

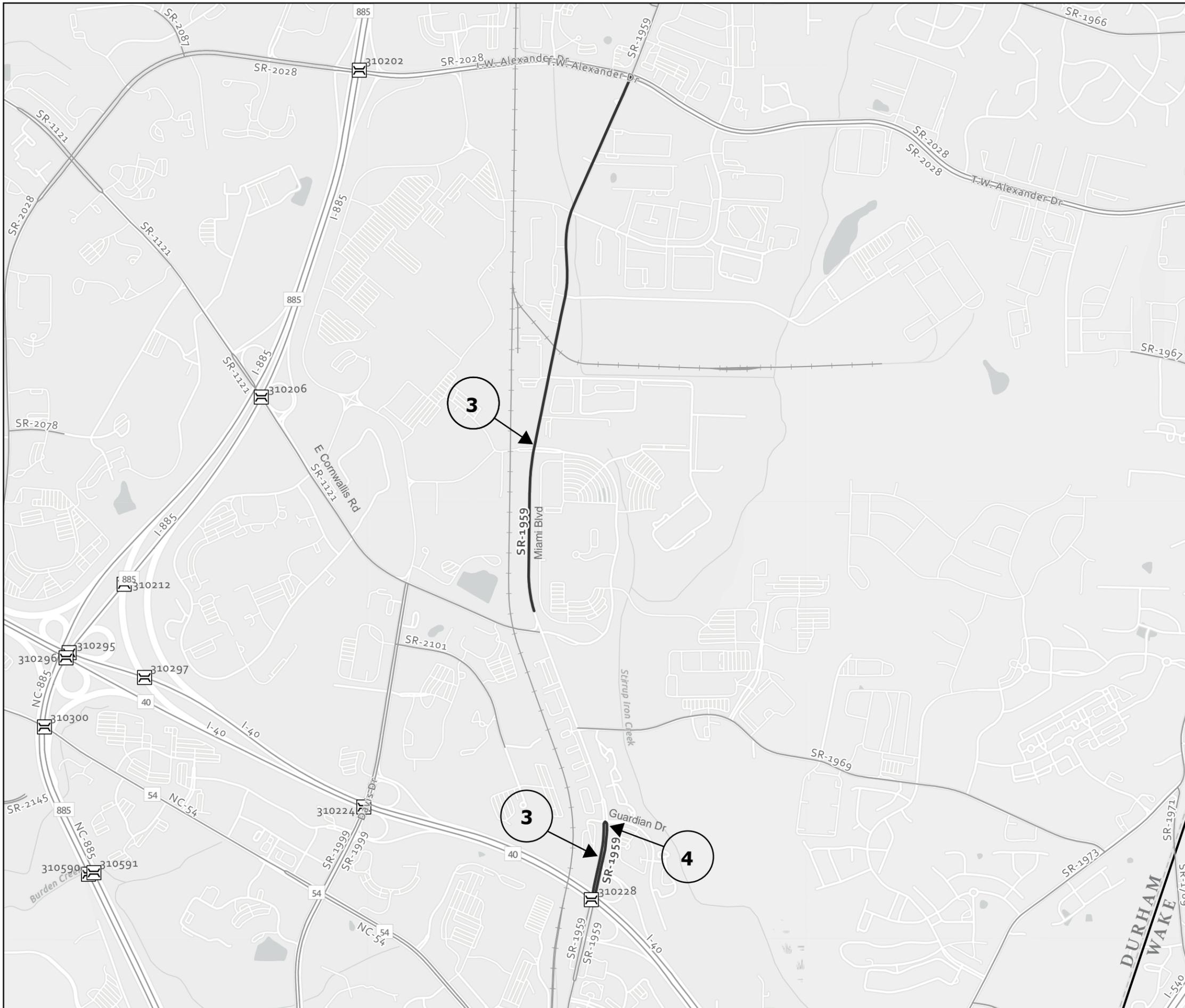
2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	1

Map 1: US 15-501 (NE-Bound Lanes)
From Orange County to SR-2294 (Mt. Moriah Rd)

Map 2: US 15-501 (SW-Bound Lanes)
From SR-2294 (Mt. Moriah Rd) to Orange County

Bridge 310301





2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	2

Map 3: SR 1959 (Miami Blvd)
 From SR 2028 (T.W Alexander Dr) to 600' N
 of E Cornwallis Rd and from Guardian Dr to
 I-40

