

Sheet No.
4



Curb Ramps To Be Repaired

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

Municipal Boundary

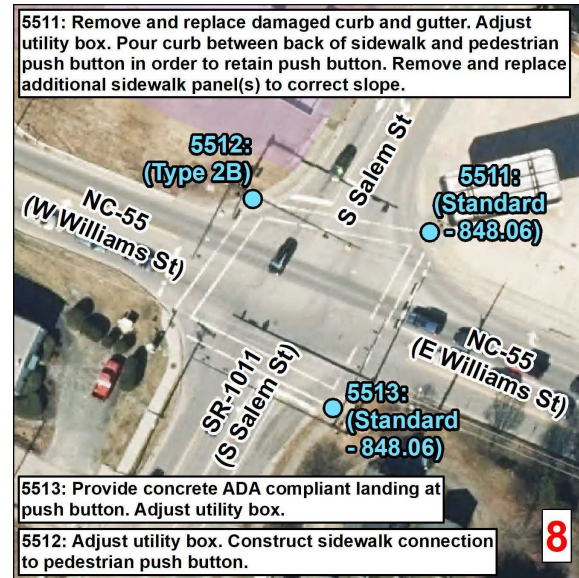
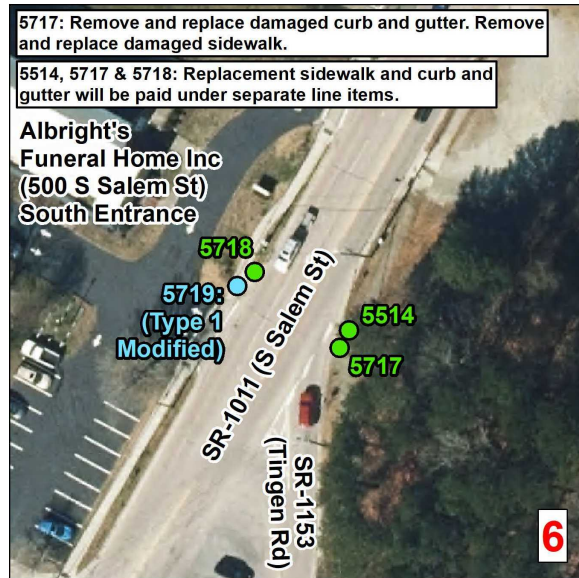
NCHPO Historic Boundary (NR and LHD)

West
Project Number: 2025CPT.05.02.20921.1

Old US 1
From NC 55 To Chatham Co

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

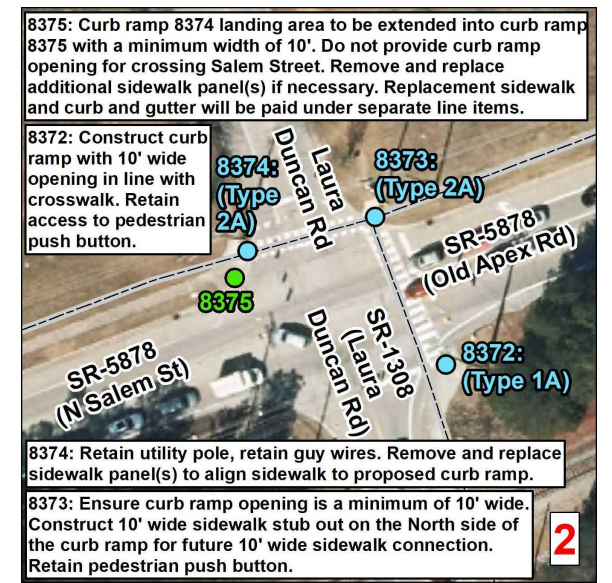
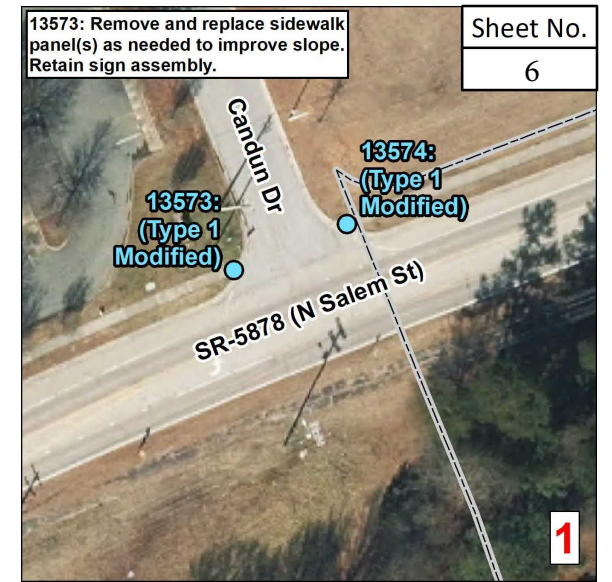
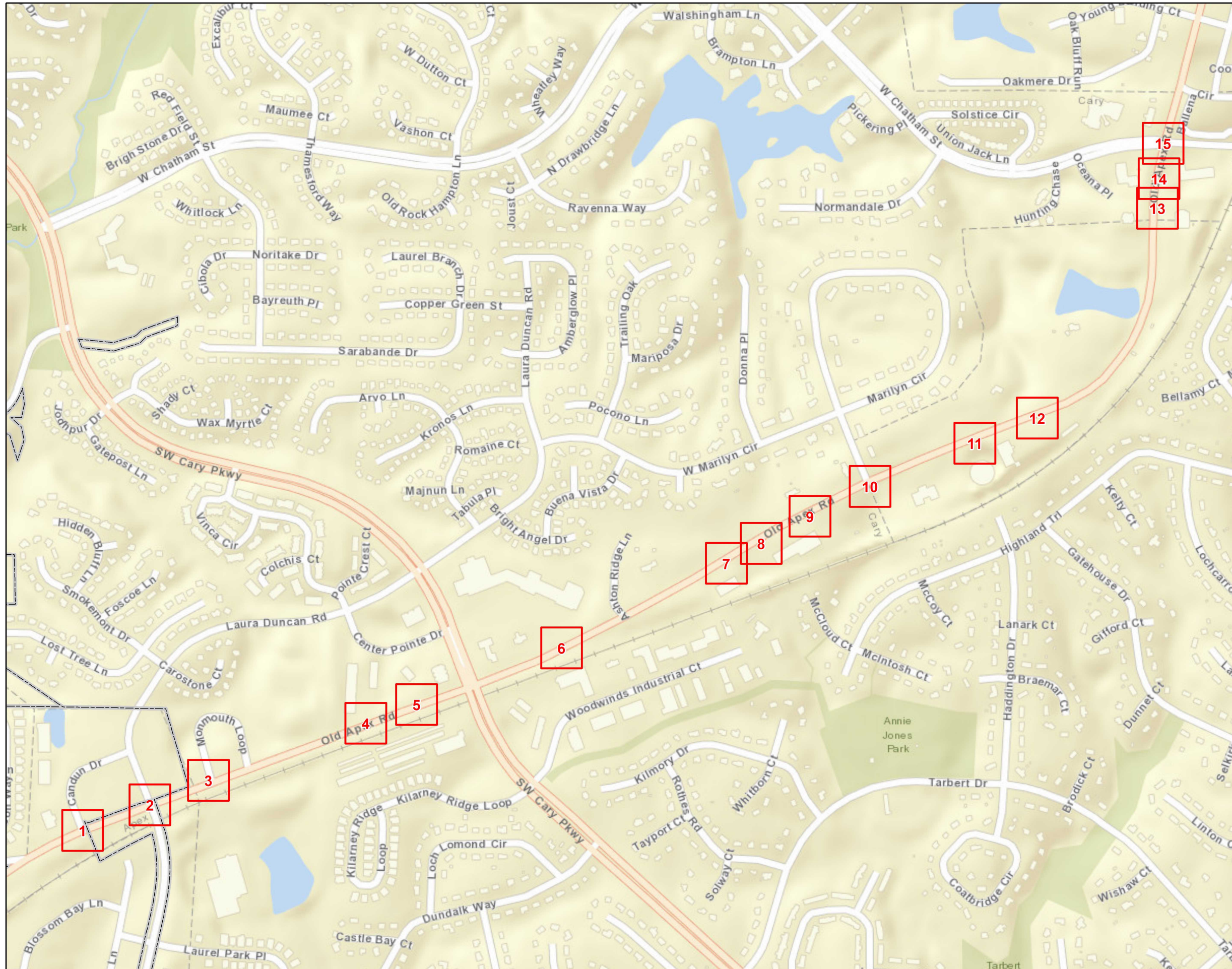
Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

West
Project Number: 2025CPT.05.02.20921.1

Old US 1
From NC 55 To Chatham Co

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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



Curb Ramps To Be Repaired

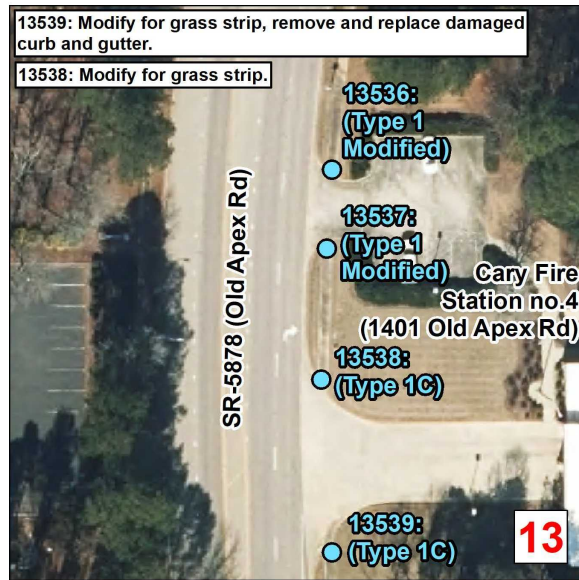
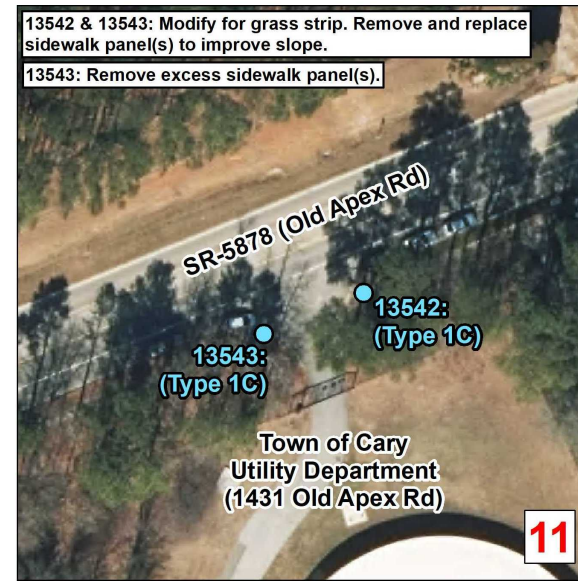
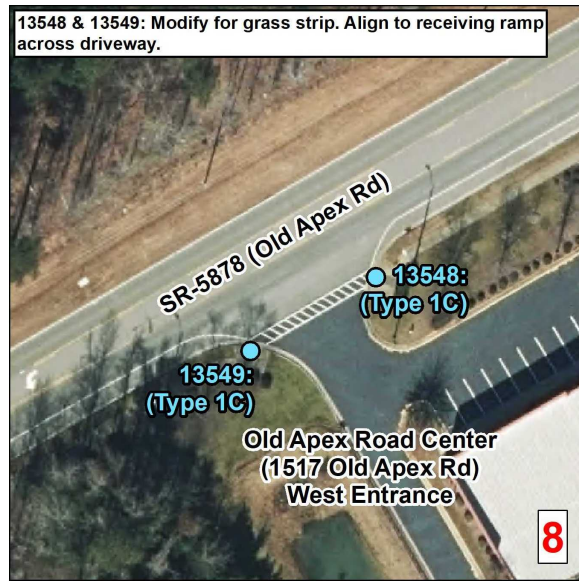
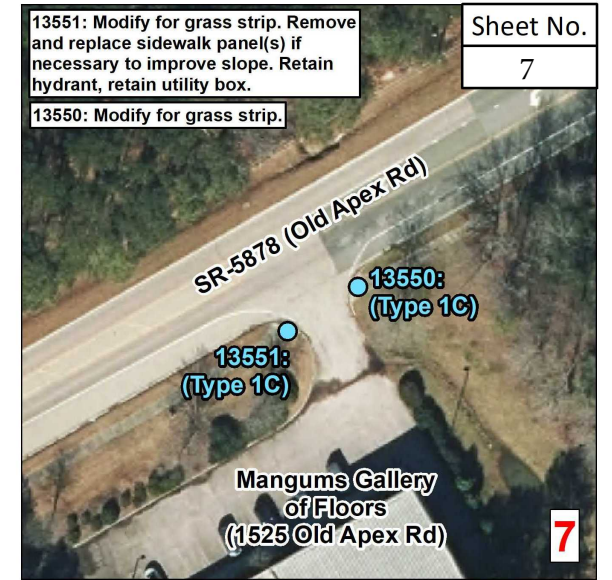
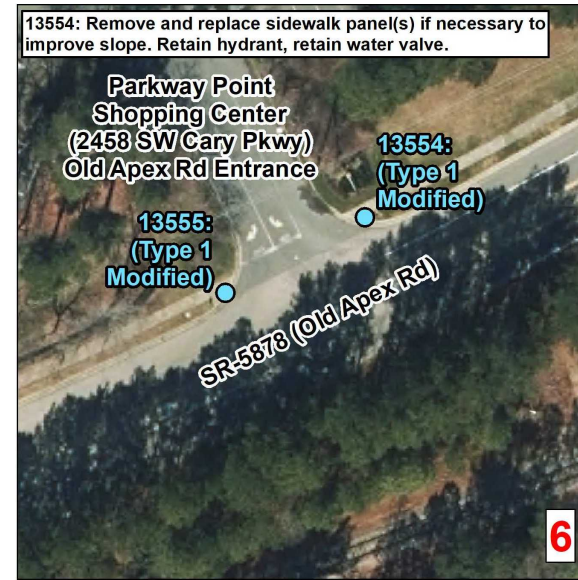
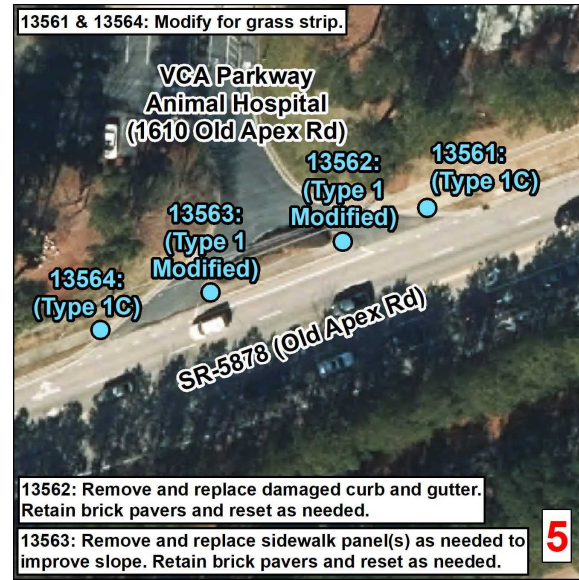
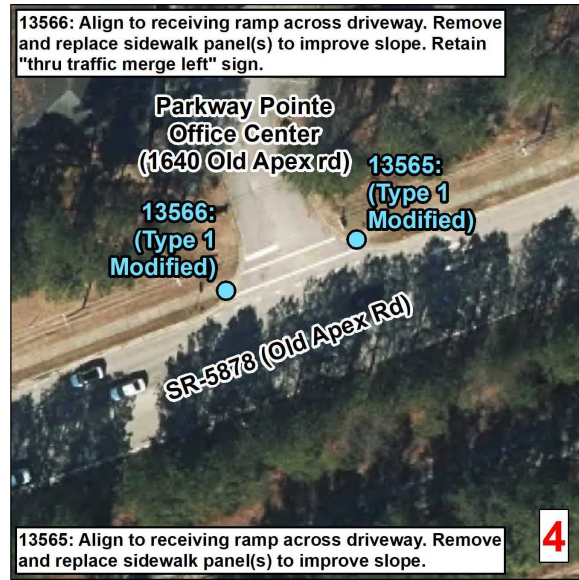
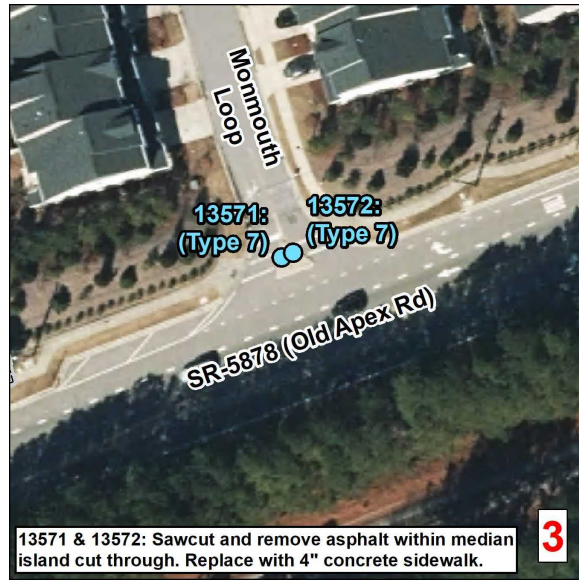
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

