

1. NC-50
(Cont. on Plan Sheet 2)

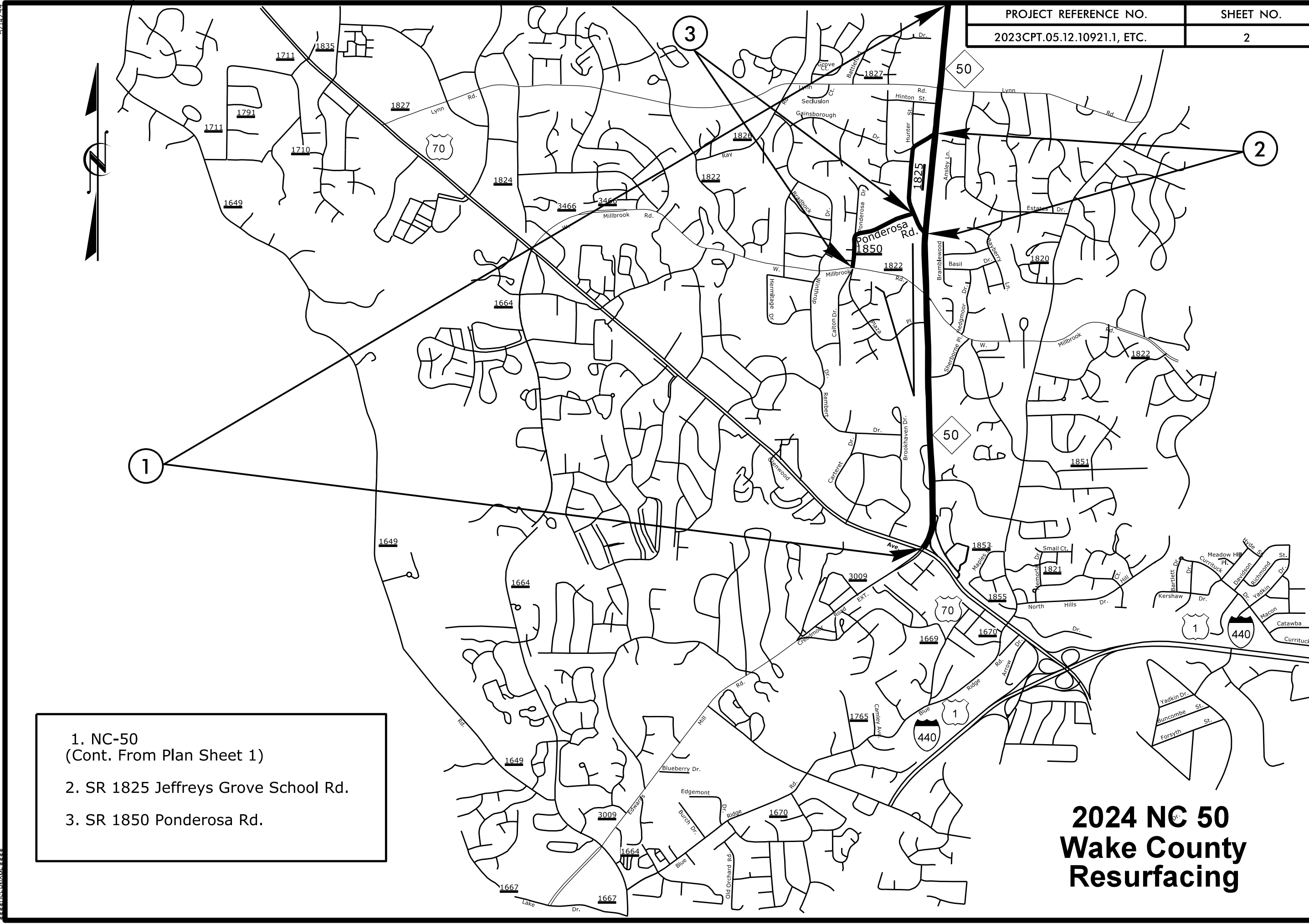
2024 NC 50 Wake County Resurfacing

5/14/23
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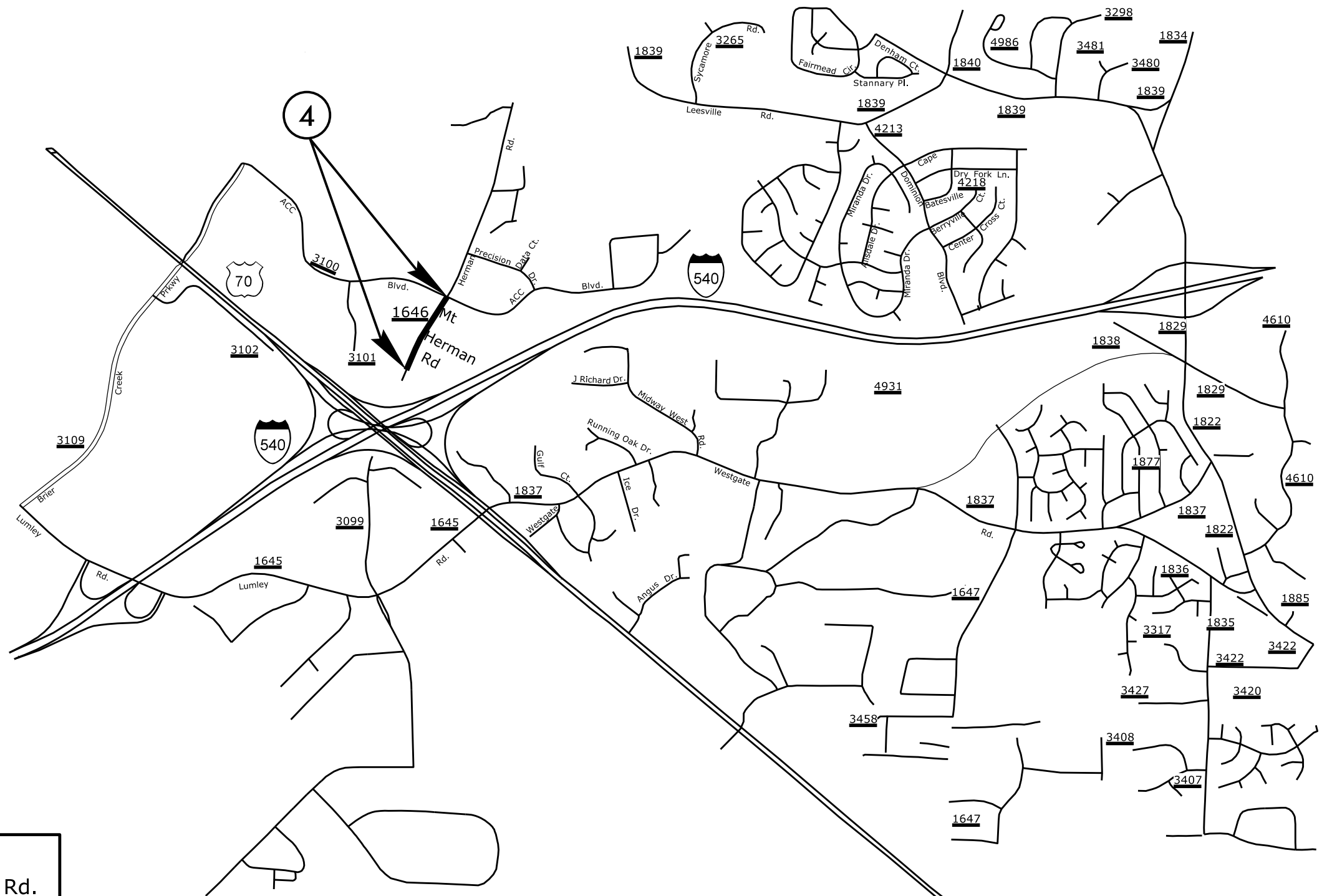


- 1. NC-50
(Cont. From Plan Sheet 1)
- 2. SR 1825 Jeffreys Grove School Rd.
- 3. SR 1850 Ponderosa Rd.

2024 NC 50 Wake County Resurfacing



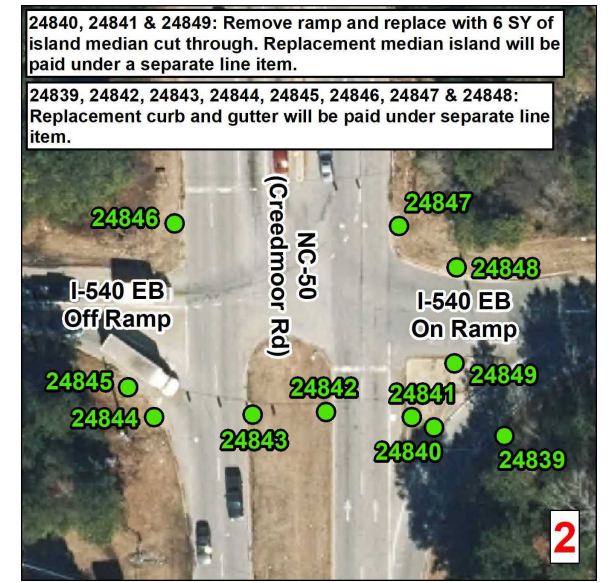
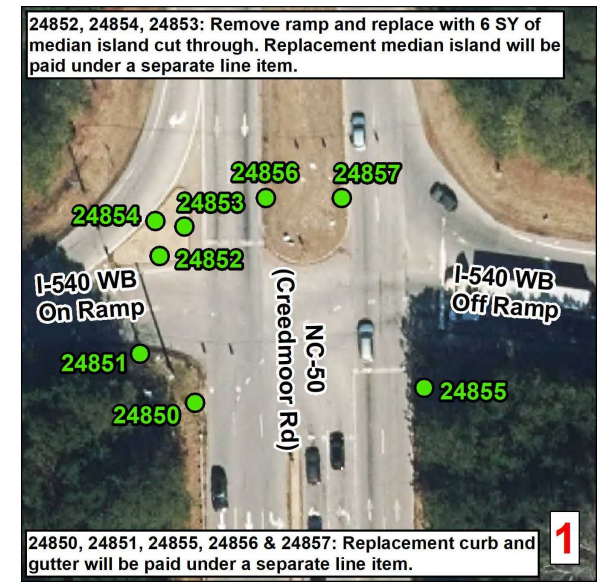
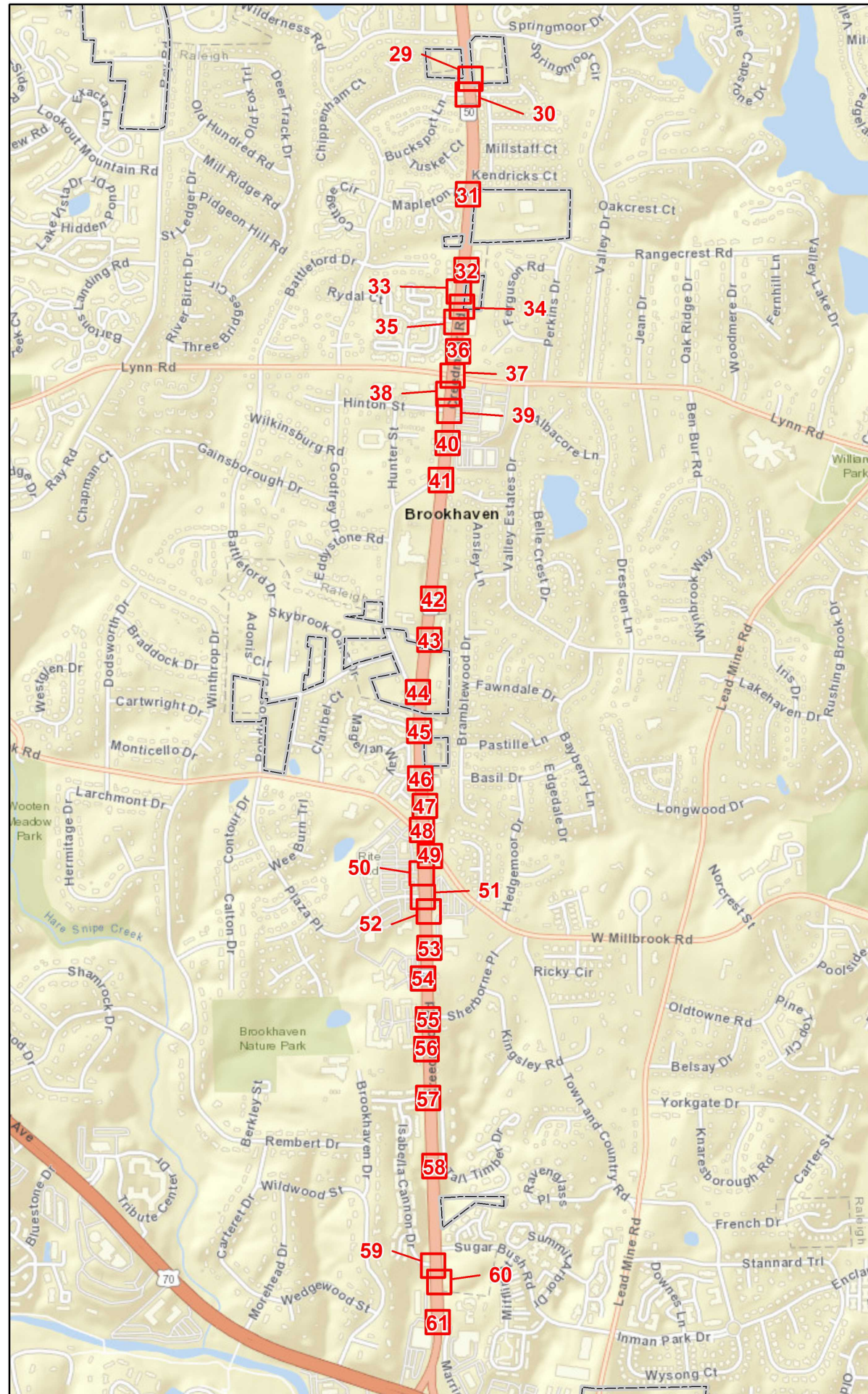
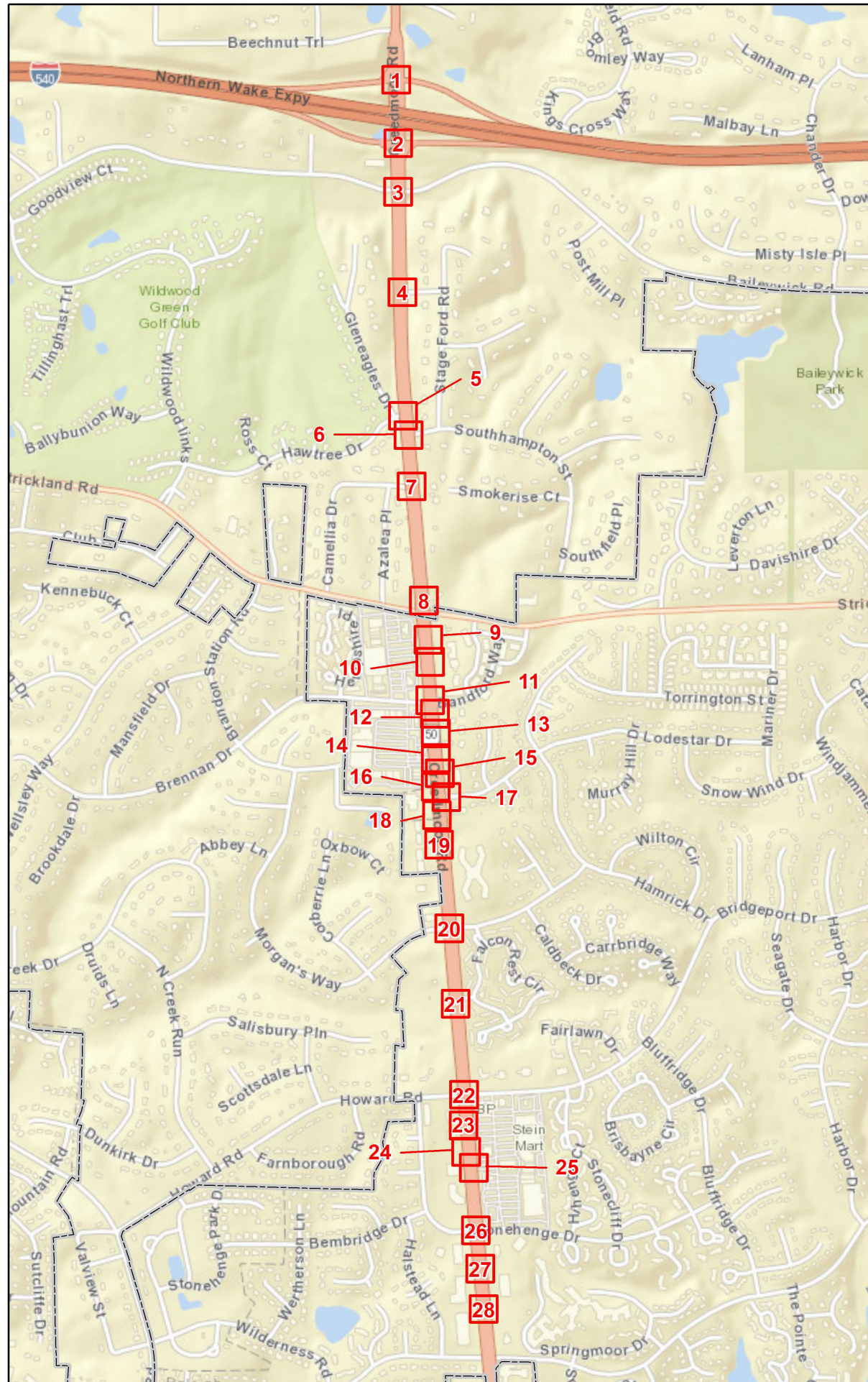
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D:\Projects\2023CPT.05.12.10921.1\Drawings\2024 NC 50 Wake County Resurfacing.dwg
2024 NC 50 Wake County Resurfacing.dwg
2024 NC 50 Wake County Resurfacing.dwg



4. SR 1646 Mt. Herman Rd.

**2024 NC 50
Wake County
Resurfacing**

5/14/23
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Curb Ramps To Be Repaired

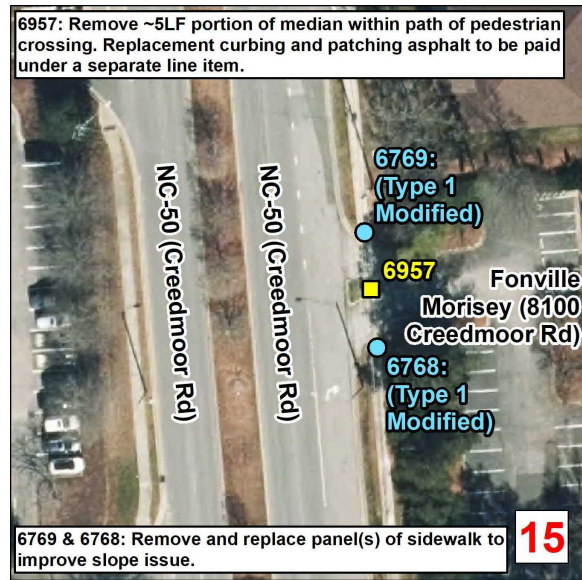
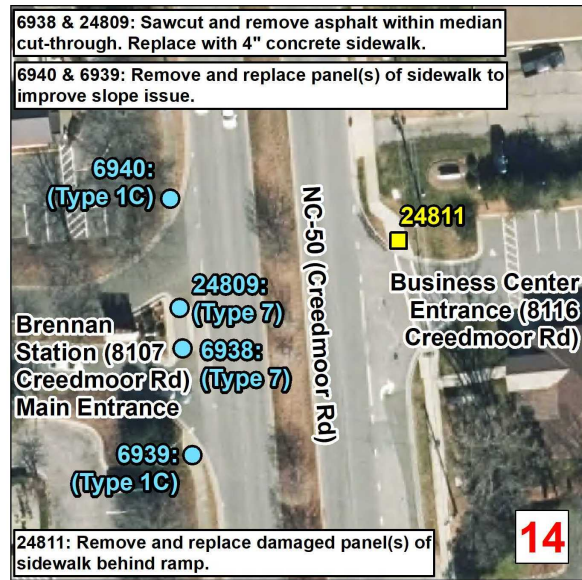
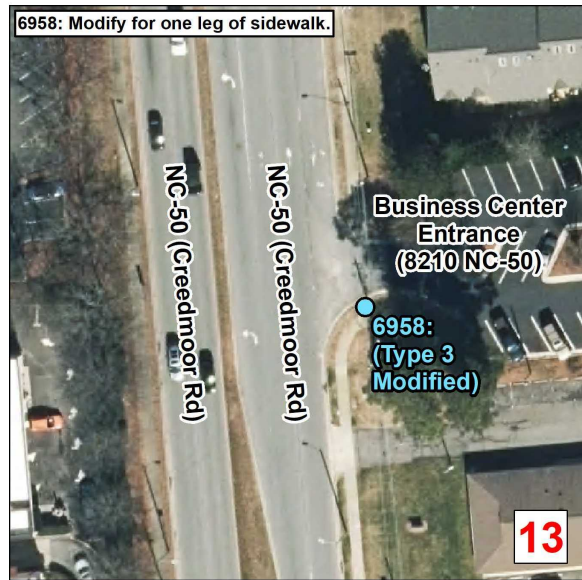
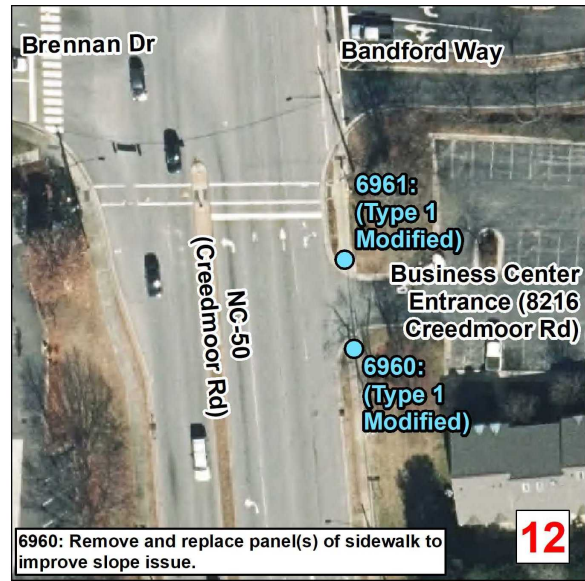
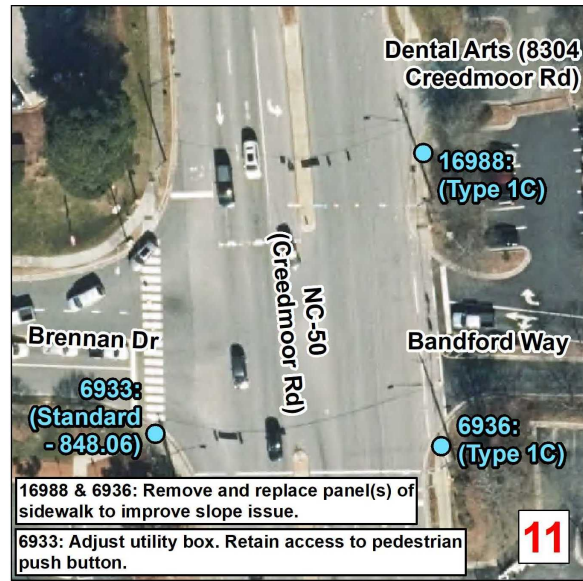
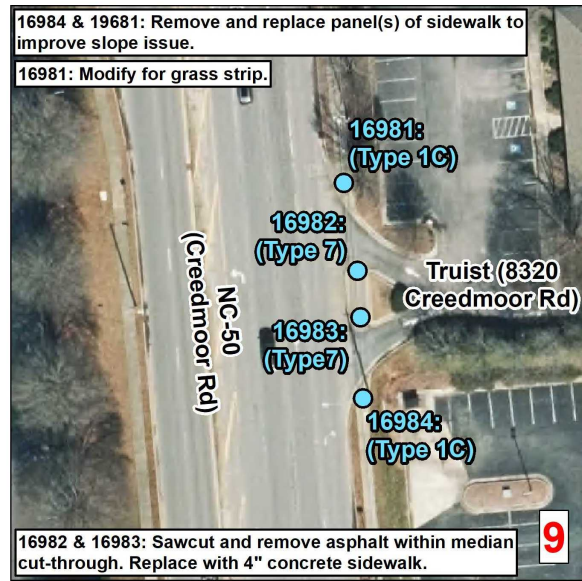
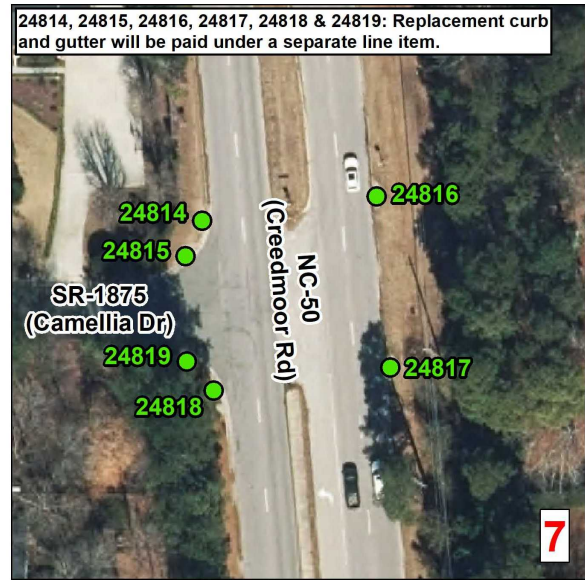
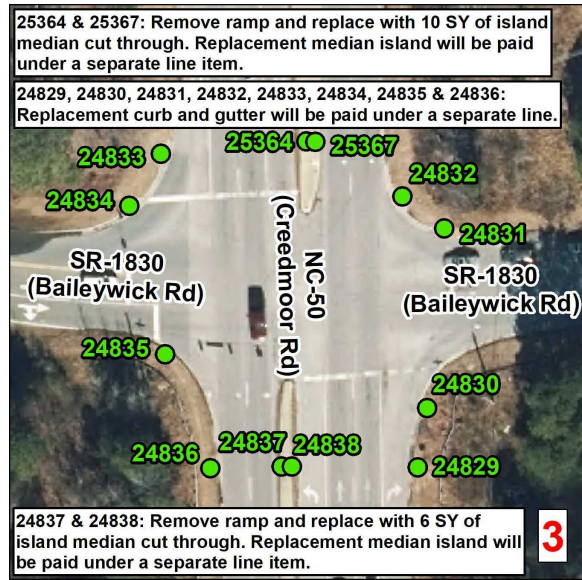
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

2024 NC 50
WBS: 2023CPT.05.12.10921.1
NC 50
From/To US 70 To/From SR 1898

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5

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




Curb Ramps To Be Repaired

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

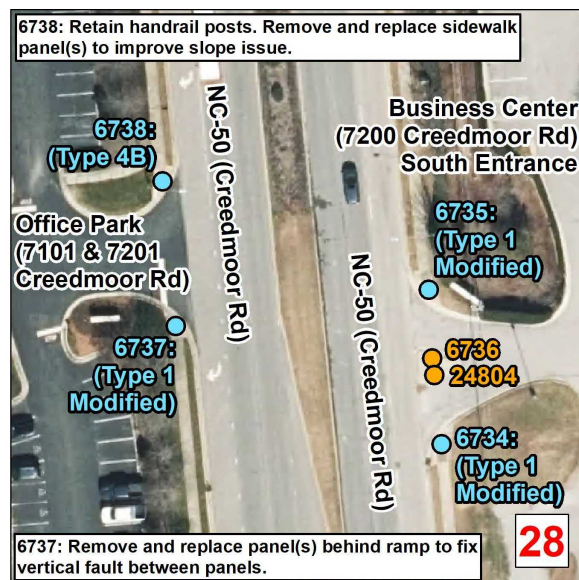
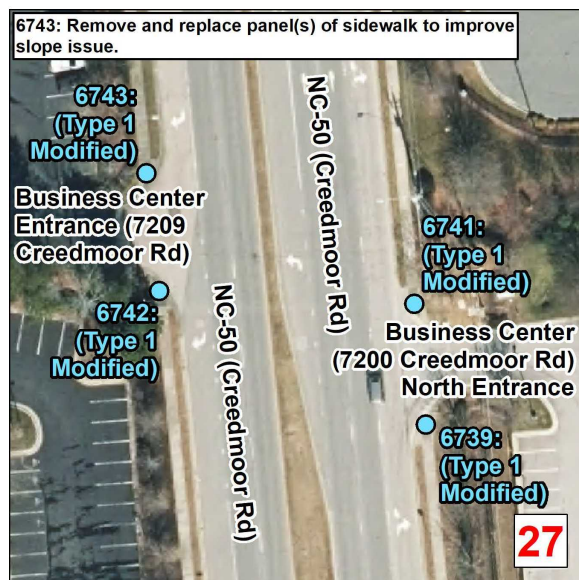
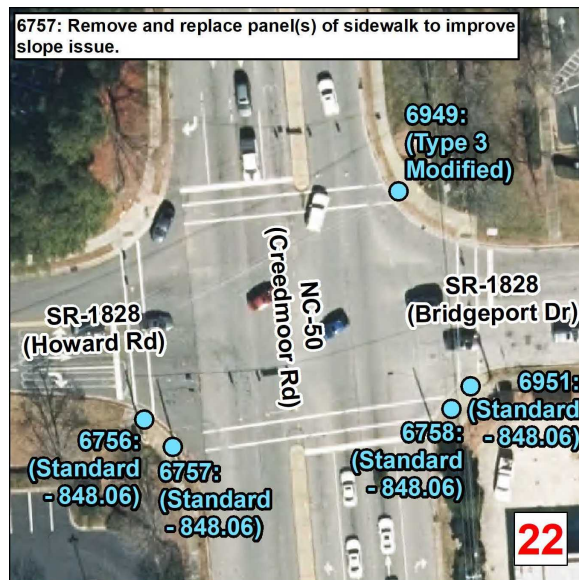
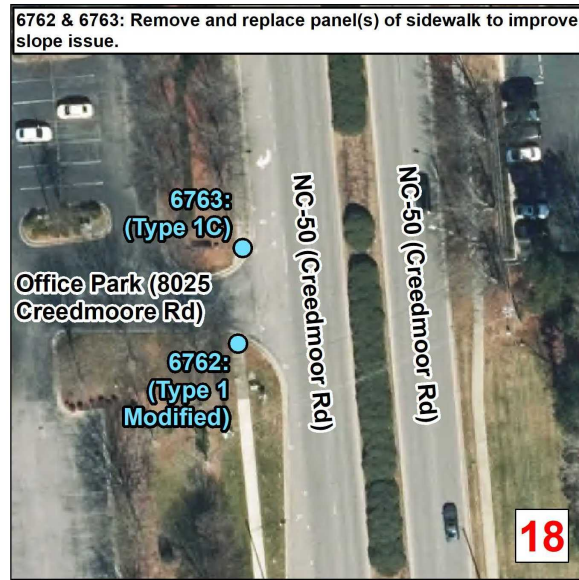
▭ Municipal Boundary
▭ NCHPO Historic Boundary (NR and LHD)

