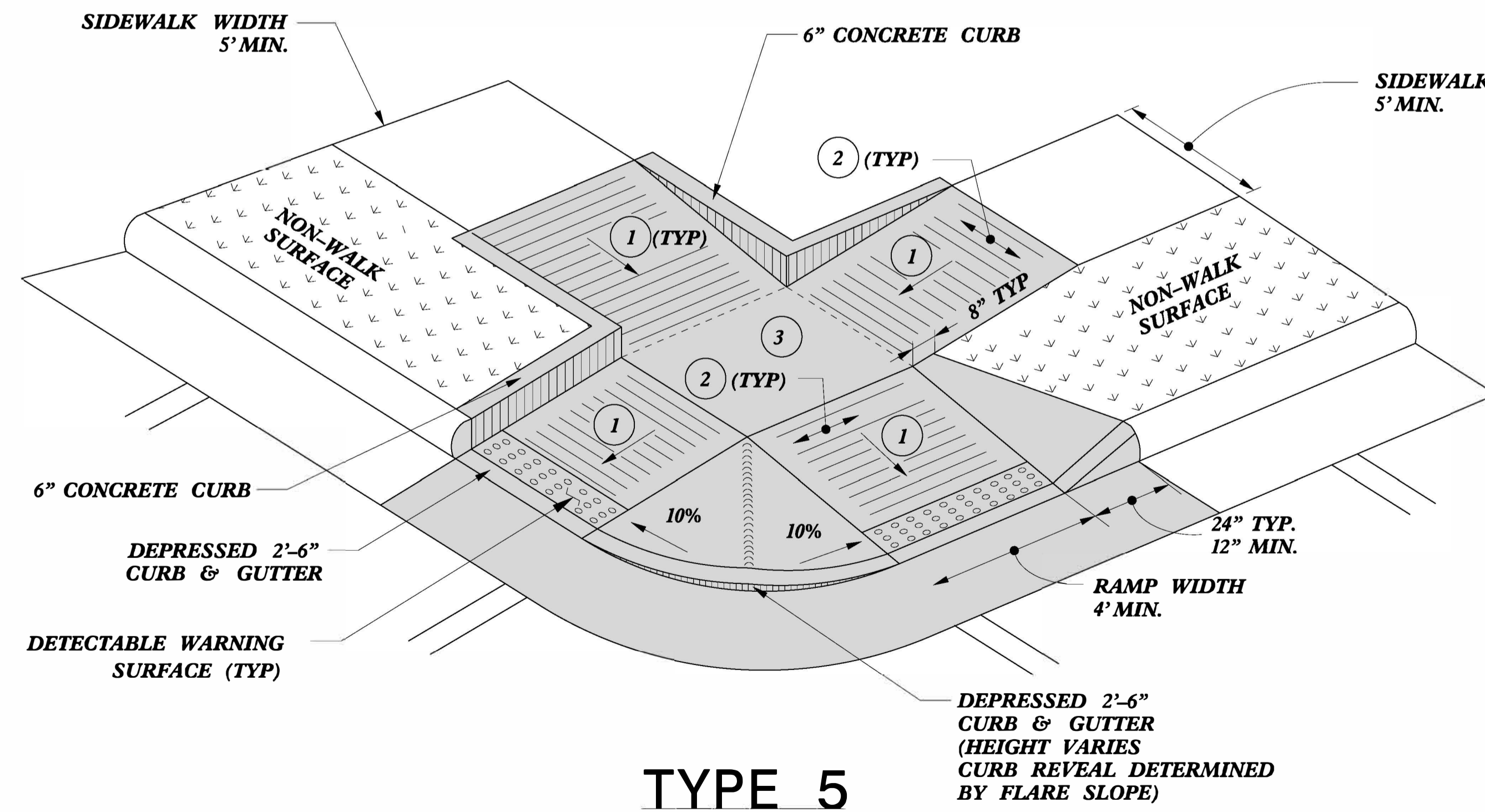
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99
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 PLOT DATE: 7/7/2024 10:00:00 AM
 PLOT BY: J.S. HOWERTON
 PLOT SCALE: 1:1
 PLOT SHEET: 19 OF 19

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.



**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
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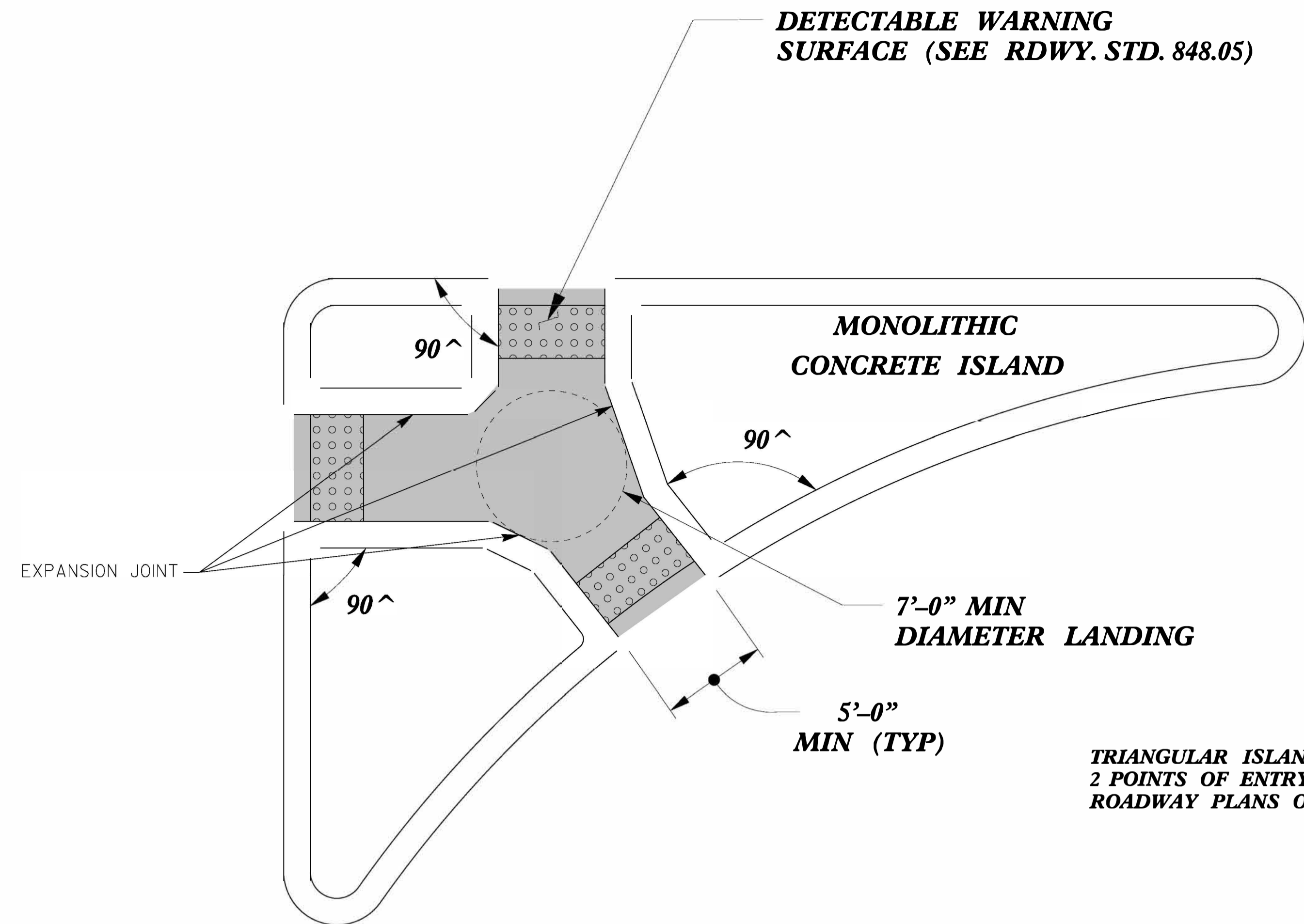
CURB RAMPS