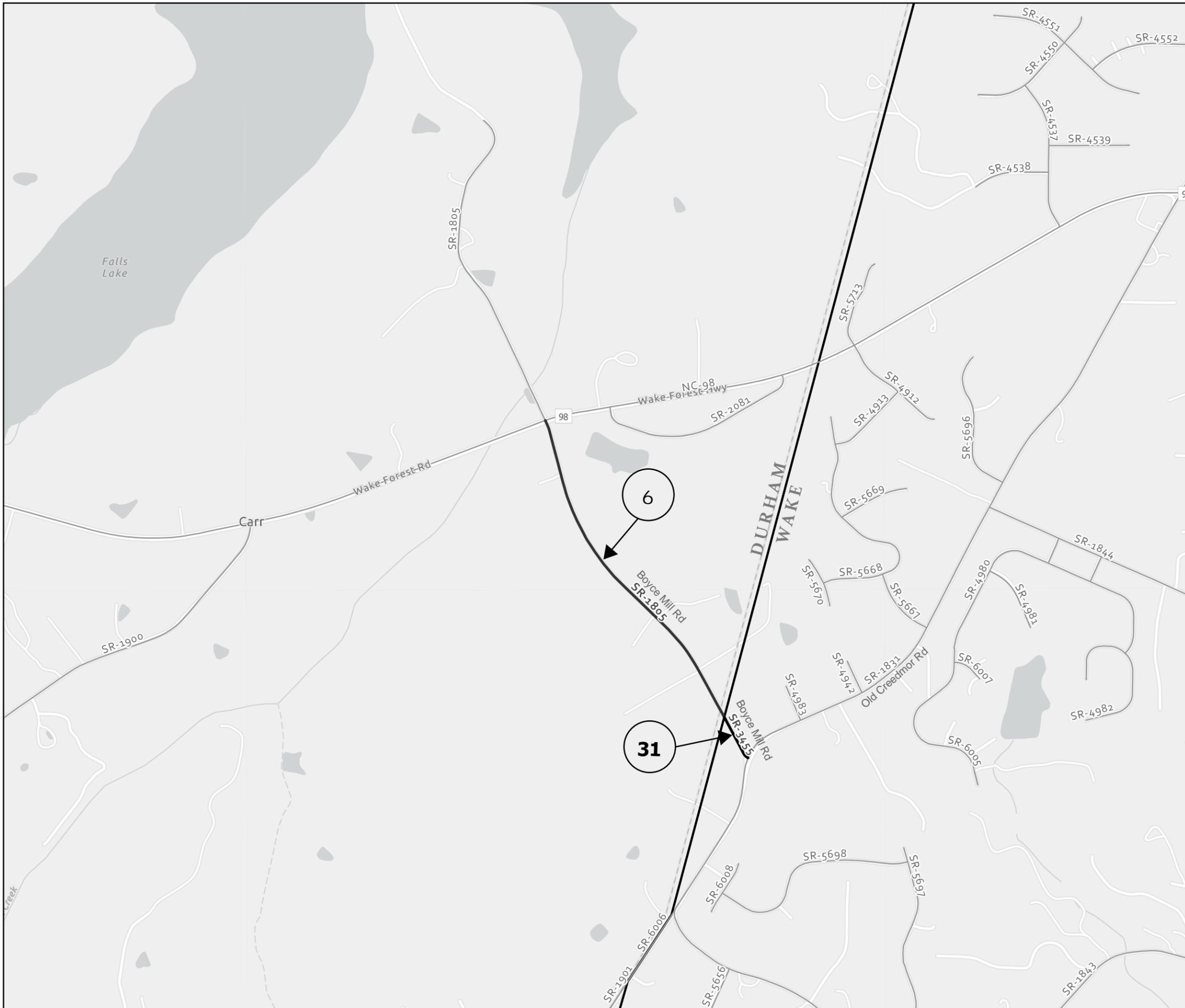
Map 4: SR 1959 (Miami Blvd)
 From I-40 to End Divided

Bridge 310228

*Norfolk Southern RR runs across Map 3.
 Contractor will be required to verify status
 of crossing and the need for a flagger*

*No work will be performed on Miami Blvd
 (Map 3) between 600' North of Cornwallis
 Rd and Guardian Dr. The intent is for
 resurfacing limits to tie into the construction
 limits for project P-5717. Prior to
 resurfacing, coordinate with Brian
 Gackstetter (project manager, rail division)
 at begackstetter@ncdot.gov to determine
 schedule for P-5717 and exact paving
 limits*