2024 NC 50
WBS: 2023CPT.05.12.10921.1

NC 50
From/To US 70 To/From SR 1898

 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

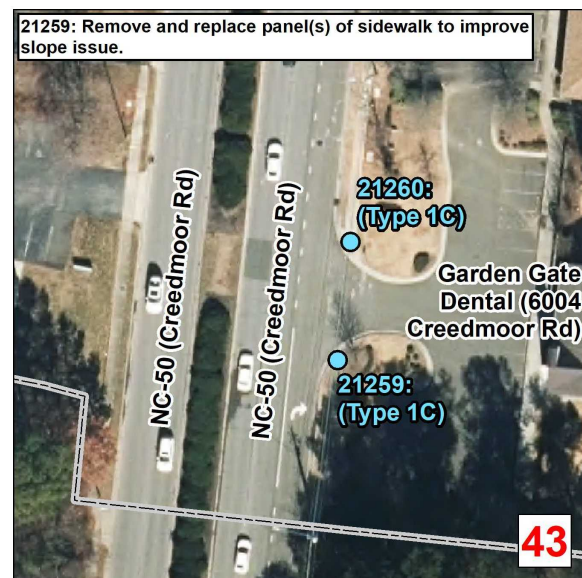
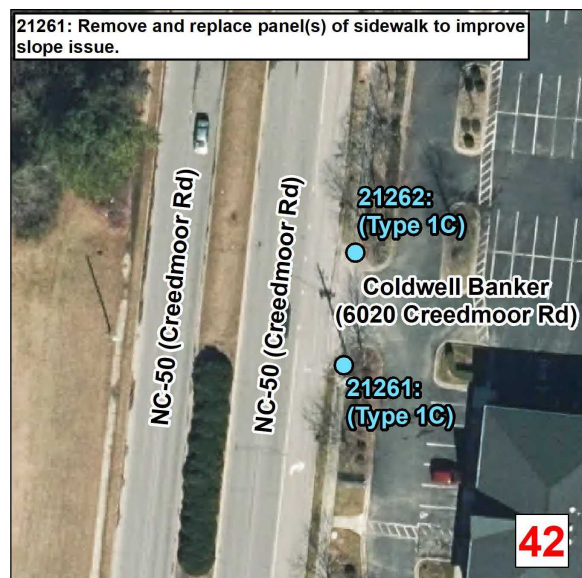
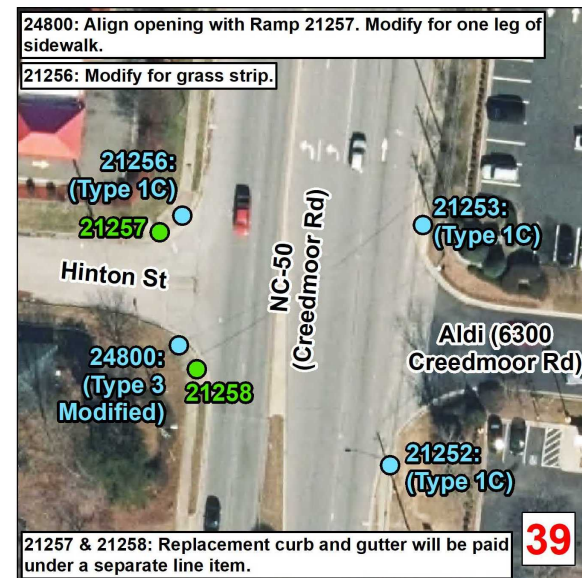
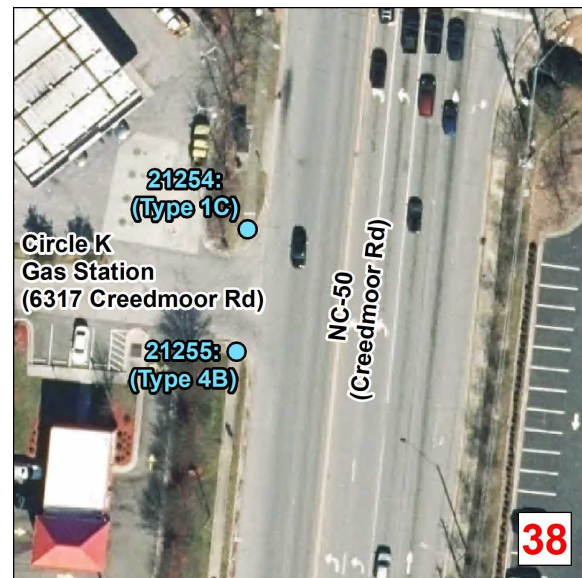
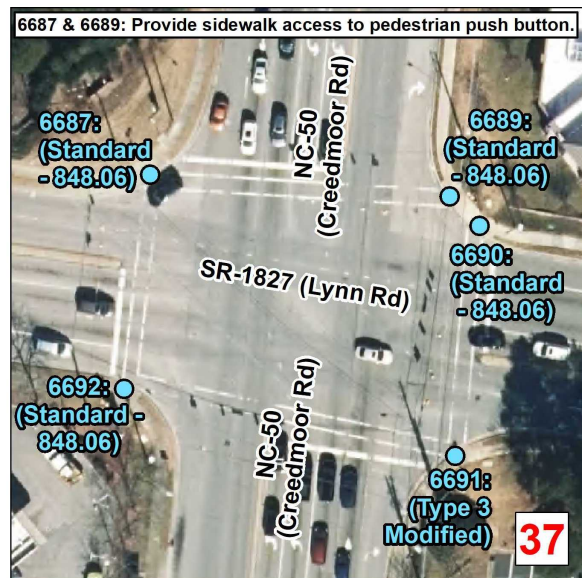
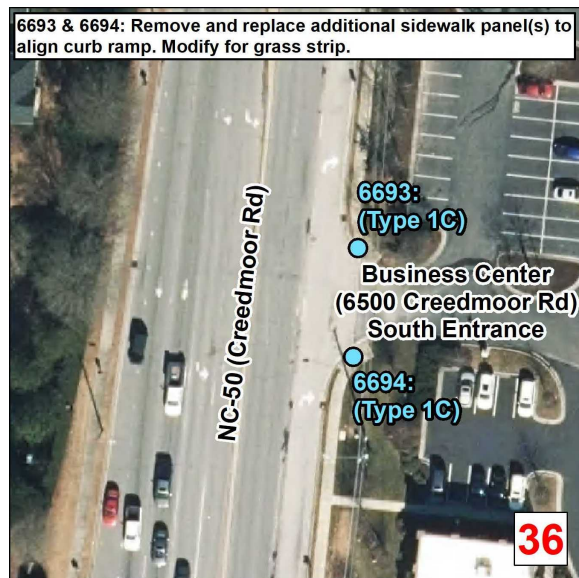
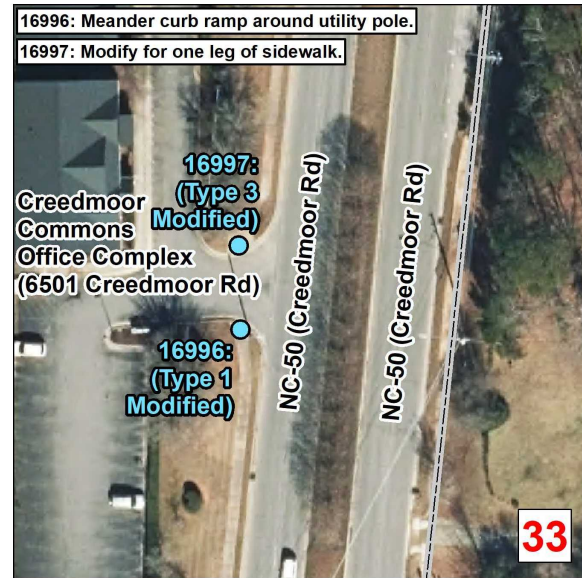
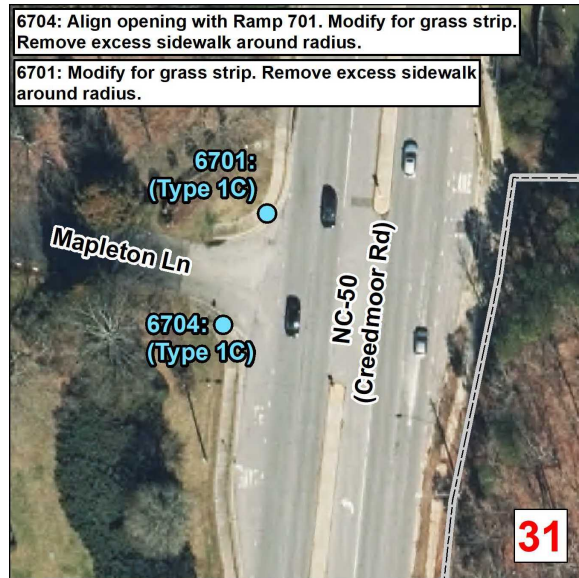
Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

2024 NC 50
WBS: 2023CPT.05.12.10921.1
NC 50
From/To US 70 To/From SR 1898

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5

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



Curb Ramps To Be Repaired

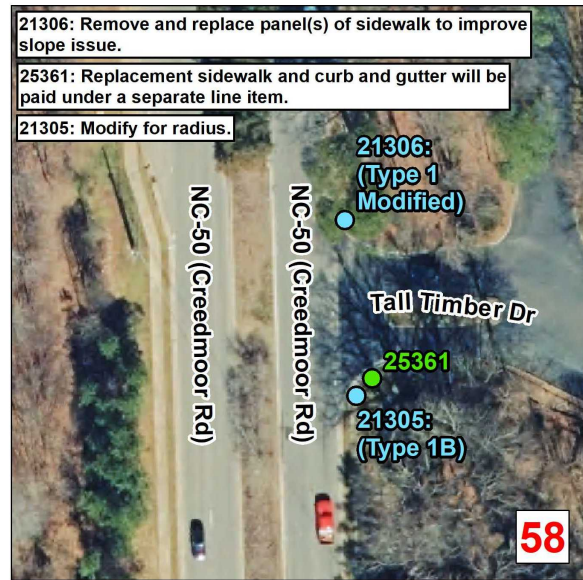
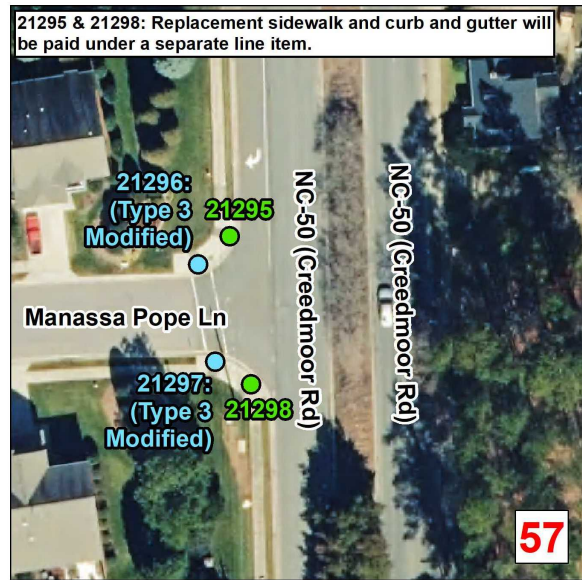
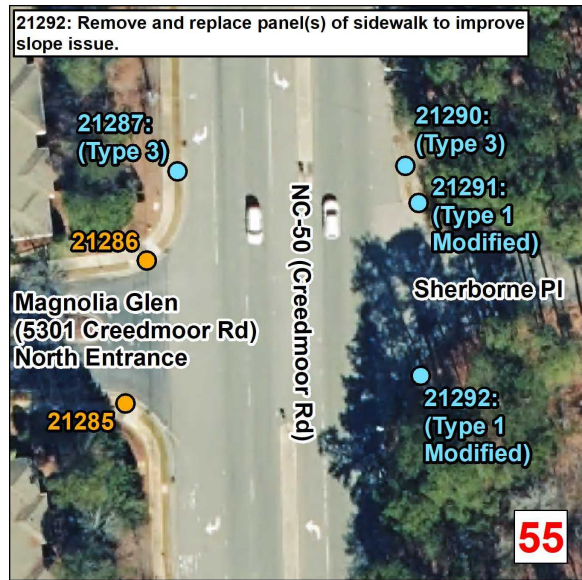
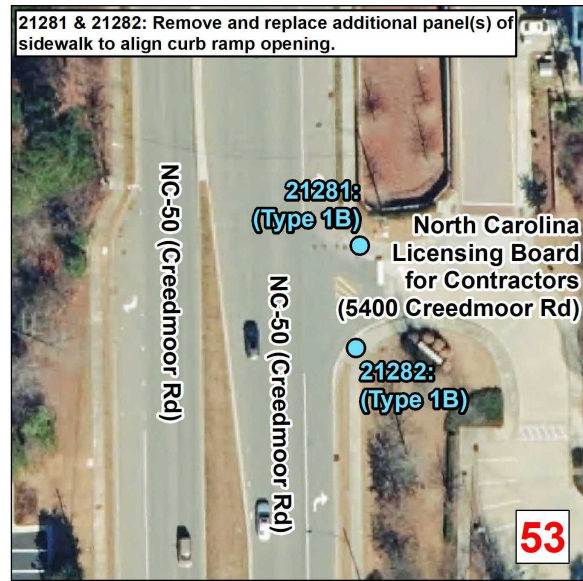
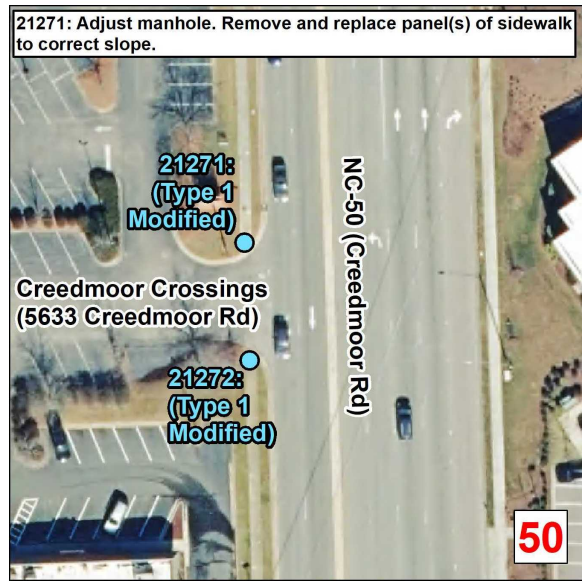
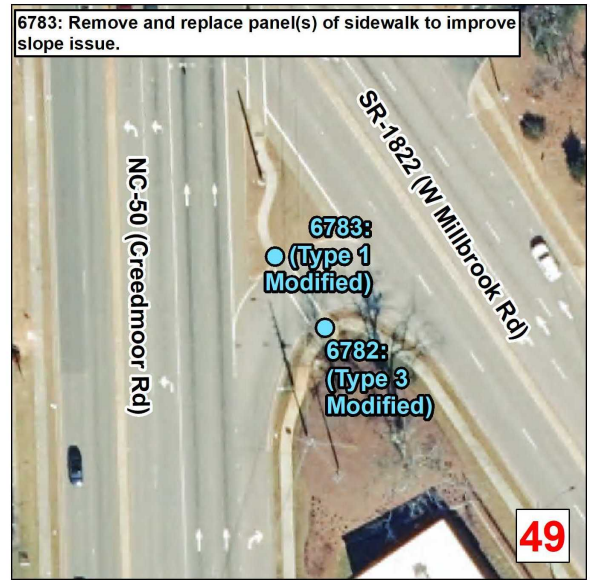
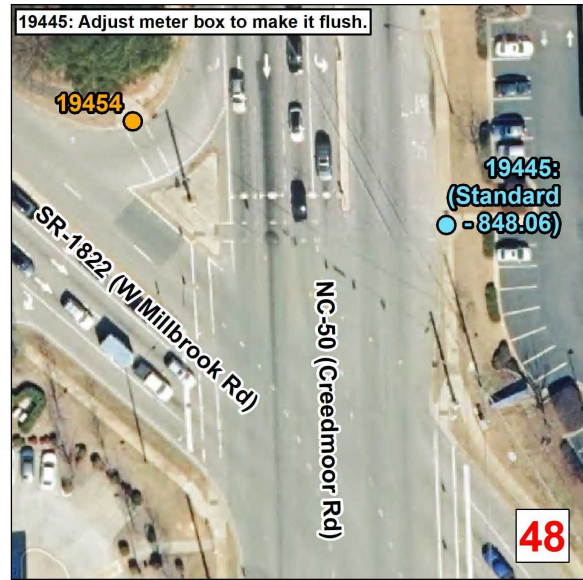
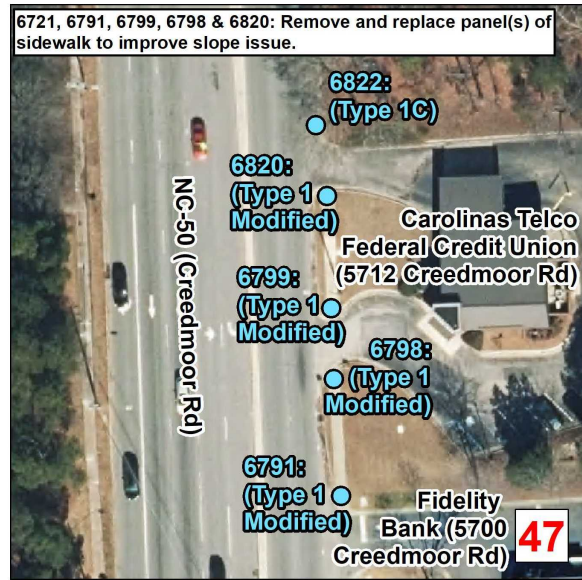
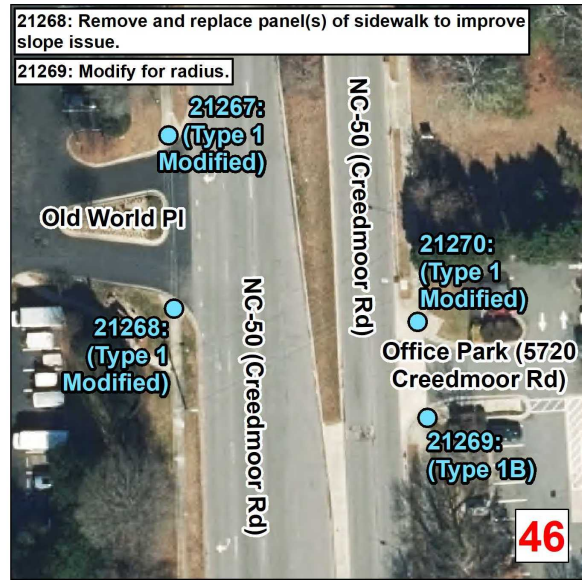
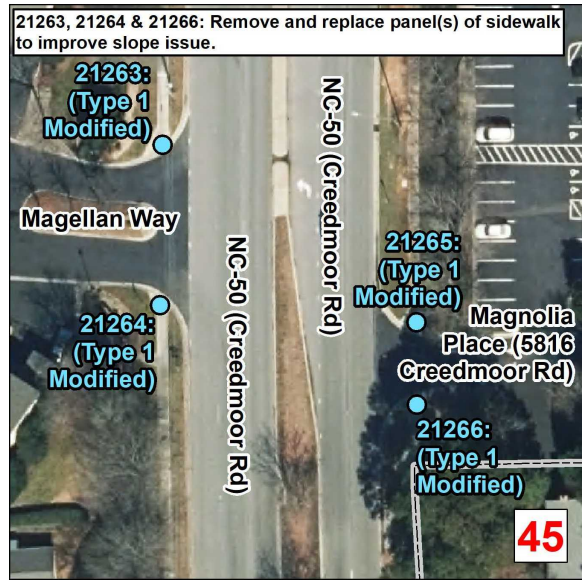
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

2024 NC 50
WBS: 2023CPT.05.12.10921.1
NC 50
From/To US 70 To/From SR 1898

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5

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



Curb Ramps To Be Repaired

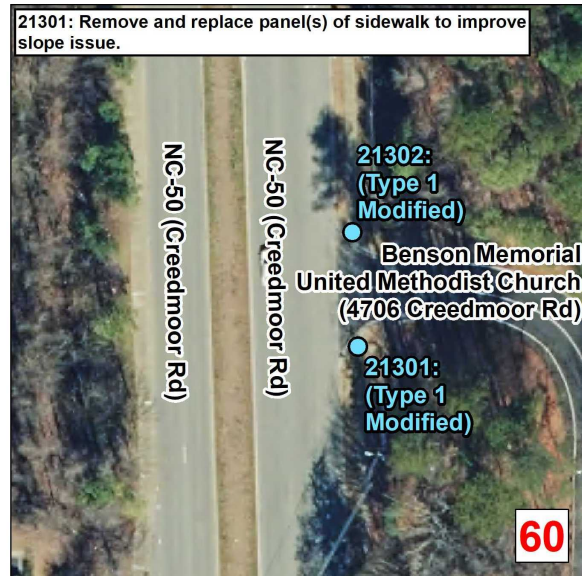
- Retrofit
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Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

2024 NC 50
WBS: 2023CPT.05.12.10921.1
NC 50
From/To US 70 To/From SR 1898

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)

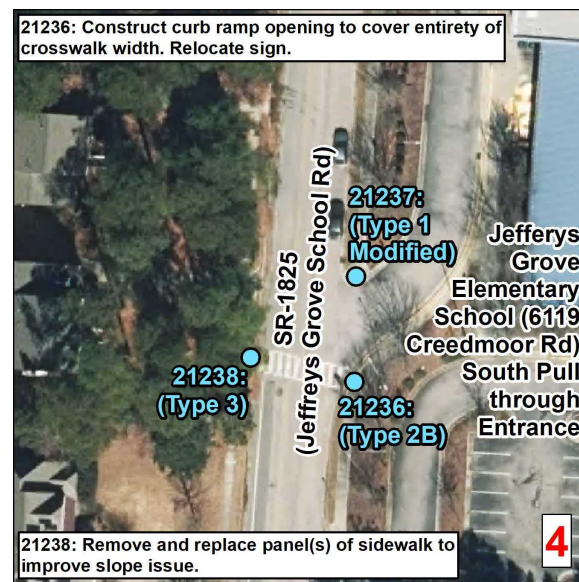
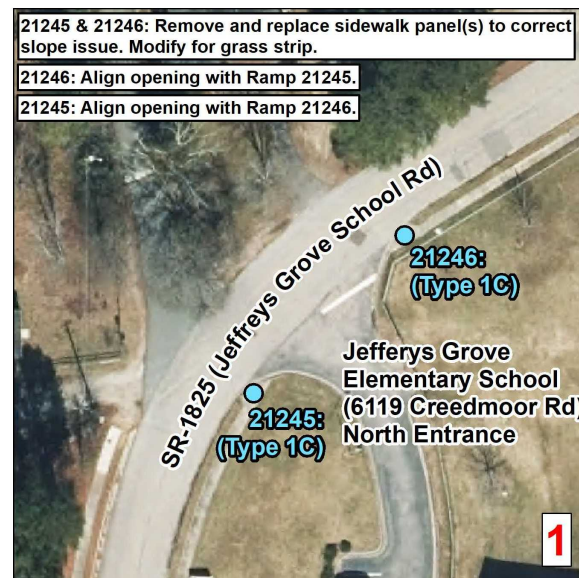
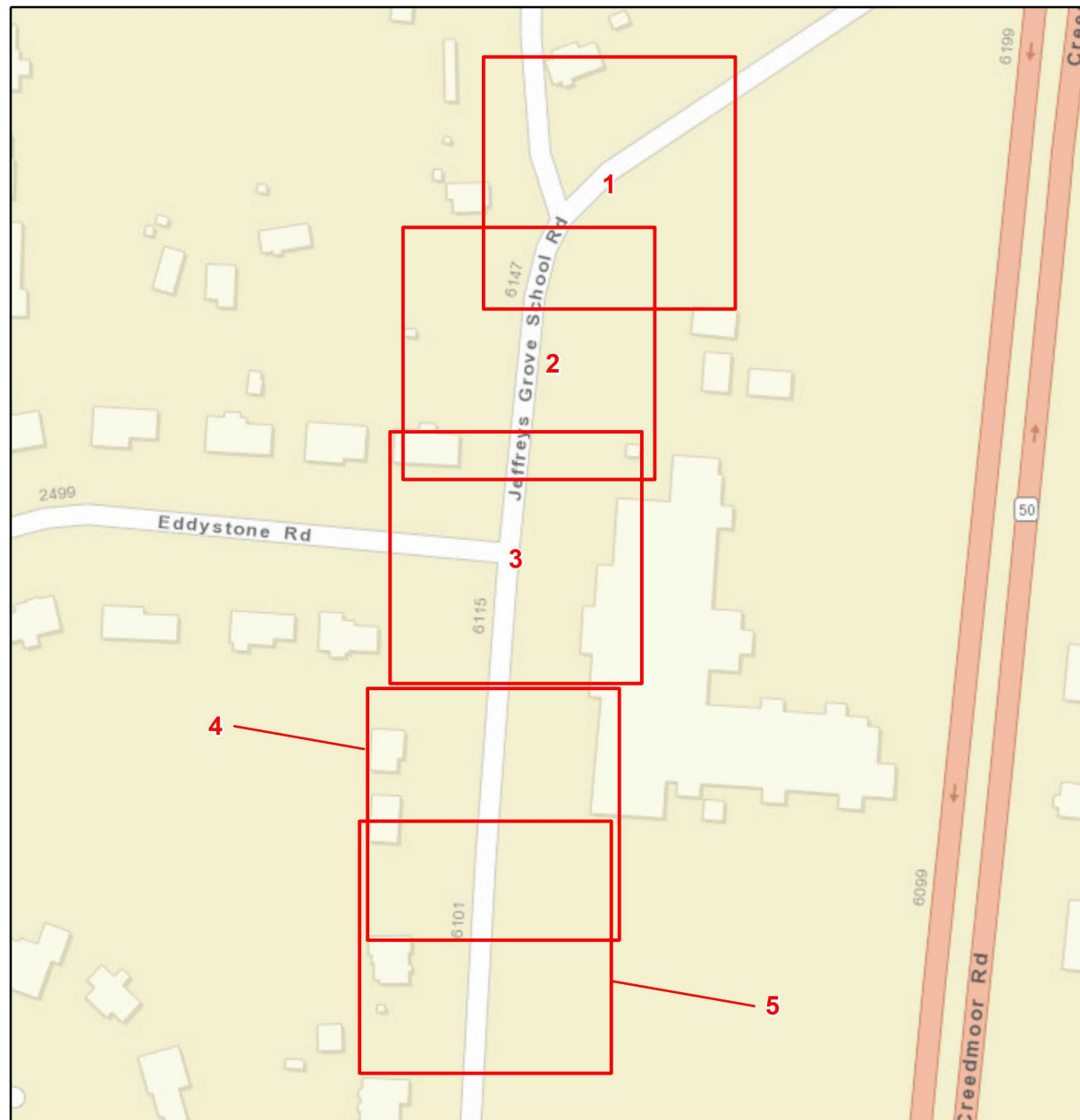