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

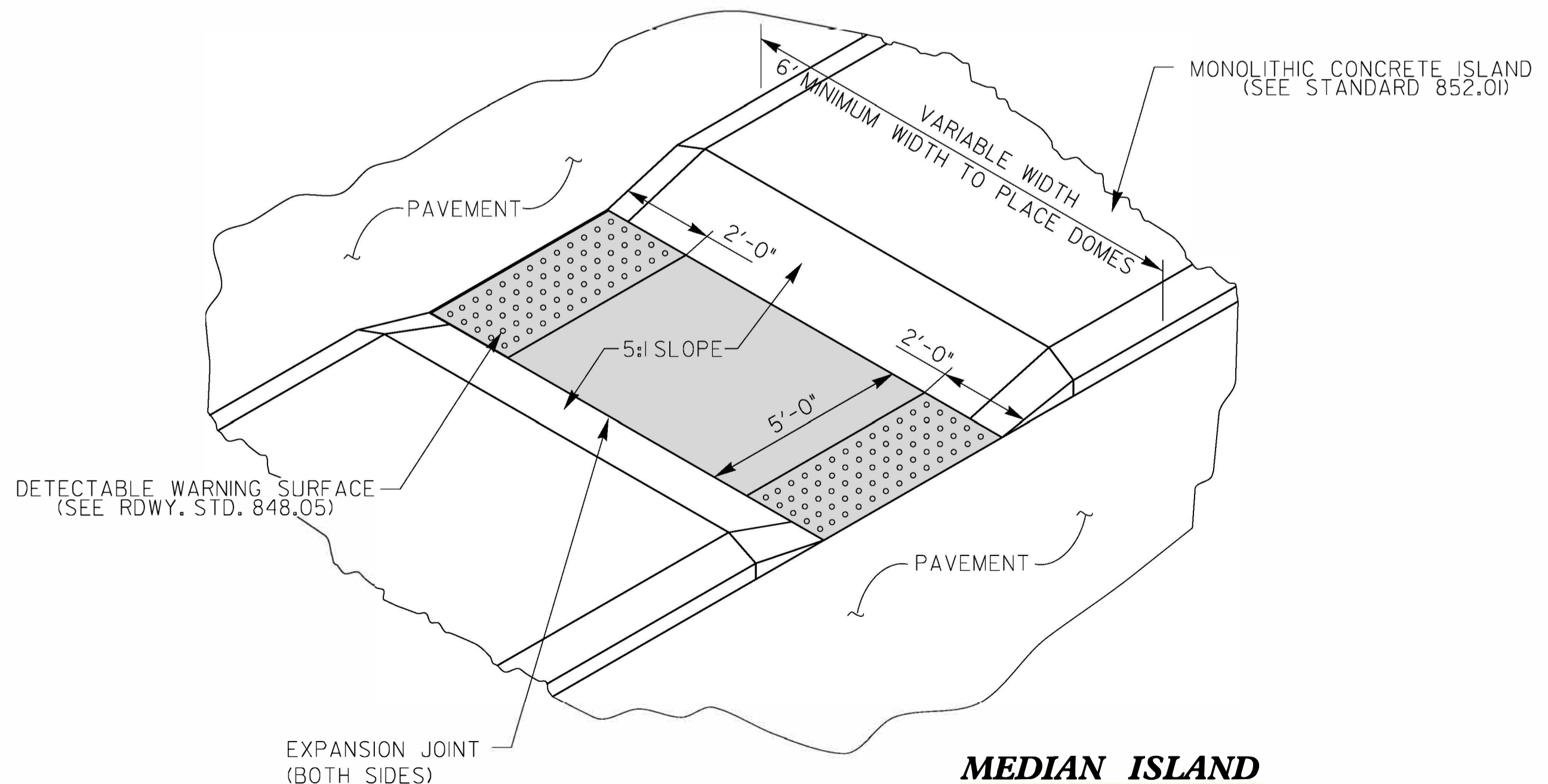
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99
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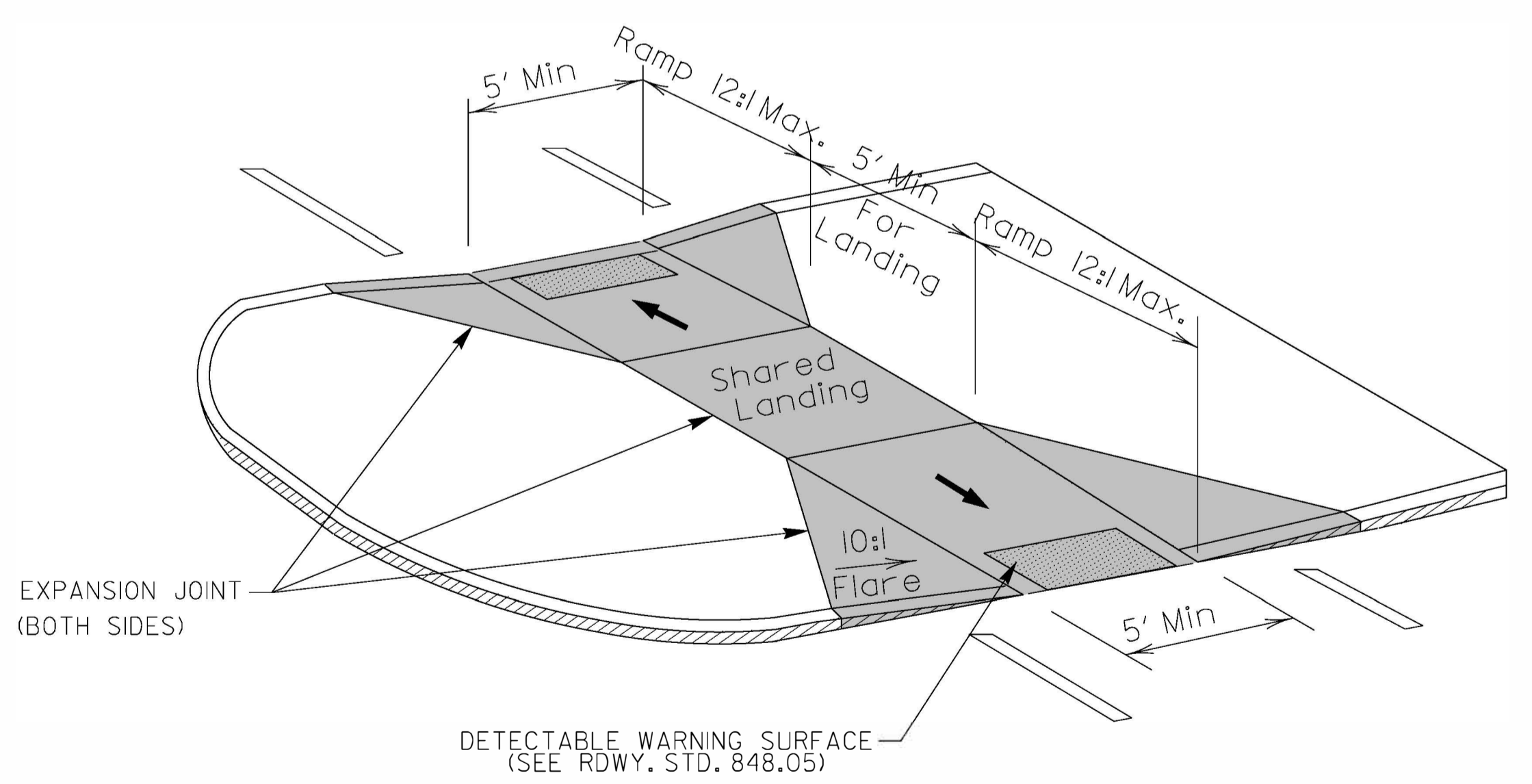
PAY LIMITS FOR 2 OR 3 CURB RAMPS
(CALCULATE BASED ON NUMBER OF
SETS OF TRUNCATED DOMES)



**TRIANGULAR ISLAND
WITH CUT THROUGH
TYPE 6**



**MEDIAN ISLAND
WITH CUT THROUGH
TYPE 7**



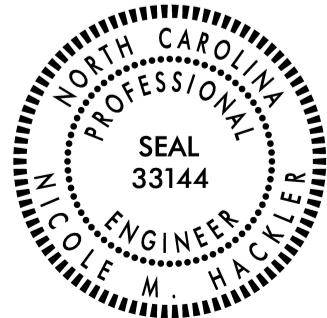
**MEDIAN ISLAND
CURB RAMPS
TYPE 8**

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

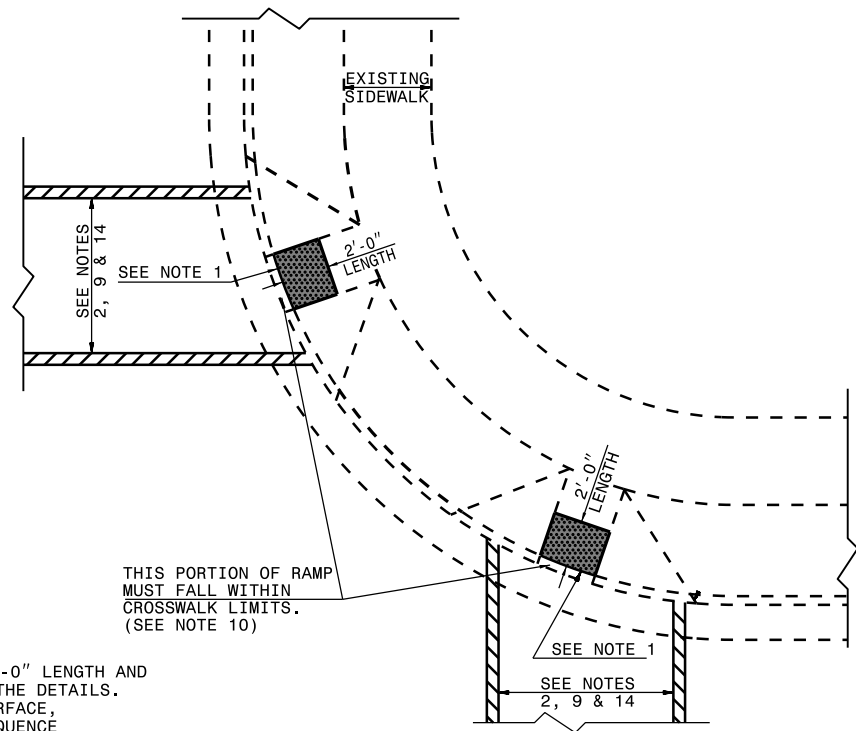
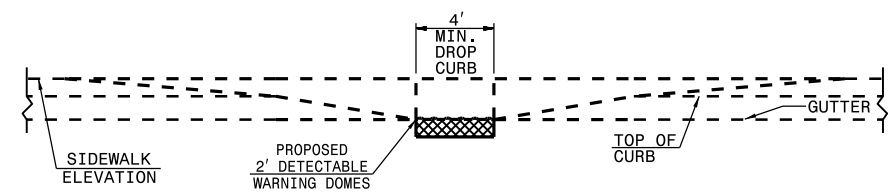
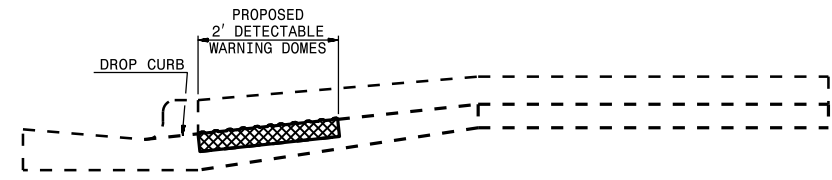
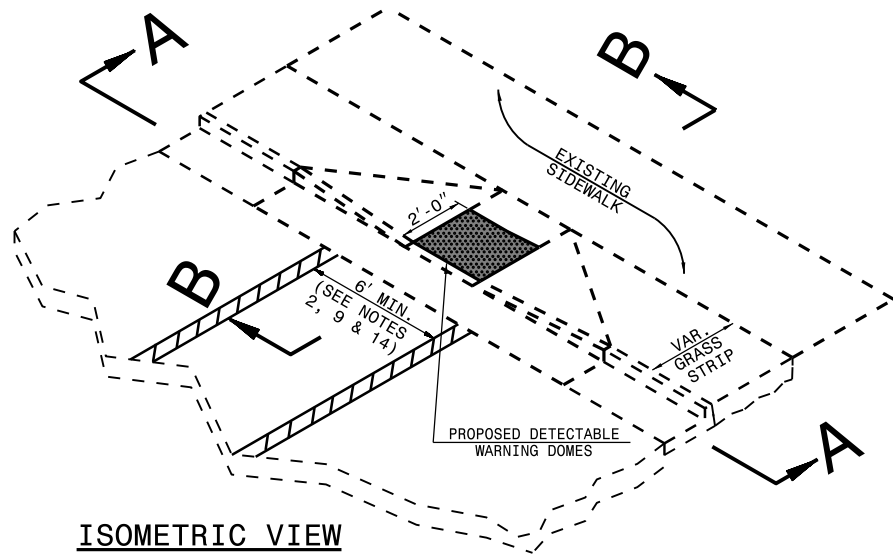
**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
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CURB RAMPS
Median or Turn Lane Islands

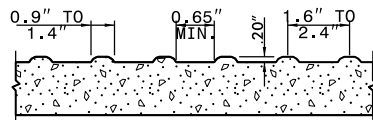
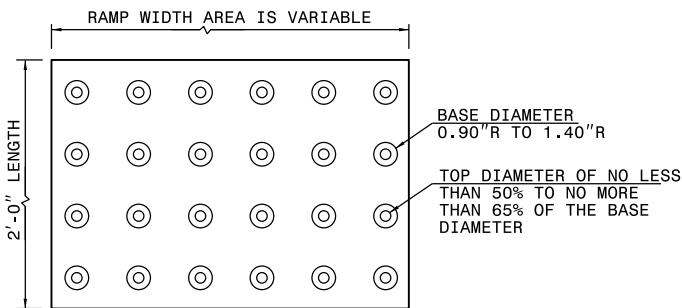
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn



5/14/99
SYTIME
SUGERNAVE



PAY LIMITS OF RETROFIT CURB RAMP



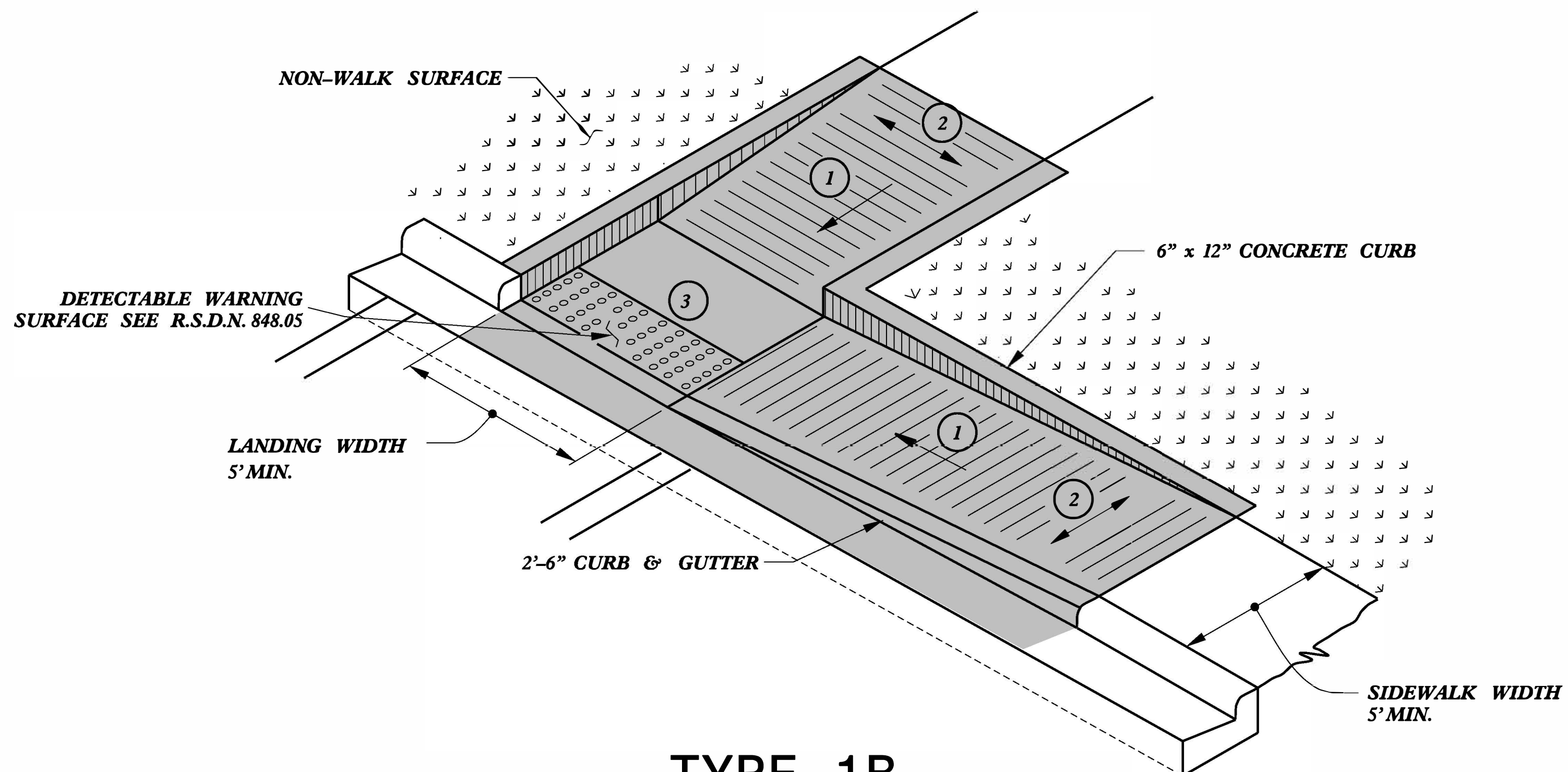
- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

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

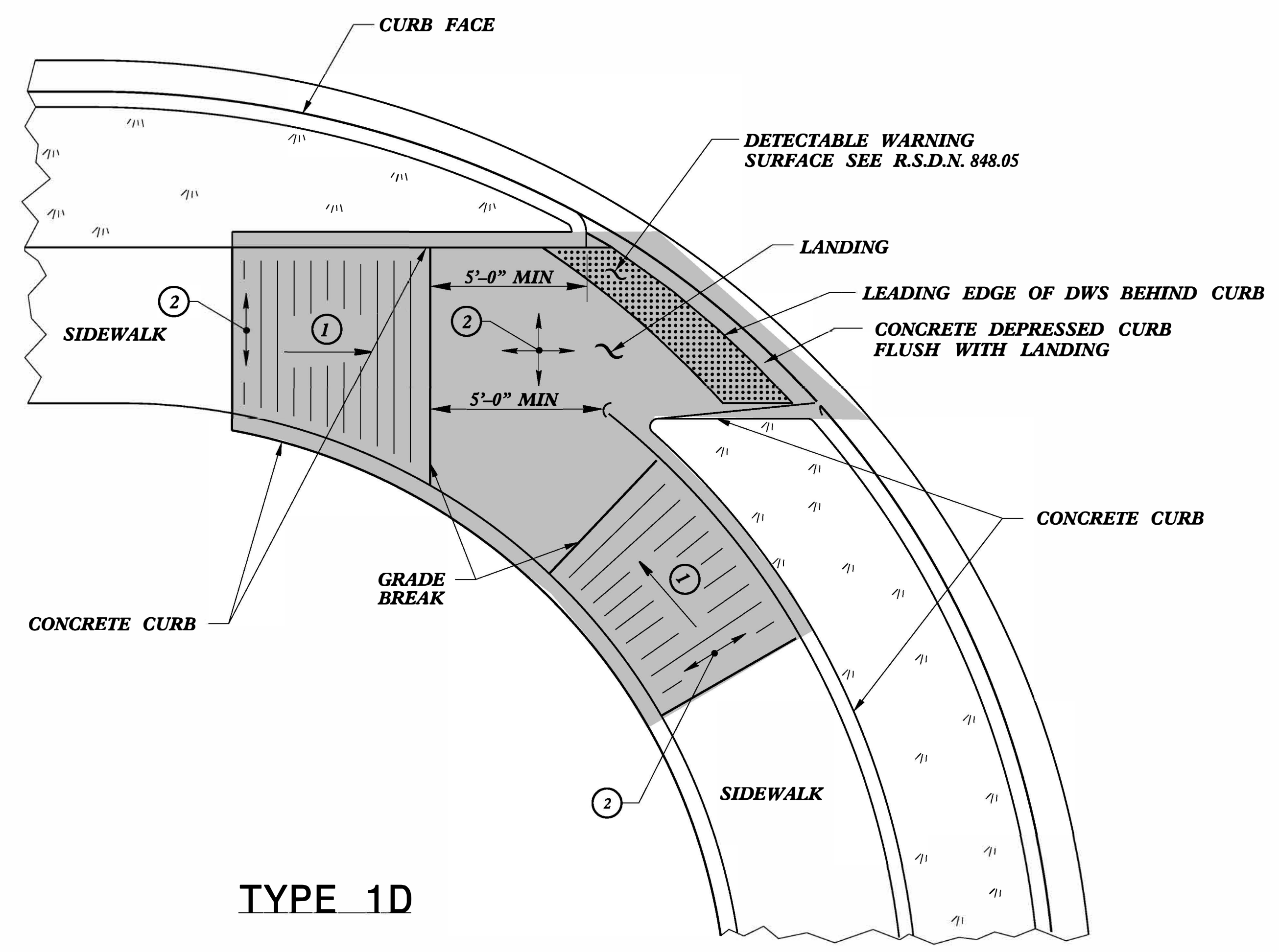
1-18

ROADWAY STANDARD DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

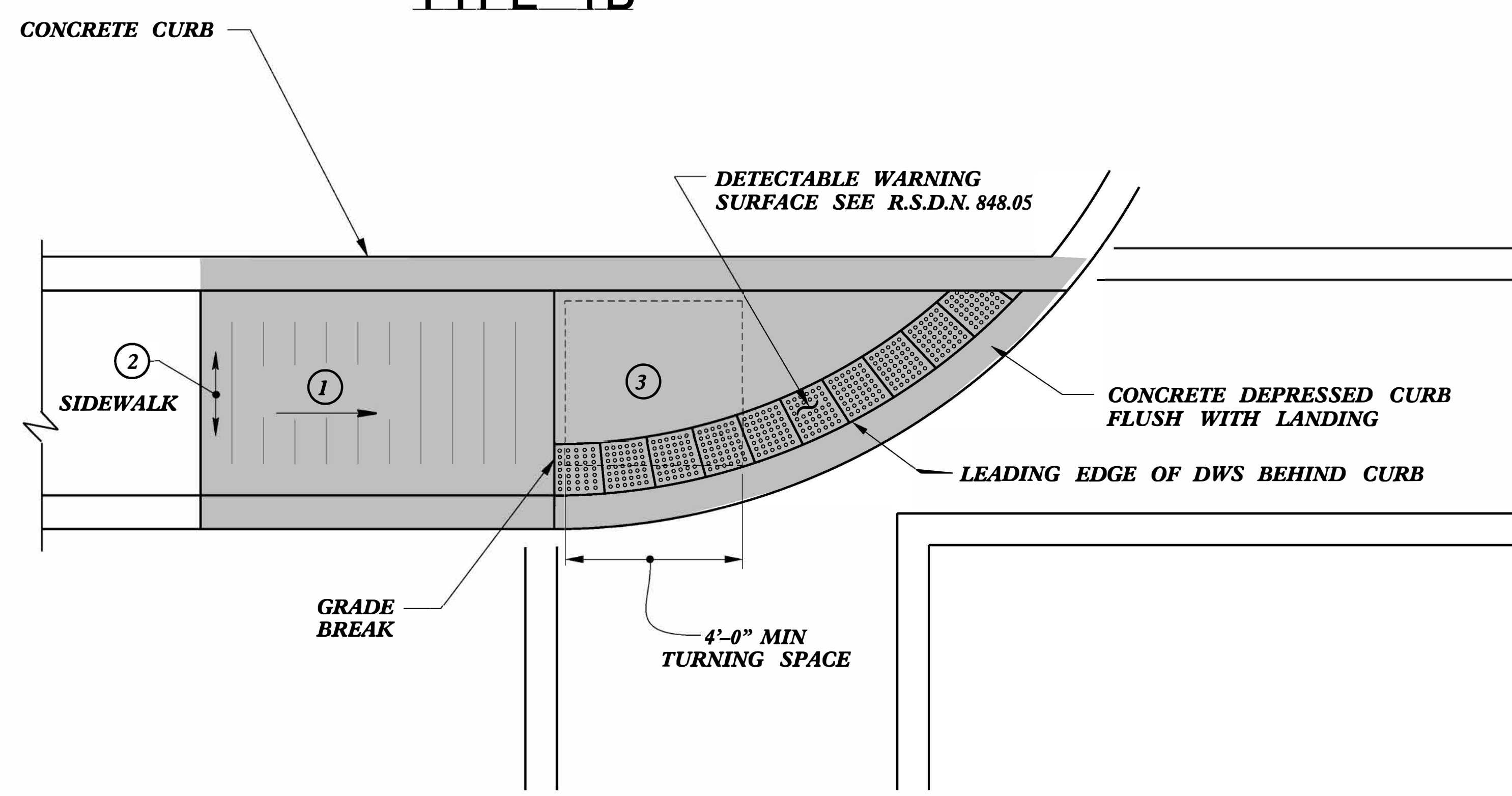
DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)