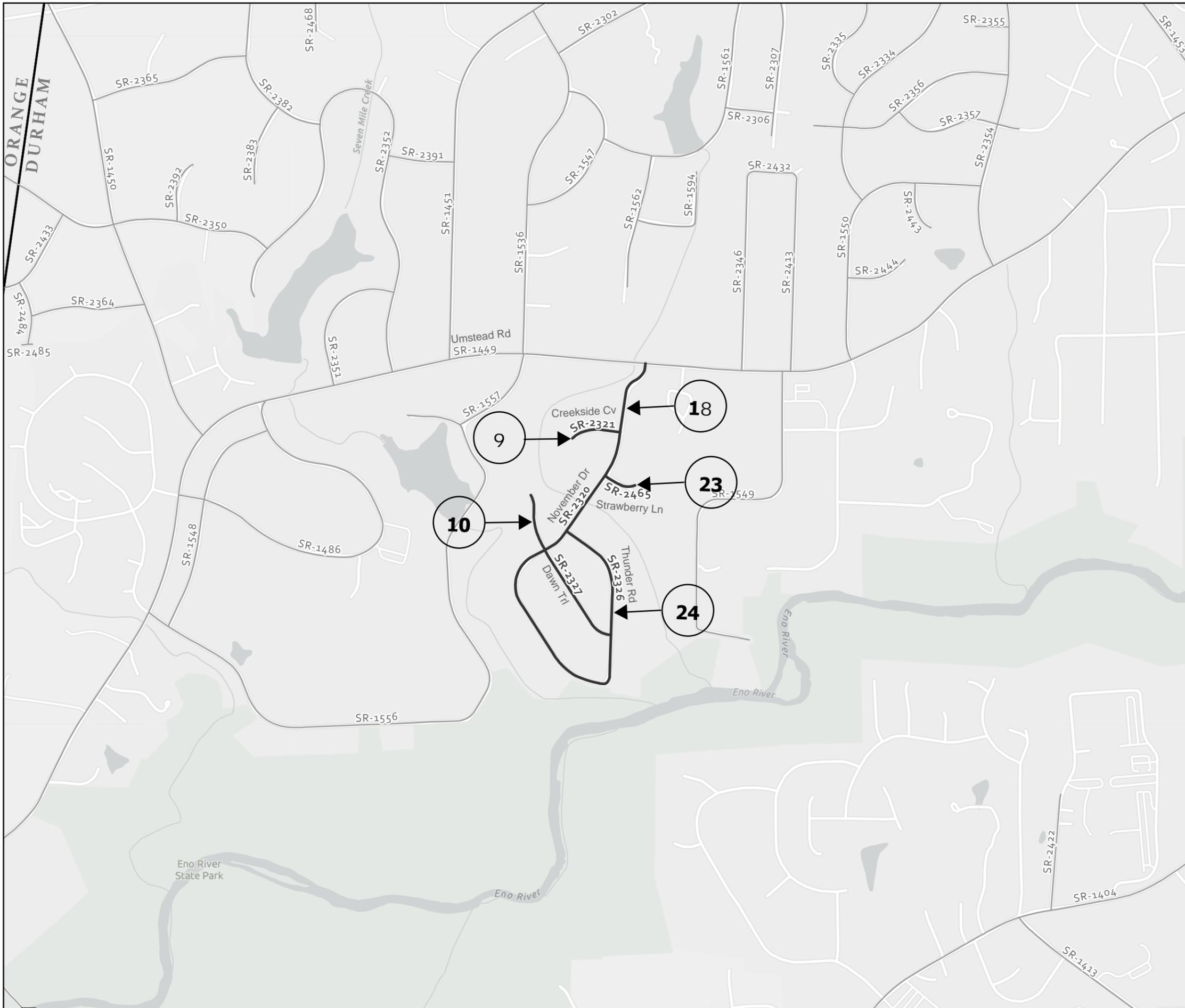


2027 Durham - Durham/Wake County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	4

Map 6: SR-1805 (Boyce Mill Rd)
From NC-98 (Wake Forest Hwy) to Wake County

Map 31: SR 3455 (Boyce Mill Rd)
From SR 1831 (Old Creedmor Rd) to Durham
County





2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	7

Map 9: SR-2321 (Creekside Cv)