2024 NC 50
WBS: 2023CPT.05.12.10921.1
NC 50
From/To US 70 To/From SR 1898



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

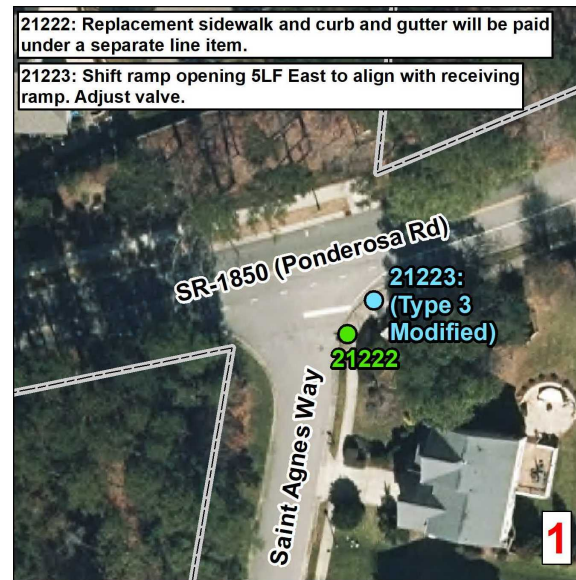
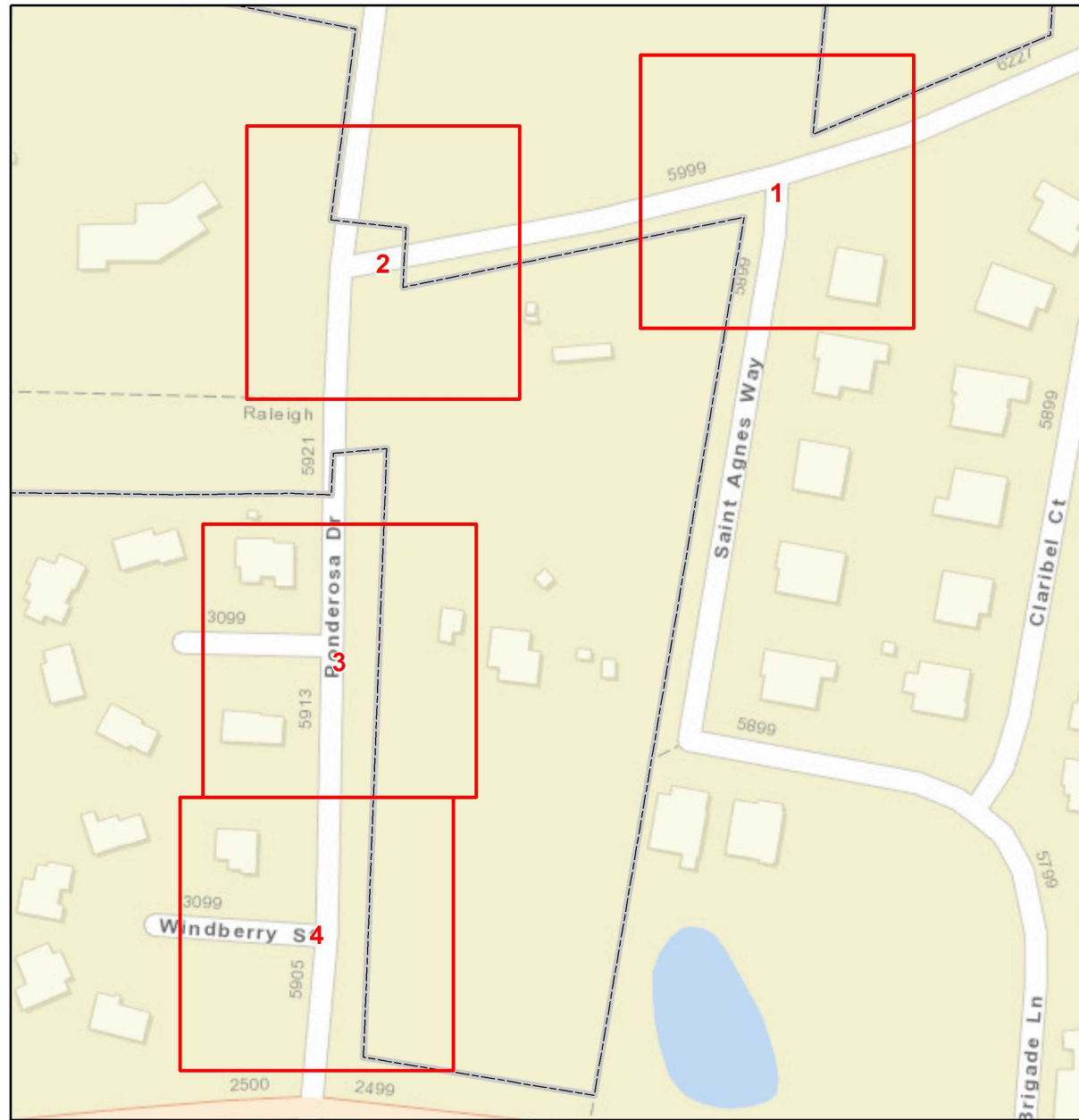
Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

2024 NC 50
WBS: 2023CPT.05.12.20921.1
Jefferys Grove School Rd
From NC 50 To NC 50

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5

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



Curb Ramps To Be Repaired

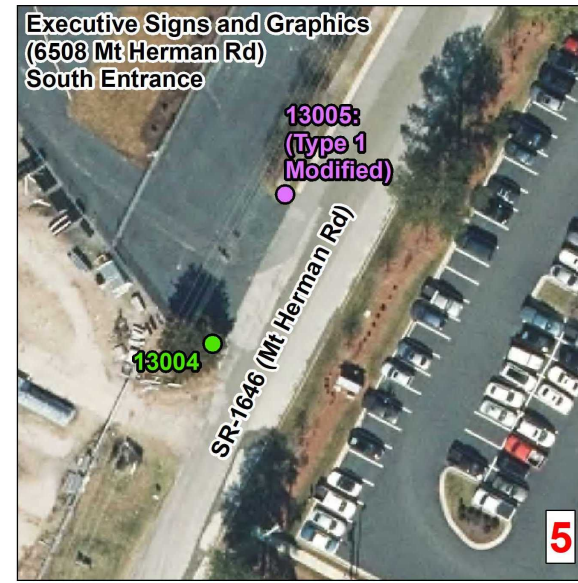
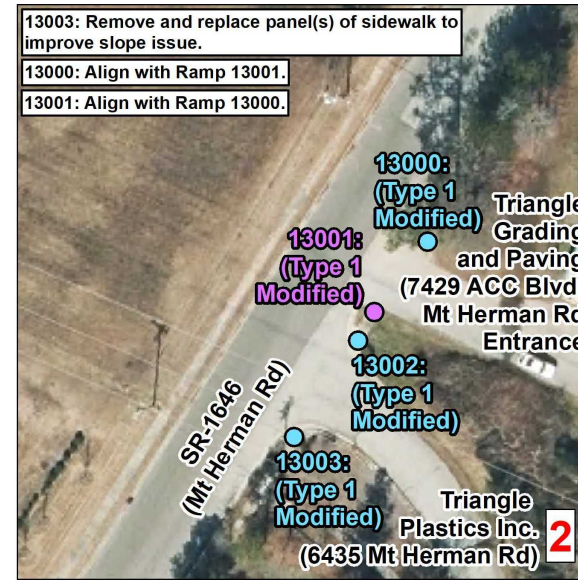
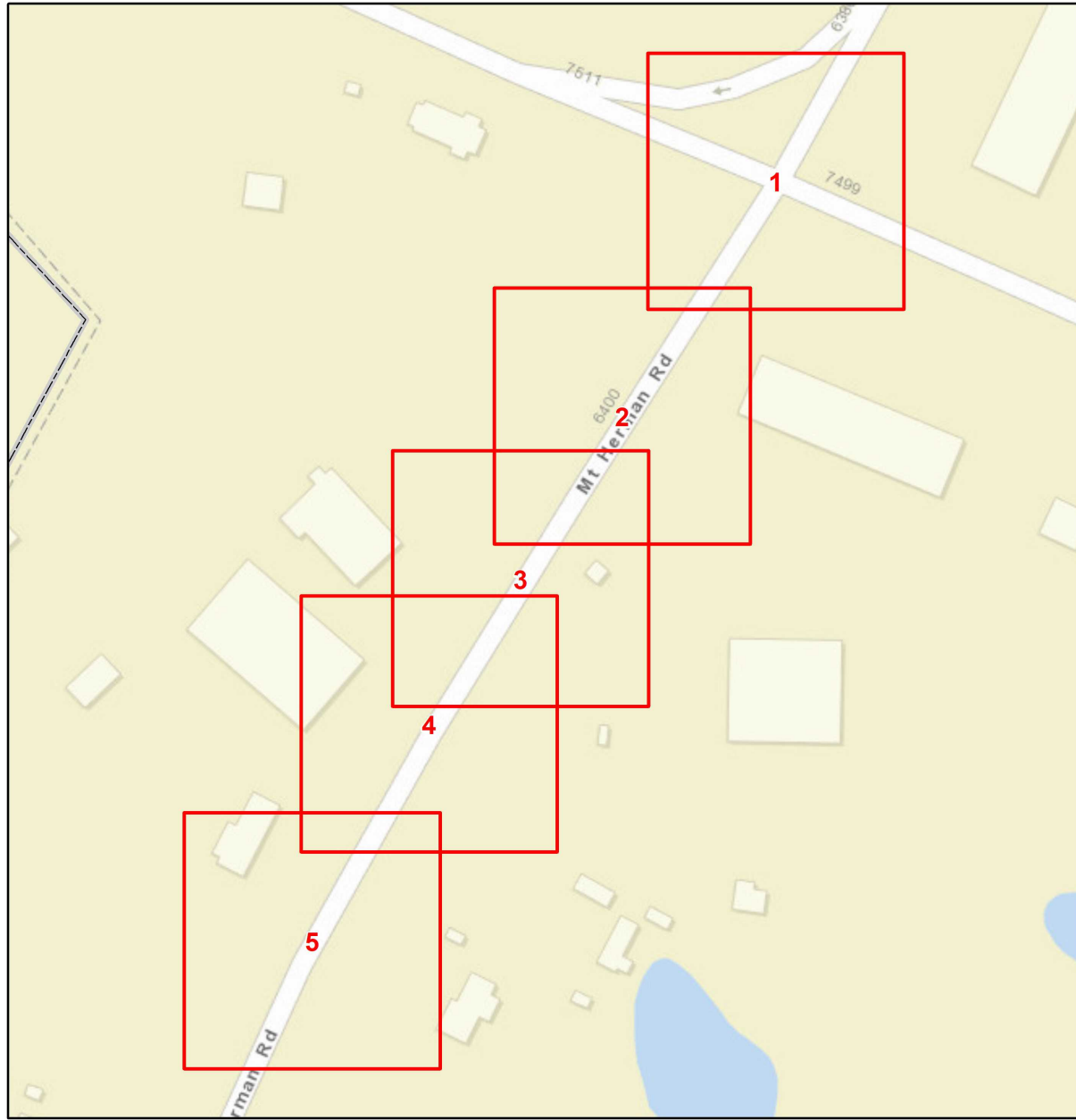
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

2024 NC 50
WBS: 2023CPT.05.12.20921.1
Ponderosa Rd
From SR 1825 To SR 1822

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)



2024 NC 50
WBS: 2023CPT.05.12.20921.1
Mt Herman Rd
From SR 3100 To End Maint

NORTH CAROLINA DEPARTMENT
 OF TRANSPORTATION
 DIVISION 5

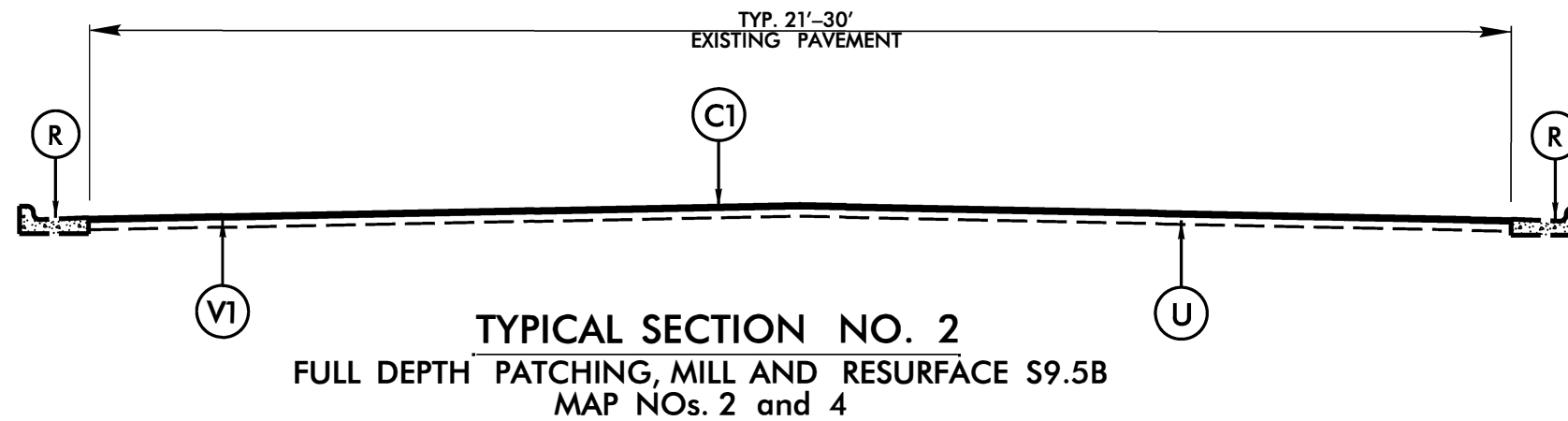
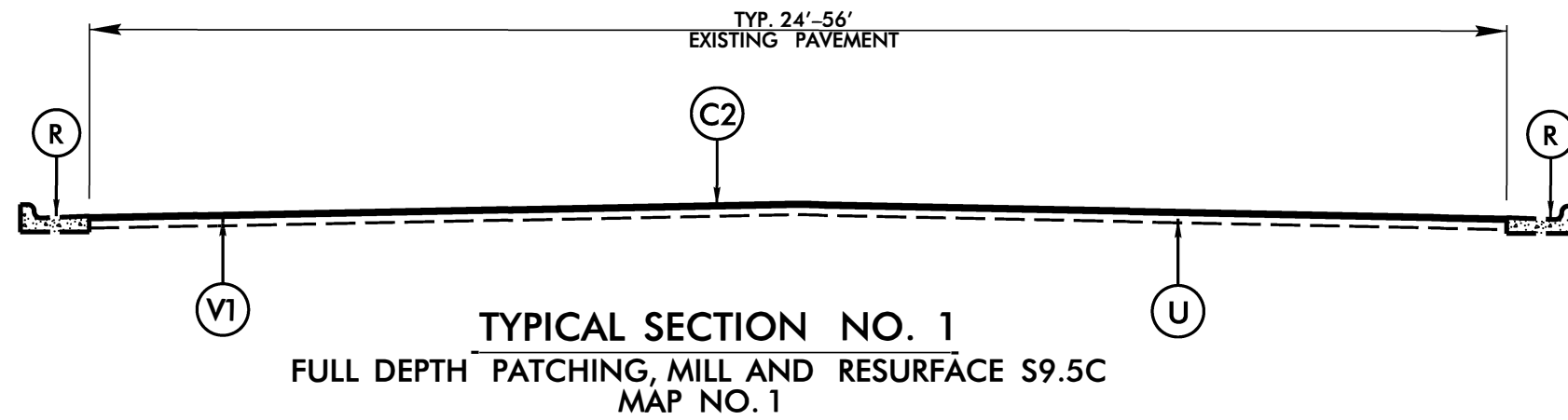
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PAVEMENT SCHEDULE

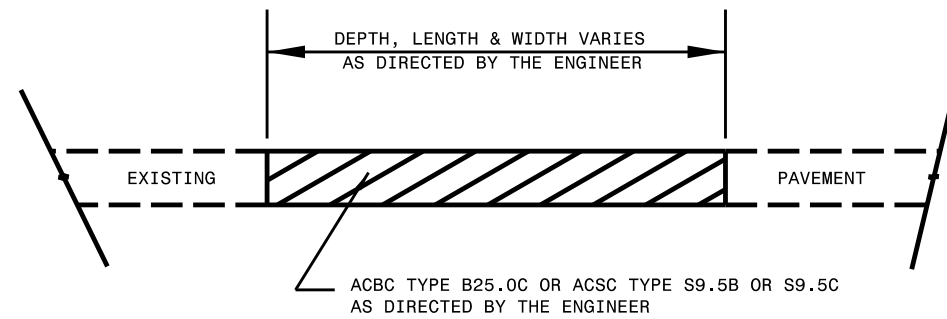
WAKE COUNTY RESURFACING

PROJECT REFERENCE NO.	SHEET NO.
2021CPT 051210921ETC	13
Prepared in the Office of: 	

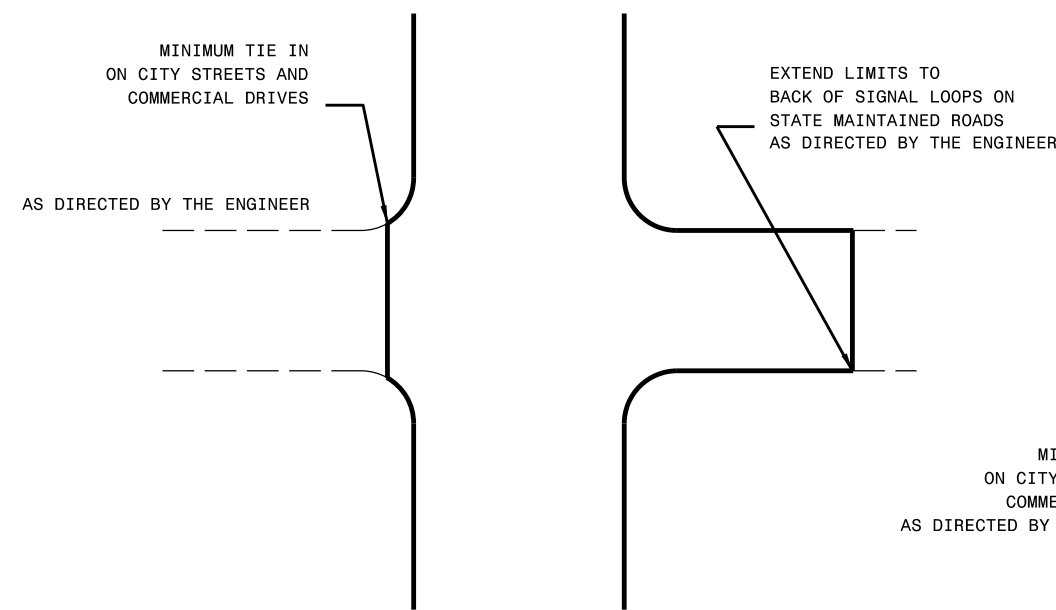
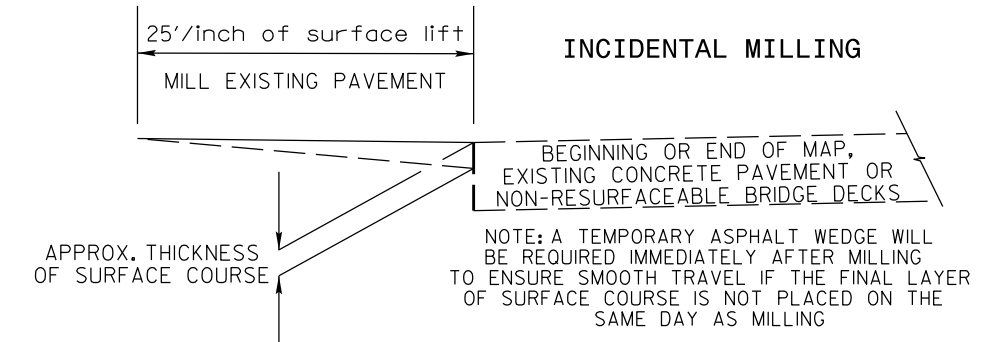
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	V1	MILL ASPHALT PAVEMENT, 1½" DEPTH
R	EXISTING CURB AND GUTTER	V2	MILL ASPHALT PAVEMENT, 0 - 1½" DEPTH
S	SHOULDER GRADING		



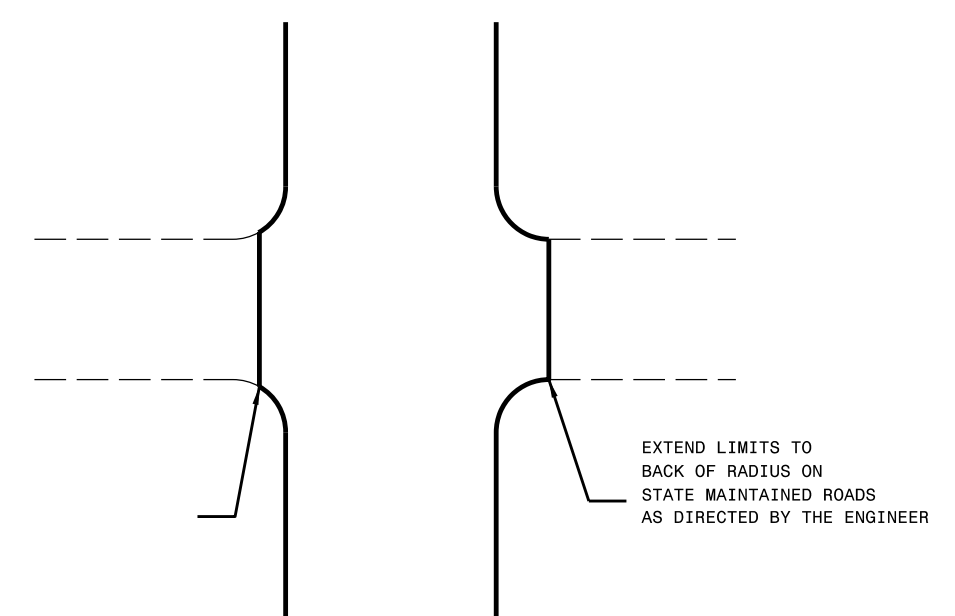
 SYSTEMS



PATCHING EXISTING PAVEMENT
MILLING TO BE PERFORMED PRIOR TO PATCHING



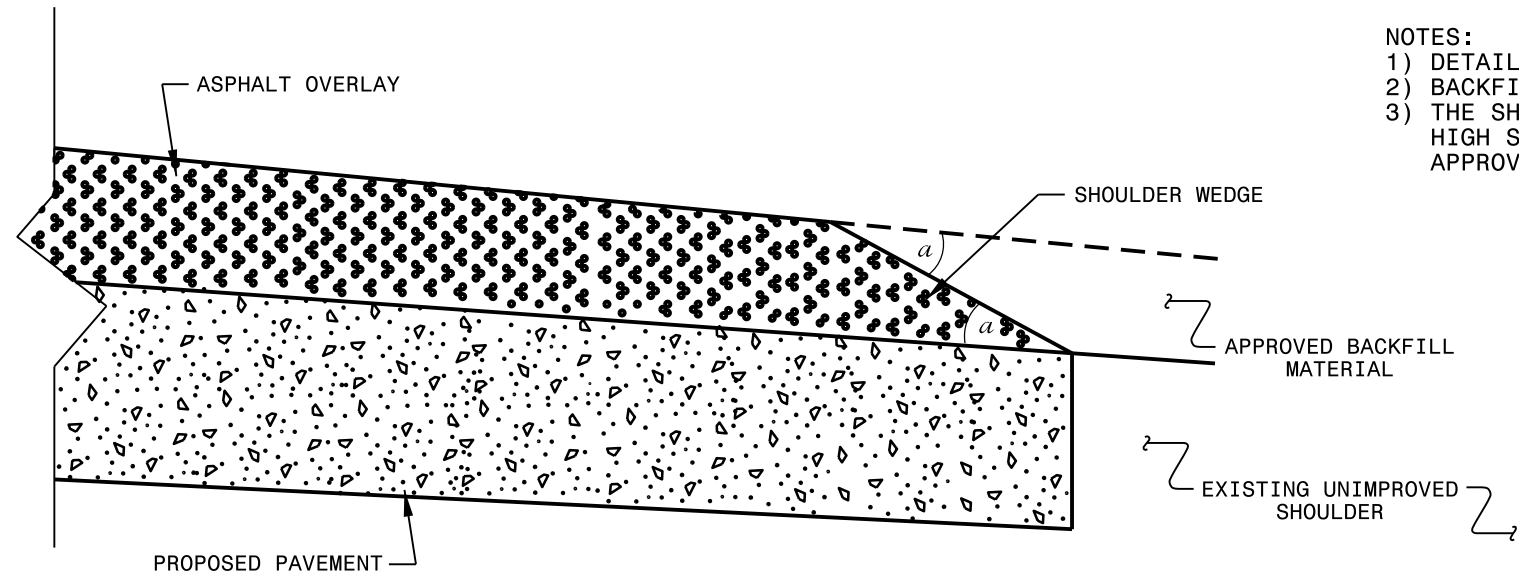
DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



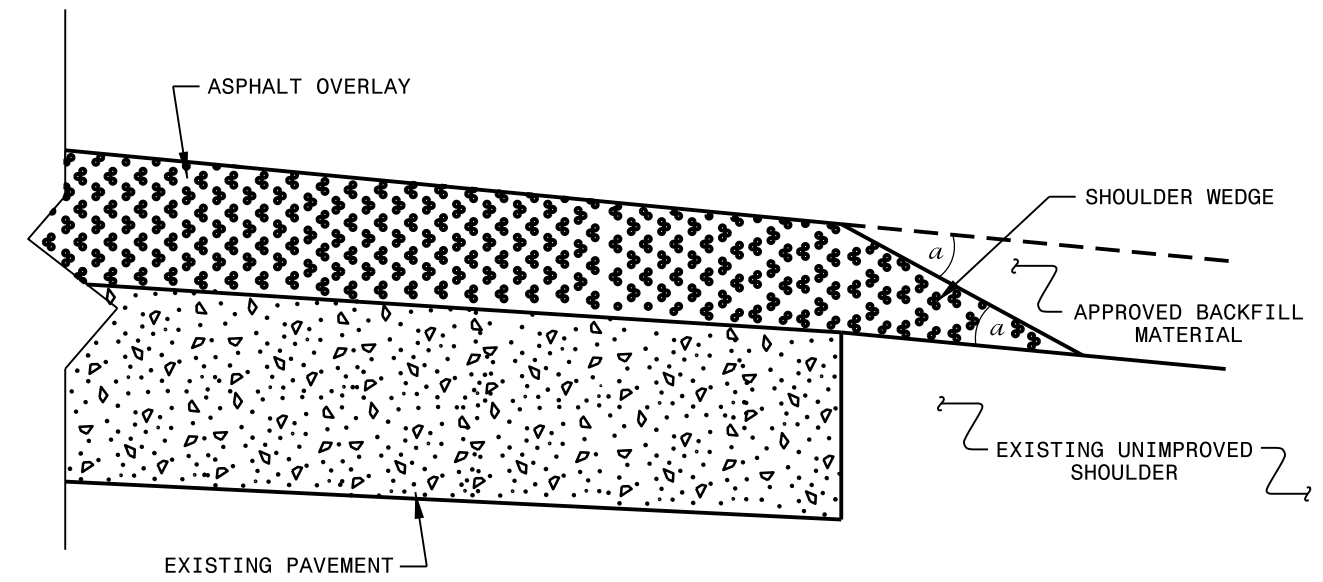
DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

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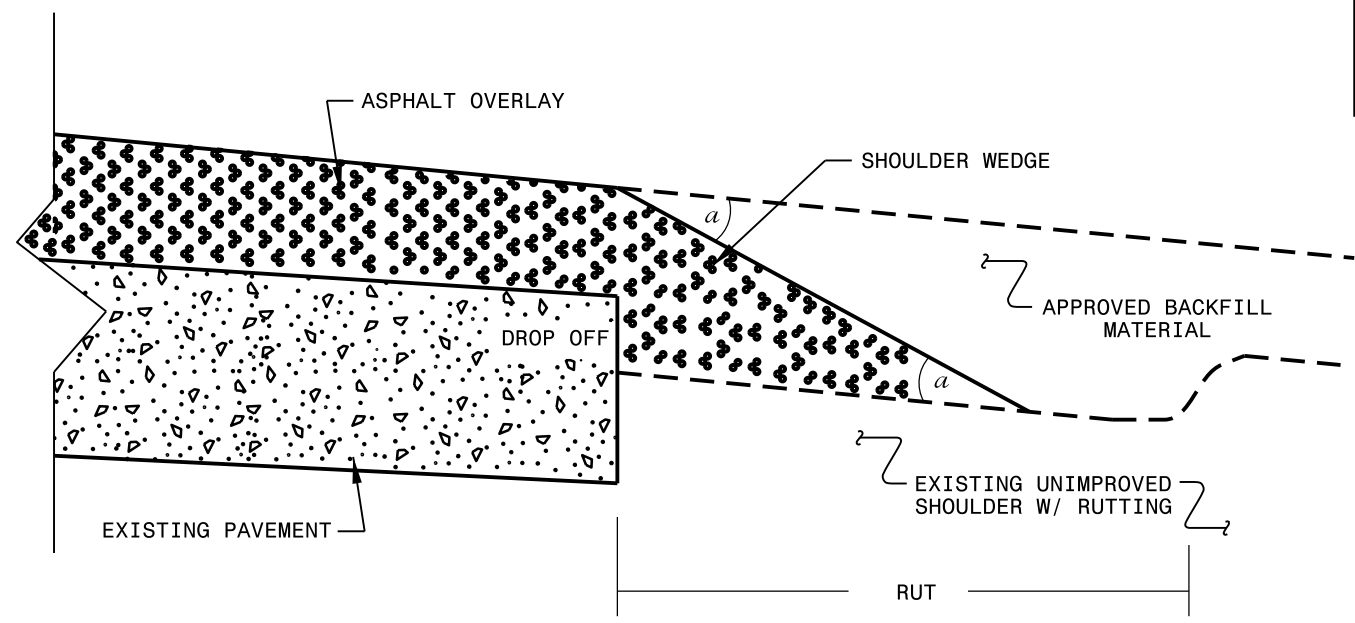
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)