West
Project Number: 2025CPT.05.02.20921.1
Old Apex Rd
From W Chatham St To SR 1614

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

Municipal Boundary

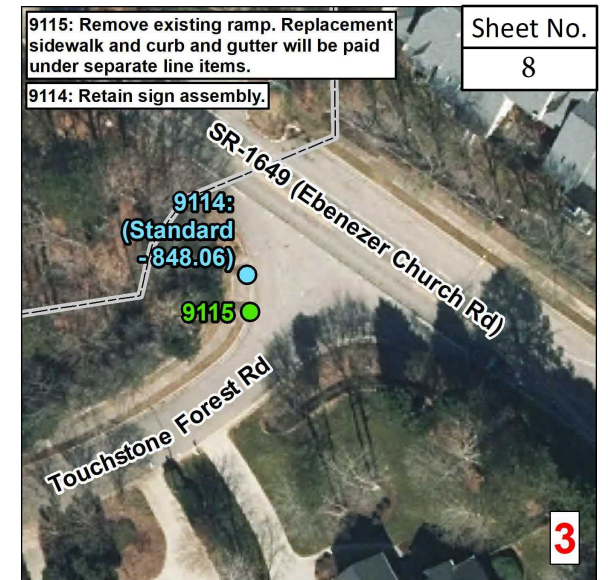
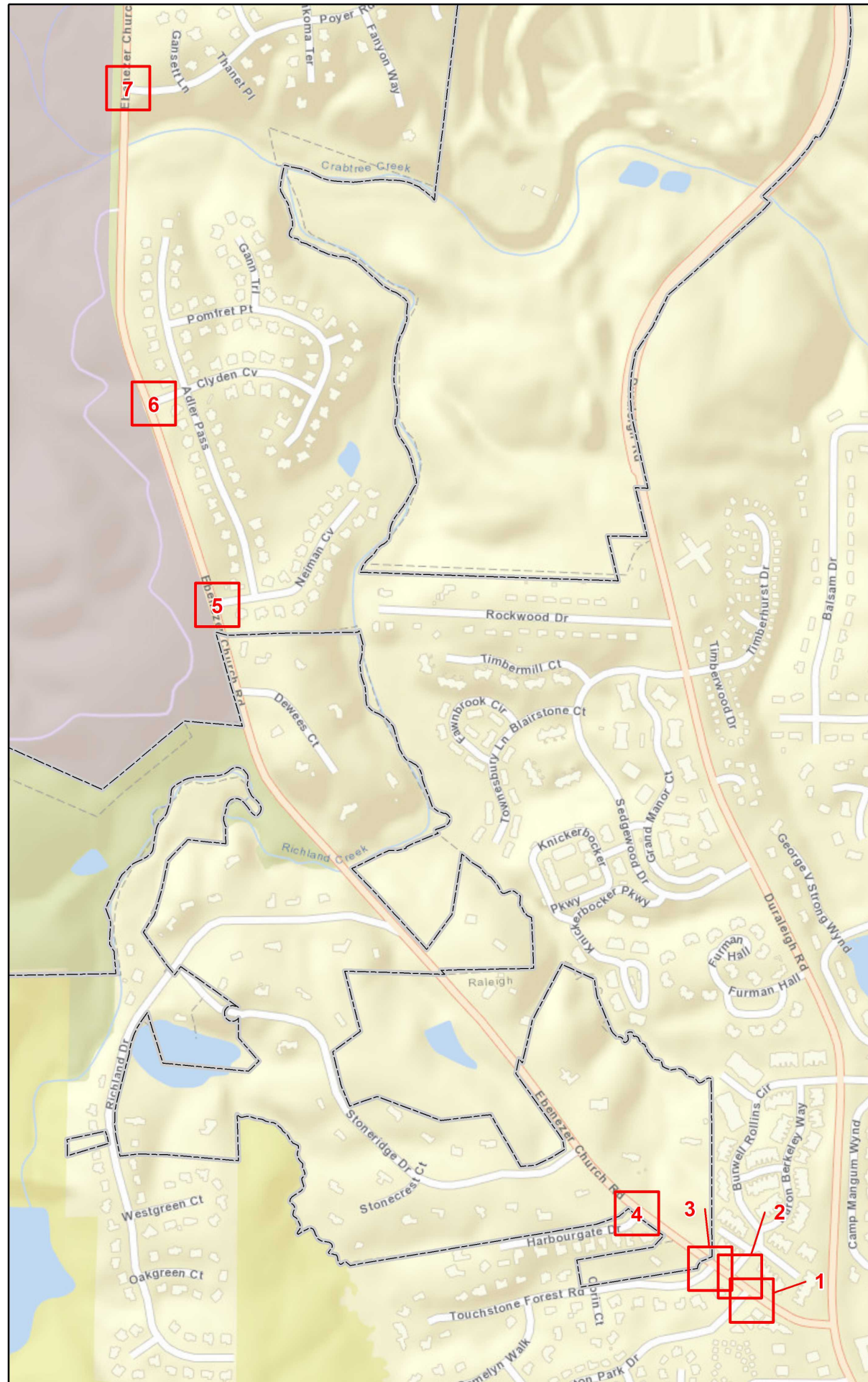
NCHPO Historic Boundary (NR and LHD)

West
Project Number: 2025CPT.05.02.20921.1

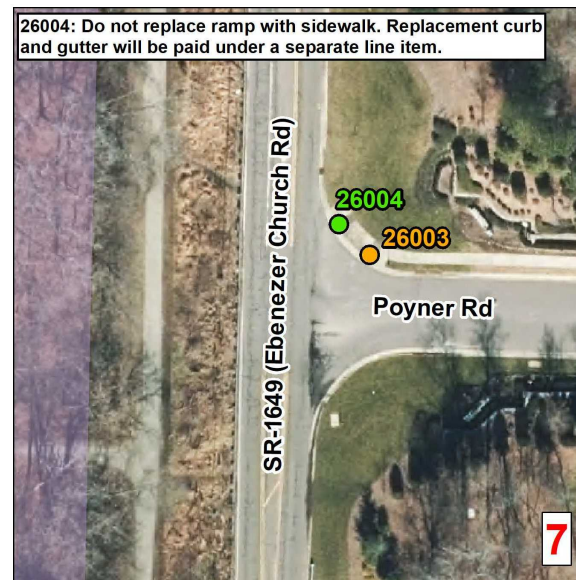
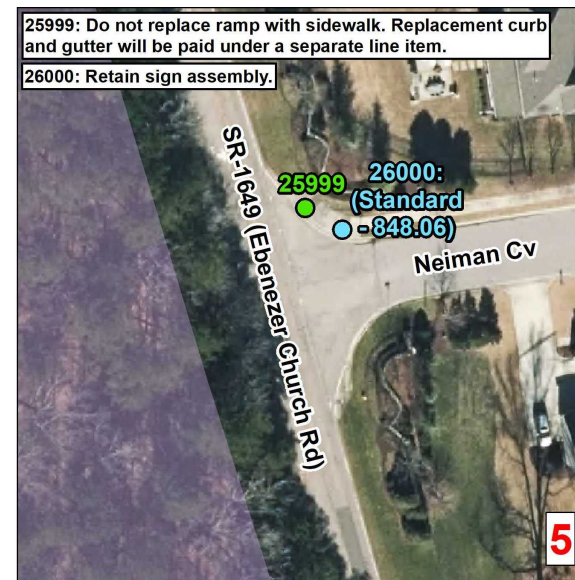
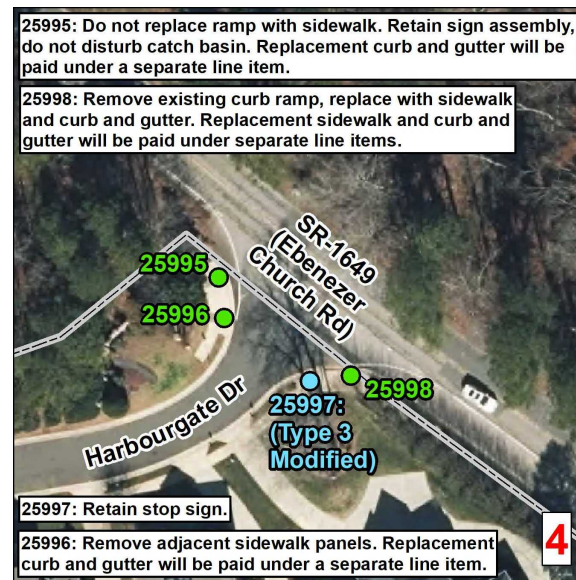
Old Apex Rd
From W Chatham St To SR 1614

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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



Sheet No.
8



Curb Ramps To Be Repaired

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

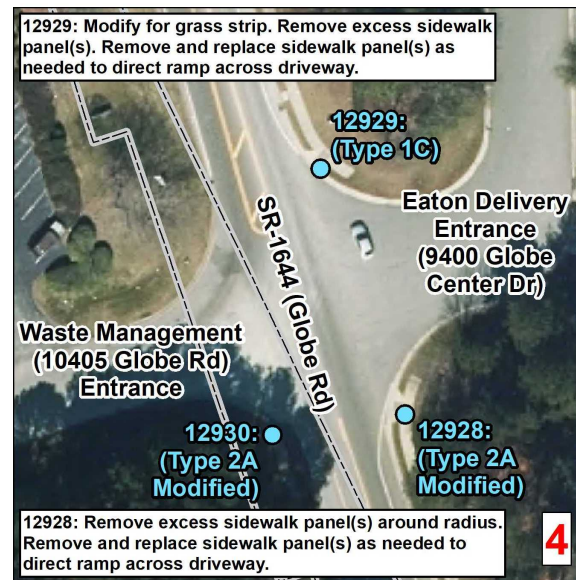
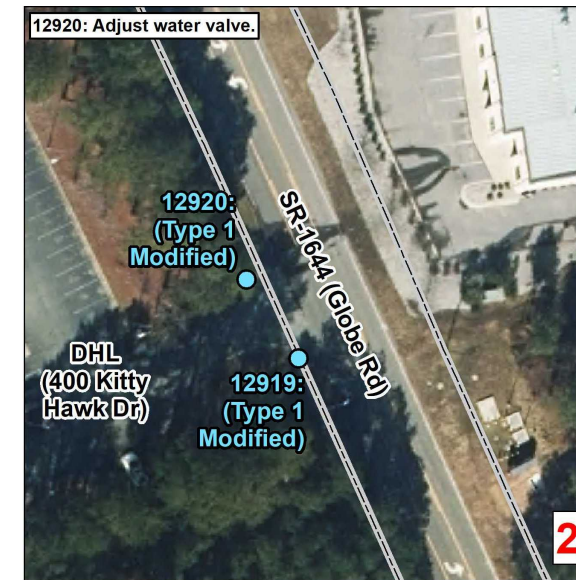
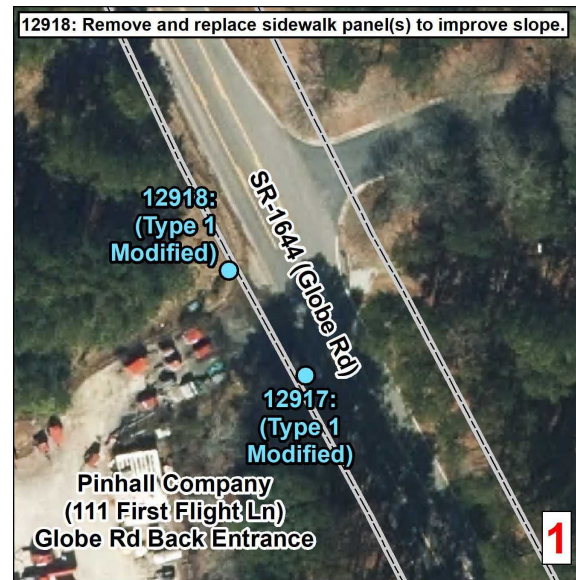
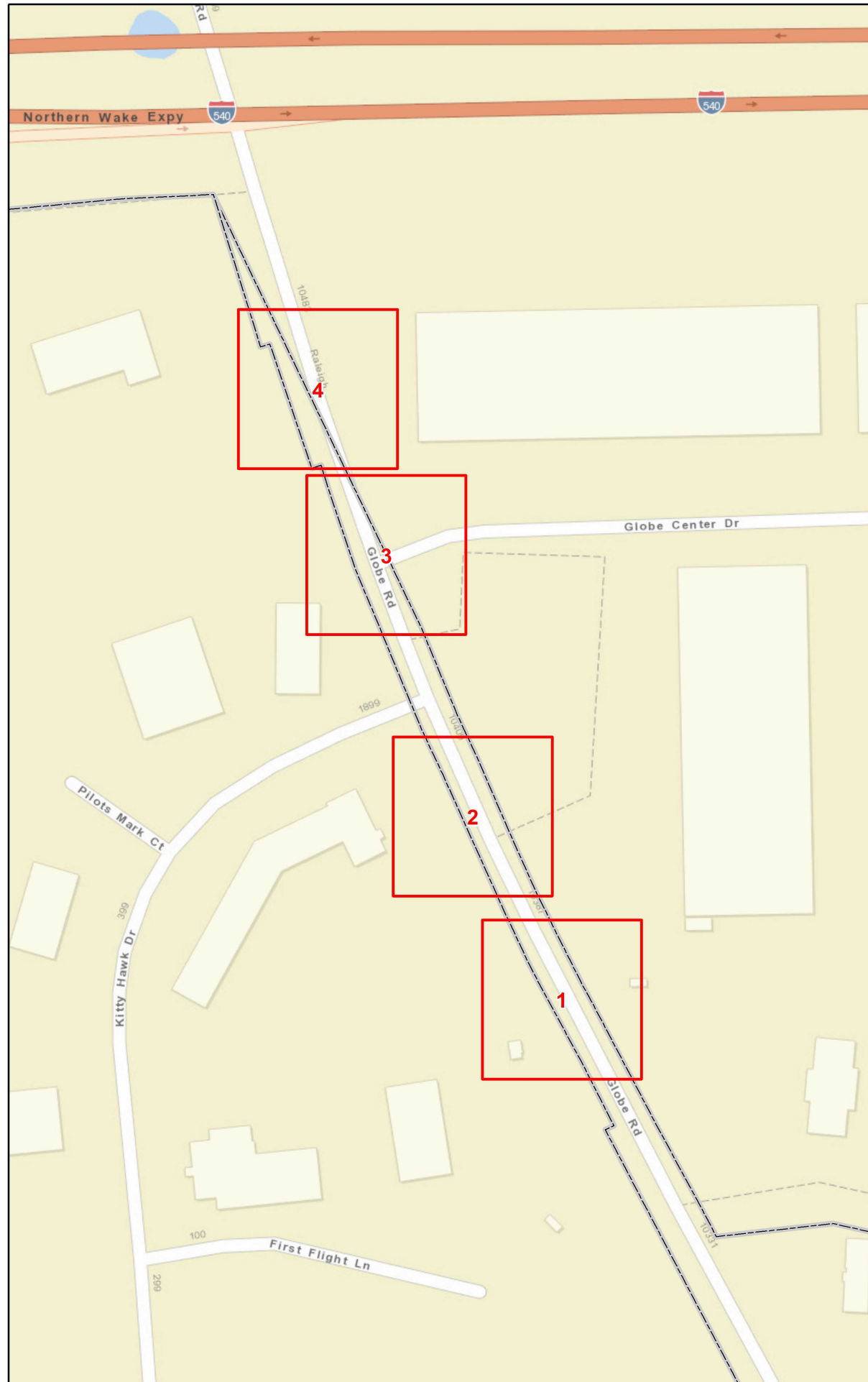
Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