From SR-2320 (November Dr) to Cul-de-sac

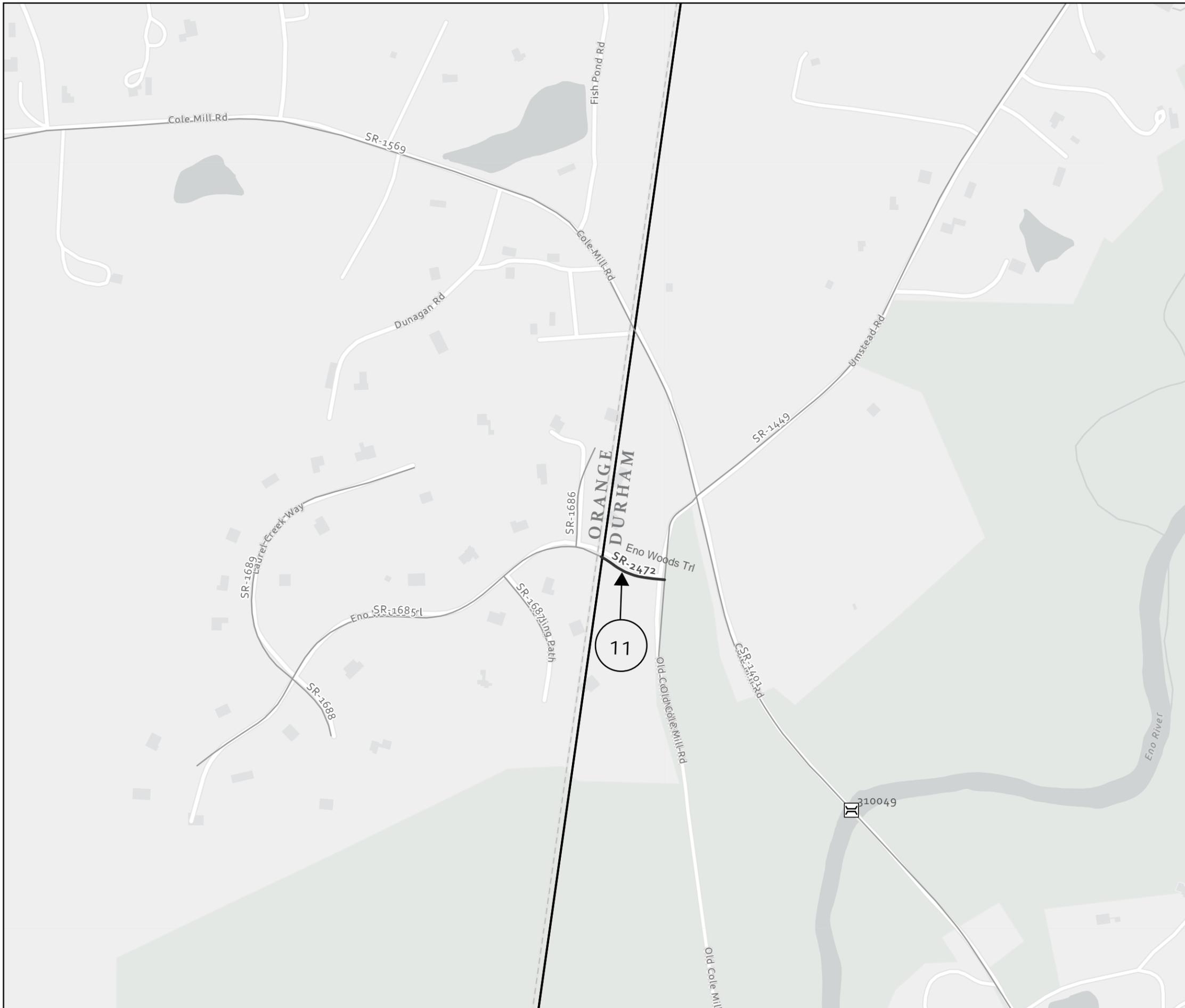
Map 10: SR-2327 (Dawn Trl)
From SR-2326 (Thunder Rd) to Cul-de-sac

Map 18: SR-2320 (November Dr)
From SR-1449 (Umstead Rd) to SR-2326 (Thunder Rd)

Map 23: SR-2465 (Strawberry Ln)
From SR-2320 (November Dr) to Cul-de-sac

Map 24: SR-2326 (Thunder Rd)
From SR-2320 (November Dr) to SR-2320 (November Dr)