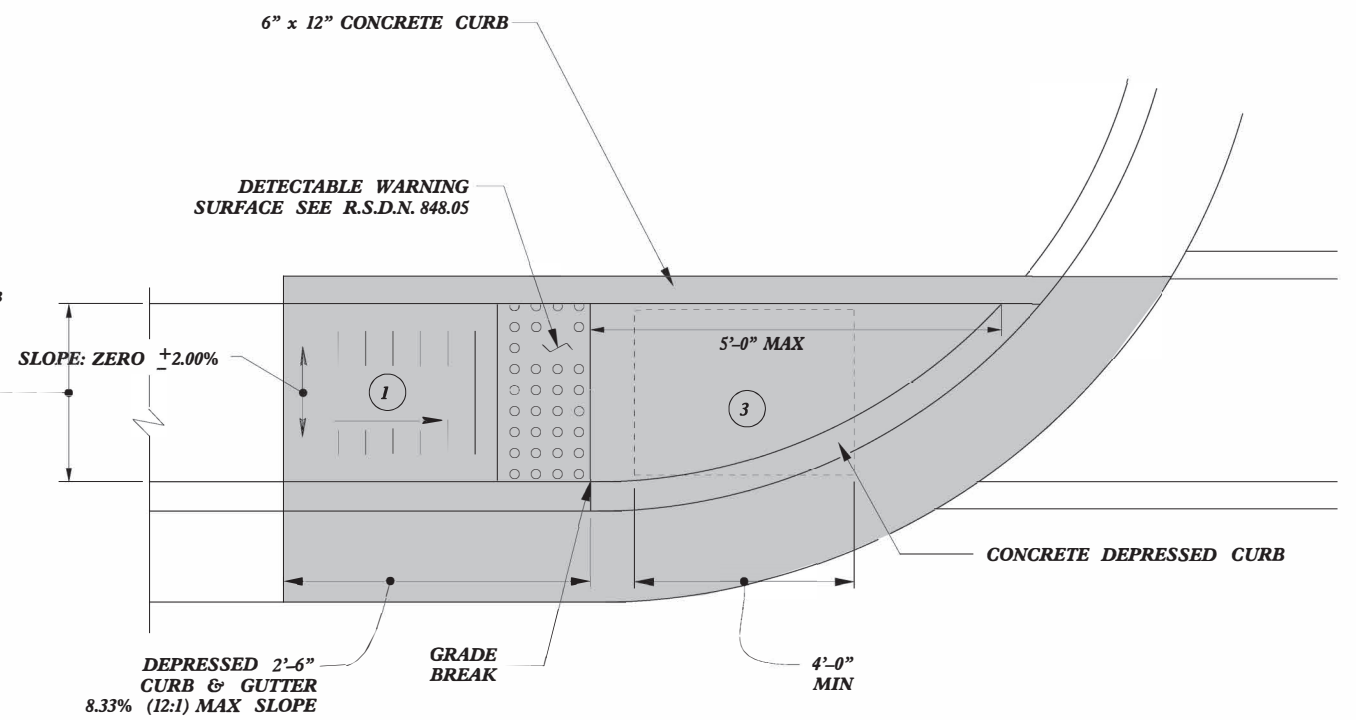
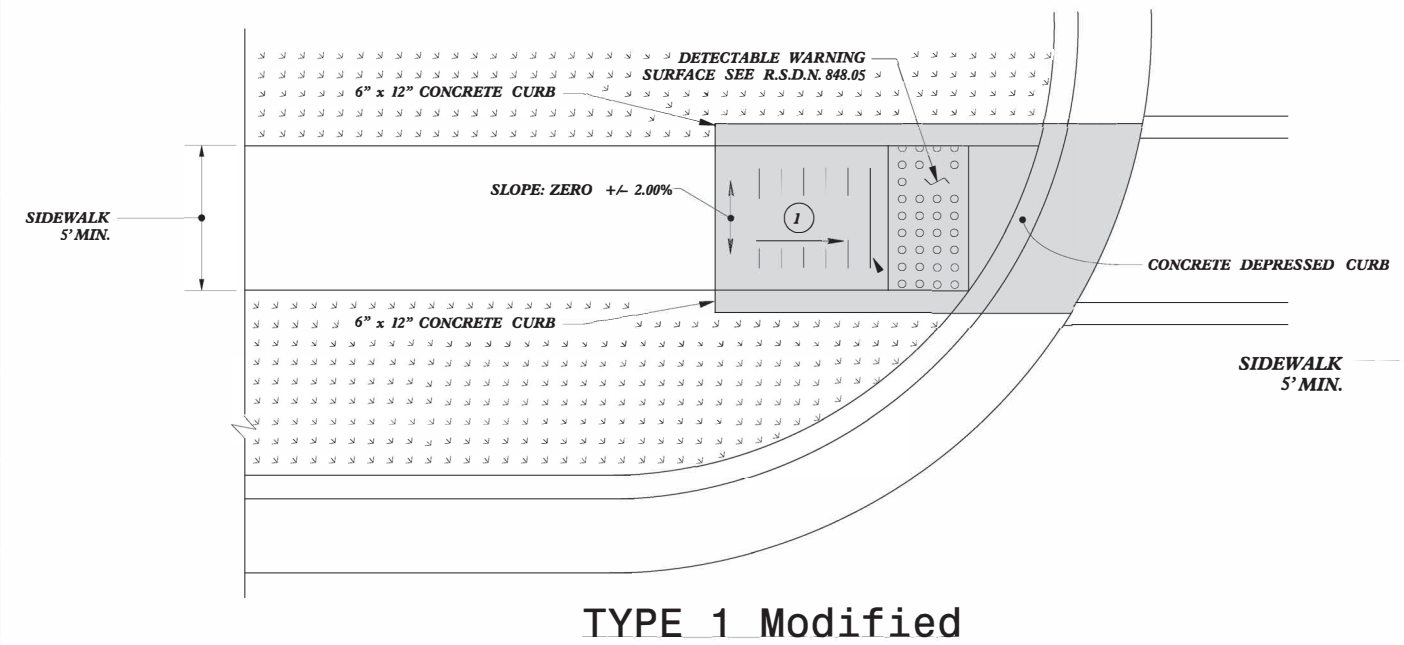
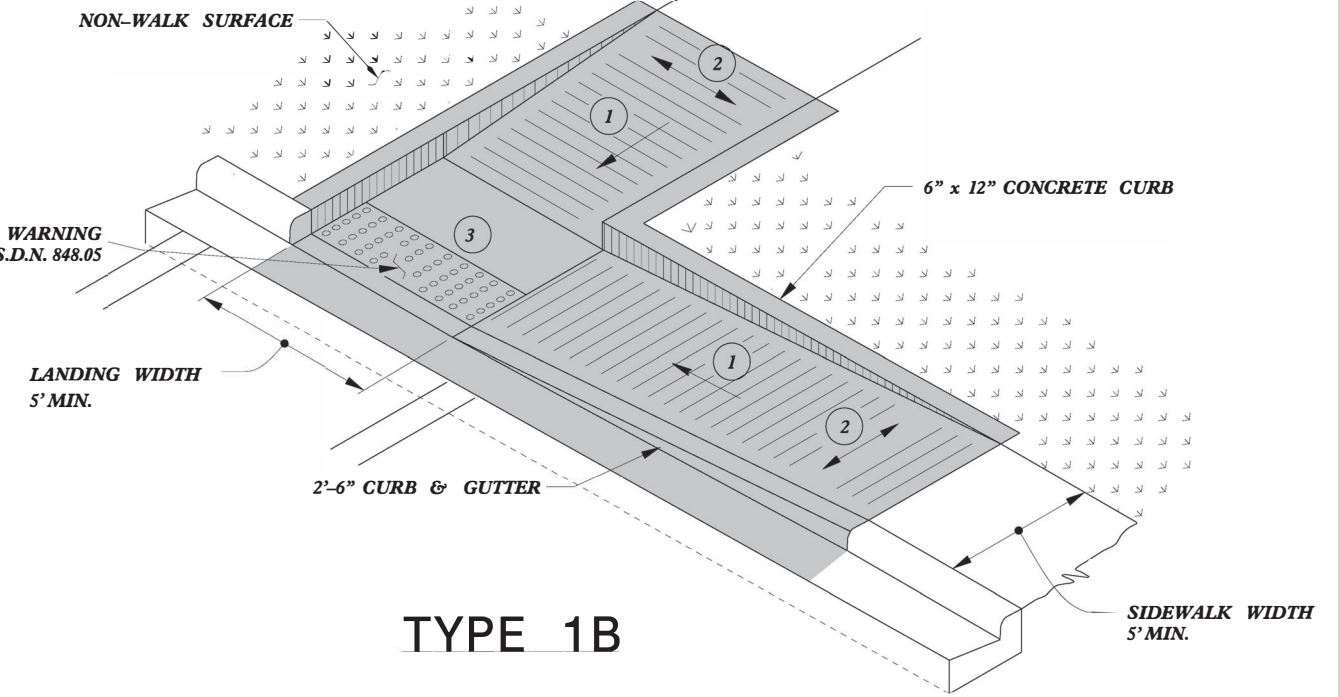
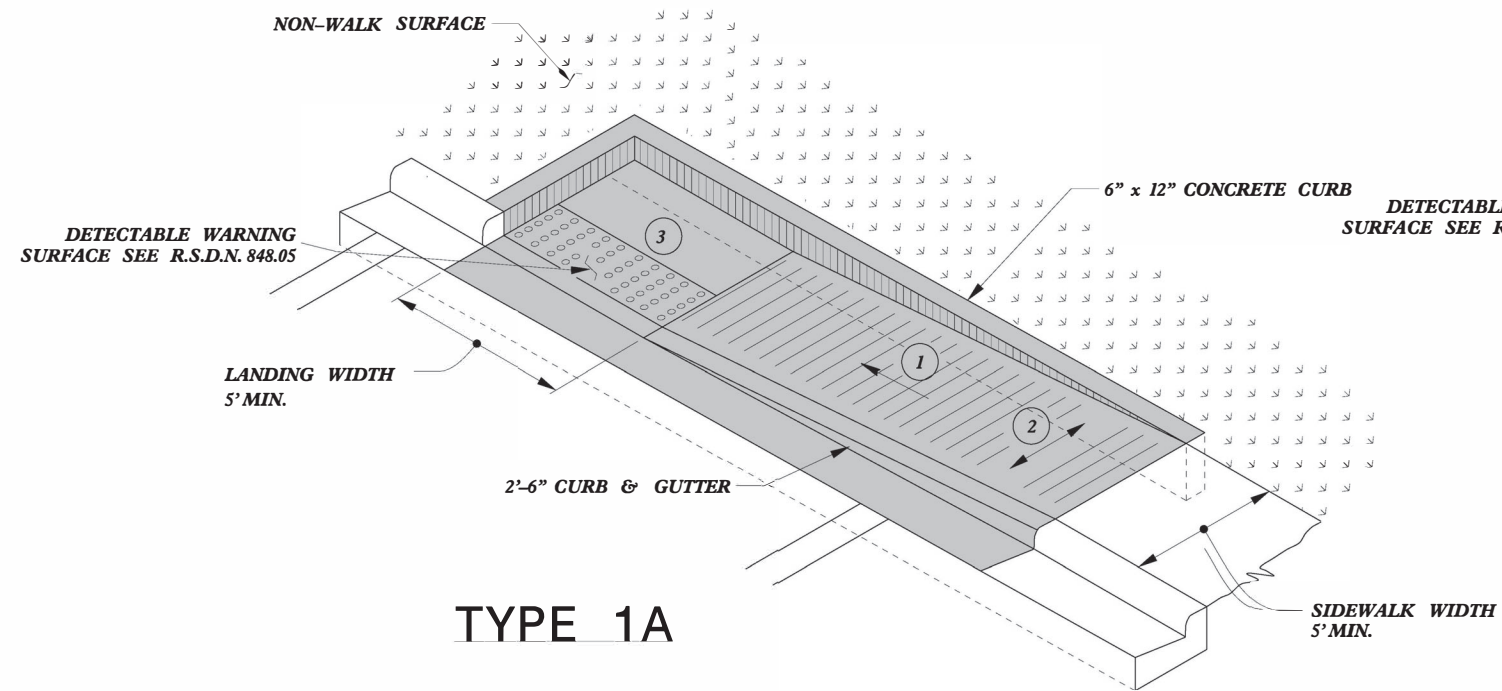


SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to Rutted Shoulder)

- 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	

22 JAN-2018 09:41
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 P:\piper\41_CSD-21532



- 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



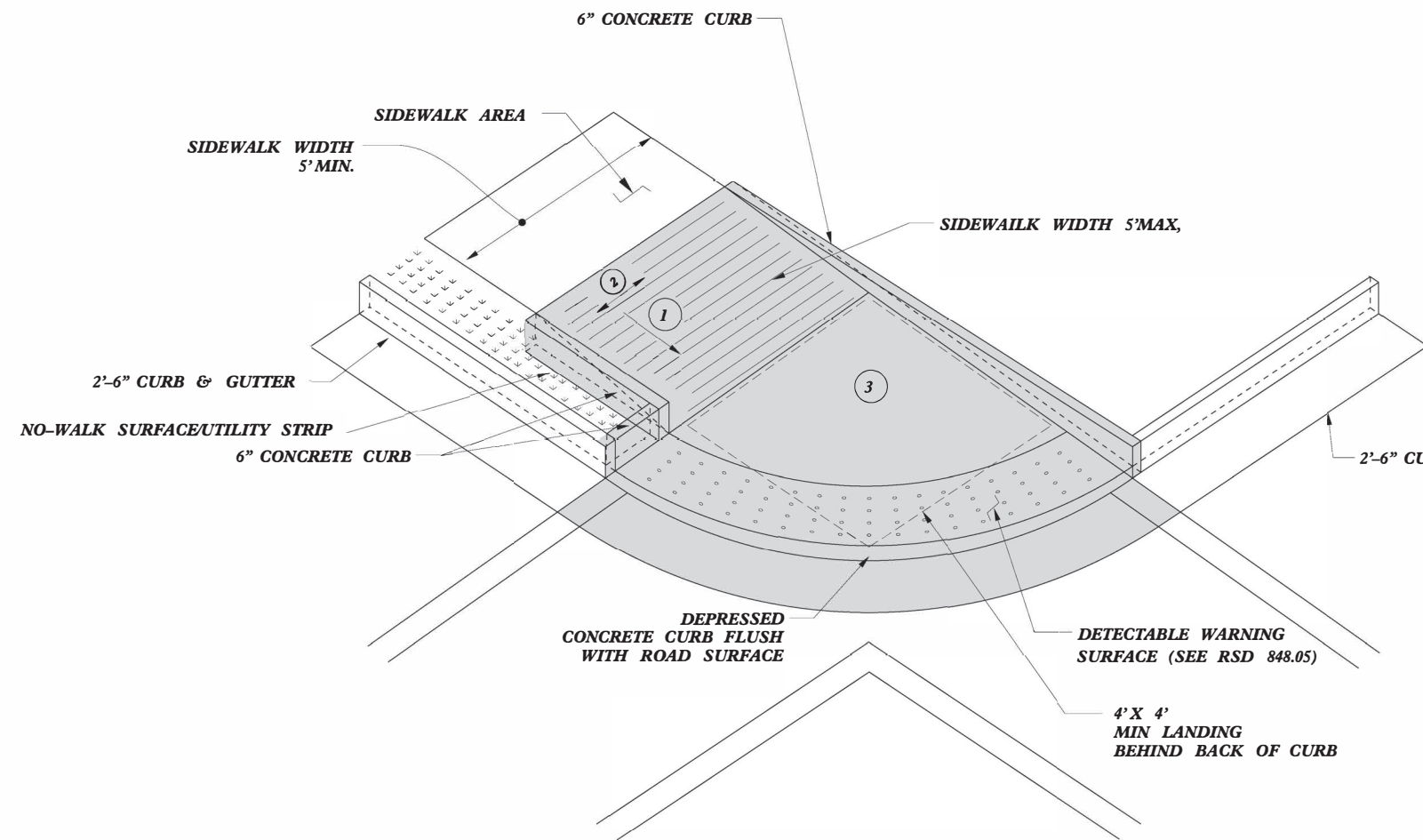
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

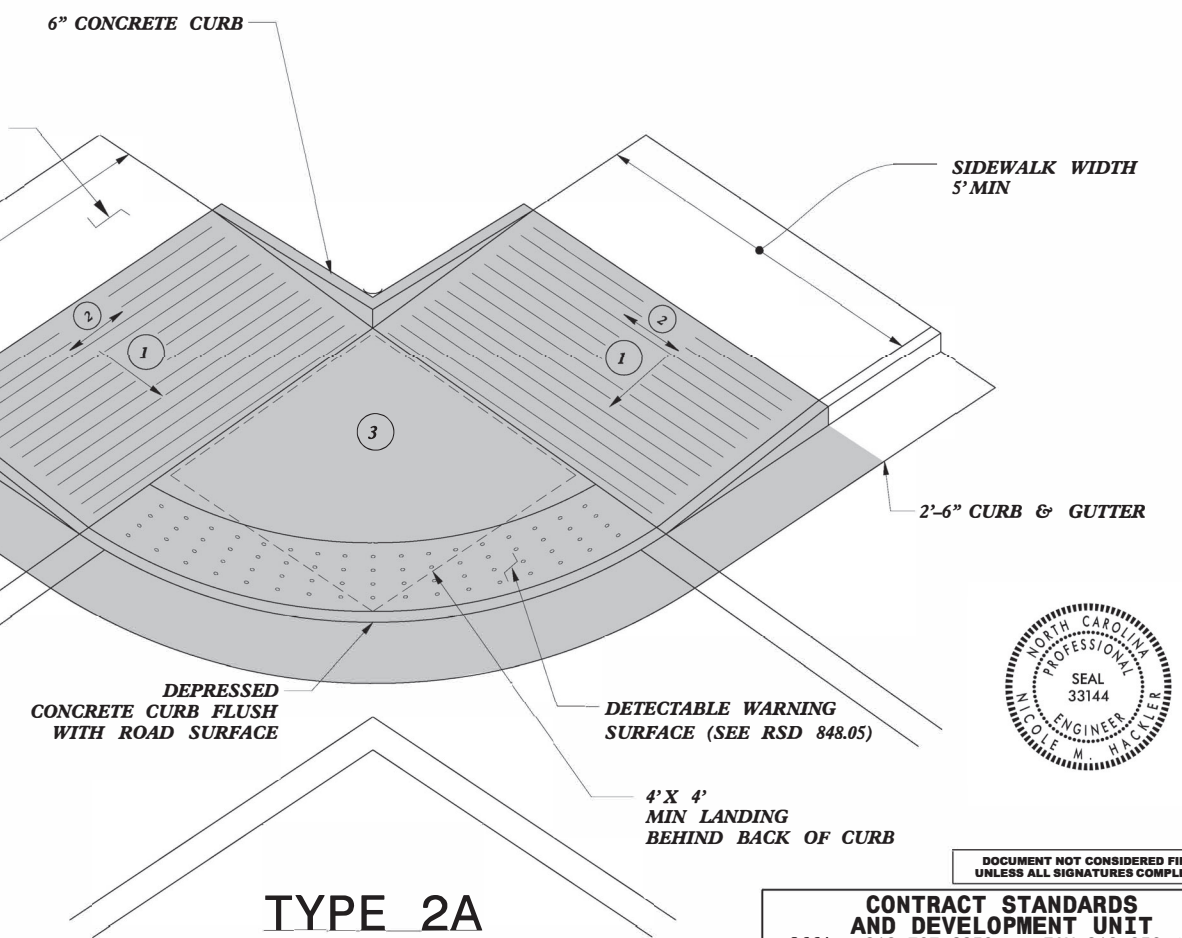
CURB RAMPS
Directional Ramps

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

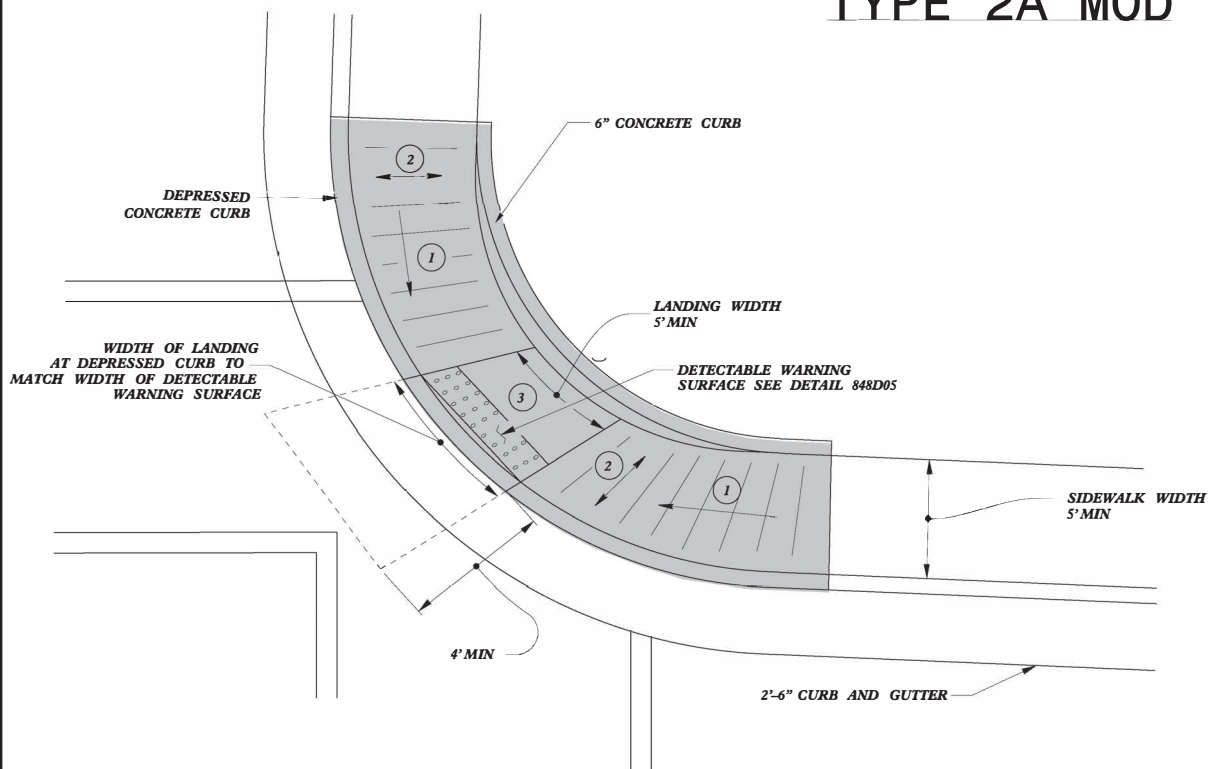
5/14/99
\$\$\$\$SYTIME\$\$\$\$
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TYPE 2A MOD



TYPE 2A



TYPE 2B

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



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

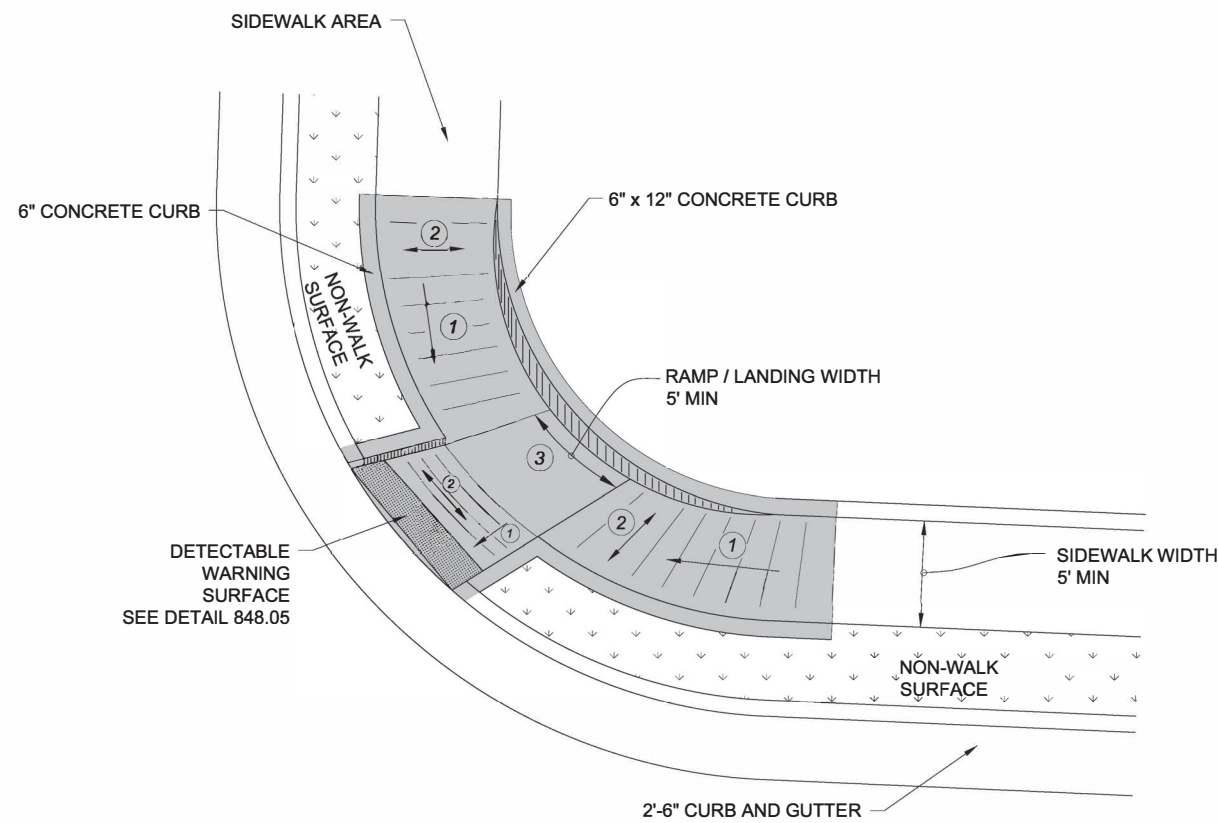
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

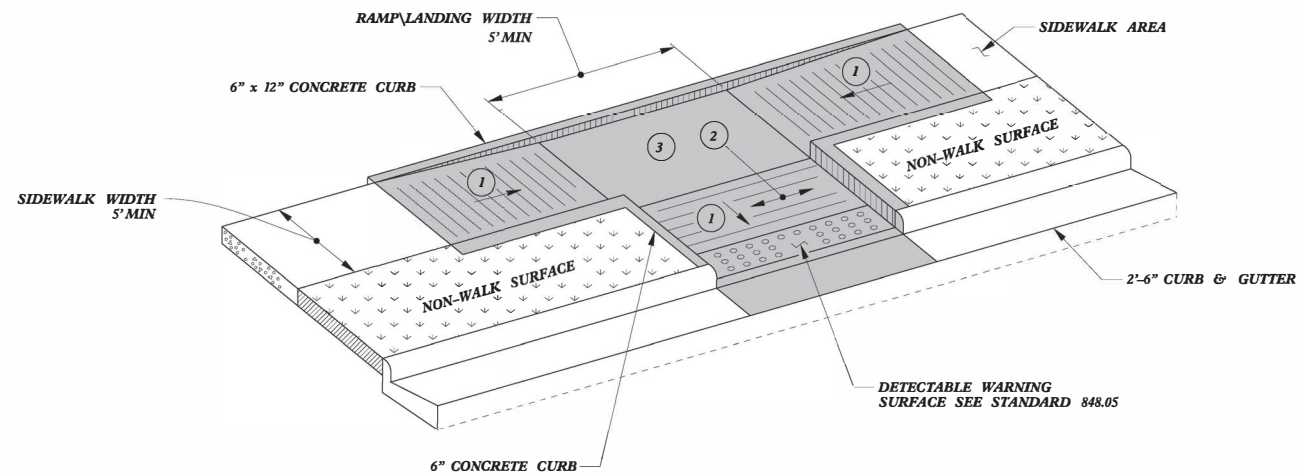
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: sids/2012CurbRamp/CurbRampDetails.dgn