TYPE 1B



TYPE 1D



TYPE 1C

- 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

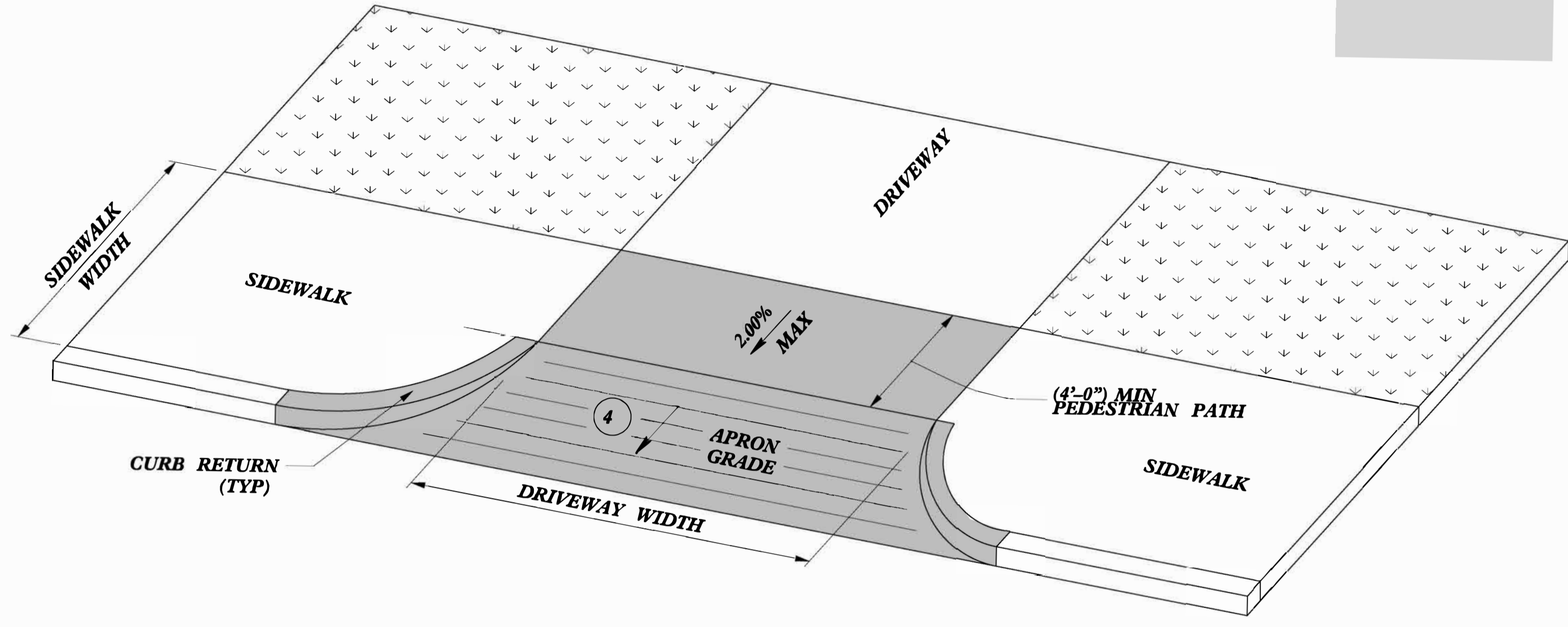
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
CURB RAMPS	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dwg	

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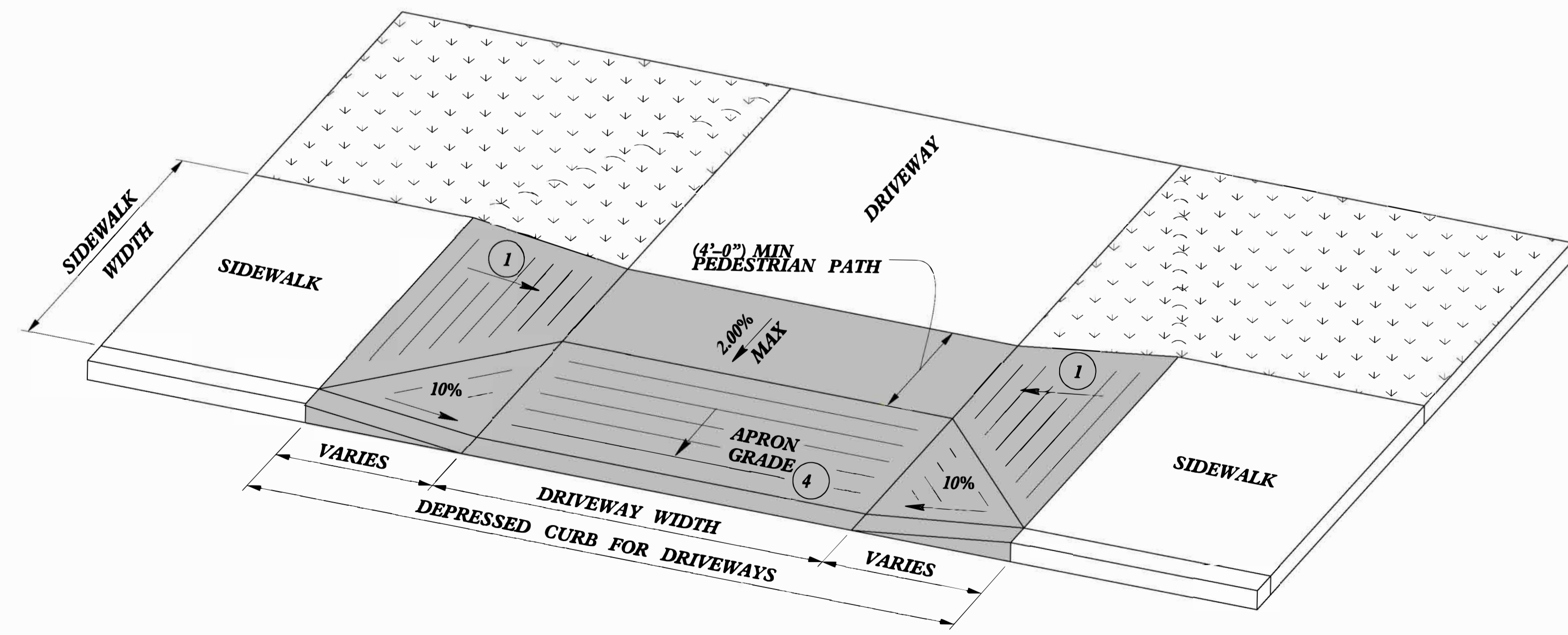
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- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 4 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY

 PAY LIMITS FOR 1 CURB RAMP



DRIVEWAY APRON
OPTION 1



DRIVEWAY APRON
OPTION 2

-SEE ROADWAY DETAIL DRAWING 848.05 FOR DETECTABLE WARNING SURFACE AND FOR RAMP NOTES.
-SEE ROADWAY STANDARD DRAWING 848.02 FOR CONCRETE DRIVEWAYS.



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

CURB RAMPS
@ DRIVEWAY OPENINGS

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: _____ DATE: _____
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ADA SUMMARY OF QUANTITIES - BLUE RIDGE RD/DURALEIGH RD FROM SR 1012 TO U-4437 LIMITS

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake

Sheet No.
25

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
493	1	SR-1664 (Blue Ridge Rd)	Crimson Cross Ct													1			Type 1C
494	1	SR-1664 (Blue Ridge Rd)	Crimson Cross Ct													1			Type 1C
495	2	SR-1664 (Blue Ridge Rd)	Westgrove St			15												1	Remove Ramp
496	2	SR-1664 (Blue Ridge Rd)	Westgrove St													1			Type1Modified
497	2	SR-1664 (Blue Ridge Rd)	Wells Fargo / Shopping Center (4530 Western Blvd) Blue Ridge Rd Back Entrance							9			2			1			Type1Modified
498	2	SR-1664 (Blue Ridge Rd)	Wells Fargo / Shopping Center (4530 Western Blvd) Blue Ridge Rd Back Entrance													1			Type1Modified
24038	2	SR-1664 (Blue Ridge Rd)	Westgrove St							3						1			Type 1C
24039	2	SR-1664 (Blue Ridge Rd)	Westgrove St			15												1	Remove Ramp
499	3	SR-1664 (Blue Ridge Rd)	Shopping Center (4500 Western Blvd)													1			Type1Modified
503	4	SR-1664 (Blue Ridge Rd)	SR-1012 (Western Blvd)													1			Standard - 848.06
504	4	SR-1664 (Blue Ridge Rd)	SR-1012 (Western Blvd)													1			Standard - 848.06
508	4	SR-1664 (Blue Ridge Rd)	SR-1012 (Western Blvd)													1			Type2
Sub-Total for Blue Ridge Rd/Duraleigh Rd From SR 1012 To U-4437 Limits				0	0	30	0	0	0	12	0	0	2	0	0	10	0	2	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - BLUE RIDGE RD/DURALEIGH RD FROM US 70 TO REEDY CREEK RD

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake
Outside Municipality:	