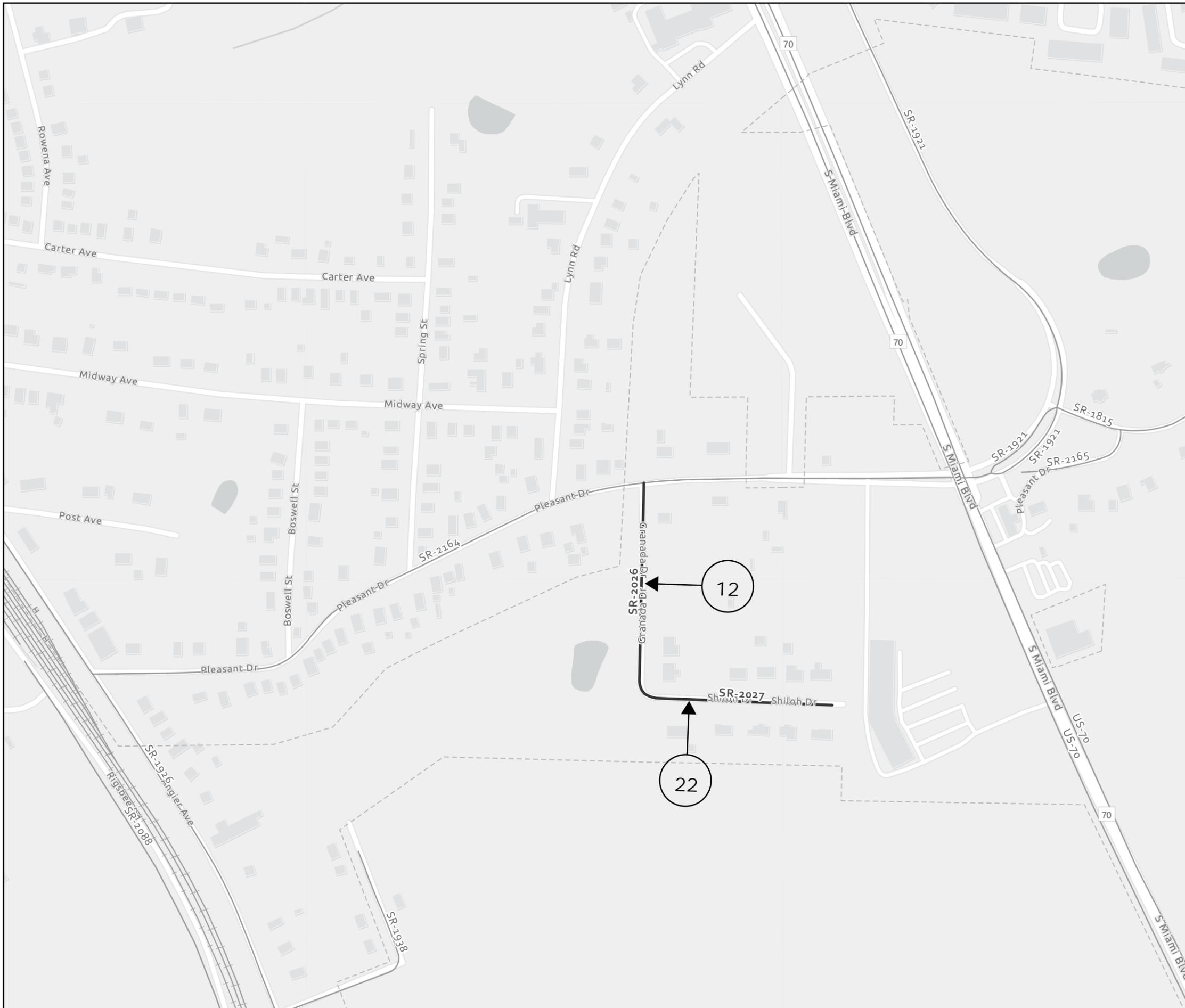




2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	8

Map 11: SR-2472 (Eno Woods Trl)
From SR-1449 (Old Cole Mill Rd) to Orange County



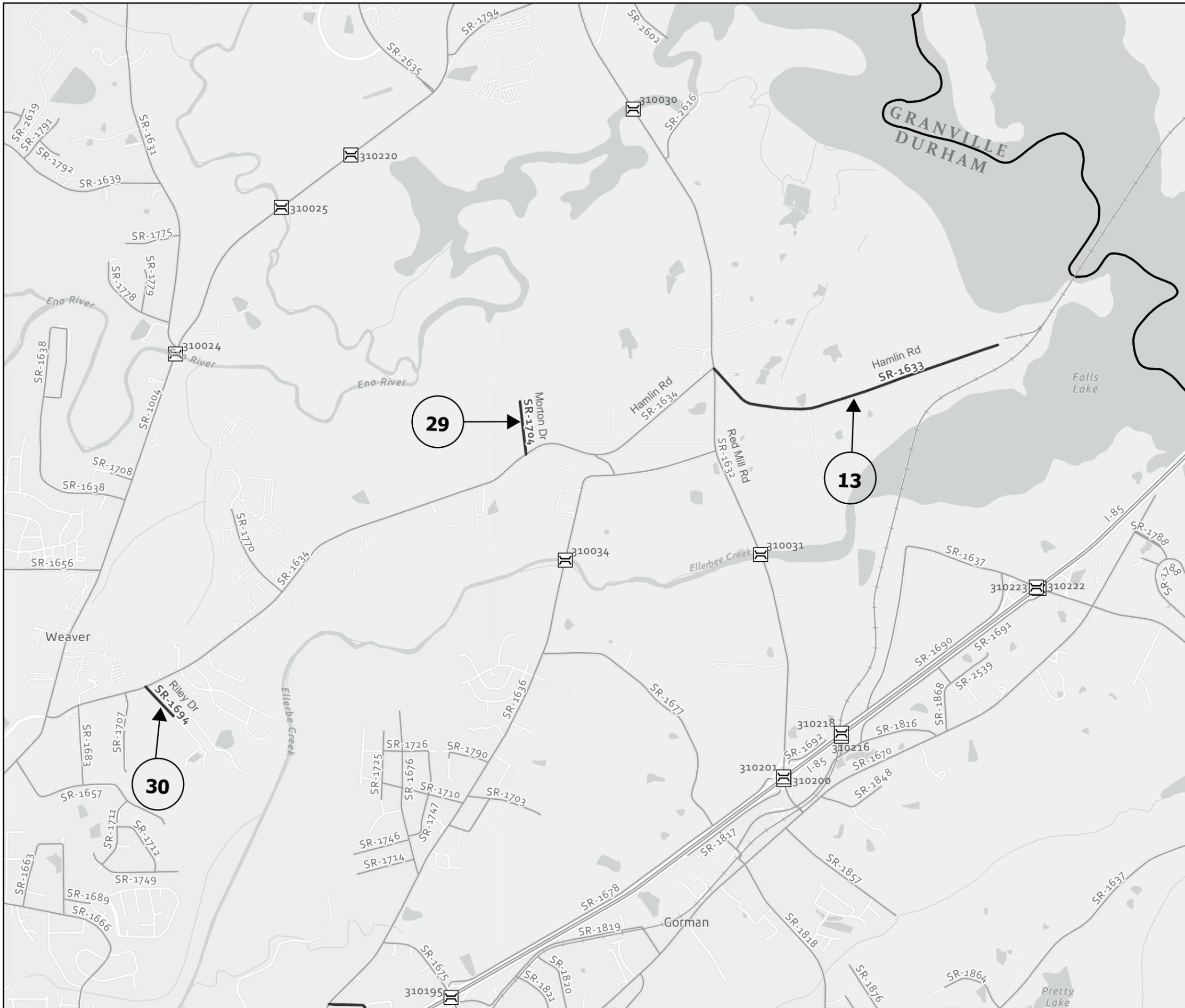


2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	9