5/14/99
SYTIME
PUSURNAME

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

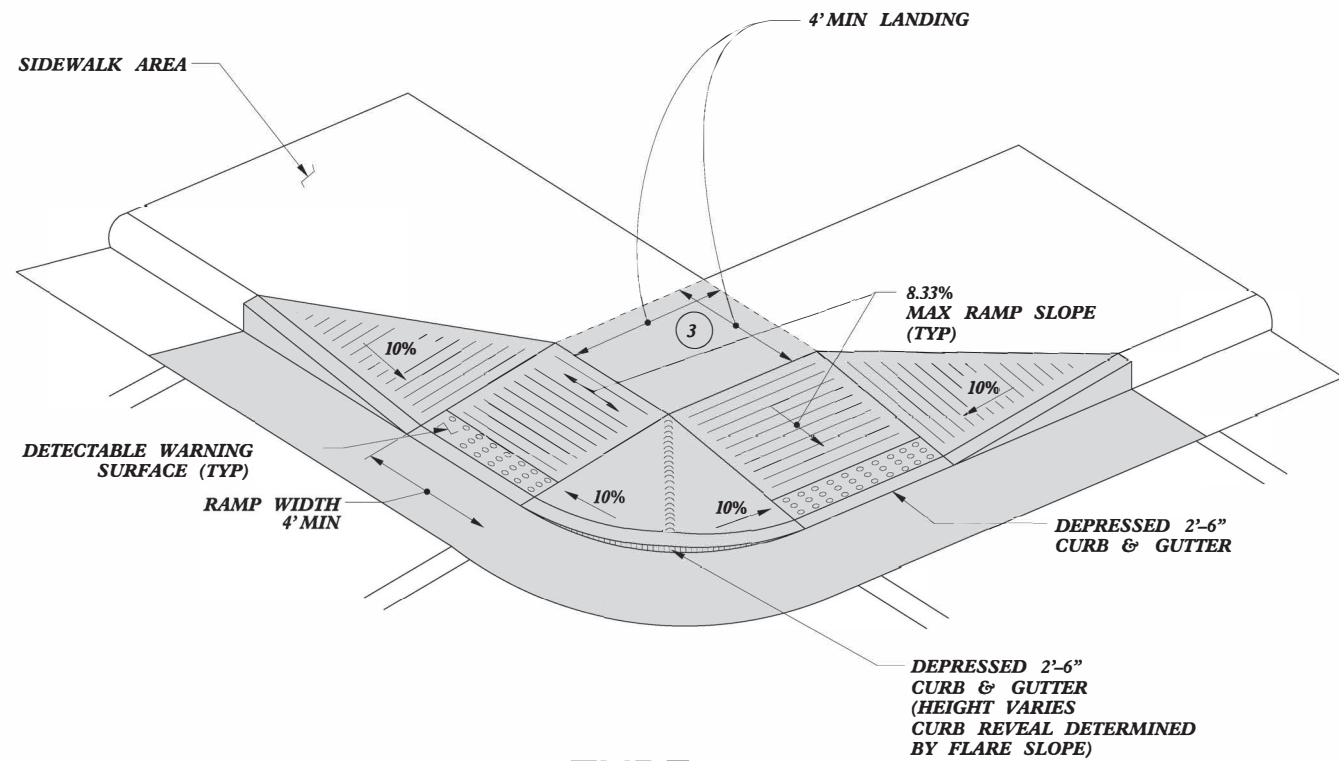
**CONTRACT STANDARDS
 AND DEVELOPMENT UNIT**
 Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

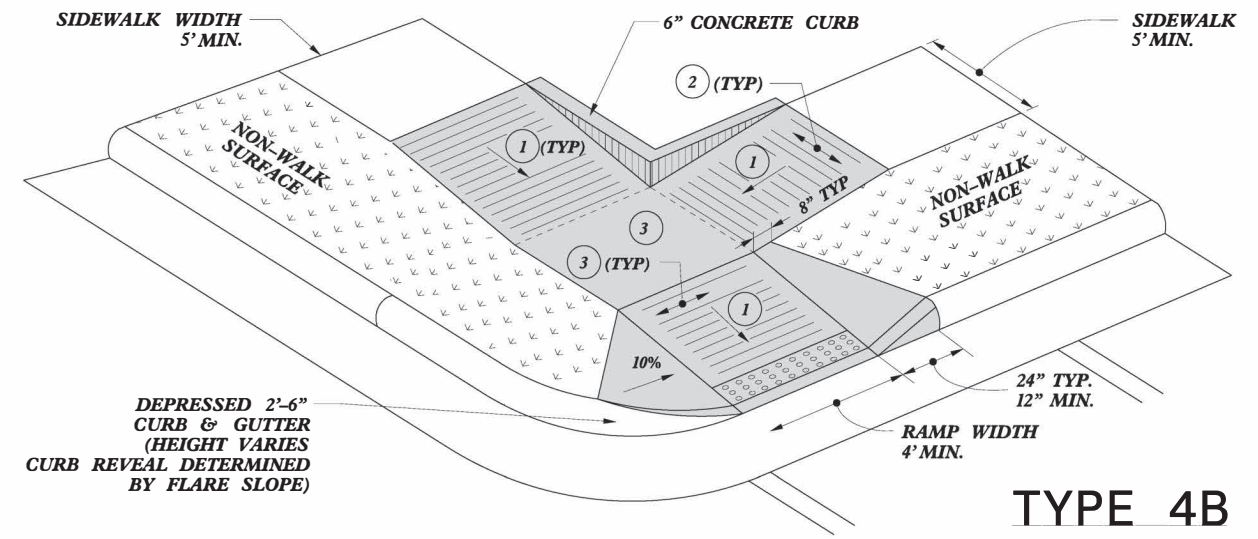
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 MODIFIED BY: DATE:
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5/14/99
 \$\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$\$\$\$PUSERRNAME\$\$\$\$\$

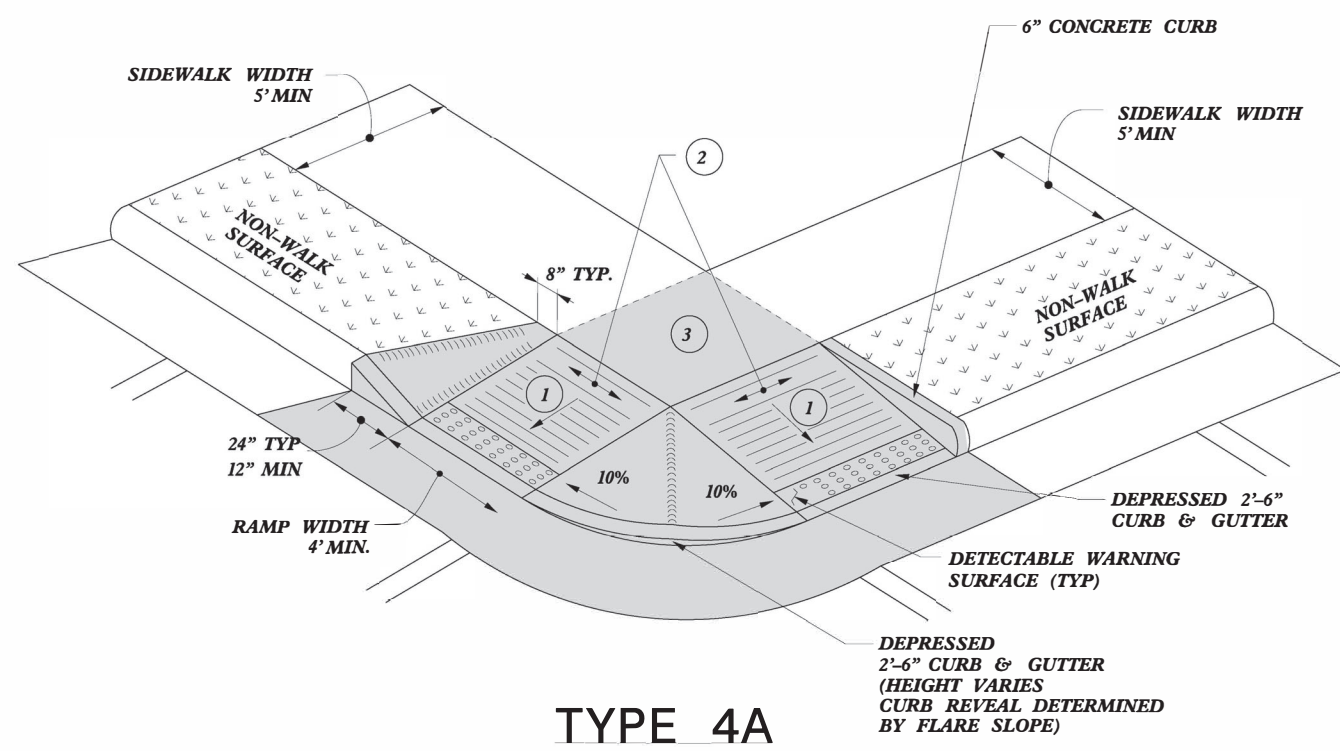
PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF TRUNCATED DOMES)



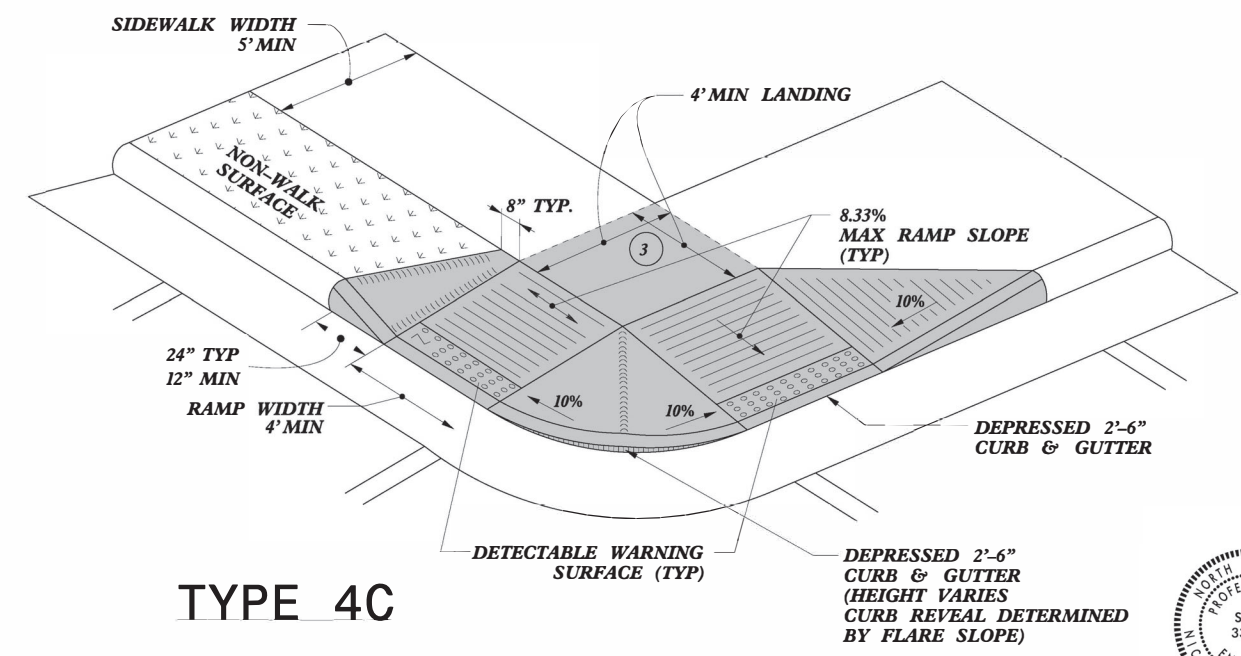
TYPE 4



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.



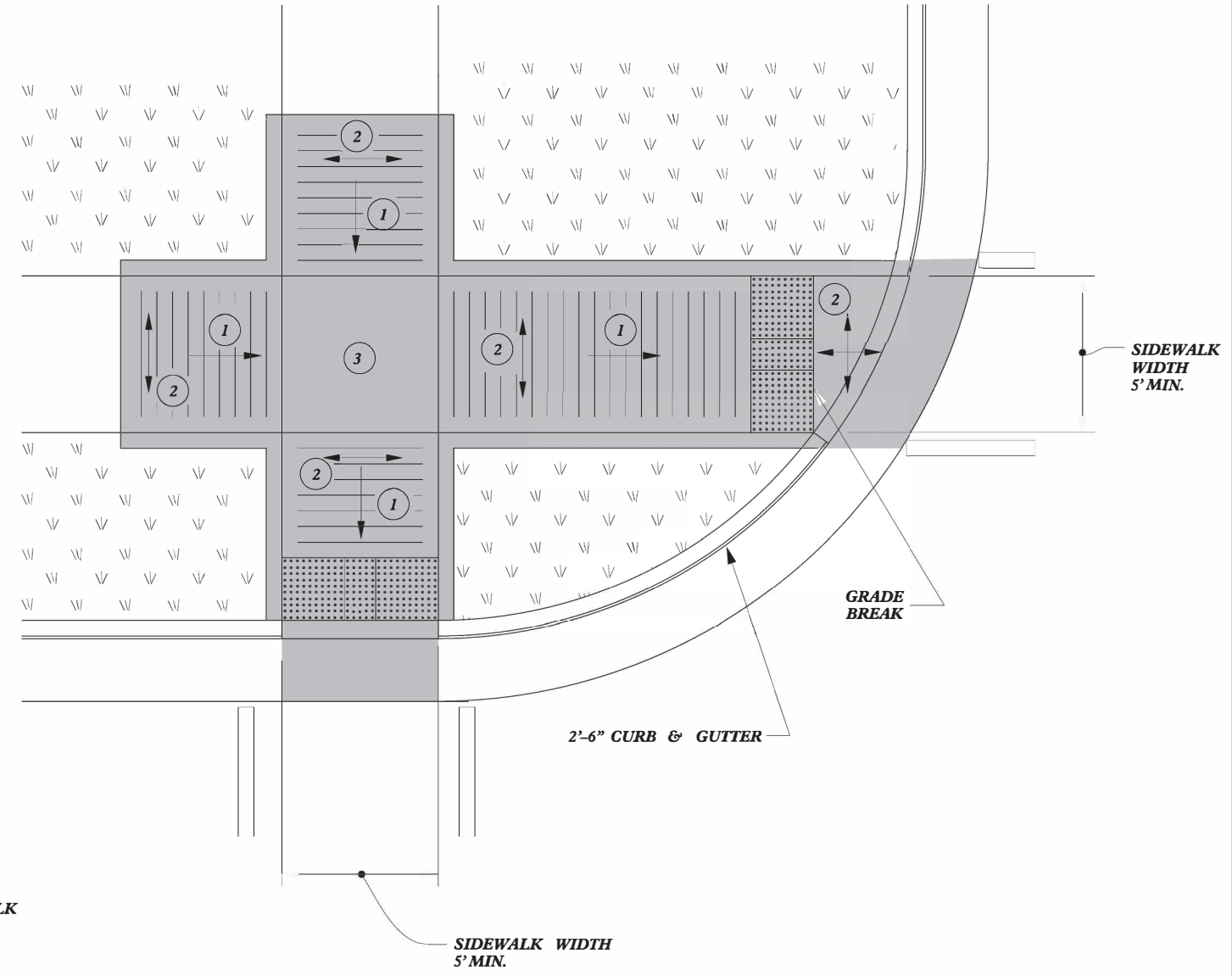
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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. sids/2012CurbRamp/CurbRampDetails.dgn	

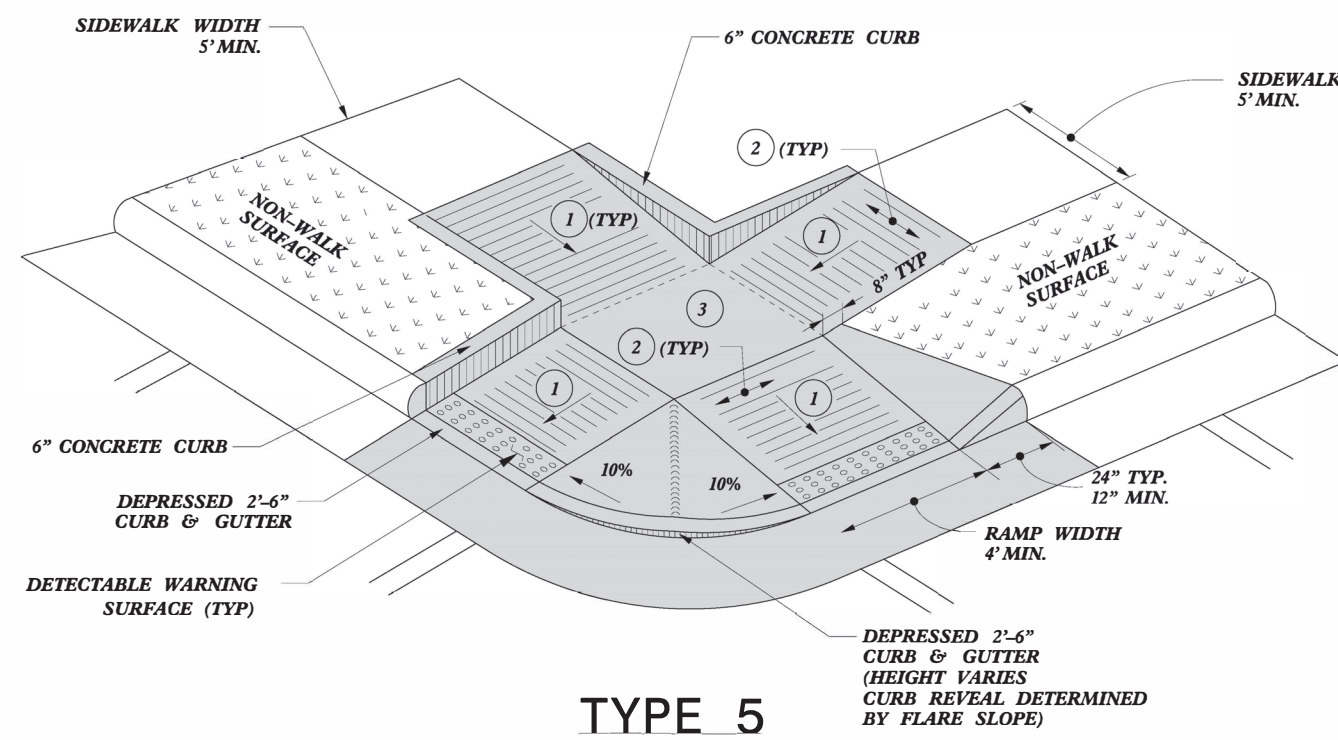
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/7/4/99
\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$PUSERNAME\$\$\$\$

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.



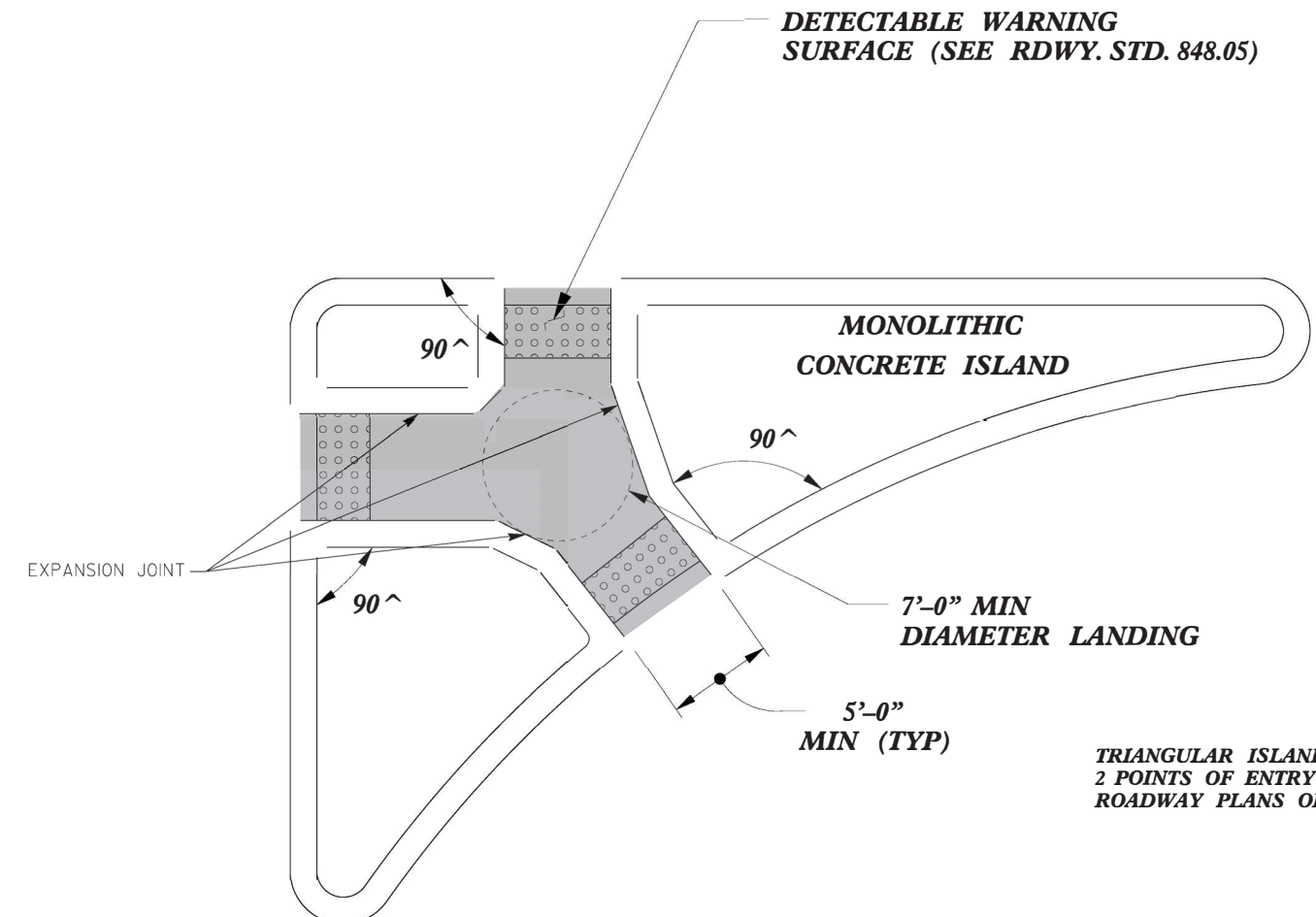
CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

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

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

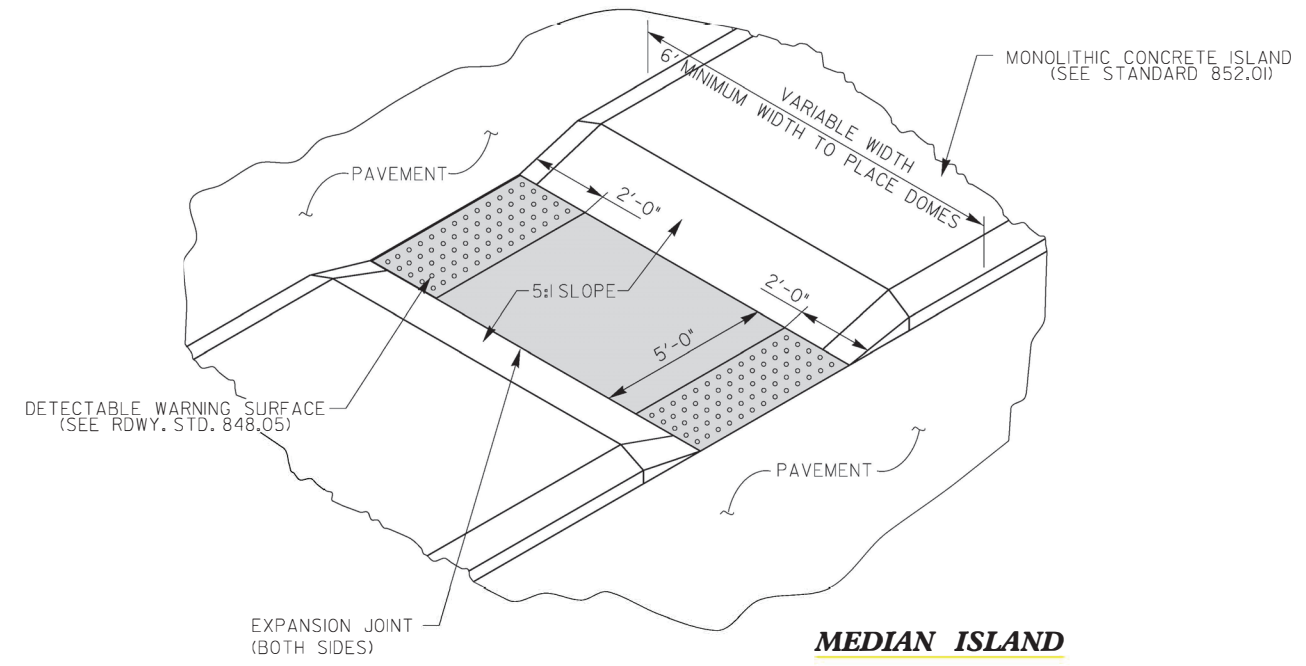
5/14/99
 SYSTEMS
 CONSULTANTS
 ENGINEERS
 ARCHITECTS
 PLANNERS
 INC.



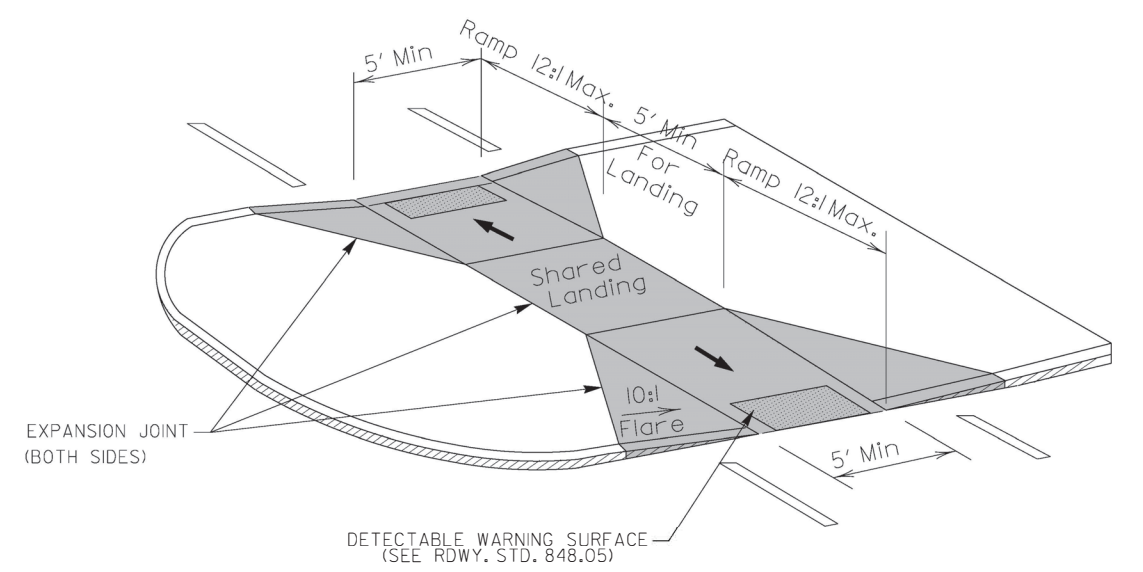
PAY LIMITS FOR 2 OR 3 CURB RAMPS
(CALCULATE BASED ON NUMBER OF
SETS OF TRUNCATED DOMES)

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
TYPE 6**



**MEDIAN ISLAND
WITH CUT THROUGH
TYPE 7**



**MEDIAN ISLAND
CURB RAMPS
TYPE 8**

DOCUMENT NOT CONSIDERED FINAL
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CURB RAMPS
Median or Turn Lane Islands

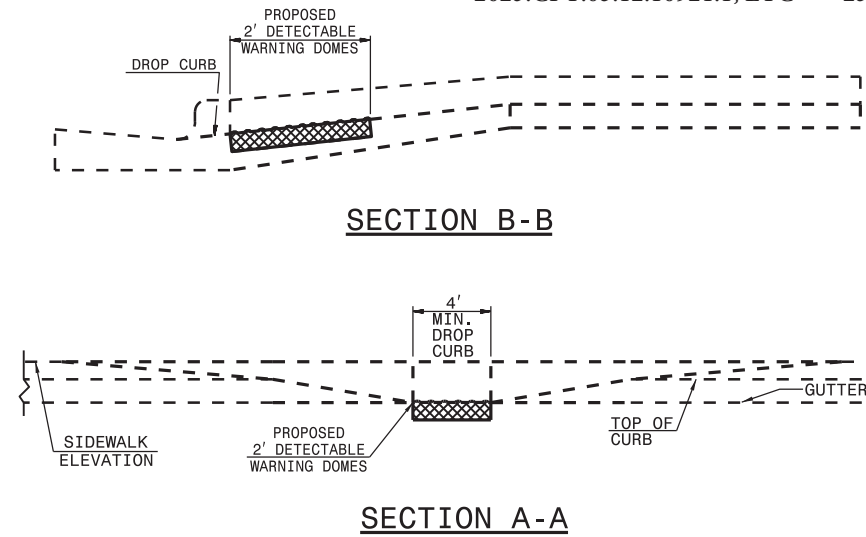
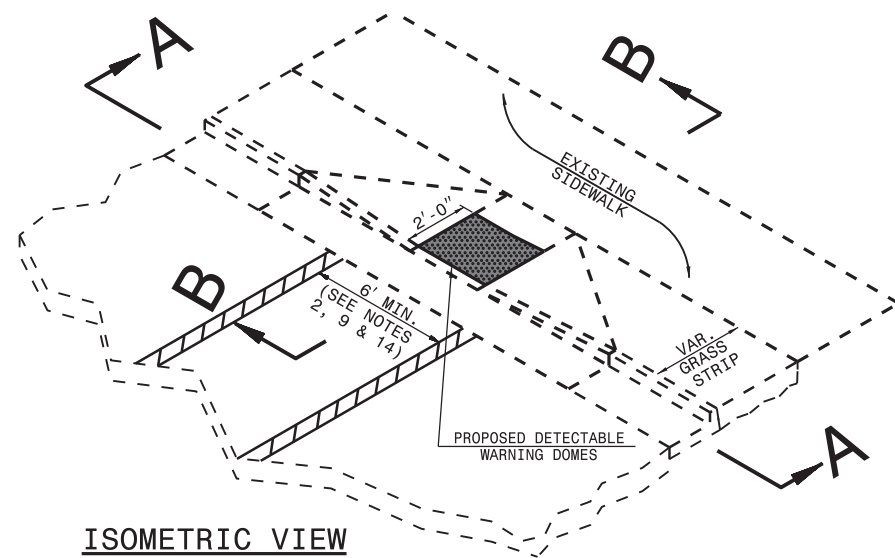
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC: sids/2012CurbRamp/CurbRampDetails.dgn