Sheet No.	26
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
19676	1	SR-1664 (Duraleigh Rd)	Walgreens (6901 Glenwood Ave) Duraleigh Rd North Entrance				15									1			Type 1C
19677	1	SR-1664 (Duraleigh Rd)	Walgreens (6901 Glenwood Ave) Duraleigh Rd North Entrance												1				RetrofitWarnings
19720	1	SR-1664 (Duraleigh Rd)	NTB Tire & Battery (6120 Duraleigh Rd)													1			Type 1C
19721	1	SR-1664 (Duraleigh Rd)	NTB Tire & Battery (6120 Duraleigh Rd)												1				RetrofitWarnings
19722	1	SR-1664 (Duraleigh Rd)	NTB Tire & Battery (6120 Duraleigh Rd)												1				RetrofitWarnings
19723	1	SR-1664 (Duraleigh Rd)	NTB Tire & Battery (6120 Duraleigh Rd)													1			Type 1C
19718	2	SR-1664 (Duraleigh Rd)	Triangle Rock Club (6022 Duraleigh Rd)													1			Type 1C
19719	2	SR-1664 (Duraleigh Rd)	Triangle Rock Club (6022 Duraleigh Rd)													1			Type 1C
19678	3	SR-1664 (Duraleigh Rd)	Walgreens (6901 Glenwood Ave) Duraleigh Rd South Entrance													1			Type1B
19679	3	SR-1664 (Duraleigh Rd)	Walgreens (6901 Glenwood Ave) Duraleigh Rd South Entrance							6						1			Type 1C
19716	3	SR-1664 (Duraleigh Rd)	K-Town Market (6014 Duraleigh Rd)													1			Type1Modified
19717	3	SR-1664 (Duraleigh Rd)	K-Town Market (6014 Duraleigh Rd)													1			Type1B
19712	4	SR-1664 (Duraleigh Rd)	Napa Walker Auto Parts (6010 Duraleigh Rd)										1			1			Type1Modified
19713	4	SR-1664 (Duraleigh Rd)	Napa Walker Auto Parts (6010 Duraleigh Rd)										1			1			Type1Modified
19714	4	SR-1664 (Duraleigh Rd)	K-Town Market (6014 Duraleigh Rd)										1			1			Type1Modified
19715	4	SR-1664 (Duraleigh Rd)	K-Town Market (6014 Duraleigh Rd)									1				1			Type1Modified
19680	5	SR-1664 (Duraleigh Rd)	Pleasant Valley Rd									1				1			Type3Modified
19681	5	SR-1664 (Duraleigh Rd)	Pleasant Valley Rd													1			Type3Modified
19682	5	SR-1664 (Duraleigh Rd)	Pleasant Valley Rd													1			Type3Modified
19683	5	SR-1664 (Duraleigh Rd)	Pleasant Valley Rd										1			1			Type3Modified
19708	5	SR-1664 (Duraleigh Rd)	Pleasant Valley Rd													1			Type3Modified
19709	5	SR-1664 (Duraleigh Rd)	Pleasant Valley Rd													1			Type3Modified
19684	6	SR-1664 (Duraleigh Rd)	Waterford Point Dr													1			Type3Modified
19685	6	SR-1664 (Duraleigh Rd)	Waterford Point Dr													1			Type1Modified
19686	6	SR-1664 (Duraleigh Rd)	Waterford Point Dr													1			Type1Modified
19687	6	SR-1664 (Duraleigh Rd)	Waterford Point Dr							6						1			Type 1C
19706	6	SR-1664 (Duraleigh Rd)	Duraleigh Corners (5910 Duraleigh Rd) North Entrance													1			Type1B
19707	6	SR-1664 (Duraleigh Rd)	Duraleigh Corners (5910 Duraleigh Rd) North Entrance													1			Type 1C
19704	7	SR-1664 (Duraleigh Rd)	Duraleigh Corners (5910 Duraleigh Rd) Main Entrance													1			Type 1C
Sub-Total				0	0	0	15	0	0	12	0	2	4	0	3	26	0	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - BLUE RIDGE RD/DURALEIGH RD FROM US 70 TO REEDY CREEK RD

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake
	Outside Municipality

Sheet No.
27

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
19705	7	SR-1664 (Duraleigh Rd)	Duraleigh Corners (5910 Durhaleigh Rd) Main Entrance													1			Type 1C
19688	8	SR-1664 (Duraleigh Rd)	Tournament Dr							3						1			Type 1C
19689	8	SR-1664 (Duraleigh Rd)	Tournament Dr													1			Type1Modified
19702	8	SR-1664 (Duraleigh Rd)	Duraleigh Corners (5800 Durhaleigh Rd) South Entrance													1			Type1Modified
19703	8	SR-1664 (Duraleigh Rd)	Duraleigh Corners (5800 Durhaleigh Rd) South Entrance													1			Type1Modified
19692	9	SR-1664 (Duraleigh Rd)	Delta Lake Dr							6									Other
19698	9	SR-1664 (Duraleigh Rd)	Delta Lake Dr													1			Type3Modified
19699	9	SR-1664 (Duraleigh Rd)	Delta Lake Dr							2						1			Type3Modified
19701	9	SR-1664 (Duraleigh Rd)	Delta Lake Dr							3						1			Type3Modified
19694	10	SR-1664 (Duraleigh Rd)	Circle K Gas Station (4501 Delta Lake Rd) Duraleigh Rd Entrance							3						1			Type1Modified
19695	10	SR-1664 (Duraleigh Rd)	Circle K Gas Station (4501 Delta Lake Rd) Duraleigh Rd Entrance												1				RetrofitWarnings
19696	10	SR-1664 (Duraleigh Rd)	Circle K Gas Station (4501 Delta Lake Rd) Duraleigh Rd Entrance												1				RetrofitWarnings
19697	10	SR-1664 (Duraleigh Rd)	Circle K Gas Station (4501 Delta Lake Rd) Duraleigh Rd Entrance													1			Type1Modified
837	11	SR-1664 (Duraleigh Rd)	Hamstead Crsg North Entrance			15			6									1	Remove Ramp
838	11	SR-1664 (Duraleigh Rd)	Hamstead Crsg North Entrance													1			Type1Modified
839	11	SR-1664 (Duraleigh Rd)	Hamstead Crsg North Entrance													1			Type1Modified
840	11	SR-1664 (Duraleigh Rd)	Hamstead Crsg North Entrance			15			6									1	Remove Ramp
841	11	SR-1664 (Duraleigh Rd)	Duraleigh Office Park (5603 Durhaleigh Rd)												1				RetrofitWarnings
842	11	SR-1664 (Duraleigh Rd)	Duraleigh Office Park (5603 Durhaleigh Rd)												1				RetrofitWarnings
833	12	SR-1664 (Duraleigh Rd)	Hamstead Crsg South Entrance			15			6									1	Remove Ramp
834	12	SR-1664 (Duraleigh Rd)	Hamstead Crsg South Entrance													1			Type1Modified
835	12	SR-1664 (Duraleigh Rd)	Hamstead Crsg South Entrance													1			Type1A
836	12	SR-1664 (Duraleigh Rd)	Hamstead Crsg South Entrance			15			6									1	Remove Ramp
830	13	SR-1664 (Duraleigh Rd)	Mcneely Dr			10												1	Remove Ramp
831	13	SR-1664 (Duraleigh Rd)	Mcneely Dr													1			Type1Modified
832	13	SR-1664 (Duraleigh Rd)	Mcneely Dr													1			Type1Modified
824	14	SR-1664 (Duraleigh Rd)	Deep Hollow Dr			15			9									1	Remove Ramp
825	14	SR-1664 (Duraleigh Rd)	Deep Hollow Dr													1			Type3Modified
826	14	SR-1664 (Duraleigh Rd)	Deep Hollow Dr													1			Type3Modified
Sub-Total				0	0	85	0	0	33	17	0	0	0	0	4	18	0	6	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - BLUE RIDGE RD/DURALEIGH RD FROM US 70 TO REEDY CREEK RD

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake
Outside Municipality:	

Sheet No.	28
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type	
827	14	SR-1664 (Duraleigh Rd)	Deep Hollow Dr			15			6									1	Remove Ramp	
828	15	SR-1664 (Duraleigh Rd)	Sharpe Dr													1				Type 1C
829	15	SR-1664 (Duraleigh Rd)	Sharpe Dr													1				Type 1C
817	16	SR-1664 (Duraleigh Rd)	Raleigh Korean Presbyterian Church (5408 Duraleigh Rd)													1				Type1Modified
818	16	SR-1664 (Duraleigh Rd)	Raleigh Korean Presbyterian Church (5408 Duraleigh Rd)													1				Type1Modified
815	17	SR-1664 (Duraleigh Rd)	Camden Woods Ct													1				Type 1C
816	17	SR-1664 (Duraleigh Rd)	Camden Woods Ct													1				Type 1C
814	18	SR-1664 (Duraleigh Rd)	Hanson Aggregates (5001 Duraleigh Rd)							3						1				Type 1C
819	18	SR-1664 (Duraleigh Rd)	Hanson Aggregates (5001 Duraleigh Rd)													1				Type 1C
820	19	SR-1664 (Duraleigh Rd)	Weaver Dr			15			7									1		Remove Ramp
821	19	SR-1664 (Duraleigh Rd)	Weaver Dr								15					1				Type 1C
822	19	SR-1664 (Duraleigh Rd)	Weaver Dr								3					1				Type 1C
823	19	SR-1664 (Duraleigh Rd)	Weaver Dr			16			9									1		Remove Ramp
24793	19	SR-1664 (Duraleigh Rd)	Weaver Dr			18			9									1		Remove Ramp
24794	19	SR-1664 (Duraleigh Rd)	Weaver Dr			16			9									1		Remove Ramp
812	20	SR-1664 (Duraleigh Rd)	The Covington (4510 Duraleigh Rd)													1				Type1B
813	20	SR-1664 (Duraleigh Rd)	The Covington (4510 Duraleigh Rd)													1				Type1Modified
808	21	SR-1664 (Duraleigh Rd)	Rockwood Dr			15			9									1		Remove Ramp
809	21	SR-1664 (Duraleigh Rd)	Rockwood Dr													1				Type1A
810	21	SR-1664 (Duraleigh Rd)	Rockwood Dr													1				Type1A
811	21	SR-1664 (Duraleigh Rd)	Rockwood Dr			15			9									1		Remove Ramp
24792	21	SR-1664 (Duraleigh Rd)	Rockwood Dr			15			9									1		Remove Ramp
800	22	SR-1664 (Duraleigh Rd)	Timberhurst Dr			15			6									1		Remove Ramp
801	22	SR-1664 (Duraleigh Rd)	Timberhurst Dr													1				Type 1C
802	22	SR-1664 (Duraleigh Rd)	Timberhurst Dr													1				Type 1C
803	22	SR-1664 (Duraleigh Rd)	Timberhurst Dr			15			6									1		Remove Ramp
804	22	SR-1664 (Duraleigh Rd)	Sedgewood Dr													1				Type 1D
805	22	SR-1664 (Duraleigh Rd)	Sedgewood Dr			15			6									1		Remove Ramp
806	22	SR-1664 (Duraleigh Rd)	Sedgewood Dr			15			6									1		Remove Ramp
807	22	SR-1664 (Duraleigh Rd)	Sedgewood Dr													1				Type 1C
796	23	SR-1664 (Duraleigh Rd)	Olde Stream Ct			15			9									1		Remove Ramp
797	23	SR-1664 (Duraleigh Rd)	Olde Stream Ct													1				Type1A
798	23	SR-1664 (Duraleigh Rd)	Olde Stream Ct													1				Type1A
Sub-Total				0	0	200	0	0	100	3	18	0	0	0	0	20	0	13		

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - BLUE RIDGE RD/DURALEIGH RD FROM US 70 TO REEDY CREEK RD

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake
Outside Municipality:	