Map 12: SR-2026 (Granada Dr)
 From SR-2164 (Pleasant Dr) to SR-2027 (Shiloh Dr)

Map 22: SR-2027 (Shiloh Dr)
 From SR-2026 (Granada Dr) to Dead End





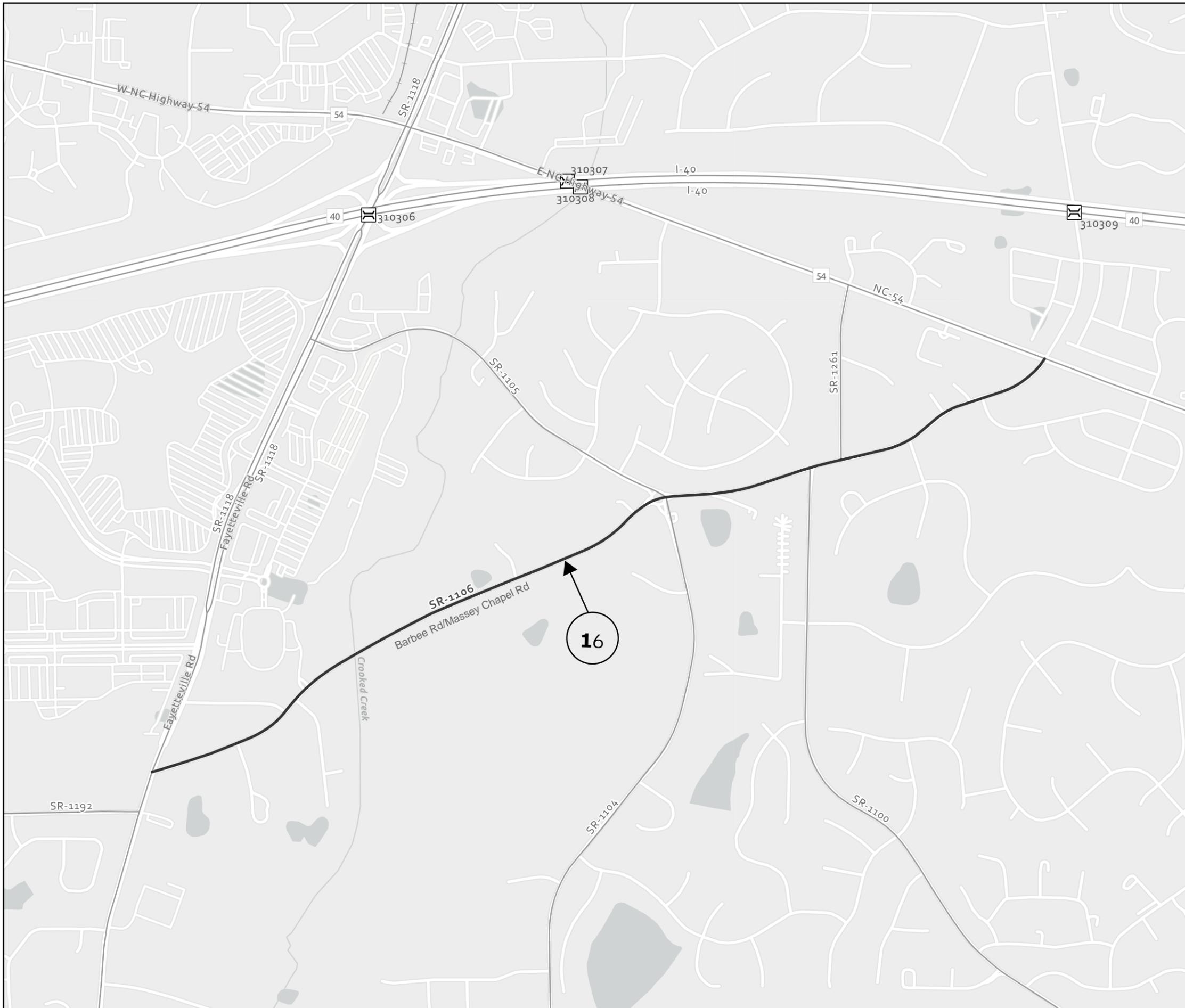
2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	10