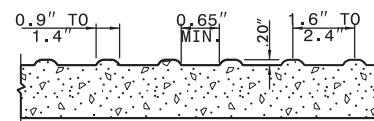
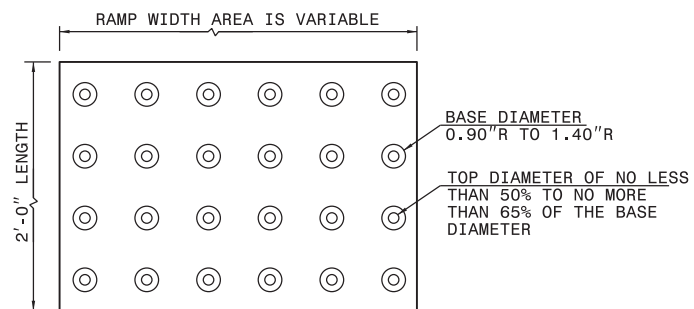
5/14/99
SYSTEM PERFORMANCE

RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP

2023.CPT.05.12.10921.1, ETC 23

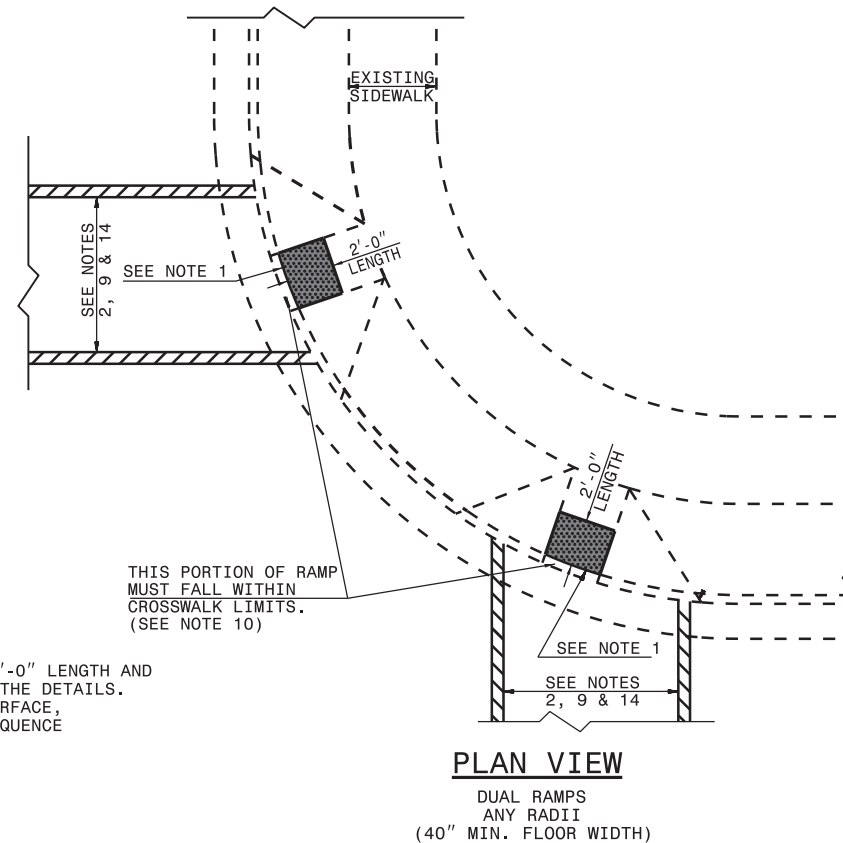


PAY LIMITS OF RETROFIT CURB RAMP



DETECTABLE WARNING DOMES

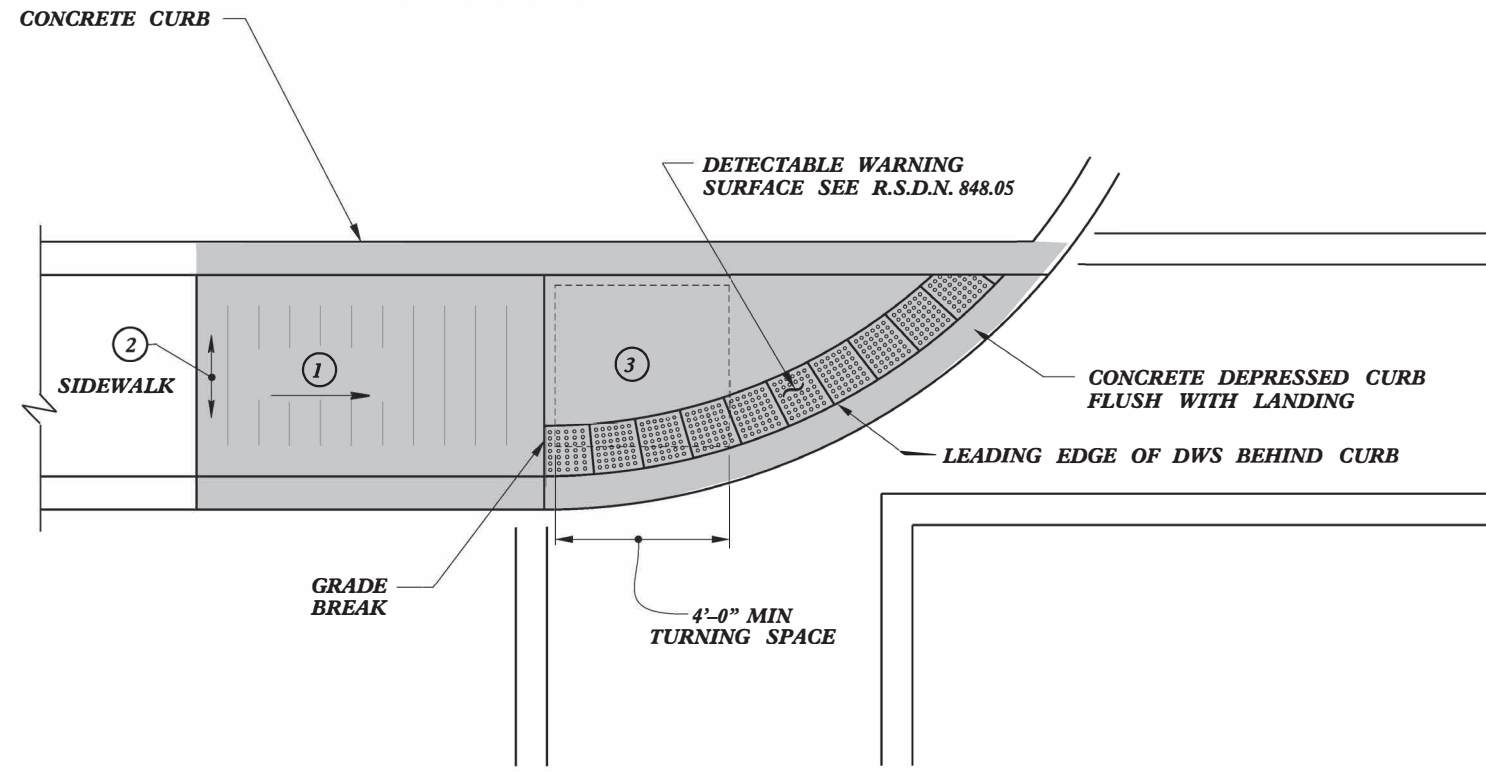
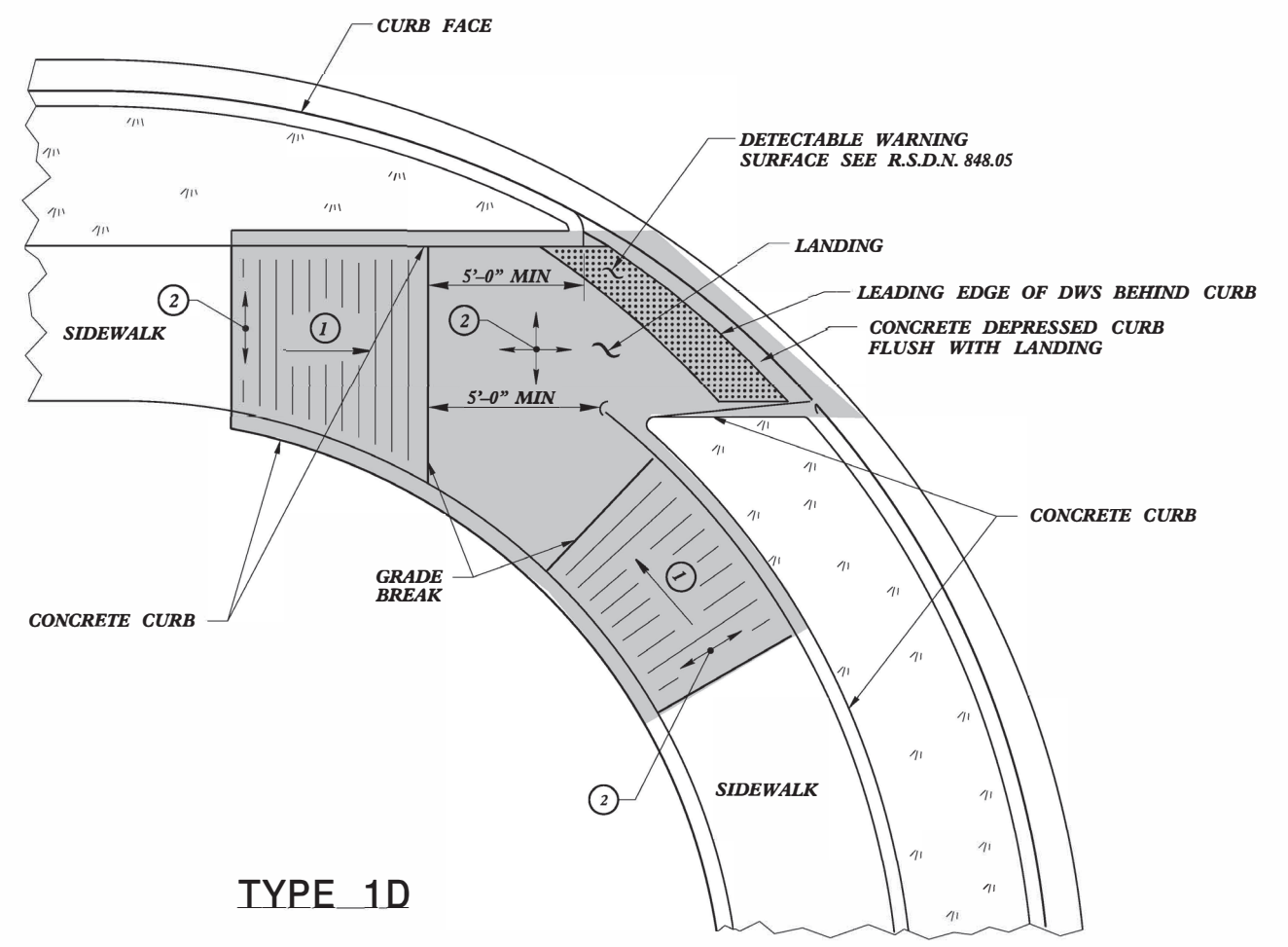
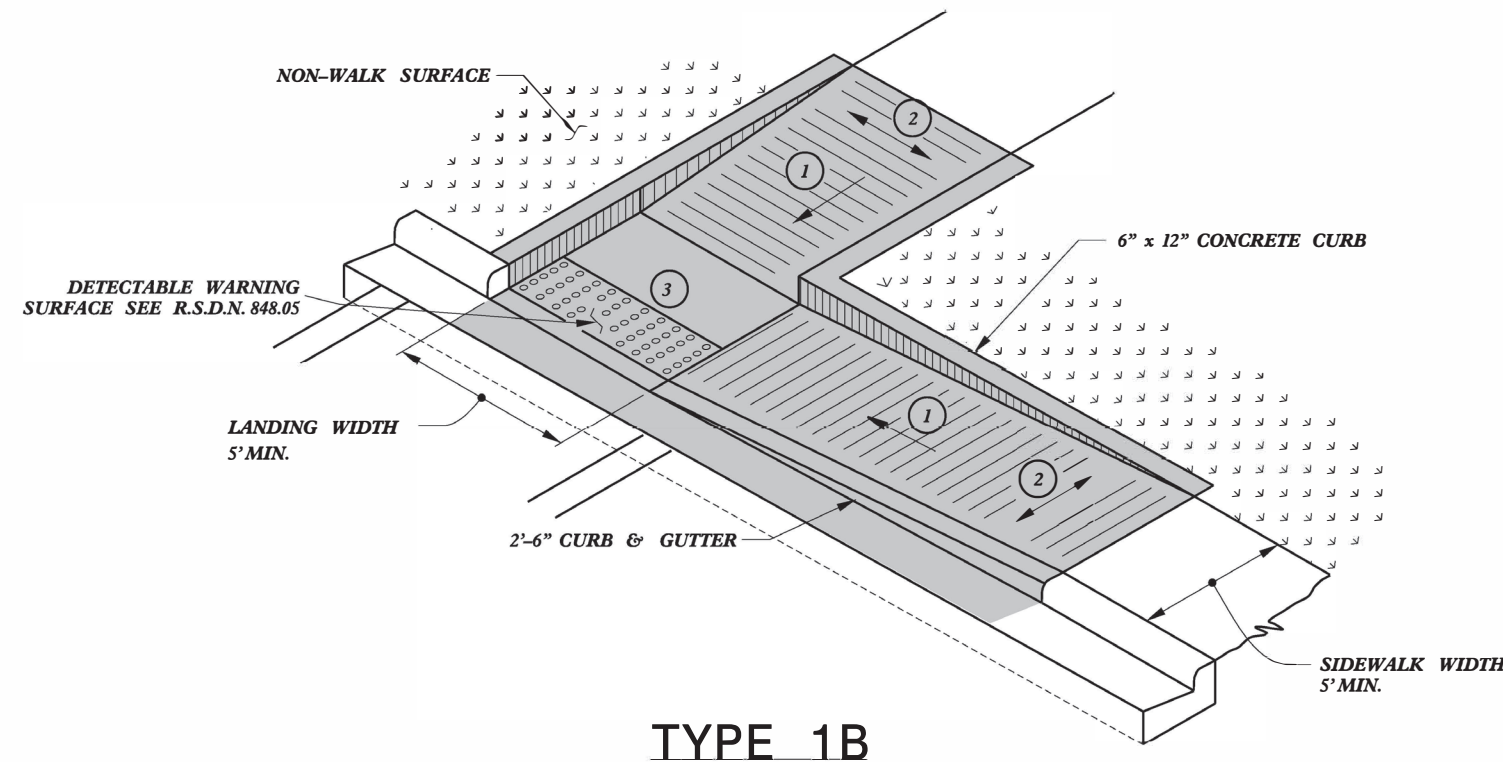
- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **CURB RAMP** EXISTING CURB AND GUTTER

SHEET 3 OF 5
848.06



- 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

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CURB RAMPS
 Directional Ramps

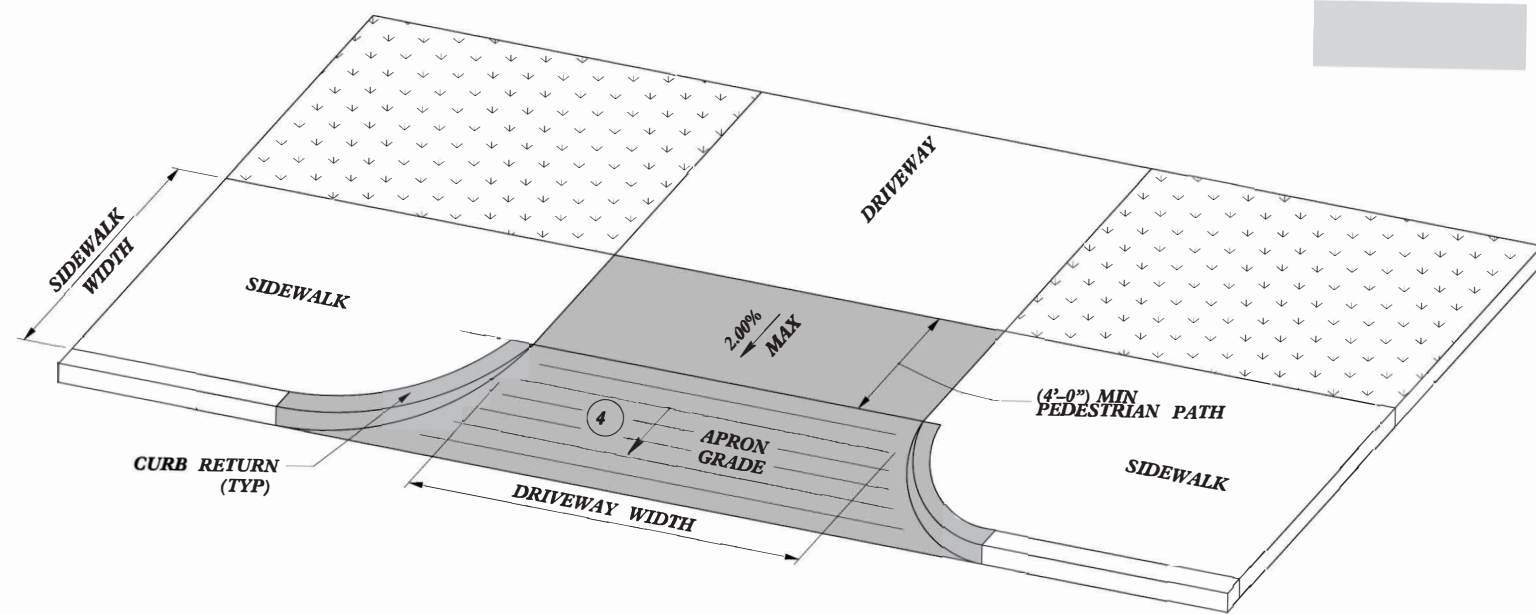
ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dwg

5/14/99

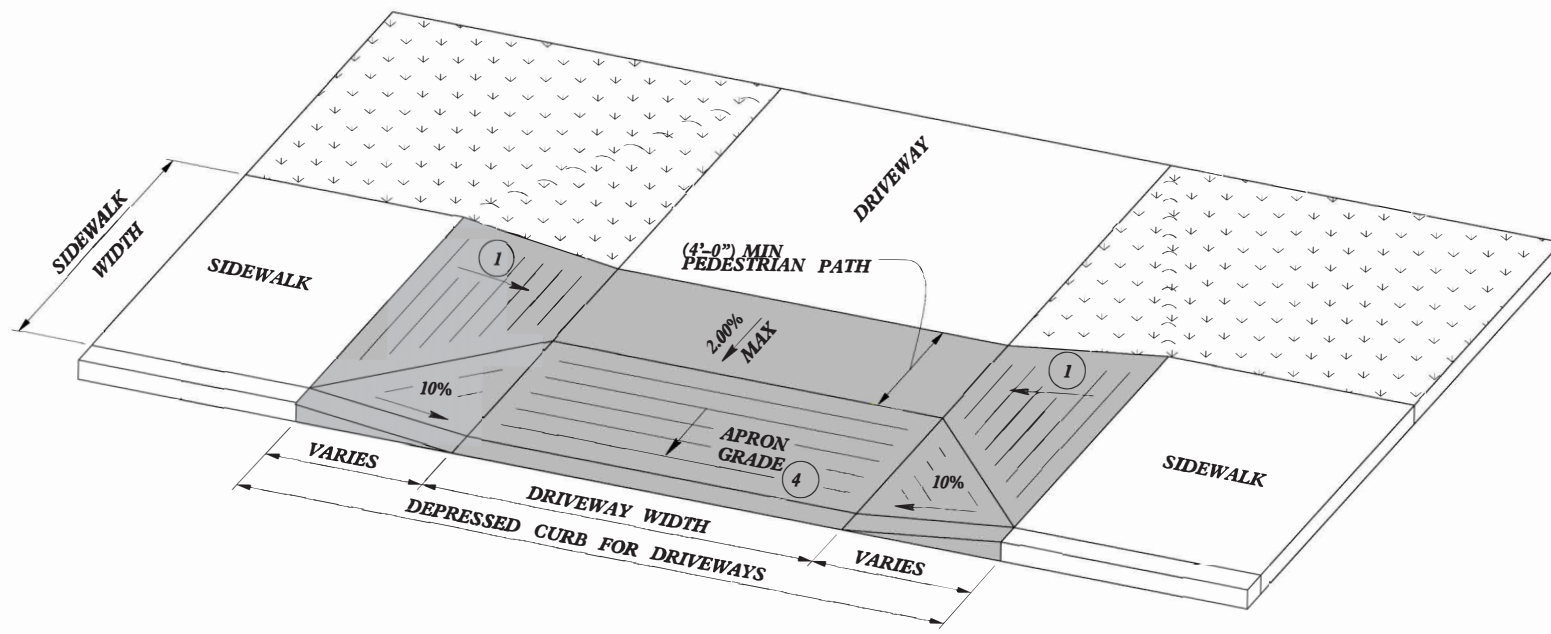
5/14/99

- 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
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CURB RAMPS
@ DRIVEWAY OPENINGS

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

SYSTEMS DESIGN CONSULTANTS

ADA SUMMARY OF QUANTITIES - NC 50 FROM/TO US 70 TO/FROM SR 1898

Municipality:	Raleigh
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.10921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 1	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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	
24850	1	NC-50 (Creedmoor Rd)	RMP-1203 (Creedmoor Rd To I 540 Ramp WB)				15																1	Remove Ramp
24851	1	NC-50 (Creedmoor Rd)	RMP-1203 (Creedmoor Rd To I 540 Ramp WB)				15																1	Remove Ramp
24852	1	NC-50 (Creedmoor Rd)	RMP-1203 (Creedmoor Rd To I 540 Ramp WB)													6							1	Remove Ramp
24853	1	NC-50 (Creedmoor Rd)	RMP-1203 (Creedmoor Rd To I 540 Ramp WB)													6							1	Remove Ramp
24854	1	NC-50 (Creedmoor Rd)	RMP-1203 (Creedmoor Rd To I 540 Ramp WB)													6							1	Remove Ramp
24855	1	NC-50 (Creedmoor Rd)	RMP-1202 (I 540 Exit 9 Ramp WB)				15																1	Remove Ramp
24856	1	NC-50 (Creedmoor Rd)	RMP-1203 (Creedmoor Rd To I 540 Ramp WB)		15																		1	Remove Ramp
24857	1	NC-50 (Creedmoor Rd)	RMP-1202 (I 540 Exit 9 Ramp WB)		15																		1	Remove Ramp
24839	2	NC-50 (Creedmoor Rd)	RMP-1201 (Creedmoor Rd To I 540 Ramp EB)				15																1	Remove Ramp
24840	2	NC-50 (Creedmoor Rd)	RMP-1201 (Creedmoor Rd To I 540 Ramp EB)													6							1	Remove Ramp
24841	2	NC-50 (Creedmoor Rd)	RMP-1201 (Creedmoor Rd To I 540 Ramp EB)													6							1	Remove Ramp
24842	2	NC-50 (Creedmoor Rd)	RMP-1200 (I 540 Exit 9 Ramp EB)		15																		1	Remove Ramp
24843	2	NC-50 (Creedmoor Rd)	RMP-1200 (I 540 Exit 9 Ramp EB)		15																		1	Remove Ramp
24844	2	NC-50 (Creedmoor Rd)	RMP-1200 (I 540 Exit 9 Ramp EB)				15																1	Remove Ramp
24845	2	NC-50 (Creedmoor Rd)	RMP-1200 (I 540 Exit 9 Ramp EB)				15																1	Remove Ramp
24846	2	NC-50 (Creedmoor Rd)	RMP-1200 (I 540 Exit 9 Ramp EB)				15																1	Remove Ramp
24847	2	NC-50 (Creedmoor Rd)	RMP-1201 (Creedmoor Rd To I 540 Ramp EB)				15																1	Remove Ramp
24848	2	NC-50 (Creedmoor Rd)	RMP-1201 (Creedmoor Rd To I 540 Ramp EB)				15																1	Remove Ramp
24849	2	NC-50 (Creedmoor Rd)	RMP-1201 (Creedmoor Rd To I 540 Ramp EB)													6							1	Remove Ramp
24829	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24830	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24831	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24832	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24833	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24834	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24835	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24836	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)				15																1	Remove Ramp
24837	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)													6							1	Remove Ramp
24838	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)													6							1	Remove Ramp
25364	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)													10							1	Remove Ramp
25367	3	NC-50 (Creedmoor Rd)	SR-1830 (Baileywick Rd)													10							1	Remove Ramp
24827	4	NC-50 (Creedmoor Rd)	SR-3358 (Sneedhall Ln)				15																1	Remove Ramp
24828	4	NC-50 (Creedmoor Rd)	SR-3358 (Sneedhall Ln)				15																1	Remove Ramp
24826	5	NC-50 (Creedmoor Rd)	SR-4210 (Gleneagles Dr)				15																1	Remove Ramp
24820	6	NC-50 (Creedmoor Rd)	SR-3289 (Southampton Dr)				15																1	Remove Ramp
24821	6	NC-50 (Creedmoor Rd)	SR-4210 (Gleneagles Dr)				15																1	Remove Ramp
24822	6	NC-50 (Creedmoor Rd)	SR-4210 (Gleneagles Dr)				15																1	Remove Ramp
24823	6	NC-50 (Creedmoor Rd)	SR-3289 (Southampton Dr)				15																1	Remove Ramp
24824	6	NC-50 (Creedmoor Rd)	SR-3289 (Southampton Dr)				15																1	Remove Ramp
24825	6	NC-50 (Creedmoor Rd)	SR-3289 (Southampton Dr)				15																1	Remove Ramp
24814	7	NC-50 (Creedmoor Rd)	SR-1875 (Camellia Dr)				15																1	Remove Ramp
24815	7	NC-50 (Creedmoor Rd)	SR-1875 (Camellia Dr)				15																1	Remove Ramp
24816	7	NC-50 (Creedmoor Rd)	SR-1875 (Camellia Dr)				15																1	Remove Ramp
24817	7	NC-50 (Creedmoor Rd)	SR-1875 (Camellia Dr)				15																1	Remove Ramp
Sub-Total				0	60	0	450	0	0	0	0	0	0	0	0	68	0	0	0	0	0	44		