Sheet No.
29

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
799	23	SR-1664 (Duraleigh Rd)	Olde Stream Ct			18			9									1	Remove Ramp
788	24	SR-1664 (Duraleigh Rd)	Sedgewood Dr			15			10									1	Remove Ramp
789	24	SR-1664 (Duraleigh Rd)	Sedgewood Dr							9						1			Type3Modified
790	24	SR-1664 (Duraleigh Rd)	Sedgewood Dr													1			Type1A
791	24	SR-1664 (Duraleigh Rd)	Sedgewood Dr			15			10									1	Remove Ramp
24790	24	SR-1664 (Duraleigh Rd)	Sedgewood Dr			15			9									1	Remove Ramp
24791	24	SR-1664 (Duraleigh Rd)	Sedgewood Dr			15			9									1	Remove Ramp
792	25	SR-1664 (Duraleigh Rd)	Furman Hall													1			Type 1C
793	25	SR-1664 (Duraleigh Rd)	Furman Hall			20			10									1	Remove Ramp
794	25	SR-1664 (Duraleigh Rd)	Furman Hall													1			Type 1C
795	25	SR-1664 (Duraleigh Rd)	Furman Hall			20			10									1	Remove Ramp
24788	25	SR-1664 (Duraleigh Rd)	Furman Hall			15			9									1	Remove Ramp
24789	25	SR-1664 (Duraleigh Rd)	Furman Hall			15			9									1	Remove Ramp
783	26	SR-1664 (Duraleigh Rd)	Burwell Rollins Cir													1			Type3Modified
784	26	SR-1664 (Duraleigh Rd)	Burwell Rollins Cir													1			Type 1D
785	26	SR-1664 (Duraleigh Rd)	Burwell Rollins Cir			15			10									1	Remove Ramp
786	26	SR-1664 (Duraleigh Rd)	Burwell Rollins Cir													1			Type1A
787	26	SR-1664 (Duraleigh Rd)	Burwell Rollins Cir							3						1			Type 1C
9106	27	SR-1664 (Duraleigh Rd)	SR-1649 (Ebenezer Church Rd)			15			9									1	Remove Ramp
9107	27	SR-1664 (Duraleigh Rd)	SR-1649 (Ebenezer Church Rd)													1			Type3Modified
9116	27	SR-1664 (Duraleigh Rd)	SR-1649 (Ebenezer Church Rd)													1			Standard - 848.06
9117	27	SR-1664 (Duraleigh Rd)	SR-1649 (Ebenezer Church Rd)													1			Standard - 848.06
9118	27	SR-1664 (Duraleigh Rd)	SR-1649 (Ebenezer Church Rd)													1			Type3
9119	27	SR-1664 (Duraleigh Rd)	SR-1649 (Ebenezer Church Rd)			15			9									1	Remove Ramp
24787	27	SR-1664 (Duraleigh Rd)	SR-1649 (Ebenezer Church Rd)			15			9									1	Remove Ramp
772	28	SR-1664 (Duraleigh Rd)	Mill Run (North Entrance)													1			Type1Modified
773	28	SR-1664 (Duraleigh Rd)	Mill Run (North Entrance)													1			Type1Modified
9120	28	SR-1664 (Duraleigh Rd)	Mill Run			16			9									1	Remove Ramp
9121	28	SR-1664 (Duraleigh Rd)	Mill Run			16			9									1	Remove Ramp
774	29	SR-1664 (Duraleigh Rd)	Mill Run													1			Type1Modified
775	29	SR-1664 (Duraleigh Rd)	Mill Run													1			Type1Modified
24785	29	SR-1664 (Duraleigh Rd)	Mill Run			15			9									1	Remove Ramp
24786	29	SR-1664 (Duraleigh Rd)	Mill Run			15			9									1	Remove Ramp
Sub-Total				0	0	270	0	0	158	12	0	0	0	0	0	16	0	17	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - BLUE RIDGE RD/DURALEIGH RD FROM US 70 TO REEDY CREEK RD

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake
Outside Municipality:	

Sheet No.	30
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
25347	29	SR-1664 (Duraleigh Rd)	Mill Run		10	18								12					Other
776	30	SR-1664 (Duraleigh Rd)	Princeton Creek Ln													1			Type1A
777	30	SR-1664 (Duraleigh Rd)	Princeton Creek Ln			15			10									1	Remove Ramp
779	30	SR-1664 (Duraleigh Rd)	Princeton Creek Ln							3						1			Type1A
780	30	SR-1664 (Duraleigh Rd)	Princeton Creek Ln			15			10									1	Remove Ramp
573	31	SR-1664 (Duraleigh Rd)	Brighton Gardens of Raleigh (3101 Duraleigh Rd)			20			12									1	Remove Ramp
574	31	SR-1664 (Duraleigh Rd)	Brighton Gardens of Raleigh (3101 Duraleigh Rd)													1			Type2B
575	31	SR-1664 (Duraleigh Rd)	Brighton Gardens of Raleigh (3101 Duraleigh Rd)													1			Type 1C
576	31	SR-1664 (Duraleigh Rd)	Brighton Gardens of Raleigh (3101 Duraleigh Rd)			15			8									1	Remove Ramp
577	31	SR-1664 (Duraleigh Rd)	Medical Center (3100 Duraleigh Rd)Entrance							3						1			Type1Modified
578	31	SR-1664 (Duraleigh Rd)	Medical Center (3100 Duraleigh Rd)Entrance			15												1	Remove Ramp
579	31	SR-1664 (Duraleigh Rd)	Medical Center (3100 Duraleigh Rd)Entrance			15												1	Remove Ramp
580	31	SR-1664 (Duraleigh Rd)	Medical Center (3100 Duraleigh Rd)Entrance							3						1			Type1Modified
581	32	SR-1664 (Duraleigh Rd)	Truist Bank (3000 Duraleigh Rd)													1			Type 1C
582	32	SR-1664 (Duraleigh Rd)	Truist Bank (3000 Duraleigh Rd)							3						1			Type1B
24782	32	SR-1664 (Duraleigh Rd)	Sidewalk Entrance (3050 Duraleigh Rd)			12			8			1						1	Remove Ramp
599	33	SR-1664 (Blue Ridge Rd)	Blue Ridge Center (2709 Blue Ridge Rd)													1			Type 1C
600	33	SR-1664 (Blue Ridge Rd)	Blue Ridge Center (2709 Blue Ridge Rd)			20												1	Remove Ramp
601	33	SR-1664 (Blue Ridge Rd)	Forestview Rd						30							1			Type 1C
602	33	SR-1664 (Blue Ridge Rd)	Forestview Rd			15												1	Remove Ramp
603	33	SR-1664 (Blue Ridge Rd)	Forestview Rd			15												1	Remove Ramp
604	33	SR-1664 (Blue Ridge Rd)	Forestview Rd													1			Type 1C
25517	33	SR-1664 (Blue Ridge Rd)	Blue Ridge Center (2709 Blue Ridge Rd)						12								1		Type1A
24776	34	SR-1664 (Blue Ridge Rd)	Blue Ridge Center I (2605 Blue Ridge Rd)													1			Type 1C
24777	34	SR-1664 (Blue Ridge Rd)	Blue Ridge Center I (2605 Blue Ridge Rd)							3						1			Type 1C
420	35	SR-1664 (Blue Ridge Rd)	Fairmeadow Ln				5			6						1			Type 1D
421	35	SR-1664 (Blue Ridge Rd)	Office Center (2418 Blue Ridge Rd)													1			Type 1C
422	35	SR-1664 (Blue Ridge Rd)	Fairmeadow Ln													1			Type 1D
423	35	SR-1664 (Blue Ridge Rd)	Office Center (2418 Blue Ridge Rd)													1			Type 1C
424	35	SR-1664 (Blue Ridge Rd)	Office Center (2500 Blue Ridge Rd)							3						1			Type 1C
425	35	SR-1664 (Blue Ridge Rd)	Office Center (2500 Blue Ridge Rd)													1			Type 1C
24775	35	SR-1664 (Blue Ridge Rd)	Fairmeadow Ln			15			6									1	Remove Ramp
Sub-Total				0	10	190	5	0	96	24	0	1	0	12	0	19	1	11	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - BLUE RIDGE RD/DURALEIGH RD FROM US 70 TO REEDY CREEK RD

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake
Outside Municipality:	

Sheet No.
31

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
417	36	SR-1664 (Blue Ridge Rd)	Wake Med Urgent Care (2406 Blue Ridge Rd) One Way Entrance													1			Type1Modified
418	36	SR-1664 (Blue Ridge Rd)	North State Bank (2413 Blue Ridge Rd)													1			Type1Modified
419	36	SR-1664 (Blue Ridge Rd)	Wake Med Urgent Care (2406 Blue Ridge Rd) One Way Entrance				10			3						1			Type1Modified
409	37	SR-1664 (Blue Ridge Rd)	Harden Rd												1				RetrofitWarnings
410	37	SR-1664 (Blue Ridge Rd)	State Employees Credit Union (2401 Blue Ridge Rd) South Entrance				5			9						1			Type1Modified
411	37	SR-1664 (Blue Ridge Rd)	Harden Rd													1			Type 1D
412	37	SR-1664 (Blue Ridge Rd)	Harden Rd			15			9									1	Remove Ramp
413	37	SR-1664 (Blue Ridge Rd)	State Employees Credit Union (2401 Blue Ridge Rd) South Entrance										2			1			Type1Modified
414	37	SR-1664 (Blue Ridge Rd)	State Employees Credit Union (2401 Blue Ridge Rd) North Entrance													1			Type1Modified
415	37	SR-1664 (Blue Ridge Rd)	State Employees Credit Union (2401 Blue Ridge Rd) North Entrance													1			Type1Modified
406	38	SR-1664 (Blue Ridge Rd)	Sunset Ridge Rd				10									1			Type 1D
407	38	SR-1664 (Blue Ridge Rd)	Sunset Ridge Rd			15			9									1	Remove Ramp
408	38	SR-1664 (Blue Ridge Rd)	Sunset Ridge Rd			15												1	Remove Ramp
25344	38	SR-1664 (Blue Ridge Rd)	Office Center (2321 Blue Ridge Rd)													1			Type1Modified
25366	38	SR-1664 (Blue Ridge Rd)	Office Center (2321 Blue Ridge Rd)													1			Type1Modified
25516	38	SR-1664 (Blue Ridge Rd)	Sunset Ridge Rd				5	15		6							1		Type 1C
402	39	SR-1664 (Blue Ridge Rd)	AAA Travel and Insurance (2301 Blue Ridge Rd)													1			Type1Modified
405	39	SR-1664 (Blue Ridge Rd)	AAA Travel and Insurance (2301 Blue Ridge Rd)													1			Type 1C
400	40	SR-1664 (Blue Ridge Rd)	NC Department of Agriculture (2109 Blue Ridge Rd)							3						1			Type 1C
401	40	SR-1664 (Blue Ridge Rd)	NC Department of Agriculture (2109 Blue Ridge Rd)							3						1			Type1Modified
403	40	SR-1664 (Blue Ridge Rd)	North Carolina Museum of Art (2110 Blue Ridge Rd) North Entrance							6						1			Type1Modified
404	40	SR-1664 (Blue Ridge Rd)	North Carolina Museum of Art (2110 Blue Ridge Rd) North Entrance							6						1			Type 1C
398	41	SR-1664 (Blue Ridge Rd)	Rollins Animal Disease Lab (2101 Blue Ridge Rd)													1			Type1Modified
399	41	SR-1664 (Blue Ridge Rd)	Rollins Animal Disease Lab (2101 Blue Ridge Rd)													1			Type1Modified
Sub-Total				0	0	45	30	15	18	36	0	0	2	0	1	19	1	3	
Sub-Total for Blue Ridge Rd/Duraleigh Rd From US 70 To Reedy Creek Rd				0	10	790	50	15	405	104	18	3	6	12	8	118	2	50	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - WESTCHASE BLVD FROM SR 1664 TO END MAINT