West
Project Number: 2025CPT.05.02.20921.1

Ebenezer Church Rd
From SR 1647 To SR 1664

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

Municipal Boundary

NCHPO Historic Boundary (NR and LHD)

West
Project Number: 2025CPT.05.02.20921.1

Globe Rd
From I-540 To Dead End

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 5

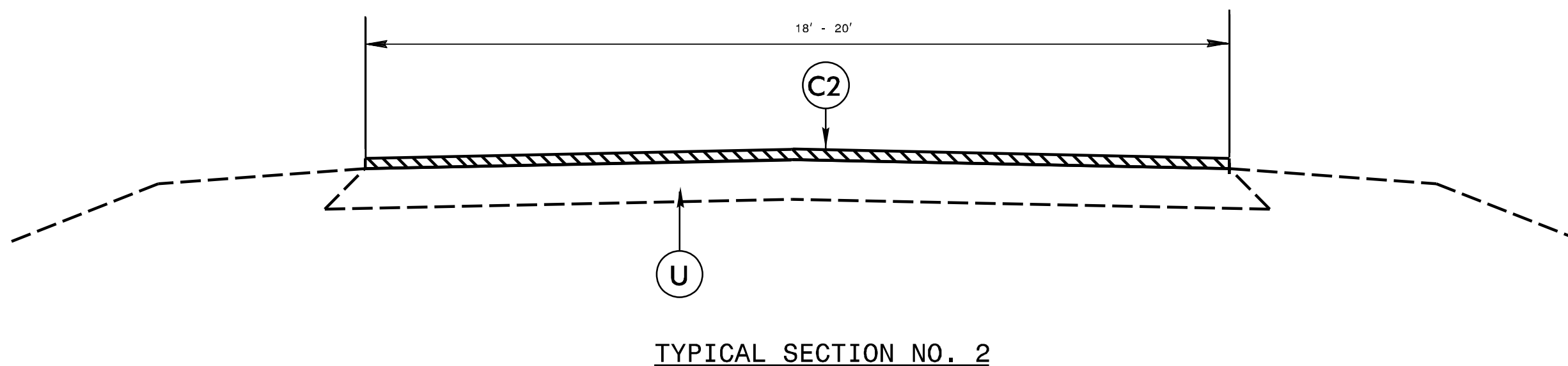
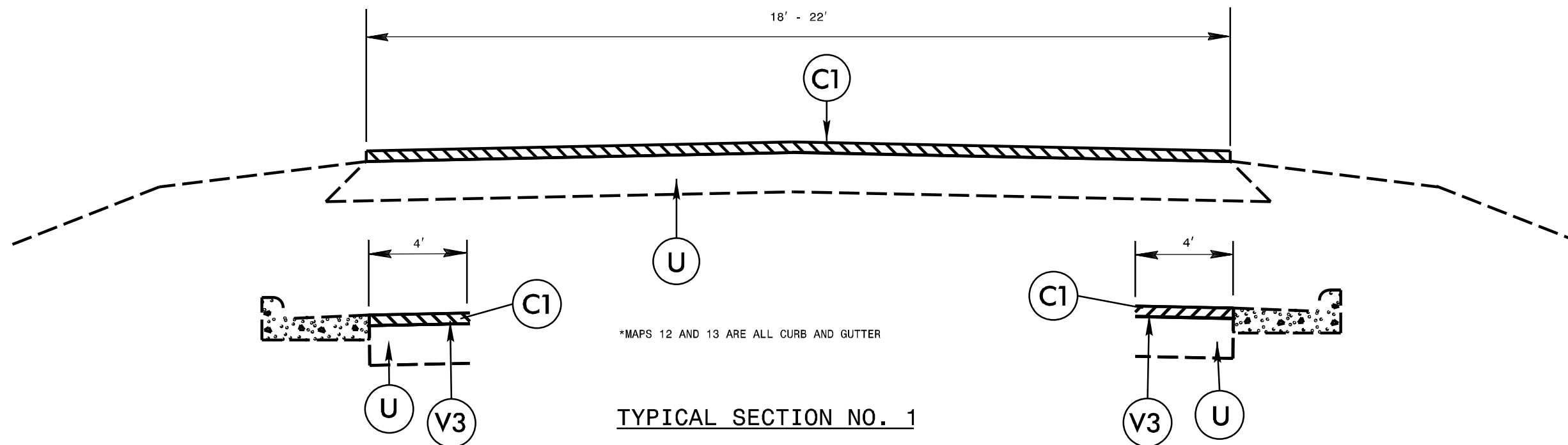
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO

PAVEMENT SCHEDULE

PROJECT REFERENCE NO.
2025CPT.05.02.10921.1, etc.

SHEET NO.
10

	U	EXISTING PAVEMENT
C1	V1	1½" MILLING
C2	V2	0" - 1 ½" MILLING
C3	V3	0" - 1" MILLING
S		SHOULDER RECONSTRUCTION



PAVEMENT SCHEDULE

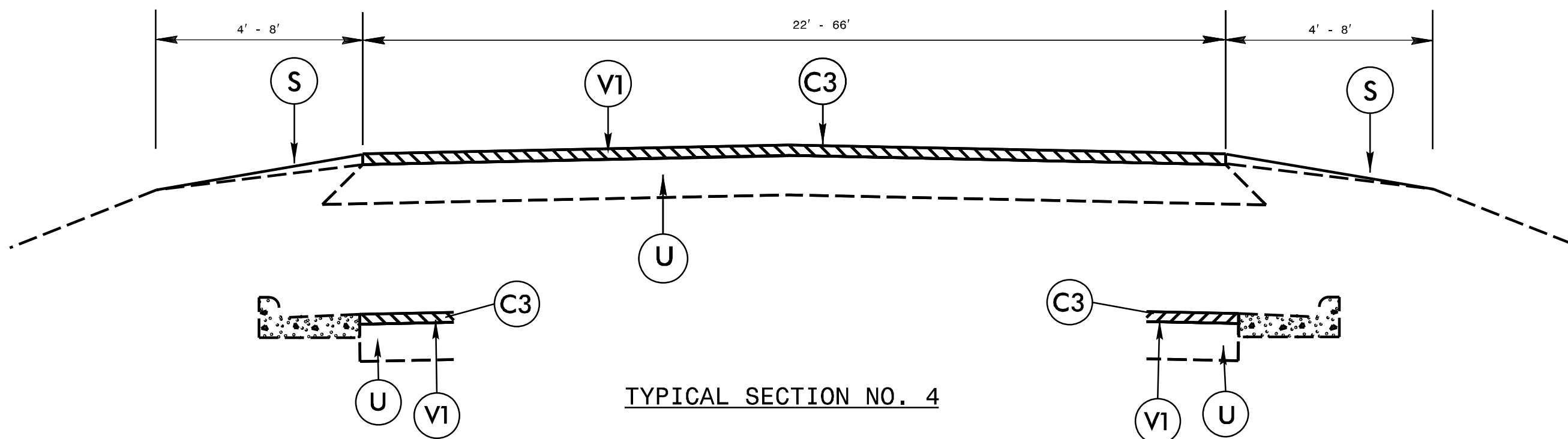
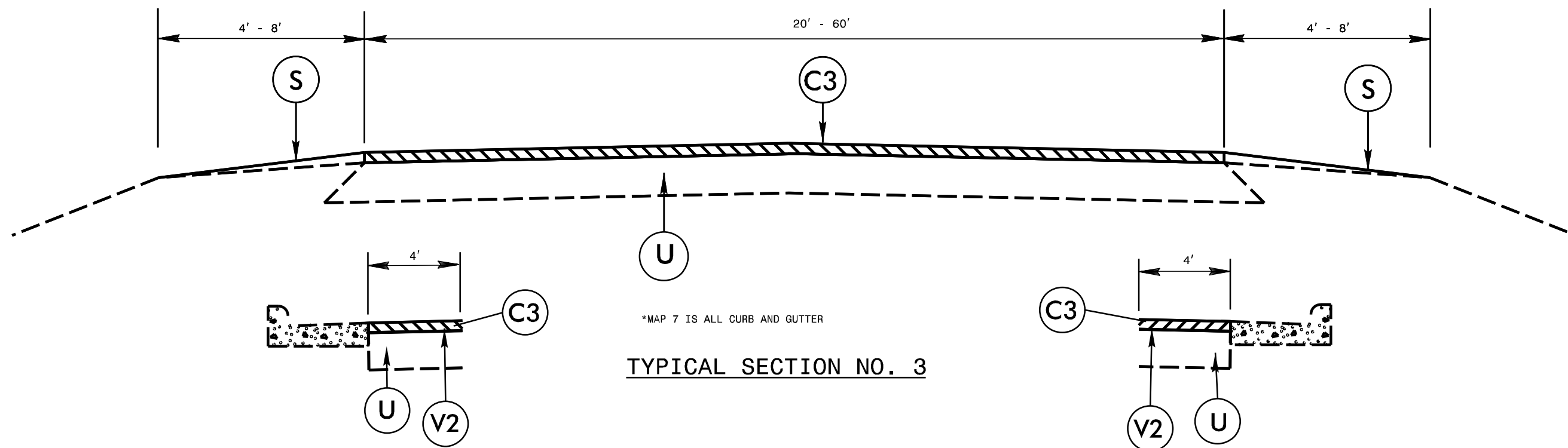
		S	SHOULDER RECONSTRUCTION
C1	1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
C2	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	V1	1 1/2" MILLING
C3	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	V2	0" - 1 1/2" MILLING

PROJECT REFERENCE NO.

SHEET NO.

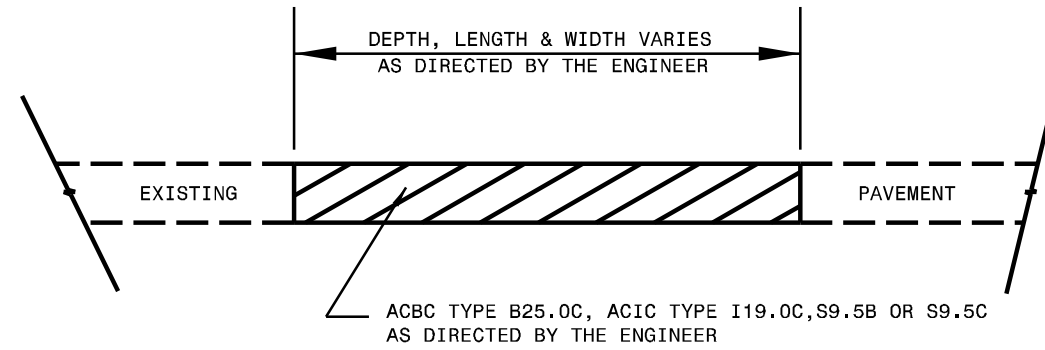
2025CPT.05.02.10921.1, etc.

II



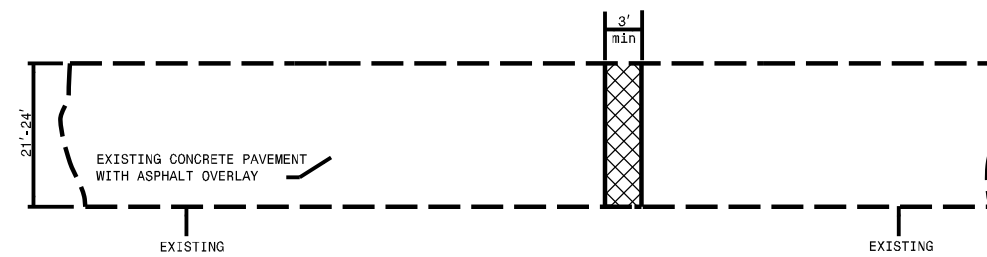
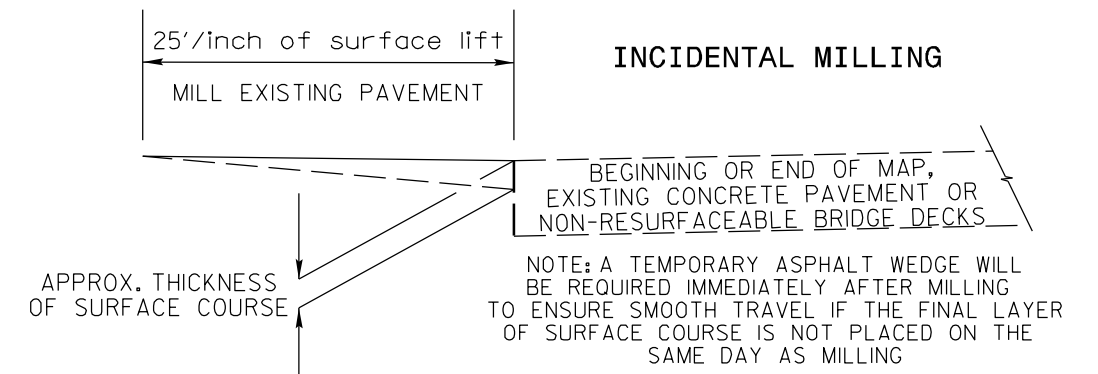
NOTES