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

ADA SUMMARY OF QUANTITIES - NC 50 FROM/TO US 70 TO/FROM SR 1898

Municipality:	Raleigh
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.10921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 1	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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	
24818	7	NC-50 (Creedmoor Rd)	SR-1875 (Camellia Dr)				15																1	Remove Ramp
24819	7	NC-50 (Creedmoor Rd)	SR-1875 (Camellia Dr)				15																1	Remove Ramp
16991	8	NC-50 (Creedmoor Rd)	Exxon (8400 Creedmoor Rd)						4	3										1				Type1Modified
16981	9	NC-50 (Creedmoor Rd)	Truist (8320 Creedmoor Rd)								3									1				Type 1C
16982	9	NC-50 (Creedmoor Rd)	Truist (8320 Creedmoor Rd)							4										1				Type7
16983	9	NC-50 (Creedmoor Rd)	Truist (8320 Creedmoor Rd)							4										1				Type7
16984	9	NC-50 (Creedmoor Rd)	Truist (8320 Creedmoor Rd)								3									1				Type 1C
16985	10	NC-50 (Creedmoor Rd)	Bowman Animal Hospital (8308 Creedmoor Rd)								3									1				Type1
16986	10	NC-50 (Creedmoor Rd)	Bowman Animal Hospital (8308 Creedmoor Rd)								3									1				Type 1C
6933	11	NC-50 (Creedmoor Rd)	Brennan Dr											1						1				Standard - 848.06
6936	11	NC-50 (Creedmoor Rd)	Bandford Way								3									1				Type 1C
16988	11	NC-50 (Creedmoor Rd)	Dental Arts (8304 Creedmoor Rd)								3									1				Type 1C
6960	12	NC-50 (Creedmoor Rd)	Business Center (8216 Creedmoor Rd) Creedmoor Rd Entrance								3									1				Type1Modified
6961	12	NC-50 (Creedmoor Rd)	Business Center (8216 Creedmoor Rd) Creedmoor Rd Entrance																	1				Type1Modified
6958	13	NC-50 (Creedmoor Rd)	Business Center Entrance (8210 NC-50)																	1				Type3Modified
6938	14	NC-50 (Creedmoor Rd)	Brennan Station (8107 Creedmoor Rd) Main Entrance							3										1				Type7
6939	14	NC-50 (Creedmoor Rd)	Brennan Station (8107 Creedmoor Rd) Main Entrance								3									1				Type 1C
6940	14	NC-50 (Creedmoor Rd)	Brennan Station (8107 Creedmoor Rd) Main Entrance								6									1				Type 1C
24809	14	NC-50 (Creedmoor Rd)	Brennan Station (8107 Creedmoor Rd) Main Entrance							2										1				Type7
24811	14	NC-50 (Creedmoor Rd)	Business Center Entrance (8116 Creedmoor Rd)								9													Other
6768	15	NC-50 (Creedmoor Rd)	Fonville Morisey (8100 Creedmoor Rd)								3									1				Type1Modified
6769	15	NC-50 (Creedmoor Rd)	Fonville Morisey (8100 Creedmoor Rd)								3									1				Type1Modified
6957	15	NC-50 (Creedmoor Rd)	Fonville Morisey (8100 Creedmoor Rd)	0.25		6											2							Other
6767	16	NC-50 (Creedmoor Rd)	Brennan Station (8103 Creedmoor Rd) South Entrance																	1				Type1Modified
6941	16	NC-50 (Creedmoor Rd)	Brennan Station (8103 Creedmoor Rd) South Entrance								6									1				Type1Modified
6764	17	NC-50 (Creedmoor Rd)	Lodestar Dr																	1				Type3Modified
6765	17	NC-50 (Creedmoor Rd)	Lodestar Dr				15			6													1	Remove Ramp
6766	17	NC-50 (Creedmoor Rd)	Lodestar Dr								3									1				Type 1D
6762	18	NC-50 (Creedmoor Rd)	Office Park (8025 Creedmoore Rd)								3									1				Type1Modified
6763	18	NC-50 (Creedmoor Rd)	Office Park (8025 Creedmoore Rd)								6									1				Type 1C
6760	19	NC-50 (Creedmoor Rd)	Office Park (8009 Creedmoor Rd)																	1				Type1Modified
6761	19	NC-50 (Creedmoor Rd)	Office Park (8009 Creedmoor Rd)																	1				Type1B
6759	20	NC-50 (Creedmoor Rd)	SR-3340 (Morgans Way)																	1				Type3Modified
24805	20	NC-50 (Creedmoor Rd)	Morgans Way																	1				Type3
25393	21	NC-50 (Creedmoor Rd)	Across from Falcon Rest Cir				26											13						Other
6756	22	NC-50 (Creedmoor Rd)	SR-1828 (Howard Rd)																	1				Standard - 848.06
6757	22	NC-50 (Creedmoor Rd)	SR-1828 (Howard Rd)								3									1				Standard - 848.06
6758	22	NC-50 (Creedmoor Rd)	SR-1828 (Bridgeport Dr)																	1				Standard - 848.06
6949	22	NC-50 (Creedmoor Rd)	SR-1828 (Bridgeport Dr)																	1				Type3Modified
6951	22	NC-50 (Creedmoor Rd)	SR-1828 (Bridgeport Dr)																	1				Standard - 848.06
6753	23	NC-50 (Creedmoor Rd)	Coastal Credit Union (7451 Creedmoor Rd) North East Entrance																	1				Type4B
Sub-Total				0.25	0	6	71	0	4	22	66	0	0	1	0	0	2	13	0	35	0	3		

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

ADA SUMMARY OF QUANTITIES - NC 50 FROM/TO US 70 TO/FROM SR 1898

Municipality:	Raleigh
	Outside Municipality
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.10921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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
6754	23	NC-50 (Creedmoor Rd)	Coastal Credit Union (7451 Creedmoor Rd) North East																	1			Type1Modified
6751	24	NC-50 (Creedmoor Rd)	Coastal Credit Union (7451 Creedmoor Rd) South East																	1			Type1B
6752	24	NC-50 (Creedmoor Rd)	Coastal Credit Union (7451 Creedmoor Rd) South East																	1			Type1Modified
6749	25	NC-50 (Creedmoor Rd)	Stonehenge Market Main Entrance (7498 Creedmoor				15															1	Remove Ramp
6750	25	NC-50 (Creedmoor Rd)	Stonehenge Market Main Entrance (7498 Creedmoor				15															1	Remove Ramp
6962	25	NC-50 (Creedmoor Rd)	Stonehenge Market Main Entrance (7498 Creedmoor							3											1		Type1Modified
6963	25	NC-50 (Creedmoor Rd)	Stonehenge Market Main Entrance (7498 Creedmoor							3											1		Type1Modified
6747	26	NC-50 (Creedmoor Rd)	Stonehenge Dr							3											1		Standard - 848.06
6748	26	NC-50 (Creedmoor Rd)	Stonehenge Dr																		1		Standard - 848.06
6964	26	NC-50 (Creedmoor Rd)	Stonehenge Dr							2											1		Standard - 848.06
6965	26	NC-50 (Creedmoor Rd)	Stonehenge Dr																		1		Standard - 848.06
6739	27	NC-50 (Creedmoor Rd)	Business Center (7200 Creedmoor Rd) North Entrance																		1		Type1Modified
6741	27	NC-50 (Creedmoor Rd)	Business Center (7200 Creedmoor Rd) North Entrance																		1		Type1Modified
6742	27	NC-50 (Creedmoor Rd)	Business Center Entrance (7209 Creedmoor Rd)																		1		Type1Modified
6743	27	NC-50 (Creedmoor Rd)	Business Center Entrance (7209 Creedmoor Rd)								3										1		Type1Modified
6734	28	NC-50 (Creedmoor Rd)	Business Center (7200 Creedmoor Rd) South Entrance																		1		Type1Modified
6735	28	NC-50 (Creedmoor Rd)	Business Center (7200 Creedmoor Rd) South Entrance																		1		Type1Modified
6736	28	NC-50 (Creedmoor Rd)	Business Center (7200 Creedmoor Rd) South Entrance																1				RetrofitWarnings
6737	28	NC-50 (Creedmoor Rd)	Office Park (7101 & 7201 Creedmoor Rd)								3										1		Type1Modified
6738	28	NC-50 (Creedmoor Rd)	Office Park (7101 & 7201 Creedmoor Rd)								3										1		Type4B
24804	28	NC-50 (Creedmoor Rd)	Business Center (7200 Creedmoor Rd) South Entrance																1				RetrofitWarnings
6725	29	NC-50 (Creedmoor Rd)	Good Shepherd Lutheran Church (7000 Creedmoor Rd) Back Entrance																		1		Type1Modified
6726	29	NC-50 (Creedmoor Rd)	Good Shepherd Lutheran Church (7000 Creedmoor Rd) Back Entrance																		1		Type1Modified
6715	30	NC-50 (Creedmoor Rd)	Village Grove Rd								6										1		Type 1C
6717	30	NC-50 (Creedmoor Rd)	Village Grove Rd								6										1		Type 1C
6701	31	NC-50 (Creedmoor Rd)	Mapleton Ln									12									1		Type 1C
6704	31	NC-50 (Creedmoor Rd)	Mapleton Ln									9									1		Type 1C
6699	32	NC-50 (Creedmoor Rd)	The Goddard School of Raleigh (6600 Creedmoor Rd)																		1		Type1Modified
6700	32	NC-50 (Creedmoor Rd)	The Goddard School of Raleigh (6600 Creedmoor Rd)																		1		Type4B
16996	33	NC-50 (Creedmoor Rd)	Creedmoor Commons Office Complex (6501 Creedmoor Rd)																		1		Type1Modified
16997	33	NC-50 (Creedmoor Rd)	Creedmoor Commons Office Complex (6501 Creedmoor Rd)																		1		Type3Modified
6697	34	NC-50 (Creedmoor Rd)	Business Center (6500 Creedmoor Rd) North Entrance								3										1		Type 1C
6698	34	NC-50 (Creedmoor Rd)	Business Center (6500 Creedmoor Rd) North Entrance				10			6												1	Remove Ramp
25395	34	NC-50 (Creedmoor Rd)	Business Center (6500 Creedmoor Rd) North Entrance						10													1	Type3Modified
6695	35	NC-50 (Creedmoor Rd)	Campus Dr				15			9												1	Remove Ramp
6696	35	NC-50 (Creedmoor Rd)	Campus Dr				20					18										1	Remove Ramp
25390	35	NC-50 (Creedmoor Rd)	Campus Dr						15			9										1	Type 1D
25389	35	NC-50 (Creedmoor Rd)	Campus Dr						20	18												1	Type 1C
6693	36	NC-50 (Creedmoor Rd)	Business Center (6500 Creedmoor Rd) South Entrance								3										1		Type 1C
6694	36	NC-50 (Creedmoor Rd)	Business Center (6500 Creedmoor Rd) South Entrance								3										1		Type 1C
Sub-Total				0	0	0	75	0	45	44	30	48	0	0	0	0	0	0	2	30	3	5	

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

ADA SUMMARY OF QUANTITIES - NC 50 FROM/TO US 70 TO/FROM SR 1898

Municipality:	Raleigh
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.10921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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
6687	37	NC-50 (Creedmoor Rd)	SR-1827 (Lynn Rd)							2										1			Standard - 848.06
6689	37	NC-50 (Creedmoor Rd)	SR-1827 (Lynn Rd)							2										1			Standard - 848.06
6690	37	NC-50 (Creedmoor Rd)	SR-1827 (Lynn Rd)																	1			Standard - 848.06
6691	37	NC-50 (Creedmoor Rd)	SR-1827 (Lynn Rd)																	1			Type3Modified
6692	37	NC-50 (Creedmoor Rd)	SR-1827 (Lynn Rd)																	1			Standard - 848.06
21254	38	NC-50 (Creedmoor Rd)	Circle K Gas Station (6317 Creedmoor Rd)																	1			Type 1C
21255	38	NC-50 (Creedmoor Rd)	Circle K Gas Station (6317 Creedmoor Rd)																	1			Type4B
21252	39	NC-50 (Creedmoor Rd)	Aldi (6300 Creedmoor Rd)																	1			Type 1C
21253	39	NC-50 (Creedmoor Rd)	Aldi (6300 Creedmoor Rd)																	1			Type 1C
21256	39	NC-50 (Creedmoor Rd)	Hinton St																	1			Type 1C
21257	39	NC-50 (Creedmoor Rd)	Hinton St				15															1	Remove Ramp
21258	39	NC-50 (Creedmoor Rd)	Hinton St				17															1	Remove Ramp
24800	39	NC-50 (Creedmoor Rd)	Hinton St																	1			Type3Modified
21250	40	NC-50 (Creedmoor Rd)	Public storage (6220 Creedmoor Rd)																	1			Type 1C
21251	40	NC-50 (Creedmoor Rd)	Public storage (6220 Creedmoor Rd)																	1			Type 1C
21247	41	NC-50 (Creedmoor Rd)	SR-1825 (Jeffreys Grove School Rd)																	1			Type3Modified
21248	41	NC-50 (Creedmoor Rd)	SR-1825 (Jeffreys Grove School Rd)				15															1	Remove Ramp
21249	41	NC-50 (Creedmoor Rd)	SR-1825 (Jeffreys Grove School Rd)												1					1			Type 1C
21261	42	NC-50 (Creedmoor Rd)	Coldwell Banker (6020 Creedmoor Rd)								3									1			Type 1C
21262	42	NC-50 (Creedmoor Rd)	Coldwell Banker (6020 Creedmoor Rd)																	1			Type 1C
21259	43	NC-50 (Creedmoor Rd)	Garden Gate Dental (6004 Creedmoor Rd)								3									1			Type 1C
21260	43	NC-50 (Creedmoor Rd)	Garden Gate Dental (6004 Creedmoor Rd)																	1			Type 1C
21228	44	NC-50 (Creedmoor Rd)	SR-1825 (Jeffreys Grove School Rd)								3									1			Type 1C
21229	44	NC-50 (Creedmoor Rd)	SR-1825 (Jeffreys Grove School Rd)				15															1	Remove Ramp
21232	44	NC-50 (Creedmoor Rd)	SR-1825 (Jeffreys Grove School Rd)				15															1	Remove Ramp
21233	44	NC-50 (Creedmoor Rd)	SR-1825 (Jeffreys Grove School Rd)																	1			Type 1C
21263	45	NC-50 (Creedmoor Rd)	Magellan Way								3									1			Type1Modified
21264	45	NC-50 (Creedmoor Rd)	Magellan Way								3									1			Type1Modified
21265	45	NC-50 (Creedmoor Rd)	Magnolia Place (5816 Creedmoor Rd)																	1			Type1Modified
21266	45	NC-50 (Creedmoor Rd)	Magnolia Place (5816 Creedmoor Rd)								3									1			Type1Modified
21267	46	NC-50 (Creedmoor Rd)	Old World Pl																	1			Type1Modified
21268	46	NC-50 (Creedmoor Rd)	Old World Pl								3									1			Type1Modified
21269	46	NC-50 (Creedmoor Rd)	Office Park (5720 Creedmoor Rd)																	1			Type1B
21270	46	NC-50 (Creedmoor Rd)	Office Park (5720 Creedmoor Rd)																	1			Type1Modified
6791	47	NC-50 (Creedmoor Rd)	Fidelity Bank (5700 Creedmoor Rd)								3									1			Type1Modified
6798	47	NC-50 (Creedmoor Rd)	Carolinas Telco Federal Credit Union (5712 Creedmoor Rd) South Entrance								3									1			Type1Modified
6799	47	NC-50 (Creedmoor Rd)	Carolinas Telco Federal Credit Union (5712 Creedmoor Rd) South Entrance								6									1			Type1Modified
6820	47	NC-50 (Creedmoor Rd)	Carolinas Telco Federal Credit Union (5712 Creedmoor Rd) North Entrance								3									1			Type1Modified
6822	47	NC-50 (Creedmoor Rd)	Carolinas Telco Federal Credit Union (5712 Creedmoor Rd) North Entrance								3									1			Type 1C
19445	48	NC-50 (Creedmoor Rd)	SR-1822 (W Millbrook Rd)											1	1	0	0	0	0	35	0	5	Standard - 848.06

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

ADA SUMMARY OF QUANTITIES - NC 50 FROM/TO US 70 TO/FROM SR 1898

Municipality:	Raleigh
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.10921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 2	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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	
19454	48	NC-50 (Creedmoor Rd)	SR-1822 (W Millbrook Rd)																1				RetrofitWarnings	
6782	49	NC-50 (Creedmoor Rd)	SR-1822 (W Millbrook Rd)																		1			Type3Modified
6783	49	NC-50 (Creedmoor Rd)	SR-1822 (W Millbrook Rd)								3										1			Type1Modified
21271	50	NC-50 (Creedmoor Rd)	Creedmoor Crossings (5633 Creedmoor Rd)								3		1								1			Type1Modified
21272	50	NC-50 (Creedmoor Rd)	Creedmoor Crossings (5633 Creedmoor Rd)																		1			Type1Modified
21274	51	NC-50 (Creedmoor Rd)	Plaza Pl																		1			Standard - 848.06
21280	52	NC-50 (Creedmoor Rd)	The Pointe at Creedmoor (2051 W Millbrook Rd) One way Entrance																		1			Type 1C
21281	53	NC-50 (Creedmoor Rd)	North Carolina Licensing Board for Contractors (5400 Creedmoor Rd)								3										1			Type1B
21282	53	NC-50 (Creedmoor Rd)	North Carolina Licensing Board for Contractors (5400 Creedmoor Rd)								3										1			Type1B
21283	54	NC-50 (Creedmoor Rd)	Temple Beth Or Synagogue (5315 Creedmoor Rd)								6										1			Type1B
21284	54	NC-50 (Creedmoor Rd)	Temple Beth Or Synagogue (5315 Creedmoor Rd)																		1			Type1Modified
21285	55	NC-50 (Creedmoor Rd)	Magnolia Glen (5301 Creedmoor Rd) North Entrance																1					RetrofitWarnings
21286	55	NC-50 (Creedmoor Rd)	Magnolia Glen (5301 Creedmoor Rd) North Entrance																1					RetrofitWarnings
21291	55	NC-50 (Creedmoor Rd)	Sherborne Pl																		1			Type1Modified
21292	55	NC-50 (Creedmoor Rd)	Sherborne Pl								3										1			Type1Modified
21287	55	NC-50 (Creedmoor Rd)	Sherborne to Magnolia Glen Crossing (5307 Creedmoor Rd)																		1			Type3
21290	55	NC-50 (Creedmoor Rd)	Sherborne to Magnolia Glen Crossing (5307 Creedmoor Rd)																		1			Type3
21293	56	NC-50 (Creedmoor Rd)	Magnolia Glen (5301 Creedmoor Rd) South Entrance																1					RetrofitWarnings
21294	56	NC-50 (Creedmoor Rd)	Magnolia Glen (5301 Creedmoor Rd) South Entrance								3										1			Type1A
21295	57	NC-50 (Creedmoor Rd)	Manassa Pope Ln				18			9												1		Remove Ramp
21296	57	NC-50 (Creedmoor Rd)	Manassa Pope Ln																		1			Type3Modified
21297	57	NC-50 (Creedmoor Rd)	Manassa Pope Ln																		1			Type3Modified
21298	57	NC-50 (Creedmoor Rd)	Manassa Pope Ln				18			9												1		Remove Ramp
21305	58	NC-50 (Creedmoor Rd)	Tall Timber Dr																		1			Type1B
21306	58	NC-50 (Creedmoor Rd)	Tall Timber Dr								6										1			Type1Modified
25361	58	NC-50 (Creedmoor Rd)	Tall Timber Dr				5			3												1		Remove Ramp
21307	59	NC-50 (Creedmoor Rd)	Isabella Cannon Dr								3				1						1			Type1Modified
21308	59	NC-50 (Creedmoor Rd)	Isabella Cannon Dr																		1			Type2
21301	60	NC-50 (Creedmoor Rd)	Benson Memorial United Methodist Church (4706 Creedmoor Rd)								3										1			Type1Modified
21302	60	NC-50 (Creedmoor Rd)	Benson Memorial United Methodist Church (4706 Creedmoor Rd)																		1			Type1Modified
21299	61	NC-50 (Creedmoor Rd)	Marriott Dr																		1			Type1Modified
21300	61	NC-50 (Creedmoor Rd)	Marriott Dr																		1			Type1Modified
21309	61	NC-50 (Creedmoor Rd)	The Container Store (4601 Creedmoor Rd) Back Entrance				10			6												1		Remove Ramp
21310	61	NC-50 (Creedmoor Rd)	The Container Store (4601 Creedmoor Rd) Back Entrance																	1				RetrofitWarnings
25388	61	NC-50 (Creedmoor Rd)	The Container Store (4601 Creedmoor Rd) Back Entrance						18			10										1		Type2B
Sub-Total				0	0	0	51	0	18	27	36	10	1	0	1	0	0	0	5	25	1	4		
Sub-Total for NC 50 From/To US 70 To/From SR 1898				0.25	60	6	724	0	67	97	171	58	1	2	2	68	2	13	7	125	4	61		

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

ADA SUMMARY OF QUANTITIES - JEFFREYS GROVE SCHOOL RD FROM NC 50 TO NC 50

Municipality:	Raleigh
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 1	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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
21245	1	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) North Entrance								3									1			Type 1C
21246	1	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) North Entrance								3									1			Type 1C
21243	2	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) North Pull through Entrance								3									1			Type 1C
21244	2	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) North Pull through Entrance																	1			Type1Modified
21239	3	SR-1825 (Jeffreys Grove School Rd)	Eddystone Rd				10			9												1	Remove Ramp
21240	3	SR-1825 (Jeffreys Grove School Rd)	Eddystone Rd																	1			Type3Modified
21241	3	SR-1825 (Jeffreys Grove School Rd)	Eddystone Rd								3									1			Type3Modified
21242	3	SR-1825 (Jeffreys Grove School Rd)	Eddystone Rd				10			9												1	Remove Ramp
21236	4	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) South Pull through Entrance								6				1					1			Type2B
21237	4	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) South Pull through Entrance																	1			Type1Modified
21238	4	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) South Pull through Crossing								6									1			Type3
21234	5	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) South Entrance								3									1			Type 1C
21235	5	SR-1825 (Jeffreys Grove School Rd)	Jeffery's Grove Elementary School (6119 Creedmoor Rd) South Entrance								3									1			Type 1C
Sub-Total for Jeffreys Grove School Rd From NC 50 To NC 50				0	0	0	20	0	0	18	30	0	0	0	1	0	0	0	0	11	0	2	

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

ADA SUMMARY OF QUANTITIES - PONDEROSA RD FROM SR 1825 TO SR 1822

Municipality:	Raleigh
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 1	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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		
21222	1	SR-1850 (Ponderosa Rd)	Saint Agnes Way				15			9													1	Remove Ramp	
21223	1	SR-1850 (Ponderosa Rd)	Saint Agnes Way					5			3			1							1			1	Type3Modified
25363	2	SR-1850 (Ponderosa Rd)	Battleford Dr				15																	1	Remove Ramp
21218	3	SR-1850 (Ponderosa Rd)	Windcove Pl								3										1				Type1Modified
21219	3	SR-1850 (Ponderosa Rd)	Windcove Pl				15																	1	Remove Ramp
21220	3	SR-1850 (Ponderosa Rd)	Windcove Pl				15																	1	Remove Ramp
21221	3	SR-1850 (Ponderosa Rd)	Windcove Pl																		1				Type1Modified
21216	4	SR-1850 (Ponderosa Rd)	Windberry St				15																	1	Remove Ramp
21217	4	SR-1850 (Ponderosa Rd)	Windberry St								3										1				Type1Modified
Sub-Total for Ponderosa Rd From SR 1825 To SR 1822				0	0	0	75	5	0	9	9	0	0	1	0	0	0	0	0	4	0	5			

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

ADA SUMMARY OF QUANTITIES - MT HERMAN RD FROM SR 3100 TO END MAINT

Municipality:	Raleigh
Project Number:	2024 NC 50
WBS Number:	2023CPT.05.12.20921.1
County:	Wake

Ramp ID	Inset Map Number	Route 1	Route 1	1704000000-E (TON) Patching Existing Pavement	2542000000-E (LF) 1'-6" Concrete Curb & Gutter	2535000000-E (LF) 8"X6" Concrete Curb & Gutter	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	4116100000-N (EA) Relocate Sign Type E	2655000000-E (SY) 5" Monolithic Concrete Island	2738000000-E (SY) Remove Island	2738000000-E (SY) Remove Driveway Apron	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
2254	1	SR-1646 (Mt Herman Rd)	Acc Blvd																	1			Type 1C
2255	1	SR-1646 (Mt Herman Rd)	SR-3100 (Acc Blvd)																	1			Type 1D
13000	2	SR-1646 (Mt Herman Rd)	Triangle Grading and Paving (7429 ACC Blvd) Mt Herman Rd Entrance																	1			Type1Modified
13001	2	SR-1646 (Mt Herman Rd)	Triangle Grading and Paving (7429 ACC Blvd) Mt Herman Rd Entrance									3									1		Type1Modified
13002	2	SR-1646 (Mt Herman Rd)	Triangle Plastics Inc. (6435 Mt Herman Rd)																	1			Type1Modified
13003	2	SR-1646 (Mt Herman Rd)	Triangle Plastics Inc. (6435 Mt Herman Rd)								3									1			Type1Modified
13009	3	SR-1646 (Mt Herman Rd)	Long Brothers Landscaping (6460 Mt Herman Rd)																	1			Type 1C
13010	3	SR-1646 (Mt Herman Rd)	Long Brothers Landscaping (6460 Mt Herman Rd)																	1			Type 1C
13006	4	SR-1646 (Mt Herman Rd)	Executive Signs and Graphics (6508 Mt Herman Rd) North Entrance								3									1			Type1Modified
13007	4	SR-1646 (Mt Herman Rd)	Executive Signs and Graphics (6508 Mt Herman Rd) North Entrance							2				1						1			Type1Modified
13004	5	SR-1646 (Mt Herman Rd)	Executive Signs and Graphics (6508 Mt Herman Rd) South Entrance									6										1	Remove Ramp
13005	5	SR-1646 (Mt Herman Rd)	Executive Signs and Graphics (6508 Mt Herman Rd) South Entrance									3									1		Type1Modified
Sub-Total for Mt Herman Rd From SR 3100 To END MAINT				0	0	0	0	0	0	2	6	12	0	1	0	0	0	0	0	9	2	1	

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

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.12.10921.1, 2023CPT.05.12.20921.1	34	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1260000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E	2535000000-E	2542000000-E	2549000000-E	2591000000-E	2605000000-N		
											AGGREGATE SHOULDER BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1½" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	8" X 6" CONCRETE CURB	1'-6" CURB & GUTTER	2'-6" CURB & GUTTER	4" CONCRETE SIDEWALK	CONCRETE CURB RAMP		
											TONS	TONS	SMI	SY	SY	SY	TONS	TONS	TON	TONS	LF	LF	LF	SY	EA		
2023CPT.05.12.10921.1	Wake	1	NC-50	SR 1898 (BEECHNUT TRL) TO US 70	1	4	NO	NO	10.039	36-48				194,360													
TOTAL FOR PROJ NO. 2023CPT.05.12.10921.1									10.039				194,360				17,209	1,037	90	6.00	60	724	97	4			
2023CPT.05.12.20921.1	Wake	2	JEFFREYS GROVE SCHOOL RD SR 1825	NC-50 TO NC-50	2	2	NO	NO	0.472	30				9,760			811		55	10				20	18		
	Wake	3	PONDEROSA RD. SR 1850	SR 1825 (JEFFREYS GROVE SCHOOL RD) TO SR 1822 (W. MILLBROOK RD.)	3	2	NO	NO	0.415	22-37	54	14.5	0.58		1,315	580	716		34	20				75	9		
	Wake	4	MT. HERMAN RD. SR 1646	SR 3100 (ACC BLVD) TO EOM	2	2	NO	NO	0.335	21				6,565			546		37	10				2	2		
TOTAL FOR PROJ NO. 2023CPT.05.12.20921.1									1.222		54	14.50	0.58	16,325	1,315	580	2,073		126	40			95	29	2		
GRAND TOTAL									11.261		54	14.5	0.58	210,685	1,315	580	2,073		17,209	1,163	130	6.00	60	819	126	6	

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.12.10921.1, 2023CPT.05.12.20921.1	35	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	2613000000-N	2655000000-E	2738000000-E			2738000000-E	2752000000-E		2759000000-N		2830000000-N	2845000000-N	4102000000-N	4116100000-N	5255000000-N	7444000000-E	4600000000-N	
											REMOVE AND REPLACE CURB RAMPS	5" MONOLITHIC CONCRETE ISLANDS	REMOVE DRIVEWAY APRON	REMOVE AND REPLACE SIDEWALK	REMOVE ISLAND	REMOVE SIDEWALK	REMOVE CURB & GUTTER	REMOVE AND REPLACE C&G	REMOVE CURB RAMP	RETROFIT CURB RAMP DETECTABLE WARNINGS	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	SIGN ERECTION, TYPE E	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (E)	PORTABLE LIGHTING	INDUCTIVE LOOP SAWCUT	GENERIC TRAFFIC CONTROL ITEM PEDESTRIAN TRANSPORT SERVICE	GENERIC TRAFFIC CONTROL ITEM AUDIBLE WARNING DEVICES
											EA	SY	SY	SY	SY	SY	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
2023CPT.05.12.10921.1	Wake	1	NC-50	SR 1898 (BEECHNUT TRL) TO US 70	1	4	NO	NO	10.039	36-48	125	68	13	171	2	58	67	61	7	6	4		2.00	1.00	11,460	40	13	
TOTAL FOR PROJ NO. 2023CPT.05.12.10921.1									10.039		125	68	13	171	2	58	67	61	7	6	4		2.00	1.00	11,460	40	13	
2023CPT.05.12.20921.1	Wake	2	JEFFREYS GROVE SCHOOL RD SR 1825	NC-50 TO NC-50	2	2	NO	NO	0.472	30	11							5	2				1.00					
	Wake	3	PONDEROSA RD. SR 1850	SR 1825 (JEFFREYS GROVE SCHOOL RD) TO SR 1822 (W. MILLBROOK RD.)	3	2	NO	NO	0.415	22-37	4							5	5			1	4.00				10	2
	Wake	4	MT. HERMAN RD. SR 1646	SR 3100 (ACC BLVD) TO EOM	2	2	NO	NO	0.335	21	9				6		12			1		1						
TOTAL FOR PROJ NO. 2023CPT.05.12.20921.1									1.222		24			45		12		10	8		2	4.00	1.00			10	2	
GRAND TOTAL									11.261		149	68	13	216	2	70	67	10	69	7	6	6	4.00	3.00	1.00	11,460	50	15

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.12.10921.1, 2023CPT.05.12.20921.1	36	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4685000000-E		4688000000-E	4695000000-E	4700000000-E	4720000000-E			4725000000-E				
									WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	6" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	12" X 90 M YELLOW THERMO	THERMO MSG SCHOOL 90 M	THERMO MSG BUS 90 M	THERMO MSG ONLY 90 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & RT ARROW 90 M	
									SF	LS	HR	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	
2023CPT.05.12.10921.1	Wake	1	NC-50	SR 1898 (BEECHNUT TRL) TO US 70	1	4	10.039	36-48	1,124	*	480	52,445	400	735	710	300	12	36	36	87	68	68	18	
TOTAL FOR PROJ NO. 2023CPT.05.12.10921.1							10.039		1,124	1.00	480.00	52,445	400	735	710	300	12	36	36	87	68	68	18	
												52,845						84			241			
2023CPT.05.12.20921.1	Wake	2	JEFFREYS GROVE SCHOOL RD SR 1825	NC-50 TO NC- 50	2	2	0.472	30	53	*		3,410	4,494				6			2	2			
	Wake	3	PONDEROSA RD. SR 1850	SR 1825 (JEFFREYS GROVE SCHOOL RD) TO SR 1822 (W. MILLBROOK RD.)	3	2	0.415	22-37	31				2,180	3,490										
	Wake	4	MT. HERMAN RD. SR 1646	SR 3100 (ACC BLVD) TO EOM	2	2	0.335	21	38															
TOTAL FOR PROJ NO. 2023CPT.05.12.20921.1							1.222		122	1.00		5,590	7,984				6			2	2			
												13,574						6			4			
GRAND TOTAL							11.261		1,246	1.00	480.00	58,035	8,384	735	710	300	18	36	36	89	70	68	18	
												66,419						90			245			