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake

Sheet No.
32

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
17110	1	SR-3036 (Westchase Blvd)	WestChase Two (4000 Westchase Blvd) East Entrance													1			Type1Modified
17111	1	SR-3036 (Westchase Blvd)	WestChase Two (4000 Westchase Blvd) East Entrance													1			Type1Modified
17112	2	SR-3036 (Westchase Blvd)	WestChase Three (4011 Westchase Blvd) East Entrance													1			Type1B
17113	2	SR-3036 (Westchase Blvd)	WestChase Three (4011 Westchase Blvd) East Entrance													1			Type1C
17108	3	SR-3036 (Westchase Blvd)	WestChase Two (4000 Westchase Blvd) West Entrance													1			Type1Modified
17109	3	SR-3036 (Westchase Blvd)	WestChase Two (4000 Westchase Blvd) West Entrance							3						1			Type1Modified
17114	3	SR-3036 (Westchase Blvd)	WestChase Three (4011 Westchase Blvd) West Entrance													1			Type1Modified
17115	3	SR-3036 (Westchase Blvd)	WestChase Three (4011 Westchase Blvd) West Entrance													1			Type1Modified
17116	3	SR-3036 (Westchase Blvd)	WestChase Three (4011 Westchase Blvd) Service Entrance													1			Type1Modified
17117	3	SR-3036 (Westchase Blvd)	WestChase Three (4011 Westchase Blvd) Service Entrance							6			1			1			Type1Modified
17106	4	SR-3036 (Westchase Blvd)	WestChase One (4020 Westchase Blvd) East Entrance													1			Type1C
17107	4	SR-3036 (Westchase Blvd)	WestChase One (4020 Westchase Blvd) East Entrance													1			Type1Modified
17104	5	SR-3036 (Westchase Blvd)	WestChase One (4020 Westchase Blvd) West Entrance													1			Type1Modified
17105	5	SR-3036 (Westchase Blvd)	WestChase One (4020 Westchase Blvd) West Entrance													1			Type1Modified
Sub-Total for Westchase Blvd From SR 1664 To END MAINT				0	0	0	0	0	0	9	0	0	1	0	0	14	0	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - DISTRICT OFFICE DRIVEWAY FROM SR 1174 TO END MAINT

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake

Sheet No.
33

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
25368	1	District Office Driveway	DOT Traffic Survey Unit Office (4007 District Dr)														1		Type1Modified
Sub-Total for District Office Driveway From SR 1174 To End Maint				0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	

Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

ADA SUMMARY OF QUANTITIES - INTERSECTION OF SR-3009 AND LAUREL HILLS RD

Municipality:	Raleigh
Project Number:	2025 Blue Rdg
WBS Number:	2024CPT.05.01.20921.1
County:	Wake

Sheet No.
34

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2752000000-E (LF) Remove Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove Island	2759000000-N (EA) Retrofit Curb Ramp Detectable Warnings	2613000000-N (EA) Remove and Replace Curb Ramp	2605000000-N (EA) Concrete Curb Ramp	2759000000-N (EA) Remove Curb Ramp	Improvement Type
21360	1	SR-3009 (Edwards Mill Rd)	Laurel Hills Rd							3						1			Type3Modified
21361	1	SR-3009 (Edwards Mill Rd)	Laurel Hills Rd	5					5							1			Type7
21362	1	SR-3009 (Edwards Mill Rd)	Laurel Hills Rd	5					5							1			Type7
21363	1	SR-3009 (Edwards Mill Rd)	Laurel Hills Rd						3	3						1			Type3Modified
21364	1	SR-3009 (Edwards Mill Rd)	Laurel Hills Rd			16			9									1	Remove Ramp
25362	1	SR-3009 (Edwards Mill Rd)	Laurel Hills Rd					7			9						1		Type3Modified
21359	1	SR-3009 (Edwards Mill Rd)	Laurel Hills Rd			16			9									1	Remove Ramp
Sub-Total for Intersection of SR-3009 and Laurel Hills Rd				10	0	32	0	7	31	6	9	0	0	0	0	4	1	2	

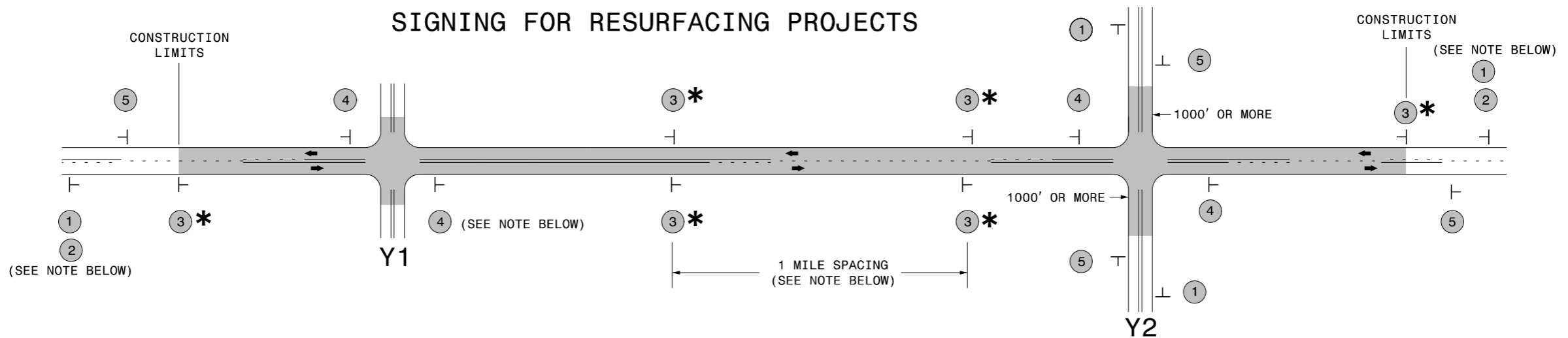
Note: ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page.

PROJECT NO. 2024CPT.05.01.20921.1	SHEET NO. 35	TOTAL NO.
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SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0156000000-E	1297000000-E	1330000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E	2549000000-E	2591000000-E	2605000000-N	2613000000-N	2738000000-E	2739000000-E	2752000000-E		2759000000-N		2830000000-N	2845000000-N	4520000000-N	5255000000-N	7444000000-E	4600000000-N							
											REMOVAL OF EXISTING ASPHALT PAVEMENT	1 1/2" MILLING	2" MILLING	INCIDENTAL MILLING	SURFACE COURSE, 59.58	SURFACE COURSE, 59.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	2'-6" CURB & GUTTER	4" CONCRETE SIDEWALK	CONCRETE CURB RAMP	REMOVE AND REPLACE CURB RAMP	GENERIC PAVING ITEM, REMOVE AND REPLACE SIDEWALK	GENERIC PAVING ITEM, REMOVE ISLAND	GENERIC PAVING ITEM REMOVE SIDEWALK	GENERIC PAVING ITEM, RMV AND REPLACE 2' 6" C&G	GENERIC PAVING ITEM, REMOVE CURB & GUTTER	GENERIC PAVING ITEM, REMOVE CURB RAMP	GENERIC PAVING ITEM, RETROFIT CURB RAMP DETECTABLE WARNINGS	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	TUBULAR MARKERS (FIXED)	PORTABLE LIGHTING	INDUCTIVE LOOP SAWCUT	GENERIC TRAFFIC CONTROL ITEM PEDESTRIAN TRANSPORT SERVICE	GENERIC TRAFFIC CONTROL ITEM AUDIBLE WARNING DEVICES				
											MI	FT	SY	SY	SY	TONS	TONS	TON	TONS	LF	SY	EA	EA	SY	SY	SY	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
			1 SR-1664 / BLUE RIDGE RD	FROM SR 1012 TO U-4437 LIMITS	1	4	NO	NO	0.360	60-82					13,890	395											2			1		4				0.30	426			
			2 664 / DURALEIGH RD/BLUE RIDGE	FROM REEDY CREEK RD TO US 70	2	6	NO	NO	3.933	50-86					142,548	5,340																			0.70	15,658				
			3 SR-3036 / WESTCHASE BLVD	FROM SR 1664 TO END MAINT	3	2	NO	NO	0.414	36-50					10,383	360		884																				282	40	22
			4 SR-4233 / DISTRICT OFFICE DRIVEWAY	FROM SR 1774 TO END MAINT	3	2	NO	NO	0.064	20-60					834	230		69		1																				
			5 SR-3009 / EDWARDS MILL RD	RAMP ONLY									10.0																											
TOTAL FOR PROJ NO. 2024CPT.05.01.20921.1											4.771	10.0	11,217	156,438	6,325	953	17,521	1,121	413	852	436	4	146	131	12	27	50	22	54	8	17	21	56	1.00	16,366	40	22			
GRAND TOTAL											4.771	10.0	11,217	156,438	6,325	953	17,521	1,121	413	852	436	4	146	131	12	27	50	22	54	8	17	21	56	1.00	16,366	40	22			

SIGNING FOR RESURFACING PROJECTS



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

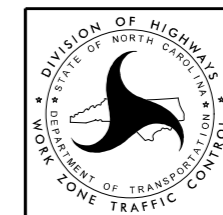
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p style="text-align: center;">NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p style="text-align: center;">WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3*	 <small>SP 13107 48" X 48"</small>	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 <small>SP 13106 48" X 48"</small>	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