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

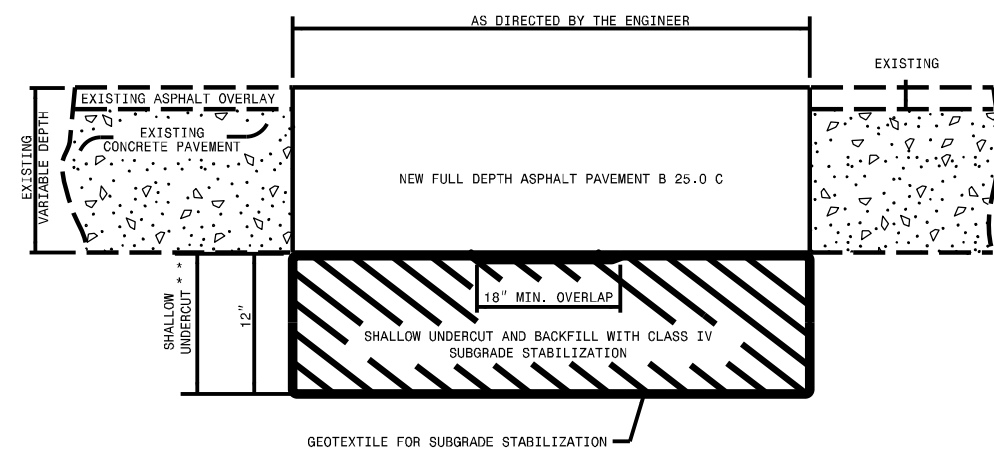


PATCHING EXISTING PAVEMENT

MILLING TO BE PERFORMED PRIOR TO PATCHING



TOP VIEW OF EXISTING CONCRETE SLAB REPAIR TO BE PERFORMED, AS DIRECTED BY THE ENGINEER



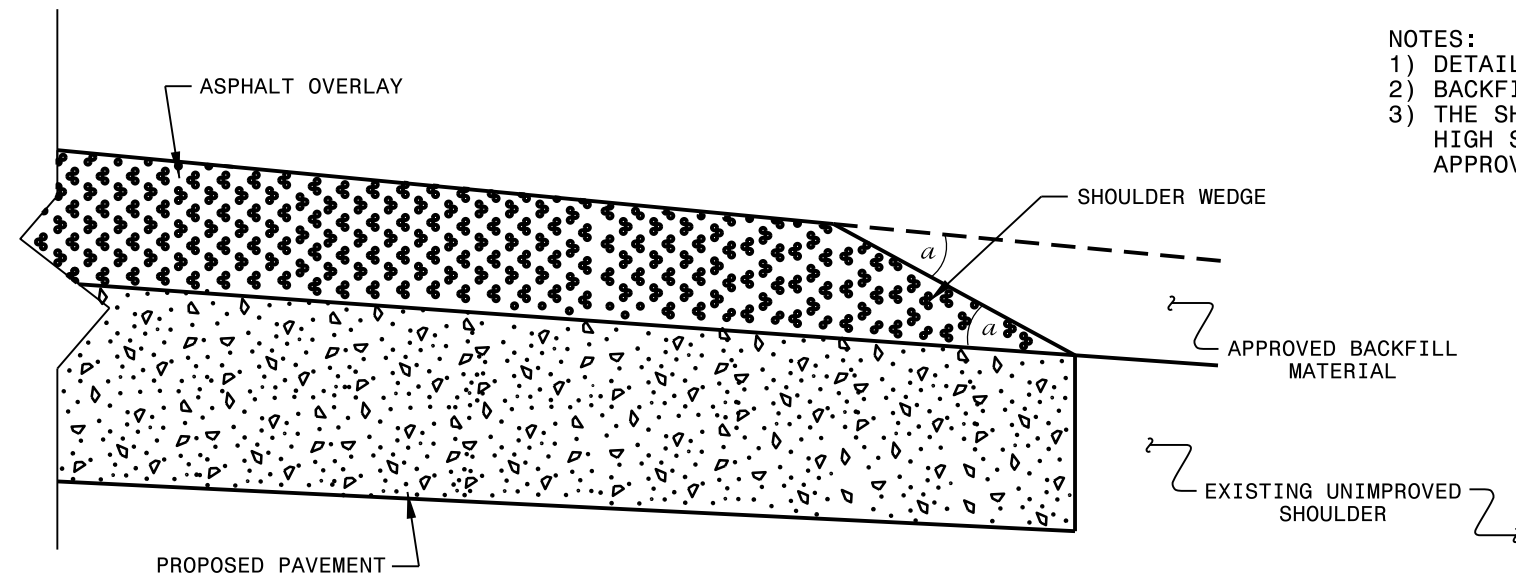
CROSS SECTION OF EXISTING CONCRETE SLAB REPAIR

- * DIMENSIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED
- ** SHALLOW UNDERCUT REQUIRED
- *** SLAB REPAIR ON MAPS 2 AND 3 TO BE COMPLETED PRIOR TO MILLING

THIS IS TIME INTENSIVE WORK AND CONTRACTOR SHOULD ALLOW AMPLE TIME FOR COMPLETION

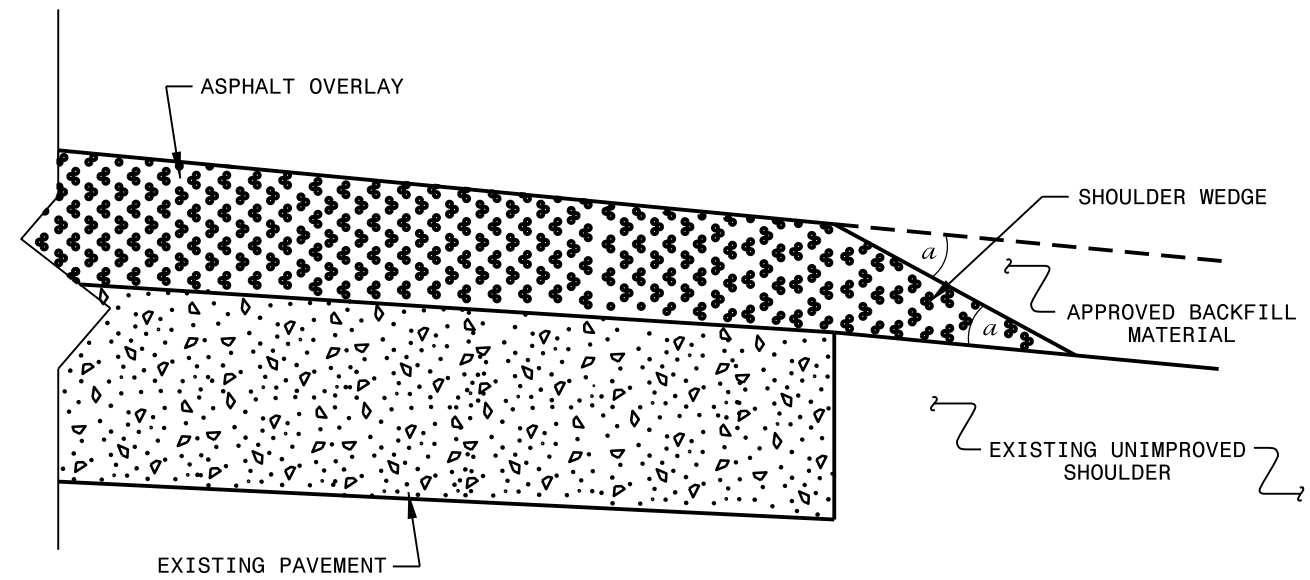
NOTES:

- 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.



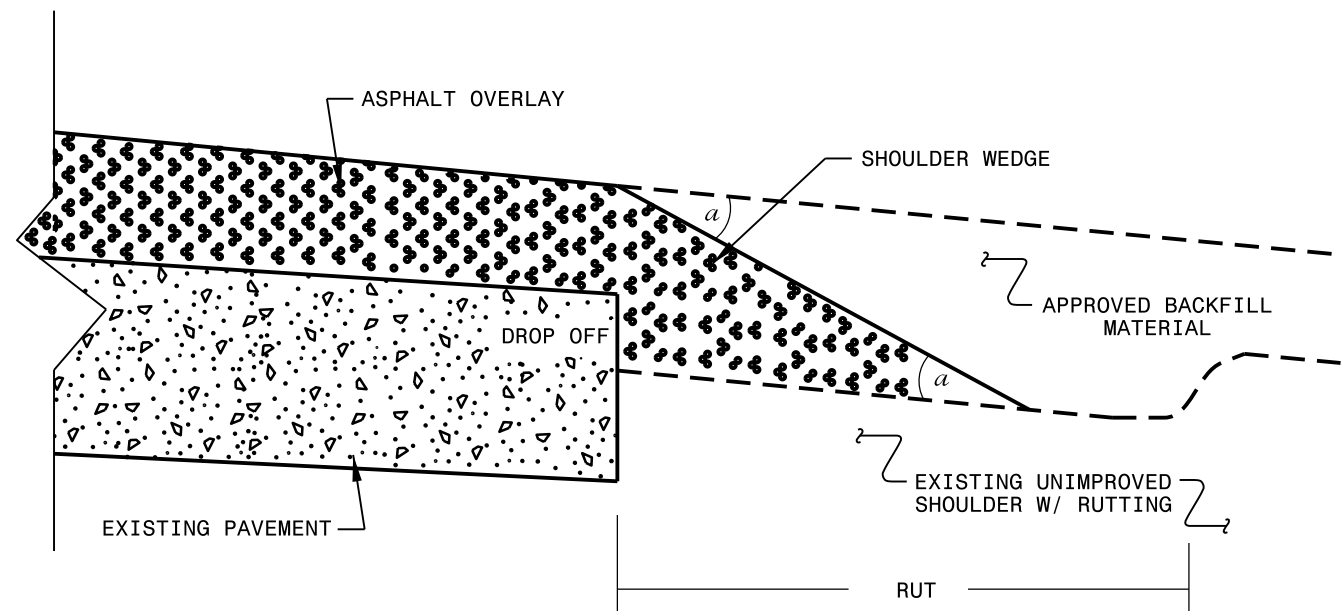
SHOULDER WEDGE DETAIL

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



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



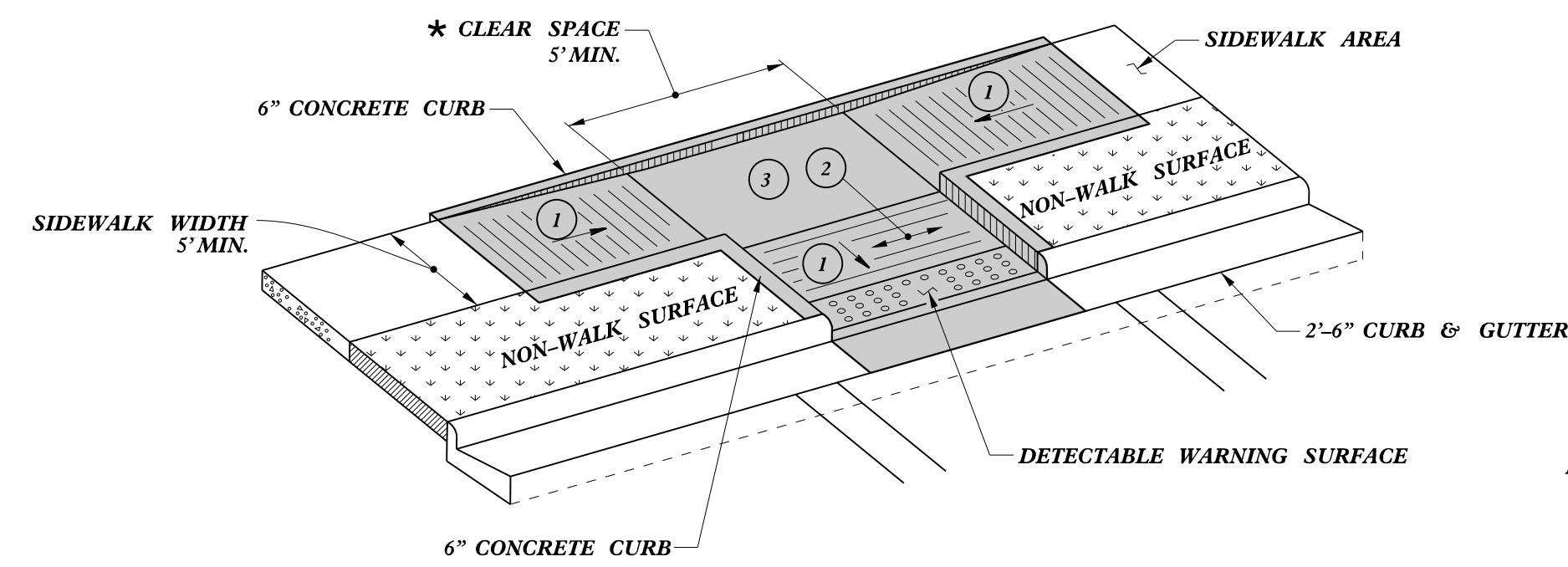
SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

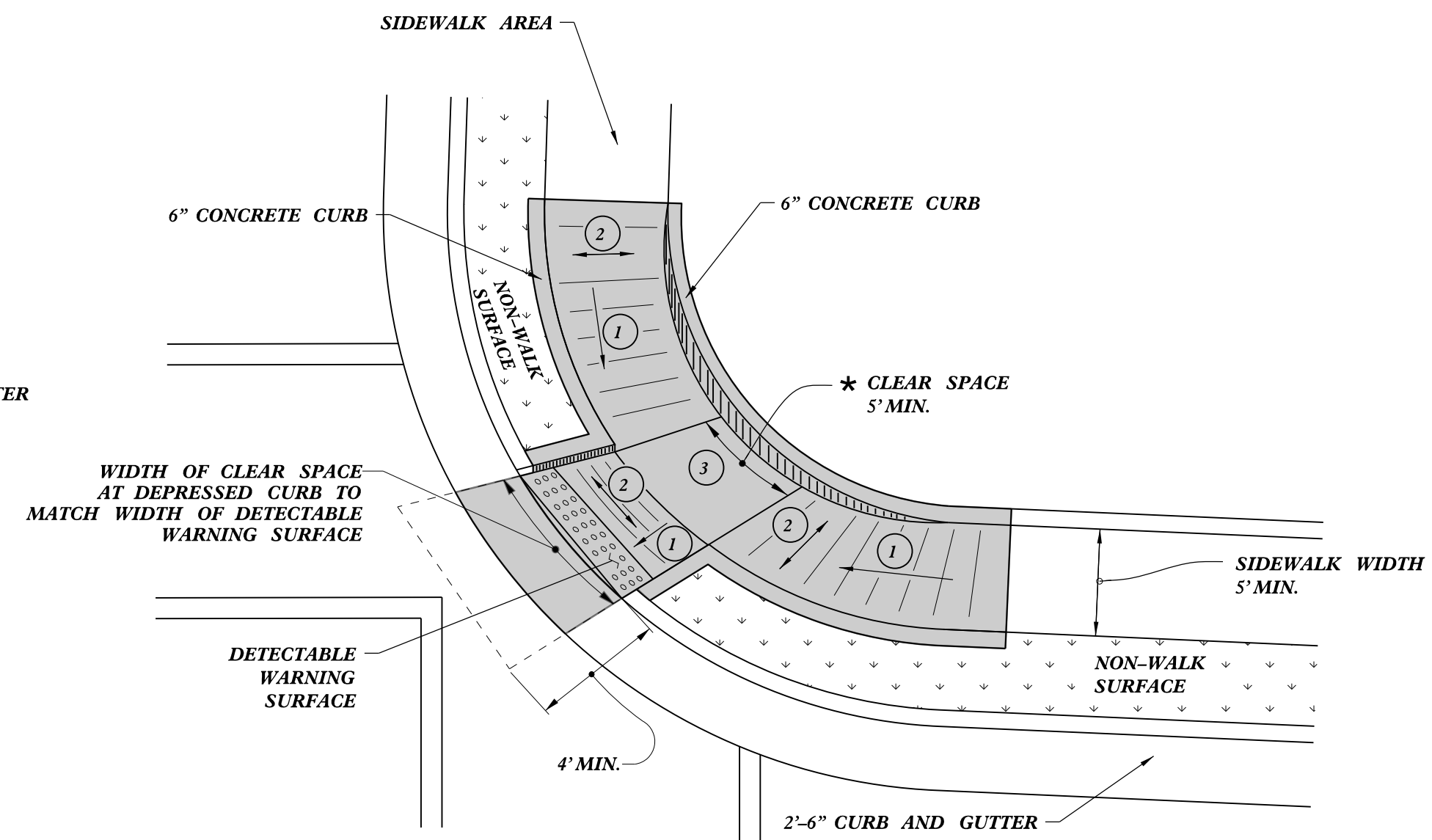
- SHOULDER WEDGE ANGLE = 30°

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		

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

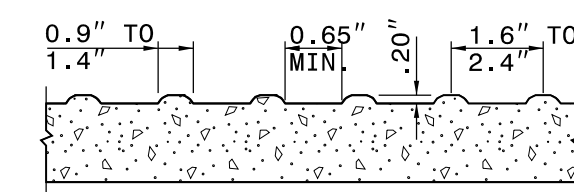
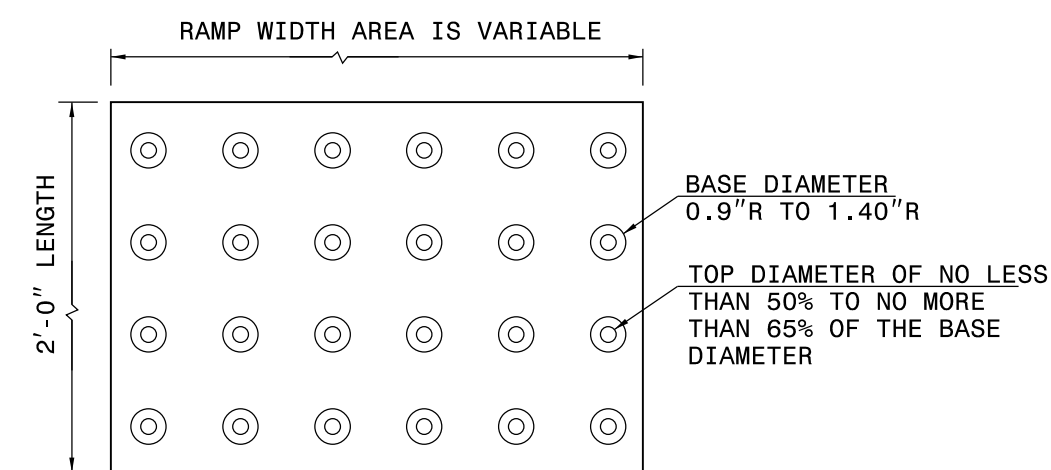