PROJECT NO.	SHEET NO.	TOTAL NO.
2023CPT.05.12.10921.1, 2023CPT.05.12.20921.1	37	

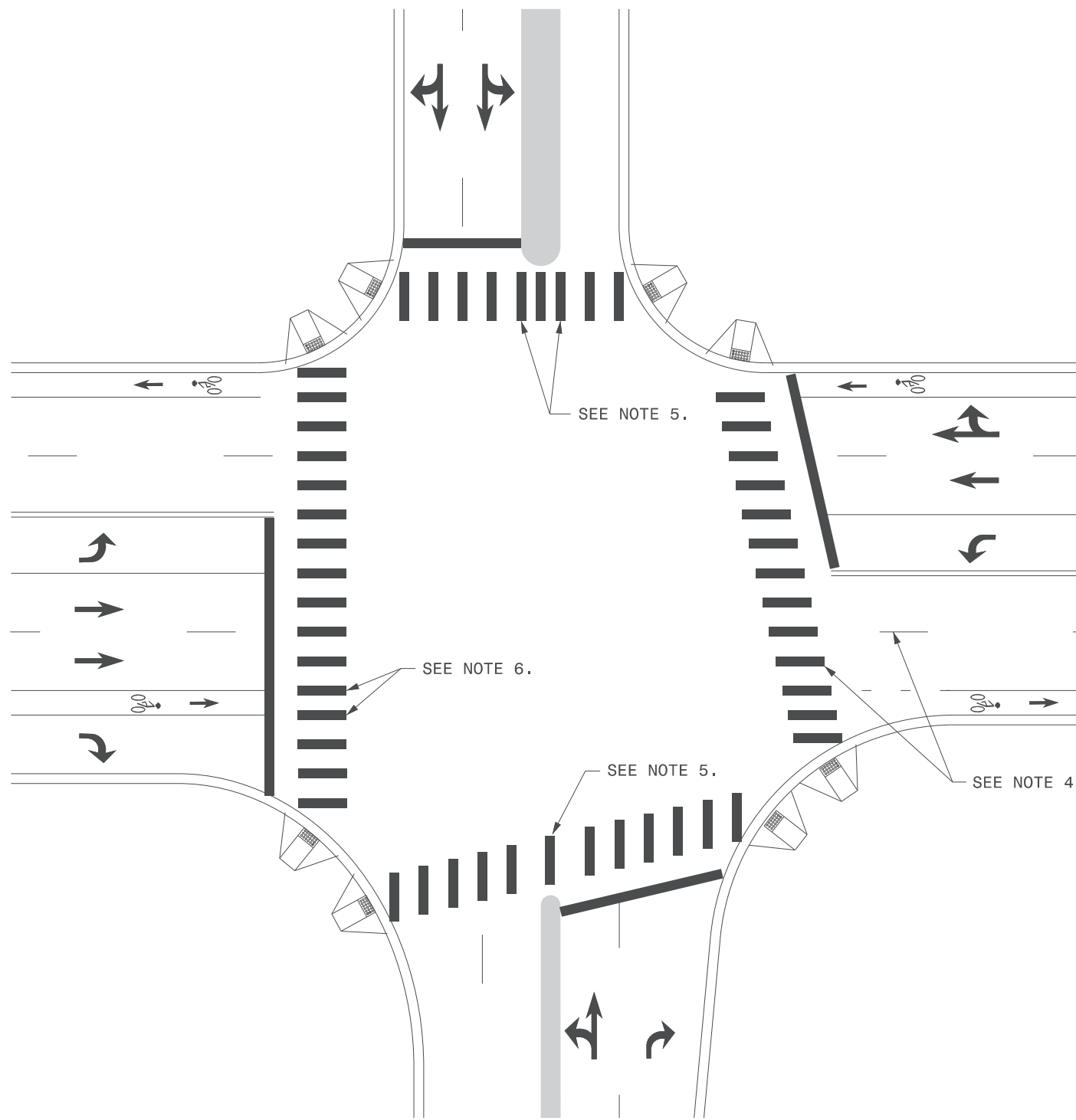
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4810000000-E					4835000000-E				4840000000-N				4845000000-N				470900000-N	4905100000-N	4447000000-E
									4" WHITE PAINT	4" YELLOW PAINT	6" YELLOW PAINT	8" WHITE PAINT	12" YELLOW PAINT	24" WHITE PAINT	PAINT MSG SCHOOL	PAINT MSG ONLY	PAINT MSG LANE	PAINT MSG BUS	PAINT LT ARROW	PAINT RT ARROW	PAINT STR ARROW	PAINT STR & RT ARROW	24" X 90 M WHITE THERMO	NON CAST IRON SNOW PLOWABLE MARKERS	PEDESTRIAN CHANNELIZING DEVICES			
									MI	FT	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
2023CPT.05.12.10921.1	Wake	1	NC-50	SR 1898 (BEECHNUT TRL) TO US 70	1	4	10.039	36-48	52,445	400	735	710	300	100	12	36	12	36	87	68	68	18	100	2,650	160			
TOTAL FOR PROJ NO. 2023CPT.05.12.10921.1									52,445	400	735	710	300	100	12	36	12	36	87	68	68	18	100	2,650	160			
									52,845		96						241											
2023CPT.05.12.20921.1	Wake	2	JEFFREYS GROVE SCHOOL RD SR 1825	NC-50 TO NC-50	2	2	0.472	30															130		60			
	Wake	3	PONDEROSA RD. SR 1850	SR 1825 (JEFFREYS GROVE SCHOOL RD) TO SR 1822 (W. MILLBROOK RD.)	3	2	0.415	22-37															16					
	Wake	4	MT. HERMAN RD. SR 1646	SR 3100 (ACC BLVD) TO EOM	2	2	0.335	21																				
TOTAL FOR PROJ NO. 2023CPT.05.12.20921.1									1.222															146		60		
									52,845		96						241											
GRAND TOTAL							11.261		52,445	400	735	710	300	100	12	36	12	36	87	68	68	18	246	2,650	220			
									52,845		96						241											

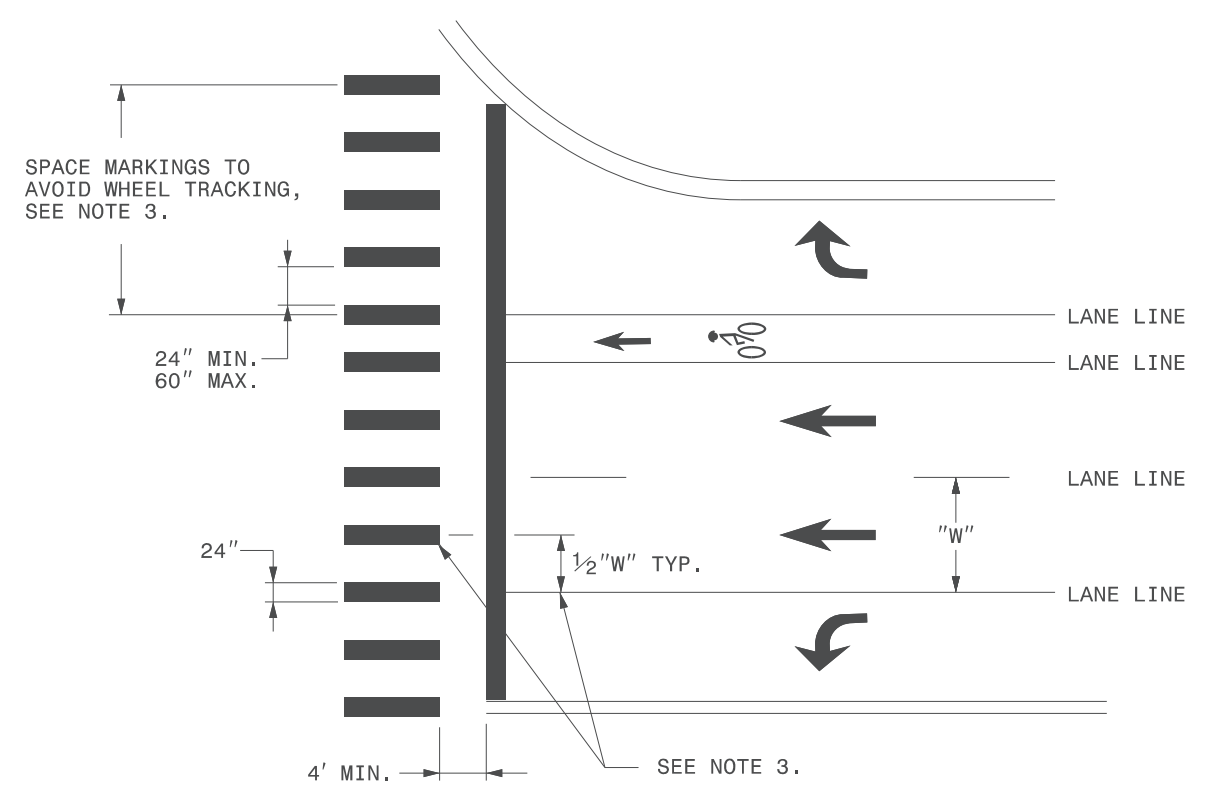
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

5-18

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
HI-VISIBILITY CROSSWALKS
NO-TRACK MARKING GUIDANCE



CROSSWALK INTERSECTION DETAIL



CROSSWALK MARKING DETAIL

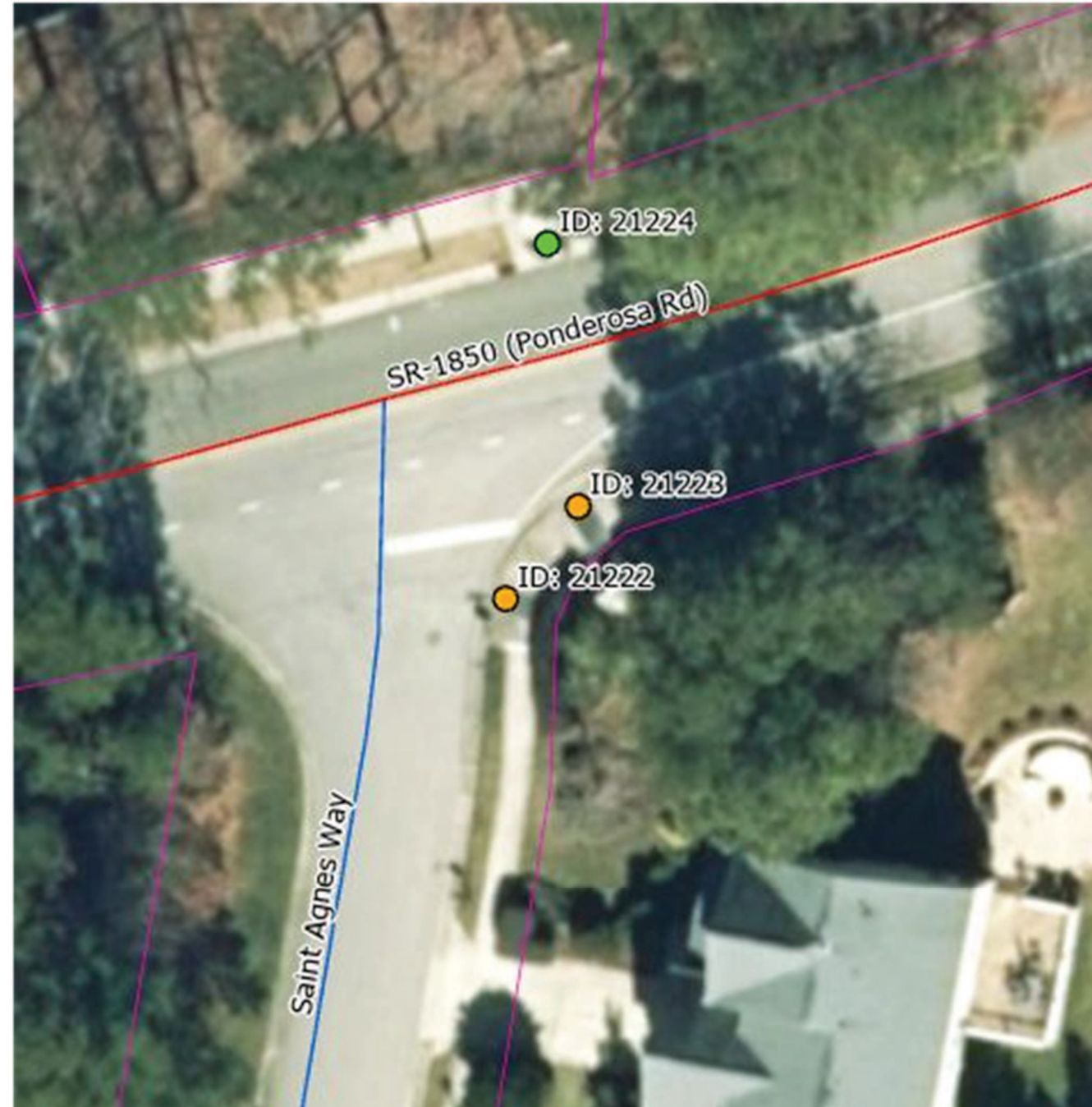
GENERAL NOTES:

- 1- THE GUIDANCE IN THIS DETAIL IS TO BE USED WHEN NO-TRACK SPACING OF HI-VISIBILITY MARKINGS IS REQUESTED.
- 2- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH PAVEMENT MARKING GUIDANCE SHOWN ON ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.07.
- 3- PLACE MARKINGS TO AVOID WHEELPATH OF VEHICLES. MARKINGS TYPICALLY WILL BE LOCATED CENTERED AT THE LANE LINES AND EDGE LINES WITH ONE ADDITIONAL MARKING CENTERED IN THE MIDDLE OF THE LANE. AT WIDE LANE WIDTHS DUE TO TAPERS AND LARGE RADII, LOCATE MARKINGS AT BEST SPACING TO AVOID WHEEL TRACKING. THE SPACE BETWEEN MARKINGS SHALL NOT BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.
- 4- WHERE THE CROSSWALK IS SKEWED TO THE LANE LINES, THE MARKINGS SHOULD BE PARALLEL TO THE LANE LINES.
- 5- PLACE MARKINGS ON BOTH EDGES OF THE NOSE OF A MEDIAN. FOR NARROW MEDIANS LESS THAN 4 FEET, A SINGLE MARKING MAY BE USED. FOR WIDE MEDIANS, INSTALL ADDITIONAL MARKINGS IN THE MEDIAN AREA. THE SPACE BETWEEN THE MARKINGS SHALL NOT TO BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.
- 6- LOCATE MARKINGS CENTERED ON BICYCLE LANE LINES. MARKINGS SHALL NOT BE LOCATED IN THE CENTER OF THE BICYCLE PATH.

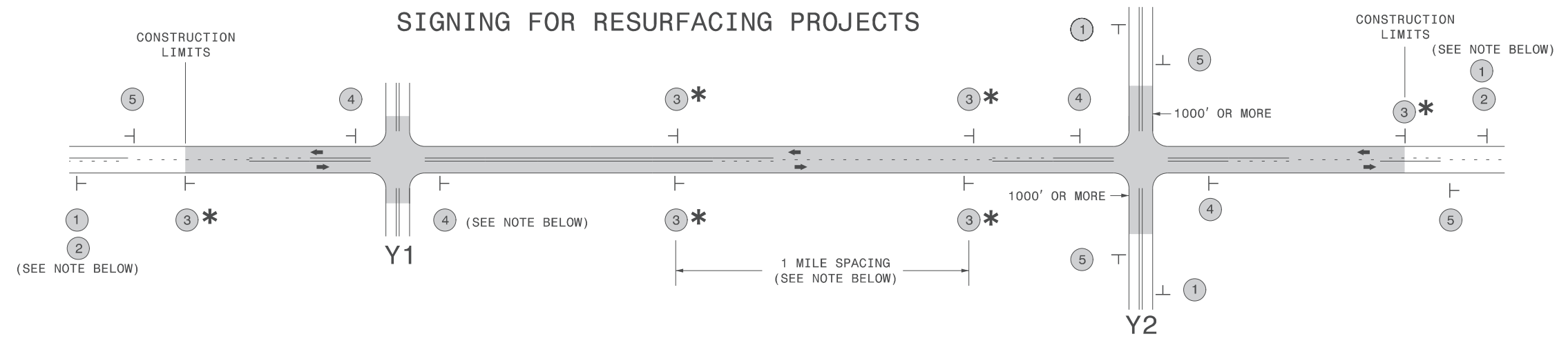
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

5-18

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
HI-VISIBILITY CROSSWALKS
NO-TRACK MARKING GUIDANCE



HI-VISIBILITY CROSSWALK PAVEMENT MARKINGS TO BE PLACE BETWEEN ID-21223-ID-21224



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, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2		#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 *		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		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		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	

*** SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)**

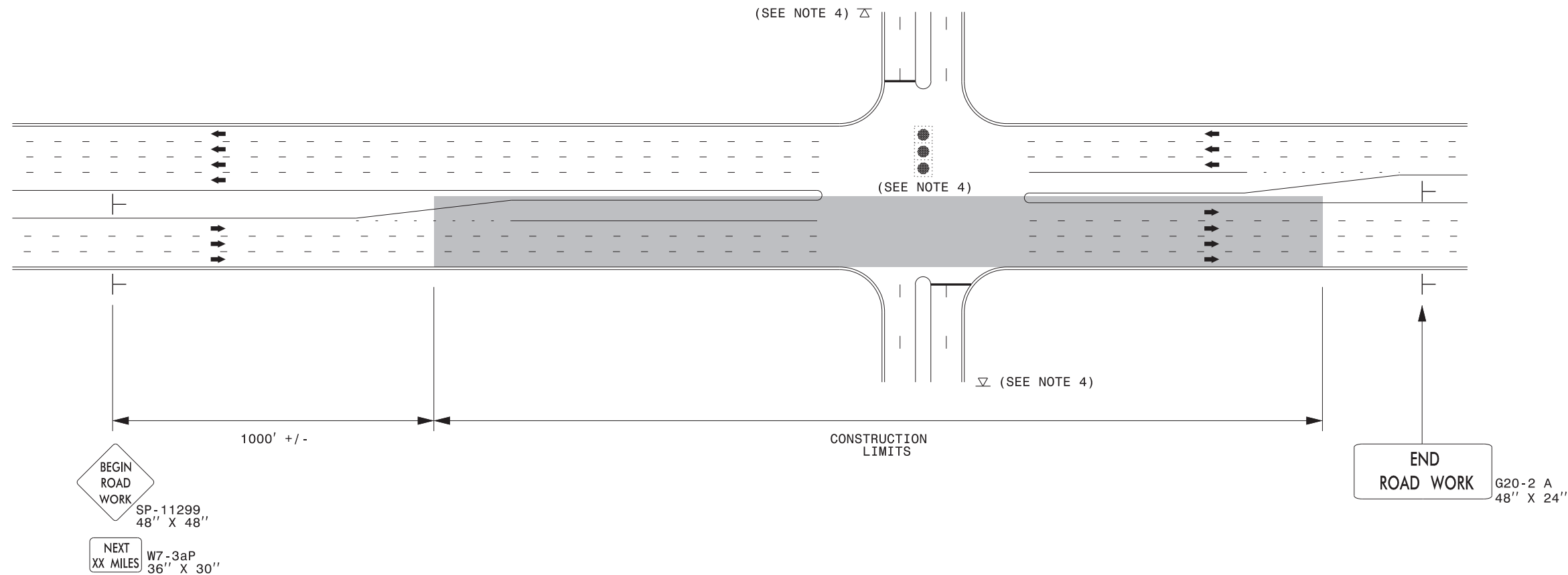
SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS: STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



RESURFACING
 ADVANCE WARNING SIGNS
 FOR
 RURAL AND SUBURBAN
 2 LANE ROADWAYS

6/3/2014 S:\TMD\WZTC\Apps\WorkZoneGeneral\ExternalWebPage\DesRes\Documents\Resurfacing\Resurfacing_AdvWarn_2Ln.dgn User:rmgarrett

URBAN / SUBURBAN WORKZONES

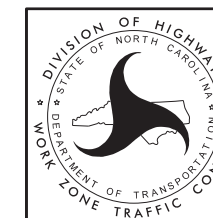


NOTES:

- 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.

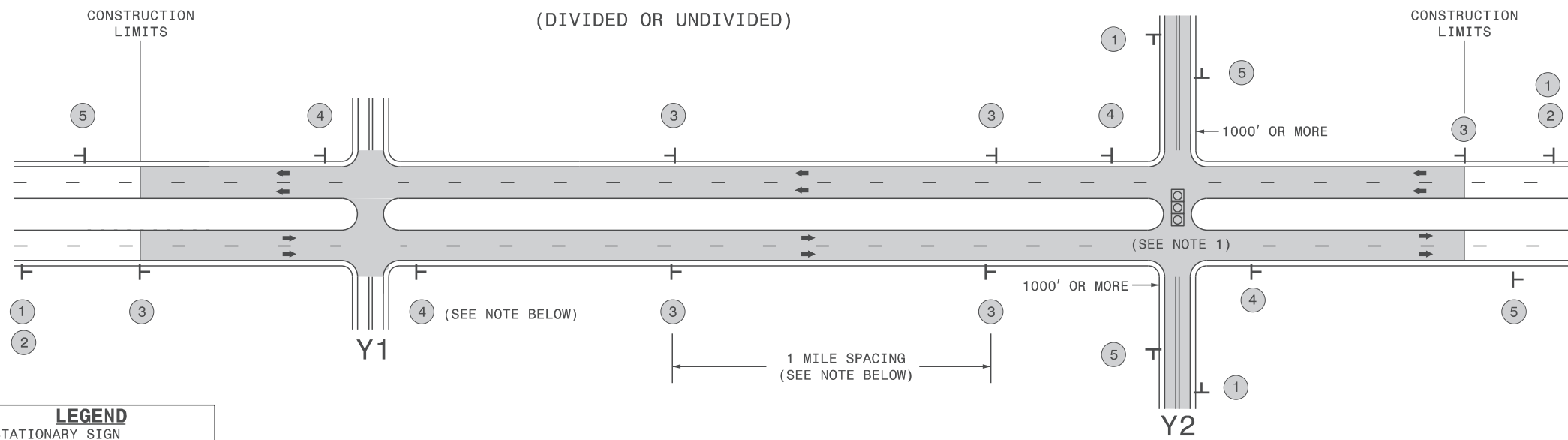
LEGEND

- ┆ 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
 T STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

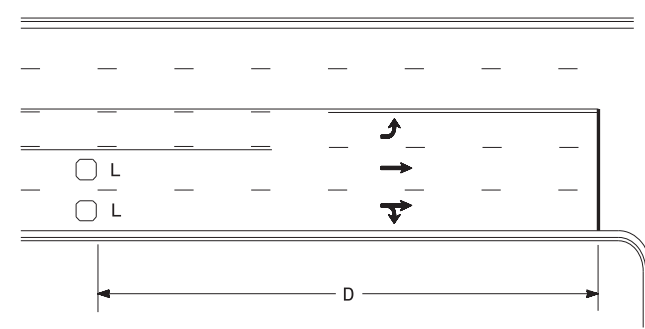
SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p style="text-align: center;">NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</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> <p>NOTES:</p> <ol style="list-style-type: none"> 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
	2	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3	 <small>SP 13107 48" X 48"</small>	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 <small>SP 13106 48" X 48"</small>	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
	5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	



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

2/24/2014 S:\TMU\WZTC\Resurfacing\2013\Documents\New_Procedures_05_09_2013\Resurfacing_AdvWarn_Lr_Su_Shidr.dgn User:rmgarrrett

High Speed Detection (≥40 mph)

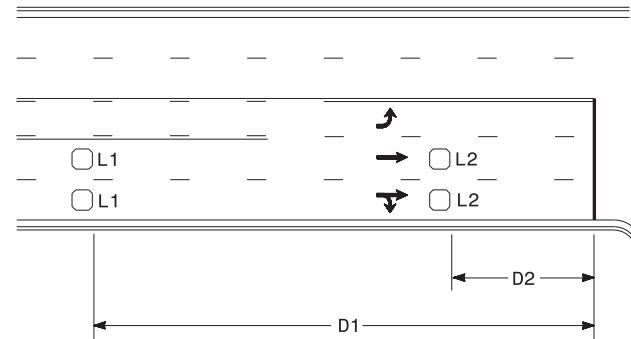


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR

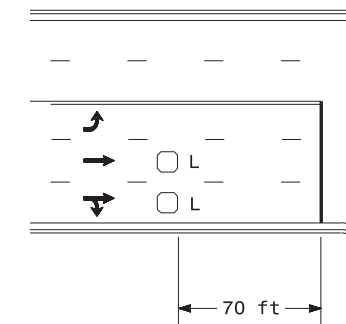


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series
L2 = 6ft X 6ft
Wired in series

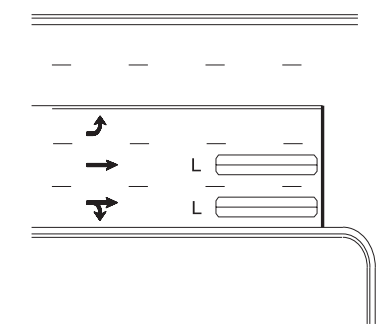
"Stretch" Operation

Low Speed Detection (≤35 mph)



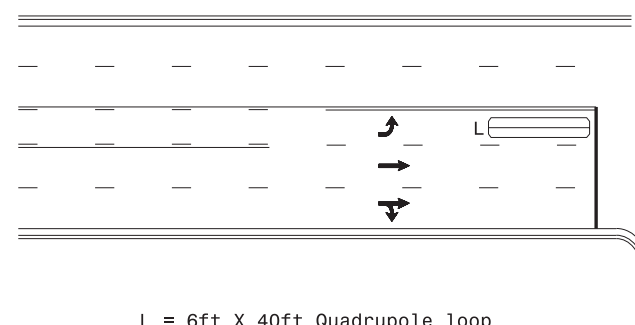
L = 6ft X 6ft
Wired in series

OR



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

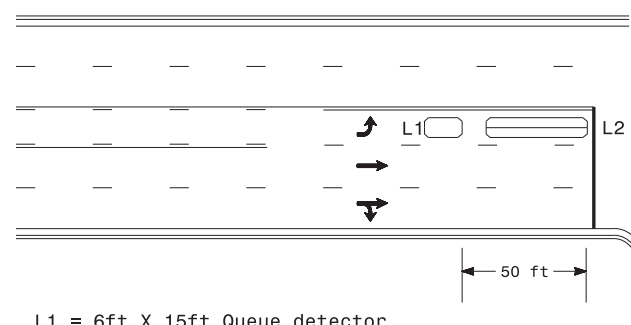
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

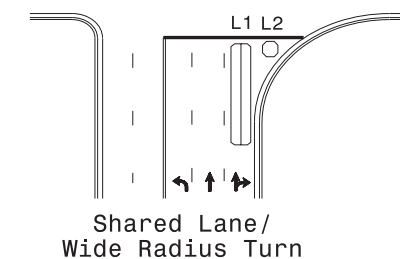
OR



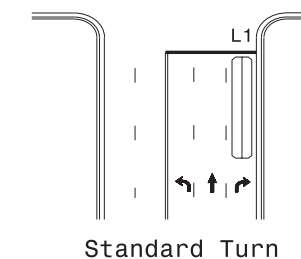
L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

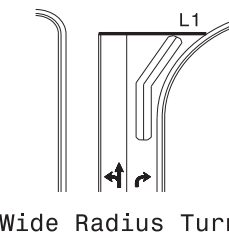
Right Turn Lane Detection



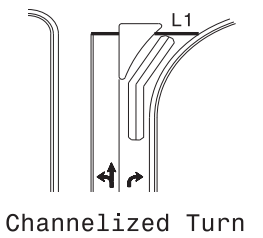
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

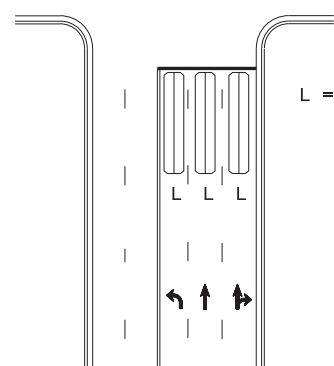


Wide Radius Turn



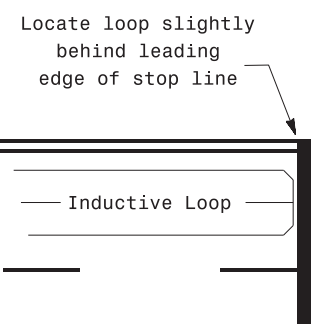
Channelized Turn

Side Street Detection



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

Presence Loop Placement at Stop Lines



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

Recommended Number of Turns

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

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

Quadrupole loops: Use 2-4-2 turns

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

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.	