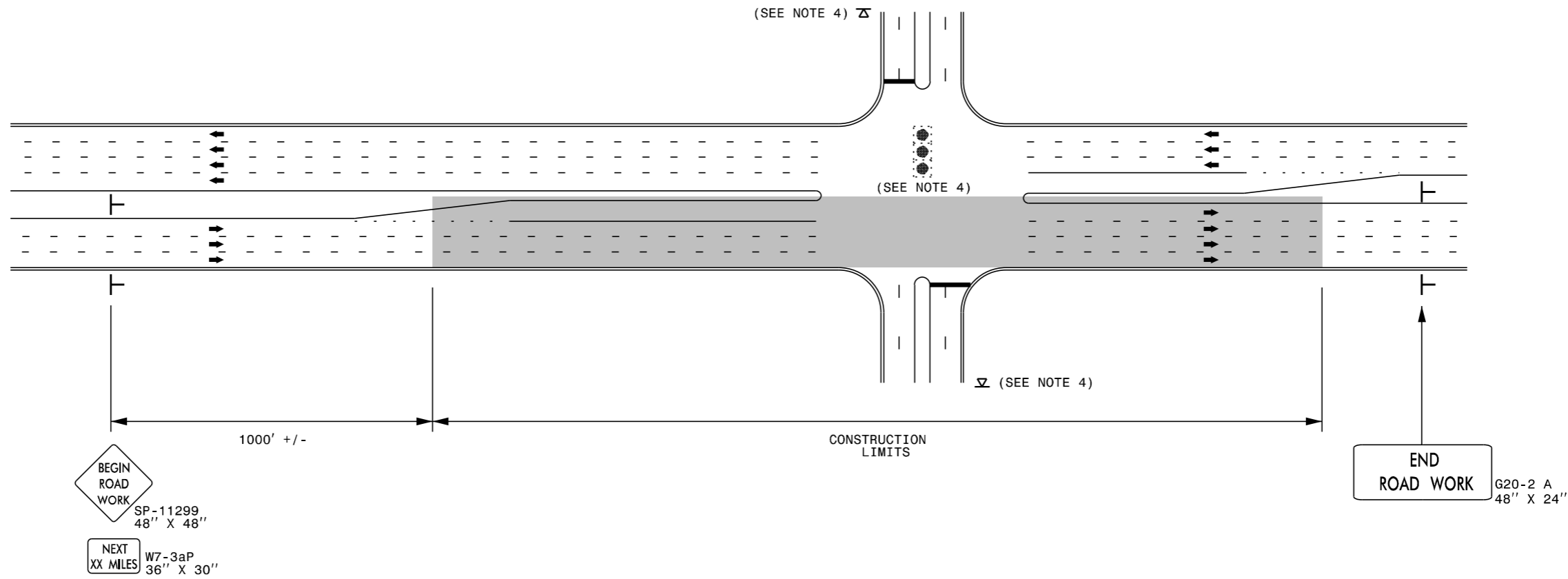
* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS: STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



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

URBAN / SUBURBAN WORKZONES



NOTES:

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

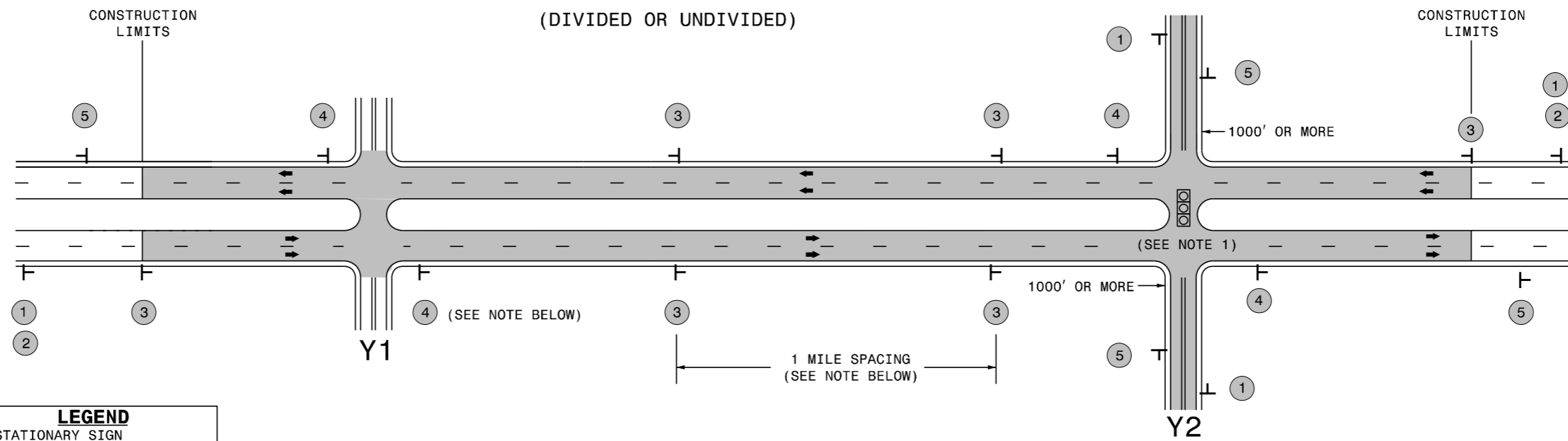
LEGEND

- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW



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

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



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

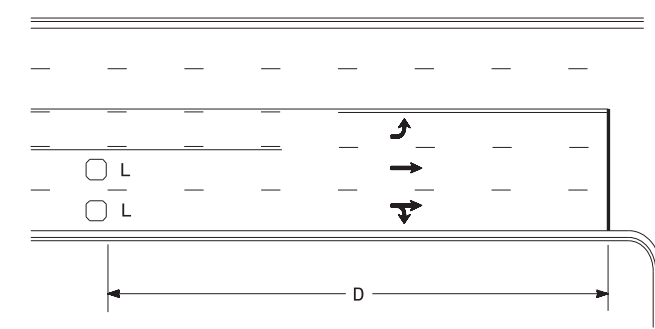
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
1 2	<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; align-items: center;"> <div style="text-align: center;"> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> </div> <div style="text-align: center;"> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p> </div> </div> <p>NOTES:</p> <ol style="list-style-type: none"> 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
3	<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>	
4	<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>	
5	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	



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

High Speed Detection (≥40 mph)

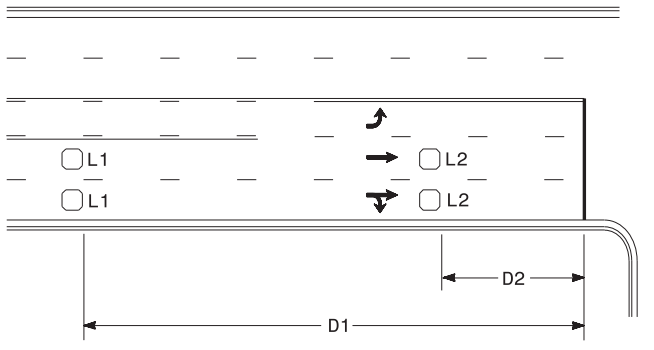


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR



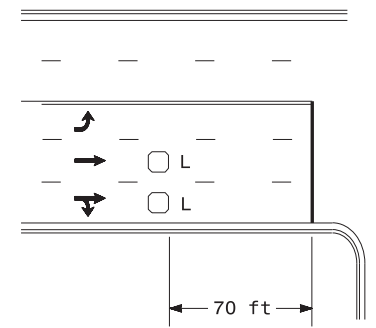
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

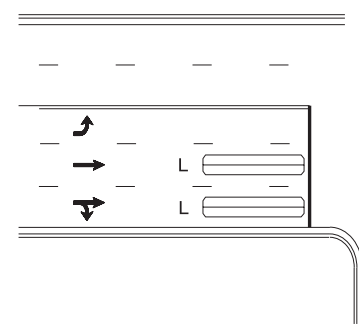
"Stretch" Operation

Low Speed Detection (≤35 mph)



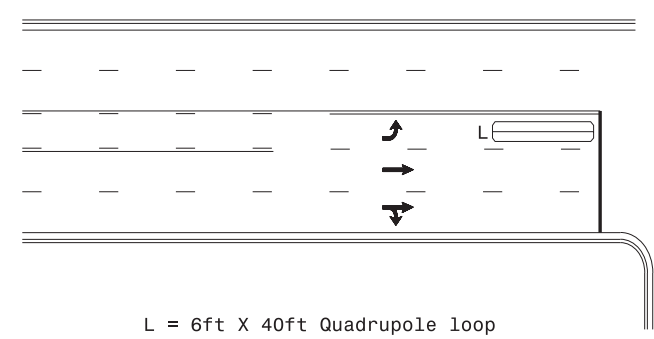
L = 6ft X 6ft
Wired in series

OR



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

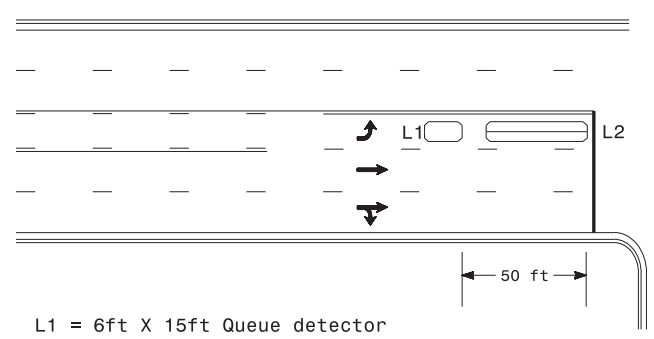
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

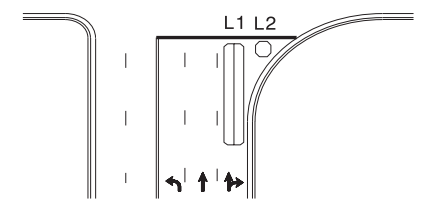
OR



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

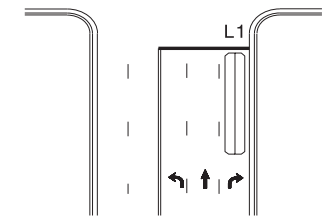
Queue Loop Detection

Right Turn Lane Detection

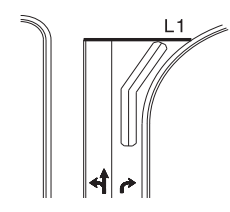


Shared Lane/
Wide Radius Turn

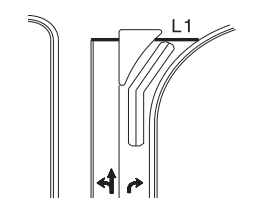
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

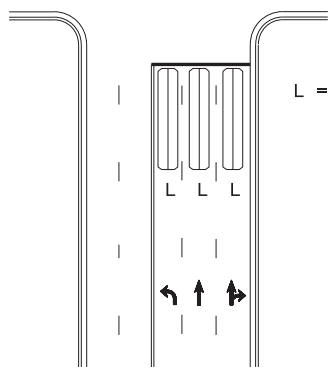


Wide Radius Turn



Channelized Turn

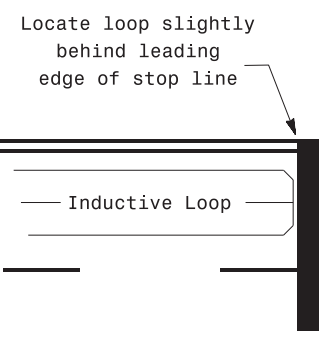
Side Street Detection



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

Presence Loop Detection

Presence Loop Placement at Stop Lines



Locate loop slightly
behind leading
edge of stop line

- 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

750 N. Greenfield Pkwy, Garner, NC 27529

Prepared in the Offices of:

Typical Signal Loop Locations	
PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:
SCALE: N/A	REVISIONS: INIT. DATE
DATE: 9/8/2020	

SIG. INVENTORY NO.

09-SEP-2020 11:54 S:\17525\17525\SIGNAL\Design\Section\Eastern_Regional\Loop_Type\cal\loop\typical\cal\2015.dgn JGallaway