TYPE 3



**TYPE 3 MODIFIED
INSTALLATION IN A RADIUS**

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



DETECTABLE WARNING SURFACE

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

PAY LIMITS FOR 1 CURB RAMP

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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PARALLEL RAMP



SHEET 9 OF 13
848D06

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special_details\nmhackler\0609.dgn

ADA SUMMARY OF QUANTITIES - OLD US 1 FROM NC 55 TO CHATHAM CO

Municipality:	Apex Outside Municipality
Project Number:	2025CPT.05.02.20921.1
County:	Wake

Sheet No.
16

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2535000000-E (LF) 8" X 12" Concrete Curb	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2612300000-N (EA) Retrofit Existing Concrete Curb Ramp	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Curb Ramps	Improvement Type
26132	1	SR-1011 (Old US 1 Hwy)	Boyette St	5				5					1		Type 7 - 848.06
26133	1	SR-1011 (Old US 1 Hwy)	Boyette St	5				5					1		Type 7 - 848.06
5525	2	SR-1011 (S Salem St)	Grappenhall Dr										1		Type 3 Modified - 848D0609
5526	2	SR-1011 (S Salem St)	Grappenhall Dr		20			6						1	Remove Ramp
9141	2	SR-1011 (S Salem St)	Grappenhall Dr		15									1	Remove Ramp
9142	2	SR-1011 (S Salem St)	Grappenhall Dr										1		Type 1 Modified - 848.06
9140	3	SR-1011 (S Salem St)	Apex Peakway						6				1		Standard - 848.06
9139	4	SR-1011 (S Salem St)	Sugarland Dr										1		Type 1 Modified - 848.06
5515	5	SR-1011 (S Salem St)	Lynch St										1		Type 2B - 848.06
5721	5	SR-1011 (S Salem St)	Lynch St										1		Type 1 Modified - 848.06
25987	5	SR-1011 (S Salem St)	SR-1153 (Tingen Rd)										1		Standard - 848.06
25988	5	SR-1011 (S Salem St)	SR-1153 (Tingen Rd)	5				5					1		Type 7 - 848.06
25989	5	SR-1011 (S Salem St)	SR-1153 (Tingen Rd)	5				5					1		Type 7 - 848.06
5514	6	SR-1011 (S Salem St)	SR-1153 (Tingen Rd)		15			9						1	Remove Ramp
5717	6	SR-1011 (S Salem St)	SR-1153 (Tingen Rd)		15	2		9	3					1	Remove Ramp
5718	6	SR-1011 (S Salem St)	Albright's Funeral Home Inc (500 S Salem St) South Entrance		12			3						1	Remove Ramp
5719	6	SR-1011 (S Salem St)	Albright's Funeral Home Inc (500 S Salem St) South Entrance										1		Type 1 Modified - 848.06
5716	7	SR-1011 (S Salem St)	West St										1		Type 1B - 848.06
5511	8	NC-55 (W Williams St)	S Salem St			20	15		12		1		1		Standard - 848.06
5512	8	NC-55 (W Williams St)	S Salem St					6			1		1		Type 2B - 848.06
5513	8	NC-55 (E Williams St)	SR-1011 (S Salem St)					6			1		1		Standard - 848.06
Sub-Total for Old US 1 From NC 55 To Chatham Co				20	77	22	15	59	21	0	3	0	16	5	

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

ADA SUMMARY OF QUANTITIES -OLD APEX RD FROM W CHATHAM ST TO SR 1614

Municipality:	Apex Cary
Project Number:	2025CPT.05.02.20921.1
County:	Wake

Sheet No.	17
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2535000000-E (LF) 8" X 12" Concrete Curb	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2612300000-N (EA) Retrofit Existing Concrete Curb Ramp	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Curb Ramps	Improvement Type
13573	1	SR-5878 (N Salem St)	Candun Dr						3				1		Type 1 Modified - 848.06
13574	1	SR-5878 (N Salem St)	Candun Dr										1		Type 1 Modified - 848.06
8372	2	SR-1308 (Laura Duncan Rd)	SR-5878 (Old Apex Rd)										2		Type 1A - 848.06
8373	2	SR-1308 (Laura Duncan Rd)	SR-5878 (Old Apex Rd)										1		Type 2A - 848.06
8374	2	SR-1308 (Laura Duncan Rd)	SR-5878 (Old Apex Rd)						3				1		Type 2A - 848.06
8375	2	SR-1308 (Laura Duncan Rd)	SR-5878 (Old Apex Rd)		10			12	3					1	Remove Ramp
13571	3	SR-5878 (Old Apex Rd)	Monmouth Loop	3									1		Type 7 - 848.06
13572	3	SR-5878 (Old Apex Rd)	Monmouth Loop	3									1		Type 7 - 848.06
13565	4	SR-5878 (Old Apex Rd)	Parkway Pointe Office Center (1640 Old Apex rd)						3				1		Type 1 Modified - 848.06
13566	4	SR-5878 (Old Apex Rd)	Parkway Pointe Office Center (1640 Old Apex rd)						3				1		Type 1 Modified - 848.06
13561	5	SR-5878 (Old Apex Rd)	VCA Parkway Animal Hospital (1610 Old Apex Rd)										1		Type 1C - 848.06
13562	5	SR-5878 (Old Apex Rd)	VCA Parkway Animal Hospital (1610 Old Apex Rd)			8							1		Type 1 Modified - 848.06
13563	5	SR-5878 (Old Apex Rd)	VCA Parkway Animal Hospital (1610 Old Apex Rd)						3				1		Type 1 Modified - 848.06
13564	5	SR-5878 (Old Apex Rd)	VCA Parkway Animal Hospital (1610 Old Apex Rd)										1		Type 1C - 848.06
13554	6	SR-5878 (Old Apex Rd)	Parkway Point Shopping Center (2458 SW Cary Pkwy) Old Apex Rd Entrance						3				1		Type 1 Modified - 848.06
13555	6	SR-5878 (Old Apex Rd)	Parkway Point Shopping Center (2458 SW Cary Pkwy) Old Apex Rd Entrance										1		Type 1 Modified - 848.06
13550	7	SR-5878 (Old Apex Rd)	Mangum's Gallery of Floors (1525 Old Apex Rd)										1		Type 1C - 848.06
13551	7	SR-5878 (Old Apex Rd)	Mangum's Gallery of Floors (1525 Old Apex Rd)						3				1		Type 1C - 848.06
13548	8	SR-5878 (Old Apex Rd)	Old Apex Road Center (1517 Old Apex Rd) West Entrance						3				1		Type 1C - 848.06
13549	8	SR-5878 (Old Apex Rd)	Old Apex Road Center (1517 Old Apex Rd) West Entrance						3				1		Type 1C - 848.06
13546	9	SR-5878 (Old Apex Rd)	Old Apex Road Center (1517 Old Apex Rd) East Entrance						3				1		Type 1C - 848.06
Sub-Total				6	10	8	0	12	33	0	0	0	21	1	

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

ADA SUMMARY OF QUANTITIES -OLD APEX RD FROM W CHATHAM ST TO SR 1614

Municipality:	Apex Cary
Project Number:	2025CPT.05.02.20921.1
County:	Wake

Sheet No.	18
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Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2535000000-E (LF) 8" X 12" Concrete Curb	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2612300000-N (EA) Retrofit Existing Concrete Curb Ramp	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Curb Ramps	Improvement Type
13547	9	SR-5878 (Old Apex Rd)	Old Apex Road Center (1517 Old Apex Rd) East Entrance						3				1		Type 1C - 848.06
13544	10	SR-5878 (Old Apex Rd)	Jehovah's Witnesses (1445 Old Apex Rd)						6				1		Type 1 Modified - 848.06
13545	10	SR-5878 (Old Apex Rd)	Jehovah's Witnesses (1445 Old Apex Rd)						3				1		Type 1 Modified - 848.06
13542	11	SR-5878 (Old Apex Rd)	Town of Cary Utility Department (1431 Old Apex Rd)						9				1		Type 1C - 848.06
13543	11	SR-5878 (Old Apex Rd)	Town of Cary Utility Department (1431 Old Apex Rd)						6	3			1		Type 1C - 848.06
13540	12	SR-5878 (Old Apex Rd)	Garden Supply Company (1421 Old Apex Rd)										1		Type 1C - 848.06
13541	12	SR-5878 (Old Apex Rd)	Garden Supply Company (1421 Old Apex Rd)										1		Type 1C - 848.06
13536	13	SR-5878 (Old Apex Rd)	Cary Fire Station no.4 (1401 Old Apex Rd)										1		Type 1 Modified - 848.06
13537	13	SR-5878 (Old Apex Rd)	Cary Fire Station no.4 (1401 Old Apex Rd)										1		Type 1 Modified - 848.06
13538	13	SR-5878 (Old Apex Rd)	Cary Fire Station no.4 (1401 Old Apex Rd)										1		Type 1C - 848.06
13539	13	SR-5878 (Old Apex Rd)	Cary Fire Station no.4 (1401 Old Apex Rd)			3							1		Type 1C - 848.06
13535	14	SR-5878 (Old Apex Rd)	Abbey Road Tavern and Grill (1195 W Chatham St) Old Apex Rd Entrance			12			6		3		1		Type 1 Modified - 848.06
13527	15	SR-1616 (Old Apex Rd)	W Chatham St										1		Standard - 848.06
13528	15	SR-1616 (Old Apex Rd)	W Chatham St		12			9						1	Remove Ramp
13532	15	SR-5878 (Old Apex Rd)	W Chatham St		12			9						1	Remove Ramp
13533	15	SR-5878 (Old Apex Rd)	W Chatham St										1		Standard - 848.06
Sub-Total				0	24	15	0	18	33	3	3	0	14	2	
Sub-Total for Old Apex Rd From W Chatham St To SR 1614				6	34	23	0	30	66	3	3	0	35	3	

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

ADA SUMMARY OF QUANTITIES - EBENEZER CHURCH RD FROM SR 1647 TO SR 1664

Municipality:	Raleigh
Project Number:	2025CPT.05.02.20921.1
County:	Wake

Sheet No.
19

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2535000000-E (LF) 8" X 12" Concrete Curb	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2612300000-N (EA) Retrofit Existing Concrete Curb Ramp	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Curb Ramps	Improvement Type
9108	1	SR-1649 (Ebenezer Church Rd)	Bridgeton Park Dr										1		Type 1C - 848.06
9109	1	SR-1649 (Ebenezer Church Rd)	Bridgeton Park Dr		20									1	Remove Ramp
9110	1	SR-1649 (Ebenezer Church Rd)	Bridgeton Park Dr		10								1		Type 3 Modified - 848D0609
9111	1	SR-1649 (Ebenezer Church Rd)	Bridgeton Park Dr		25									1	Remove Ramp
9112	2	SR-1649 (Ebenezer Church Rd)	Burwell Rollins Cir										1		Type 3 Modified - 848D0609
9113	2	SR-1649 (Ebenezer Church Rd)	Burwell Rollins Cir										1		Type 3 Modified - 848D0609
9114	3	SR-1649 (Ebenezer Church Rd)	Touchstone Forest Rd										1		Standard - 848.06
9115	3	SR-1649 (Ebenezer Church Rd)	Touchstone Forest Rd		15			9						1	Remove Ramp
25995	4	SR-1649 (Ebenezer Church Rd)	Harbourgate Dr		18									1	Remove Ramp
25996	4	SR-1649 (Ebenezer Church Rd)	Harbourgate Dr		15					6				1	Remove Ramp
25997	4	SR-1649 (Ebenezer Church Rd)	Harbourgate Dr										1		Type 3 Modified - 848D0609
25998	4	SR-1649 (Ebenezer Church Rd)	Harbourgate Dr		18			12						1	Remove Ramp
25999	5	SR-1649 (Ebenezer Church Rd)	Neiman Cv		18									1	Remove Ramp
26000	5	SR-1649 (Ebenezer Church Rd)	Neiman Cv										1		Standard - 848.06
26001	6	SR-1649 (Ebenezer Church Rd)	Clyden Cv		18									1	Remove Ramp
26002	6	SR-1649 (Ebenezer Church Rd)	Clyden Cv									1			Retrofit Warnings
26003	7	SR-1649 (Ebenezer Church Rd)	Poyner Rd									1			Retrofit Warnings
26004	7	SR-1649 (Ebenezer Church Rd)	Poyner Rd		18									1	Remove Ramp
Sub-Total for Ebenezer Church Rd From SR 1647 To SR 1664				0	175	0	0	21	0	6	0	2	7	9	

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

ADA SUMMARY OF QUANTITIES - GLOBE RD FROM I-540 TO DEAD END

Municipality:	Raleigh Cary
Project Number:	2025CPT.05.02.20921.1
County:	Wake

Sheet No.
20

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2535000000-E (LF) 8" X 12" Concrete Curb	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2612300000-N (EA) Retrofit Existing Concrete Curb Ramp	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Curb Ramps	Improvement Type
12917	1	SR-1644 (Globe Rd)	Pinhall Company (111 First Flight Ln) Globe Rd Back Entrance										1		Type 1 Modified - 848.06
12918	1	SR-1644 (Globe Rd)	Pinhall Company (111 First Flight Ln) Globe Rd Back Entrance						6				1		Type 1 Modified - 848.06
12919	2	SR-1644 (Globe Rd)	DHL (400 Kitty Hawk Dr)										1		Type 1 Modified - 848.06
12920	2	SR-1644 (Globe Rd)	DHL (400 Kitty Hawk Dr)								1		1		Type 1 Modified - 848.06
12924	3	SR-1644 (Globe Rd)	Globe Center Dr										1		Type 1D - 848.06
12925	3	SR-1644 (Globe Rd)	Globe Center Dr		18			9						1	Remove Ramp
12926	3	SR-1644 (Globe Rd)	Globe Center Dr		20									1	Remove Ramp
12927	3	SR-1644 (Globe Rd)	Globe Center Dr						6				1		Type 1C - 848.06
12928	4	SR-1644 (Globe Rd)	Eaton Delivery Entrance (9400 Globe Center Dr)						6	10			1		Type 2A Modified - 848.06
12929	4	SR-1644 (Globe Rd)	Eaton Delivery Entrance (9400 Globe Center Dr)						6	6			1		Type 1C - 848.06
12930	4	SR-1644 (Globe Rd)	Waste Management (10405 Globe Rd) Entrance										1		Type 2A Modified - 848.06
Sub-Total for Globe Rd From I-540 To Dead End				0	38	0	0	9	24	16	1	0	9	2	