Map 13: SR-1633 (Hamlin Rd)
From SR-1632 (Red Mill Rd) to End Maintenance

Map 29: SR-1704 (Morton Dr)
From SR-1634 (Hamlin Rd) to Dead End

Map 30: SR-1694 (Riley Dr)
From SR-1634 (Hamlin Rd) to Dead End

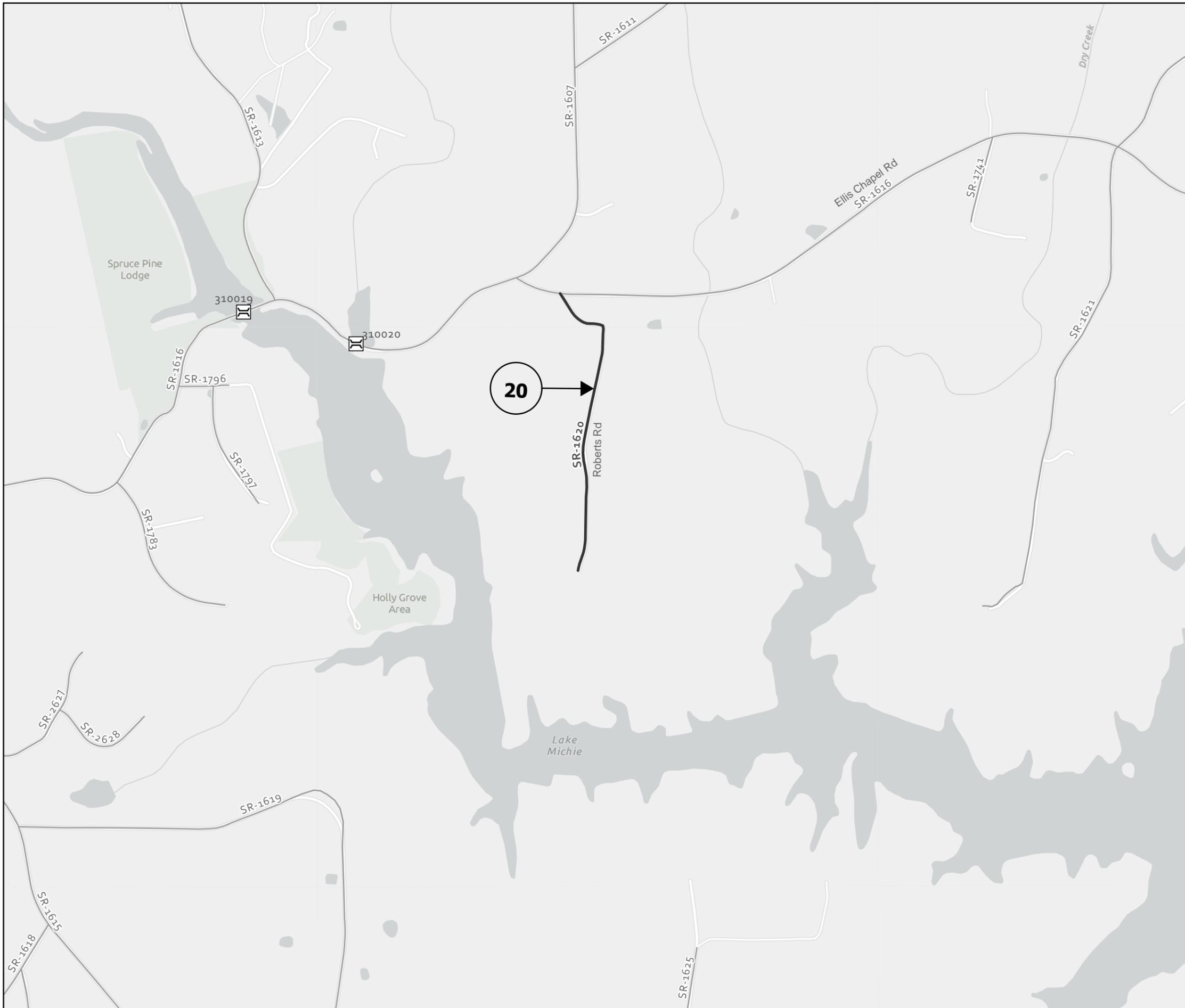




2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	13

Map 16: SR-1106 (Barbee Rd/Massey Chapel Rd)
From NC-54 to SR-1118 (Fayetteville Rd)