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

ADA SUMMARY OF QUANTITIES - TOTALS

Project Number:	2025CPT.05.02.20921.1
County:	Wake

Sheet No.	21
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Project Number	County	Municipality	Resurfacing Route	4447000000-E (LF) Pedestrian Channelizing Devices	4600000000-N (EA) Generic Traffic Control Item - Pedestrian Transport Service (Per Trip)	4600000000-N (EA) Generic Traffic Control Item - Audible Warning Devices	0156000000-E (SY) Removal of Existing Asphalt Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove and Replace Curb & Gutter	2535000000-E (LF) 8" X 12" Concrete Curb	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove and Replace Sidewalk	2738000000-E (SY) Remove Sidewalk	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2612300000-N (EA) Retrofit Existing Concrete Curb Ramp	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Curb Ramps
2025CPT.05.02.20921.1	Wake	Apex Outside Municipality	Old US 1 From NC 55 To Chatham Co				20	77	22	15	59	21	0	3	0	16	5
2025CPT.05.02.20921.1	Wake	Apex Cary	Old Apex Rd From W Chatham St To SR 1614				6	34	23	0	30	66	3	3	0	35	3
2025CPT.05.02.20921.1	Wake	Raleigh	Ebenezer Church Rd From SR 1647 To SR 1664				0	175	0	0	21	0	6	0	2	7	9
2025CPT.05.02.20921.1	Wake	Raleigh Cary	Globe Rd From I-540 To Dead End				0	38	0	0	9	24	16	1	0	9	2
-	-	-	-	120	20	4	-	198*	-	-	-	-	-	-	-	-	-
GRAND TOTAL				120	20	4	26	522	45	15	119	111	25	7	2	67	19

*Contingency line item amount provided for adjustments outside of curb ramp pay limits.

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.05.02.10921.1, etc.	22	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		0156000000-E		0163000000-E		1112000000-E		1099500000-E		1099700000-E		1220000000-E		1245000000-E		1260000000-E		1297000000-E		1308000000-E		1330000000-E		1491000000-E		1519000000-E		1575000000-E	
							MI	FT	SY	SY	SY	CY	TON	TONS	SMI	TON	SY	SY	SY	SY	SY	TONS	TONS	TON												
2025CPT.05.02.10921.1	Wake	1	NC-54 E / HILLSBOROUGH ST	FROM PAVEMENT JOINT TO U-4437 WEST LIMITS	4	2	0.416	38												20	0.83	77	9,272					1,635			920		61			
	TOTAL FOR PROJ NO. 2025CPT.05.02.10921.1							0.416												20	0.83	77	9,272					1,635			920		61			
2025CPT.05.02.20921.1	Wake	2	SR-5878 / N SALEM ST / OLD APEX RD	FROM W CHATHAM ST TO SR 1614	4	2	1.7	22-64	6	272	272	91	188	42	1.69	156	43,023										2,480	136	3,953	279						
	Wake	3	SR-1011 / S SALEM ST / OLD US 1 HWY	FROM NC 55 TO CHATHAM COUNTY	4	2	8.697	22-66	20	572	572	191	395	408	16.30	1,506	129,409										10,169	286	12,146	810						
	Wake	4	SR-1644 / GLOBE RD	FROM BRG #761 TO END MAINT	3	2	0.72	22-60																		1,350			1,085	74						
	Wake	5	SR-1649 / EBENEZER CHURCH RD	FROM SR 1647 TO SR 1664	3	2	4.045	25-56																			1,540		5,606	368						
	Wake	6	SR-1766 / MELODY LN	FROM SR 1650 TO SR 1652	3	2	0.224	20																			40	167	244	19						
	Wake	7	SR-3046 / HOMESTEAD DR	FROM SR 1652 TO END MAINT	3	2	0.54	22																			2,265	407	661	45						
	Wake	8	SR-3107 / STONECREST CT	FROM SR 3106 TO CUL-DE-SAC	2	2	0.06	18																						71	5					
	Wake	9	SR-3106 / STONERIDGE DR	FROM SR 1649 TO DEAD END	2	2	0.48	20																				180	437	31						
	Wake	10	SR-3038 / RICHLAND DR	FROM SR 1649 TO END MAINT	2	2	0.27	18																				125	207	21						
	Wake	11	SR-1342 / POWELL DR	FROM NC 54 TO RR TRACKS	4	2	0.06	24																				300	74	6						
	TOTAL FOR PROJ NO. 2025CPT.05.02.20921.1							16.796		26	844	844	282	583	716	26.98	2,493	172,977	4,915									15,368	422	24,484	1,658					
2025CPT.05.02.20922.1	Wake	12	SR-3047 / SETTLERS CIR	FROM SR 3046 TO CUL-DE-SAC	1	2	0.06	22																			282	277	61	5						
	Wake	13	SR-3056 / HERITAGE CT	FROM SR 3046 TO CUL-DE-SAC	1	2	0.07	22																			329	282	69	5						
	Wake	14	SR-1203 / GREENLEA DR	FROM SR 1101 TO SR 1204	1	2	0.079	20																				111	54	4						
	Wake	15	SR-1204 / PINEDALE RD	FROM SR 1203 TO CUL-DE-SAC	1	2	0.179	18																						145	10					
	Wake	16	SR-3133 / CARE FREE CV	FROM SR 1204 TO CUL-DE-SAC	1	2	0.053	18																						50	4					
TOTAL FOR PROJ NO. 2025CPT.05.02.20922.1							0.441							16													611	670	379	28						
GRAND TOTAL							17.653		26	844	844	282	583	752	27.81	2,570	182,249	4,915	611	17,673	422	25,783	1,747													

PROJECT NO.	SHEET NO.
2025CPT.05.02.10921.1, etc.	23

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	1704000000-E		2535000000-E	2549000000-E	2591000000-E	2612500000-N	2738000000-E			2752000000-E	2759000000-N	2612300000-N	2830000000-N	2845000000-N	4600000000-N		7444000000-E	
							LENGTH	WIDTH	8" X 12" CONCRETE CURB	2'-6" CONCRETE CURB & GUTTER	4" CONCRETE SIDEWALK	REMOVE AND REPLACE CONCRETE CURB RAMPS	REMOVE AND REPLACE SIDEWALK	REMOVE SIDEWALK	REMOVE AND REPLACE CURB & GUTTER	REMOVE CURB RAMPS	RETROFIT EXISTING CONCRETE CURB RAMP	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	AUDIBLE WARNING DEVICES	PEDESTRIAN TRANSPORT SERVICE (PER TRIP)	INDUCTIVE LOOP SAWCUT		
							MI	FT	TONS	LF	LF	SY	EA	SY	SY	LF	EA	EA	EA	EA	EA	EA	EA	
2025CPT.05.02.10921.1	Wake	1	NC-54 E / HILLSBOROUGH ST	FROM PAVEMENT JOINT TO U-4437 WEST LIMITS	4	2	0.416	38	20															
	TOTAL FOR PROJ NO. 2025CPT.05.02.10921.1							0.416		20														
2025CPT.05.02.20921.1	Wake	2	SR-5878 / N SALEM ST / OLD APEX RD	FROM W CHATHAM ST TO SR 1614	4	2	1.7	22-64	326		54	30	35	66	3	23	3			2	16	1	5	2,022
	Wake	3	SR-1011 / S SALEM ST/ OLD US 1 HWY	FROM NC 55 TO CHATHAM COUNTY	4	2	8.697	22-66	160	15	124	59	16	21		22	5				3	1	5	2,066
	Wake	4	SR-1644 / GLOBE RD	FROM BRG #761 TO END MAINT	3	2	0.72	22-60	63		62	9	9	24	16						1	1	5	
	Wake	5	SR-1649 / EBENEZER CHURCH RD	FROM SR 1647 TO SR 1664	3	2	4.045	25-56	80		282	21	7		6		9	2		2	1	1	5	
	Wake	6	SR-1766 / MELODY LN	FROM SR 1650 TO SR 1652	3	2	0.224	20	57															
	Wake	7	SR-3046 / HOMESTEAD DR	FROM SR 1652 TO END MAINT	3	2	0.54	22	50															
	Wake	8	SR-3107 / STONECREST CT	FROM SR 3106 TO CUL-DE-SAC	2	2	0.06	18	15															
	Wake	9	SR-3106 / STONERIDGE DR	FROM SR 1649 TO DEAD END	2	2	0.48	20	48													1		
	Wake	10	SR-3038 / RICHLAND DR	FROM SR 1649 TO END MAINT	2	2	0.27	18	152															
	Wake	11	SR-1342 / POWELL DR	FROM NC 54 TO RR TRACKS	4	2	0.06	24	15												1	2		
TOTAL FOR PROJ NO. 2025CPT.05.02.20921.1							16.796		966	15	522	119	67	111	25	45	19	2	5	24	4	20	4,088	
2025CPT.05.02.20922.1	Wake	12	SR-3047 / SETTLERS CIR	FROM SR 3046 TO CUL-DE-SAC	1	2	0.06	22	24															
	Wake	13	SR-3056 / HERITAGE CT	FROM SR 3046 TO CUL-DE-SAC	1	2	0.07	22	15															
	Wake	14	SR-1203 / GREENLEA DR	FROM SR 1101 TO SR 1204	1	2	0.079	20	15															
	Wake	15	SR-1204 / PINEDALE RD	FROM SR 1203 TO CUL-DE-SAC	1	2	0.179	18	13															
	Wake	16	SR-3133 / CARE FREE CV	FROM SR 1204 TO CUL-DE-SAC	1	2	0.053	18	15															
TOTAL FOR PROJ NO. 2025CPT.05.02.20922.1							0.441		82															
GRAND TOTAL							17.653		1,068	15	522	119	67	111	25	45	19	2	5	24	4	20	4,088	

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.05.02.10921.1, etc.	24	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH	WIDTH	4413000000-E	4447000000-E	4457000000-N	4510000000-N	4685000000-E		4688000000-E	4695000000-E		4700000000-E		4704000000-E	4709000000-E	4720000000-E											
							MI	FT	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	PEDESTRIAN CHANNELIZING DEVICES	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	8" X 90 M YELLOW THERMO	12" X 90 M YELLOW THERMO	12" X 90 M WHITE THERMO	16" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	THERMO MSG ONLY 90 M	THERMO MSG RXR 90 M	SF	LF	LS	HR	LF	LF	LF	LF	LF	LF
2025CPT.05.02.10921.1	Wake	1	NC-54 E / HILLSBOROUGH ST	FROM PAVEMENT JOINT TO U-4437 WEST LIMITS	4	2	0.416	38	47		*	40	4,476	5,490		82						30											
TOTAL FOR PROJ NO. 2025CPT.05.02.10921.1							0.416		47		*	40	4,476	5,490		82					30												
													9,966		82																		
2025CPT.05.02.20921.1	Wake	2	SR-5878 / N SALEM ST / OLD APEX RD	FROM W CHATHAM ST TO SR 1614	4	2	1.7	22-64	190	30		120	15,872	23,155		1,590	675			50	675	8	2										
	Wake	3	SR-1011 / S SALEM ST/ OLD US 1 HWY	FROM NC 55 TO CHATHAM COUNTY	4	2	8.697	22-66	975	30		80	94,735	76,642	32	285	167	642	97	50	583	8	2										
	Wake	4	SR-1644 / GLOBE RD	FROM BRG #761 TO END MAINT	3	2	0.72	22-60	81	30			6,175	8,570																			
	Wake	5	SR-1649 / EBENEZER CHURCH RD	FROM SR 1647 TO SR 1664	3	2	4.045	25-56	453	30			42,320	67,612				352			30	4											
	Wake	6	SR-1766 / MELODY LN	FROM SR 1650 TO SR 1652	3	2	0.224	20	25																								
	Wake	7	SR-3046 / HOMESTEAD DR	FROM SR 1652 TO END MAINT	3	2	0.54	22	54																								
	Wake	8	SR-3107 / STONECREST CT	FROM SR 3106 TO CUL-DE-SAC	2	2	0.06	18	7																								
	Wake	9	SR-3106 / STONERIDGE DR	FROM SR 1649 TO DEAD END	2	2	0.48	20	54																								
	Wake	10	SR-3038 / RICHLAND DR	FROM SR 1649 TO END MAINT	2	2	0.27	18	30																								
	Wake	11	SR-1342 / POWELL DR	FROM NC 54 TO RR TRACKS	4	2	0.06	24	7				646	634						50	39		2										
TOTAL FOR PROJ NO. 2025CPT.05.02.20921.1							16.796		1,876	120	*	200	159,748	176,613	32	1,875	842	994	97	150	1,327	20	6										
													336,361		2,717	1,091																	
2025CPT.05.02.20922.1	Wake	12	SR-3047 / SETTLERS CIR	FROM SR 3046 TO CUL-DE-SAC	1	2	0.06	22	7																								
	Wake	13	SR-3056 / HERITAGE CT	FROM SR 3046 TO CUL-DE-SAC	1	2	0.07	22	8																								
	Wake	14	SR-1203 / GREENLEA DR	FROM SR 1101 TO SR 1204	1	2	0.079	20	9																								
	Wake	15	SR-1204 / PINEDALE RD	FROM SR 1203 TO CUL-DE-SAC	1	2	0.179	18	20																								
	Wake	16	SR-3133 / CARE FREE CV	FROM SR 1204 TO CUL-DE-SAC	1	2	0.053	18	6																								
TOTAL FOR PROJ NO. 2025CPT.05.02.20922.1							0.441		50		*																						
GRAND TOTAL							17.653		1,973	120	1.000	240	164,224	182,103	32	1,957	842	994	97	150	1,357	20	6										
													346,327		2,799	1,091																	

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.05.02.10921.1, etc.	25	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		4725000000-E							4770000000-E		4785000000-E	4850000000-E	4865000000-E	4890000000-E	4905100000-N
							MI	FT	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO MERGE ARROW 90 M	THERMO STR ARROW 90 M	THERMO RT ARROW 90 M	THERMO ELONGATED STR ARROW 90 M	4" WHITE COLD APPLIED PLASTIC, TYPE III	4" YELLOW COLD APPLIED PLASTIC, TYPE III	12" YELLOW COLD APPLIED PLASTIC, TYPE III	4" LINE REMOVAL	12" LINE REMOVAL	YIELD LINE PAVEMENT MARKING, 24", 90 MILS	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	
									EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	
2025CPT.05.02.10921.1	Wake	1	NC-54 E / HILLSBOROUGH ST	FROM PAVEMENT JOINT TO U-4437 WEST LIMITS	4	2	0.416	38	12	1											110	
TOTAL FOR PROJ NO. 2025CPT.05.02.10921.1							0.416		12	1											110	
									13													
2025CPT.05.02.20921.1	Wake	2	SR-5878 / N SALEM ST / OLD APEX RD	FROM W CHATHAM ST TO SR 1614	4	2	1.7	22-64	32	9	6	14	10								395	
	Wake	3	SR-1011 / S SALEM ST/ OLD US 1 HWY	FROM NC 55 TO CHATHAM COUNTY	4	2	8.697	22-66	35	2		17	23	2	564	1,128	168	1,692	168	13	230	
	Wake	4	SR-1644 / GLOBE RD	FROM BRG #761 TO END MAINT	3	2	0.72	22-60	10													
	Wake	5	SR-1649 / EBENEZER CHURCH RD	FROM SR 1647 TO SR 1664	3	2	4.045	25-56	6				4		620	620		1,240				
	Wake	6	SR-1766 / MELODY LN	FROM SR 1650 TO SR 1652	3	2	0.224	20														
	Wake	7	SR-3046 / HOMESTEAD DR	FROM SR 1652 TO END MAINT	3	2	0.54	22														
	Wake	8	SR-3107 / STONECREST CT	FROM SR 3106 TO CUL-DE-SAC	2	2	0.06	18														
	Wake	9	SR-3106 / STONERIDGE DR	FROM SR 1649 TO DEAD END	2	2	0.48	20														
	Wake	10	SR-3038 / RICHLAND DR	FROM SR 1649 TO END MAINT	2	2	0.27	18														
	Wake	11	SR-1342 / POWELL DR	FROM NC 54 TO RR TRACKS	4	2	0.06	24														
TOTAL FOR PROJ NO. 2025CPT.05.02.20921.1							16.796		83	11	6	31	37	2	1,184	1,748	168	2,932	168	13	625	
									170							2,932						
2025CPT.05.02.20922.1	Wake	12	SR-3047 / SETTLERS CIR	FROM SR 3046 TO CUL-DE-SAC	1	2	0.06	22														
	Wake	13	SR-3056 / HERITAGE CT	FROM SR 3046 TO CUL-DE-SAC	1	2	0.07	22														
	Wake	14	SR-1203 / GREENLEA DR	FROM SR 1101 TO SR 1204	1	2	0.079	20														
	Wake	15	SR-1204 / PINEDALE RD	FROM SR 1203 TO CUL-DE-SAC	1	2	0.179	18														
	Wake	16	SR-3133 / CARE FREE CV	FROM SR 1204 TO CUL-DE-SAC	1	2	0.053	18														
TOTAL FOR PROJ NO. 2025CPT.05.02.20922.1							0.441															
GRAND TOTAL							17.653		95	12	6	31	37	2	1,184	1,748	168	2,932	168	13	735	
									183							2,932						

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		WIDTH	
							MI	FT		
2025CPT.05.02.10921.1	Wake	1	NC-54 E / HILLSBOROUGH ST	FROM PAVEMENT JOINT TO U-4437 WEST LIMITS	4	2	0.416		38	
TOTAL FOR PROJ NO. 2025CPT.05.02.10921.1								0.416		
2025CPT.05.02.20921.1	Wake	2	SR-5878 / N SALEM ST / OLD APEX RD	FROM W CHATHAM ST TO SR 1614	4	2	1.7		22-64	
	Wake	3	SR-1011 / S SALEM ST/ OLD US 1 HWY	FROM NC 55 TO CHATHAM COUNTY	4	2	8.697		22-66	
	Wake	4	SR-1644 / GLOBE RD	FROM BRG #761 TO END MAINT	3	2	0.72		22-60	
	Wake	5	SR-1649 / EBENEZER CHURCH RD	FROM SR 1647 TO SR 1664	3	2	4.045		25-56	
	Wake	6	SR-1766 / MELODY LN	FROM SR 1650 TO SR 1652	3	2	0.224		20	
	Wake	7	SR-3046 / HOMESTEAD DR	FROM SR 1652 TO END MAINT	3	2	0.54		22	
	Wake	8	SR-3107 / STONECREST CT	FROM SR 3106 TO CUL-DE-SAC	2	2	0.06		18	
	Wake	9	SR-3106 / STONERIDGE DR	FROM SR 1649 TO DEAD END	2	2	0.48		20	
	Wake	10	SR-3038 / RICHLAND DR	FROM SR 1649 TO END MAINT	2	2	0.27		18	
	Wake	11	SR-1342 / POWELL DR	FROM NC 54 TO RR TRACKS	4	2	0.06		24	
TOTAL FOR PROJ NO. 2025CPT.05.02.20921.1								16.796		
2025CPT.05.02.20922.1	Wake	12	SR-3047 / SETTLERS CIR	FROM SR 3046 TO CUL-DE-SAC	1	2	0.06		22	
	Wake	13	SR-3056 / HERITAGE CT	FROM SR 3046 TO CUL-DE-SAC	1	2	0.07		22	
	Wake	14	SR-1203 / GREENLEA DR	FROM SR 1101 TO SR 1204	1	2	0.079		20	
	Wake	15	SR-1204 / PINEDALE RD	FROM SR 1203 TO CUL-DE-SAC	1	2	0.179		18	
	Wake	16	SR-3133 / CARE FREE CV	FROM SR 1204 TO CUL-DE-SAC	1	2	0.053		18	
TOTAL FOR PROJ NO. 2025CPT.05.02.20922.1								0.441		
GRAND TOTAL								17.653		

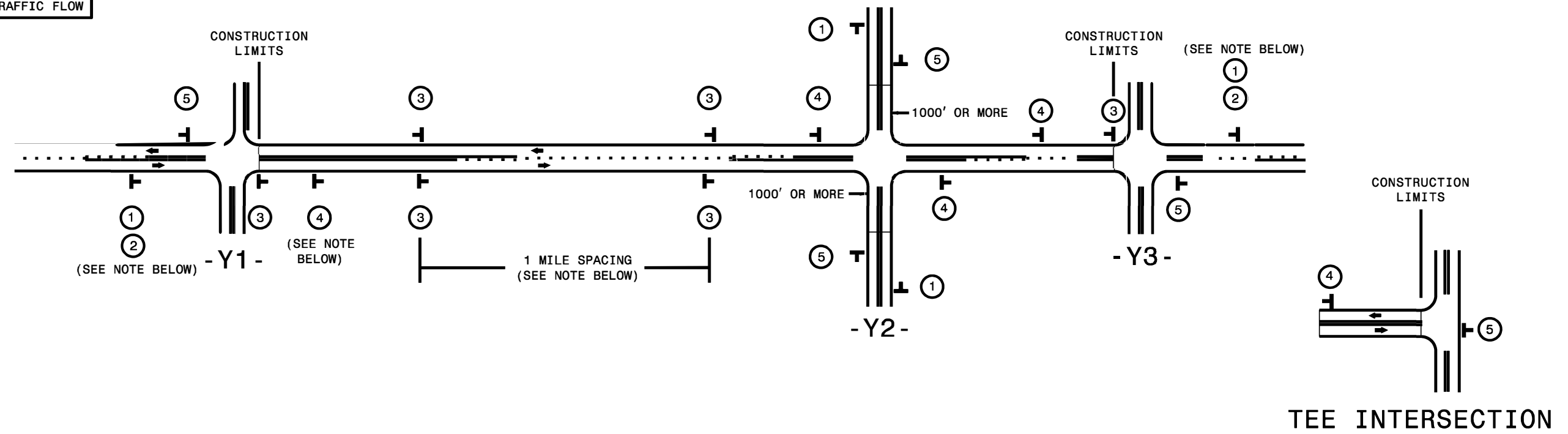
PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.05.02.10921.1, etc.	25	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LENGTH		4725000000-E							4770000000-E		4785000000-E	4850000000-E	4865000000-E	4890000000-E	4905100000-N
							MI	FT	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO MERGE ARROW 90 M	THERMO STR ARROW 90 M	THERMO RT ARROW 90 M	THERMO ELONGATED STR ARROW 90 M	4" WHITE COLD APPLIED PLASTIC, TYPE III	4" YELLOW COLD APPLIED PLASTIC, TYPE III	12" YELLOW COLD APPLIED PLASTIC, TYPE III	4" LINE REMOVAL	12" LINE REMOVAL	YIELD LINE THERMO PAVEMENT MARKING, 24", 90 MILS	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	
									EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	
2025CPT.05.02.10921.1	Wake	1	NC-54 E / HILLSBOROUGH ST	FROM PAVEMENT JOINT TO U-4437 WEST LIMITS	4	2	0.416	38	12	1											110	
TOTAL FOR PROJ NO. 2025CPT.05.02.10921.1							0.416		12	1											110	
									13													
2025CPT.05.02.20921.1	Wake	2	SR-5878 / N SALEM ST / OLD APEX RD	FROM W CHATHAM ST TO SR 1614	4	2	1.7	22-64	32	9	6	14	10								395	
	Wake	3	SR-1011 / S SALEM ST/ OLD US 1 HWY	FROM NC 55 TO CHATHAM COUNTY	4	2	8.697	22-66	35	2		17	23	2	564	1,128	168	1,692	168	13	230	
	Wake	4	SR-1644 / GLOBE RD	FROM BRG #761 TO END MAINT	3	2	0.72	22-60	10													
	Wake	5	SR-1649 / EBENEZER CHURCH RD	FROM SR 1647 TO SR 1664	3	2	4.045	25-56	6				4		620	620		1,240				
	Wake	6	SR-1766 / MELODY LN	FROM SR 1650 TO SR 1652	3	2	0.224	20														
	Wake	7	SR-3046 / HOMESTEAD DR	FROM SR 1652 TO END MAINT	3	2	0.54	22														
	Wake	8	SR-3107 / STONECREST CT	FROM SR 3106 TO CUL-DE-SAC	2	2	0.06	18														
	Wake	9	SR-3106 / STONERIDGE DR	FROM SR 1649 TO DEAD END	2	2	0.48	20														
	Wake	10	SR-3038 / RICHLAND DR	FROM SR 1649 TO END MAINT	2	2	0.27	18														
	Wake	11	SR-1342 / POWELL DR	FROM NC 54 TO RR TRACKS	4	2	0.06	24														
TOTAL FOR PROJ NO. 2025CPT.05.02.20921.1							16.796		83	11	6	31	37	2	1,184	1,748	168	2,932	168	13	625	
									170							2,932						
2025CPT.05.02.20922.1	Wake	12	SR-3047 / SETTLERS CIR	FROM SR 3046 TO CUL-DE-SAC	1	2	0.06	22														
	Wake	13	SR-3056 / HERITAGE CT	FROM SR 3046 TO CUL-DE-SAC	1	2	0.07	22														
	Wake	14	SR-1203 / GREENLEA DR	FROM SR 1101 TO SR 1204	1	2	0.079	20														
	Wake	15	SR-1204 / PINEDALE RD	FROM SR 1203 TO CUL-DE-SAC	1	2	0.179	18														
	Wake	16	SR-3133 / CARE FREE CV	FROM SR 1204 TO CUL-DE-SAC	1	2	0.053	18														
TOTAL FOR PROJ NO. 2025CPT.05.02.20922.1							0.441															
GRAND TOTAL							17.653		95	12	6	31	37	2	1,184	1,748	168	2,932	168	13	735	
									183							2,932						





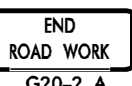
SIGNING FOR RESURFACING PROJECTS


LEGEND
 STATIONARY SIGN
 DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING


-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	 1  2	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS: 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.
	 3	- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	 4	- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	 5	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.		



W20-1
48" X 48"

PLACED 500' IN ADVANCE OF FLAGGER.

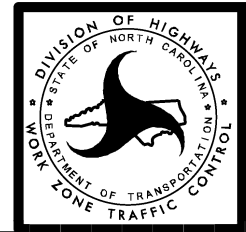


W20-7 A
48" X 48"

PLACED 250' IN ADVANCE OF FLAGGER.

MAPS LESS THAN 2 MILES

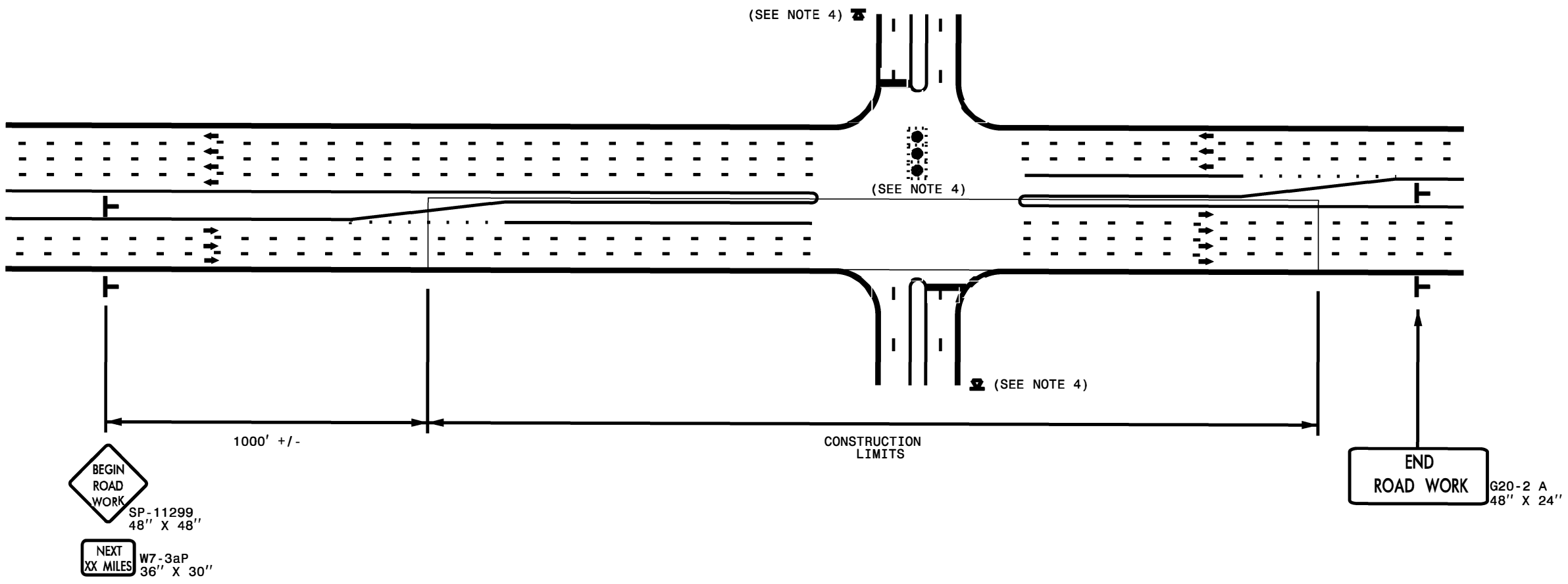
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



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

\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$CDON\$\$\$\$\$
 \$\$\$USERNAME\$\$\$\$\$

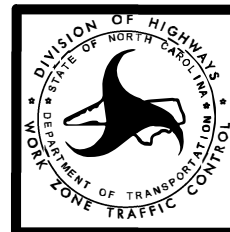
URBAN / SUBURBAN WORKZONES



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	
T	STATIONARY SIGN
➔	DIRECTION OF TRAFFIC FLOW



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

\$\$\$SYTIME\$\$\$\$\$
 \$\$\$DCON\$\$\$\$\$
 \$\$\$USERNAM\$\$\$\$\$

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

10-17

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SIDE-BY-SIDE/ADJACENT ON/OFF RAMP
PAVEMENT MARKING LANE TREATMENT

SHEET 1 OF 1

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

10-17

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SIDE-BY-SIDE/ADJACENT ON/OFF RAMP
PAVEMENT MARKING LANE TREATMENT

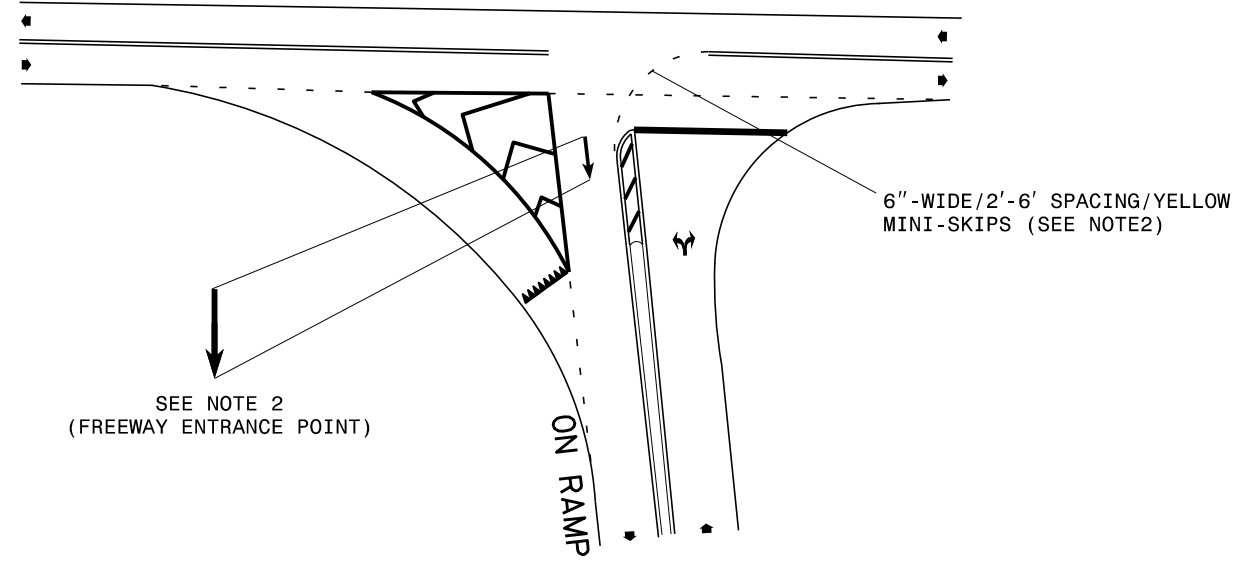
SHEET 1 OF 1

TWO-LANE, TWO-WAY

*FREEWAY ENTRANCE ARROWS ARE TO BE ADDED ON MAP 3

DUAL LEFT TO ENTRANCE RAMP

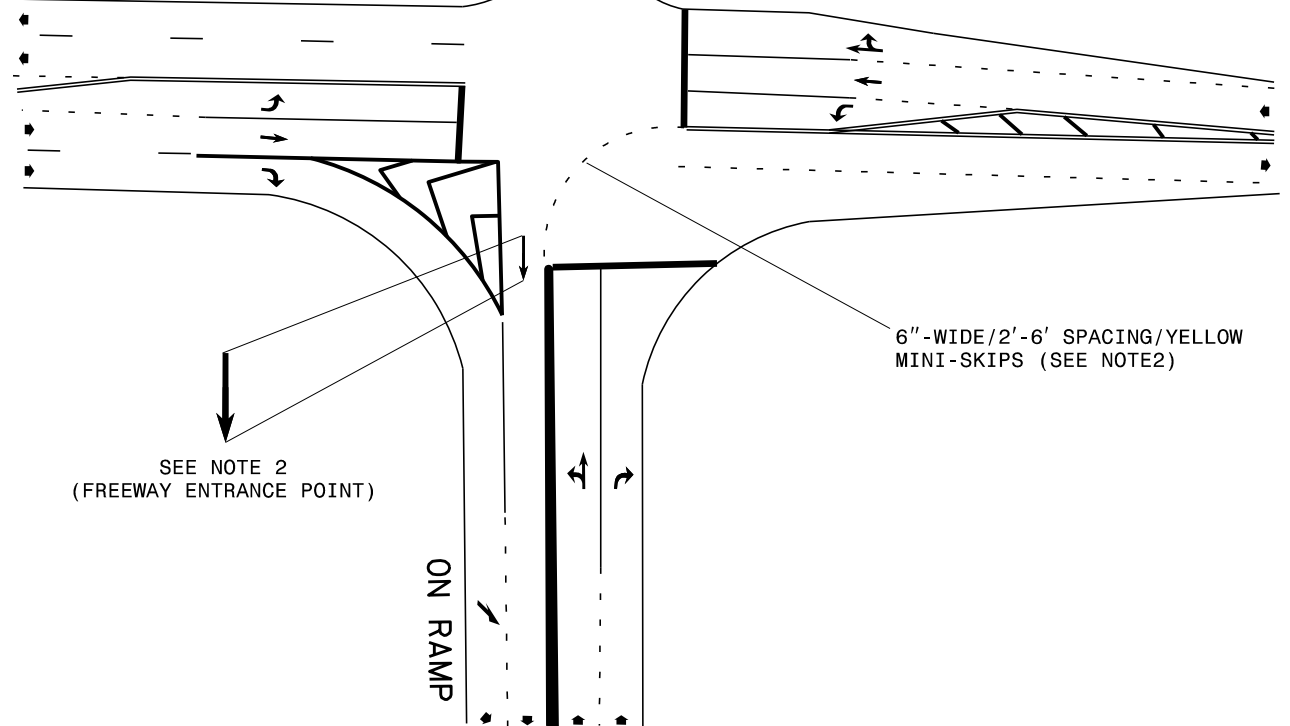
Y LINE



SEE NOTE 2
(FREEWAY ENTRANCE POINT)

SINGLE LEFT TO ENTRANCE RAMP

Y LINE

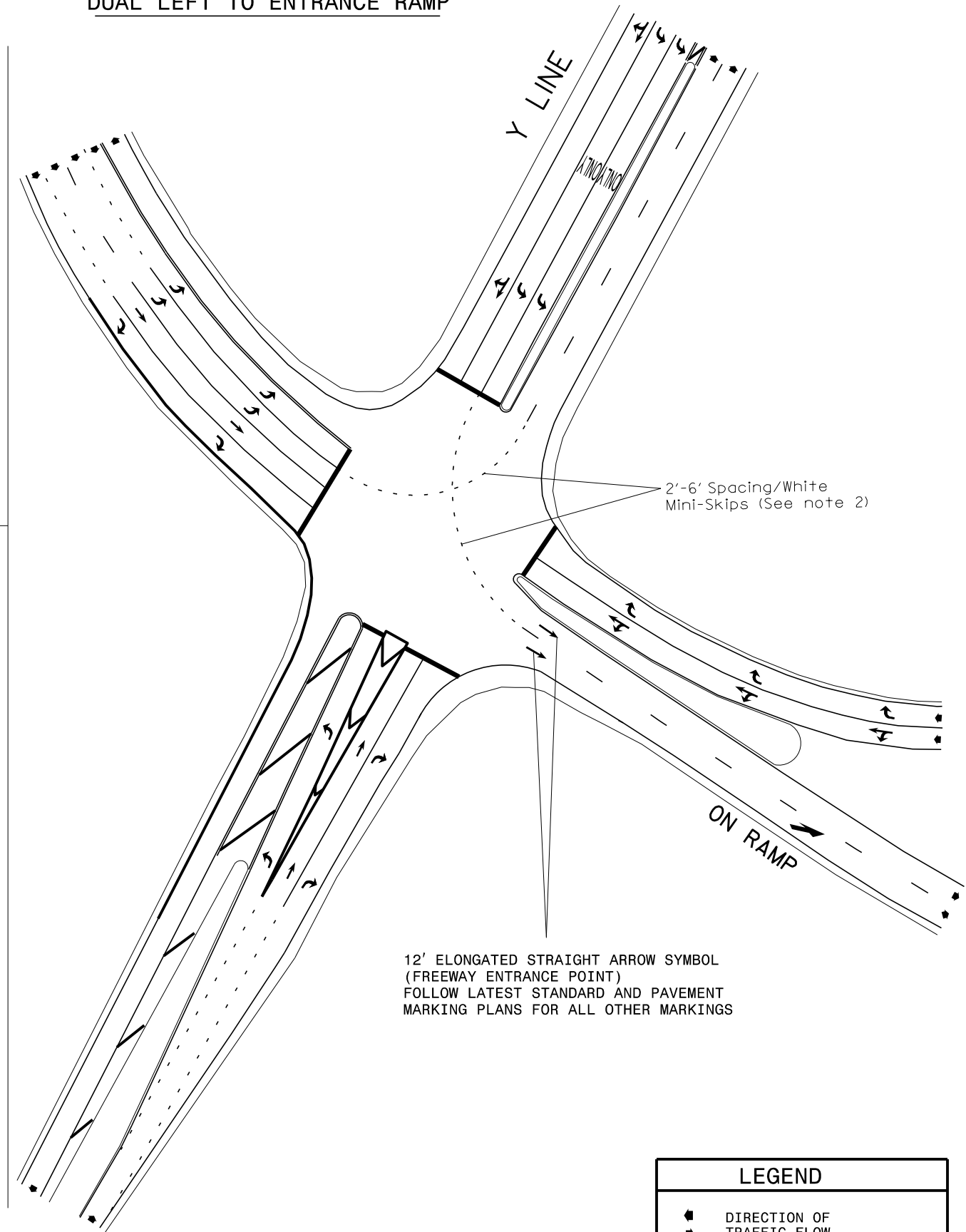


SEE NOTE 2
(FREEWAY ENTRANCE POINT)

6"-WIDE/2'-6' SPACING/YELLOW
MINI-SKIPS (SEE NOTE2)

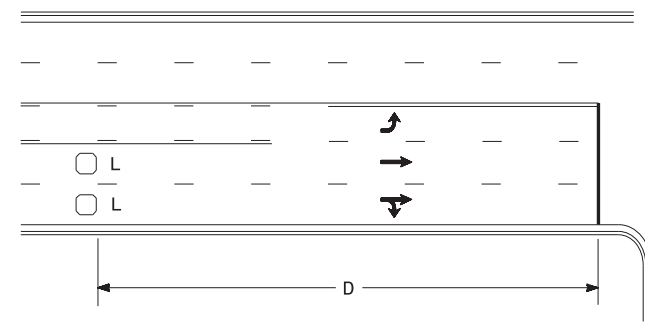
NOTES:

- REFER TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS AND THE PAVEMENT MARKING PLANS FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- PROPOSED MINI-SKIPS AND ELONGATED STRAIGHT ARROW SYMBOL MATERIALS SHALL BE PER THE PAVEMENT MARKING PLAN OR AS DIRECTED BY THE ENGINEER. ELONGATED STRAIGHT ARROW SHALL BE APPROXIMATELY 12' LONG AND SHALL BE PAID AS A SYMBOL.



LEGEND	
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS

High Speed Detection (≥40 mph)

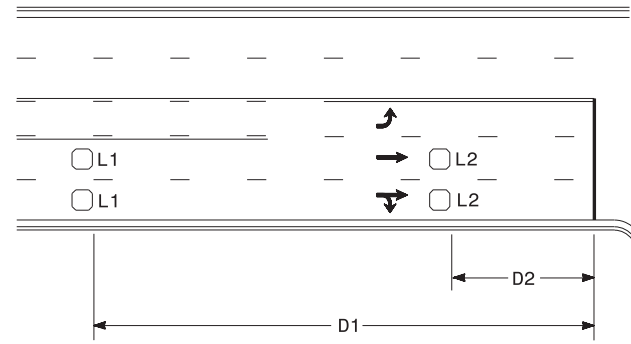


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR

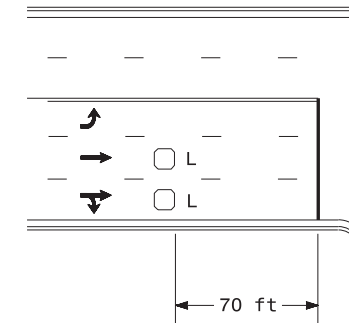


Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

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

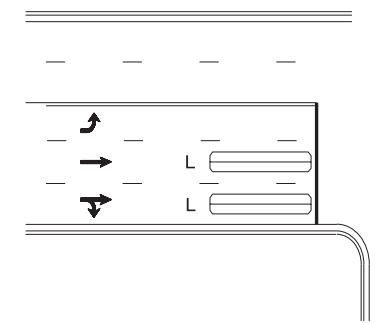
"Stretch" Operation

Low Speed Detection (≤35 mph)



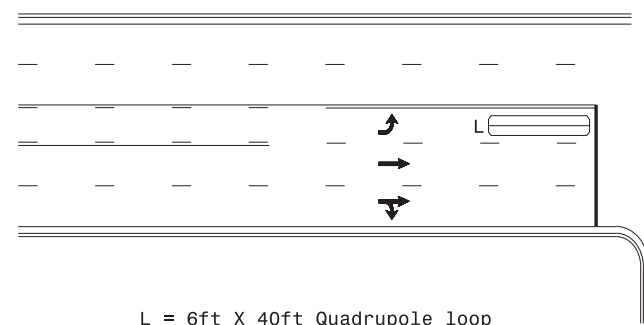
L = 6ft X 6ft
Wired in series

OR



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

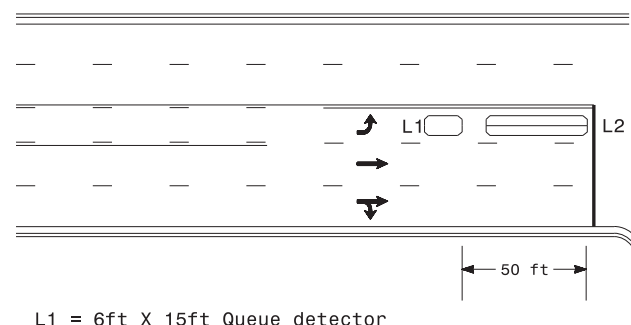
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

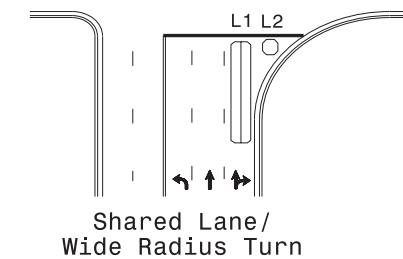
OR



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

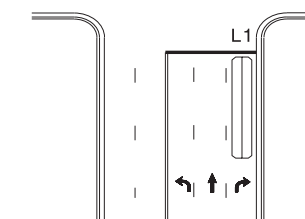
Queue Loop Detection

Right Turn Lane Detection

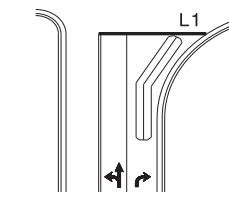


L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately

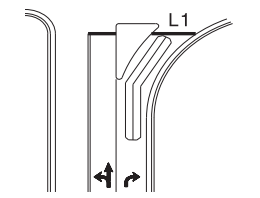
Shared Lane/
Wide Radius Turn



Standard Turn

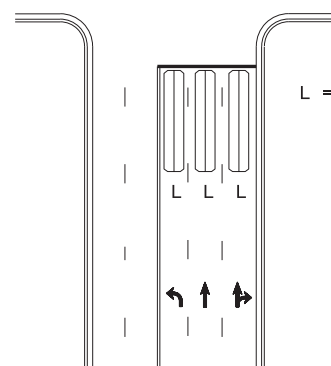


Wide Radius Turn



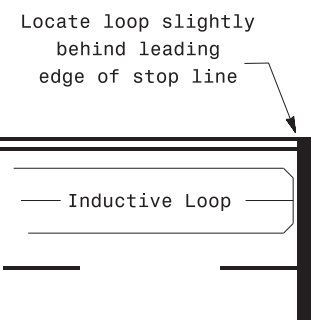
Channelized Turn

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:

TRANSPORTATION MOBILITY AND SAFETY DIVISION
STATE OF NORTH CAROLINA
STATE OF TRANSPORTATION
Signal Design Section

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
029904
JASON P. GALLOWAY

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.	