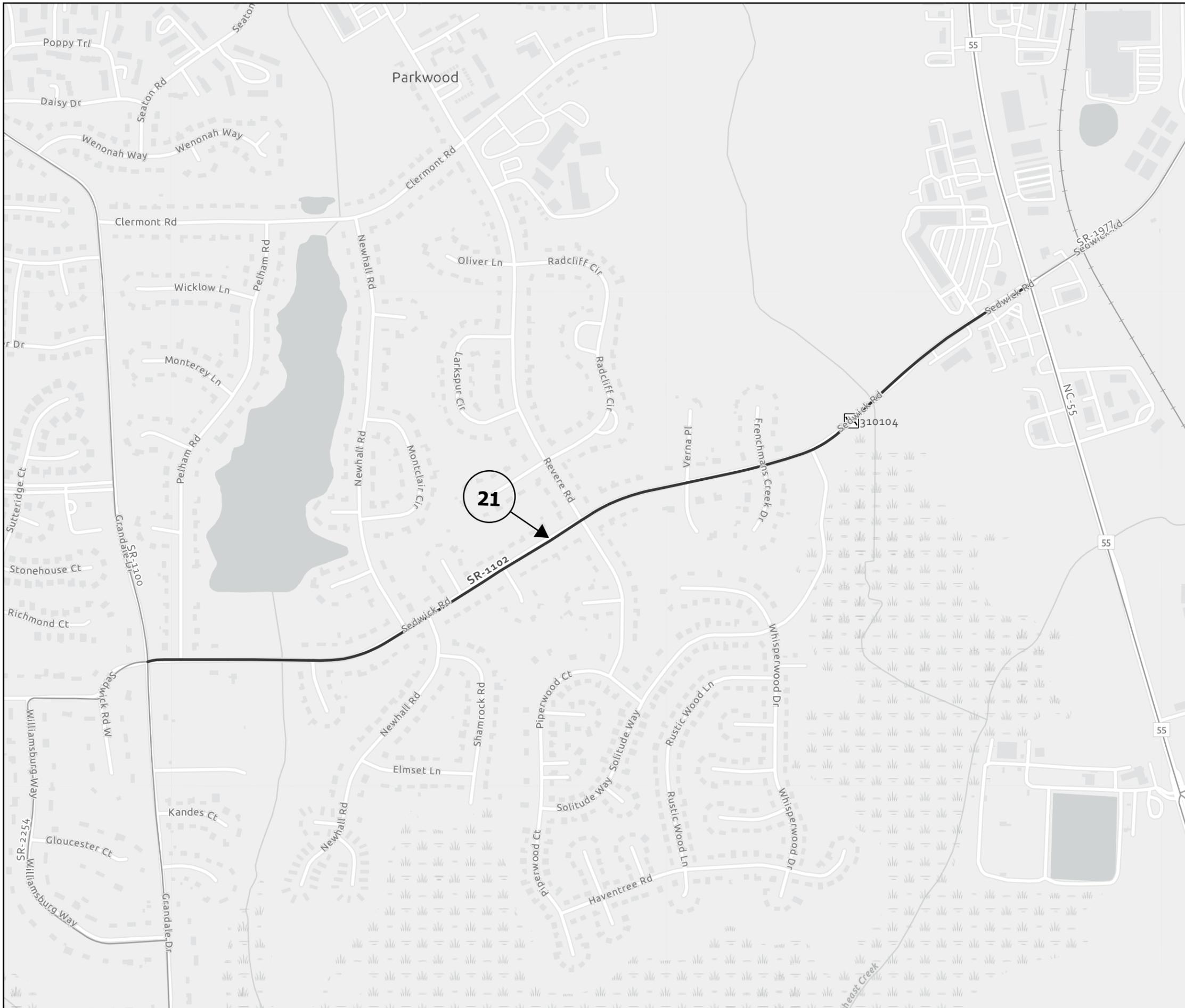




2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	15

Map 20: SR-1620 (Roberts Rd)
 From SR-1616 (Ellis Chapel Rd) to Cul-de-sac





2027 Durham - Durham County

PROJECT REFERENCE NO.

SHEET NO.

2026CPT.05.14.10321.1, etc.

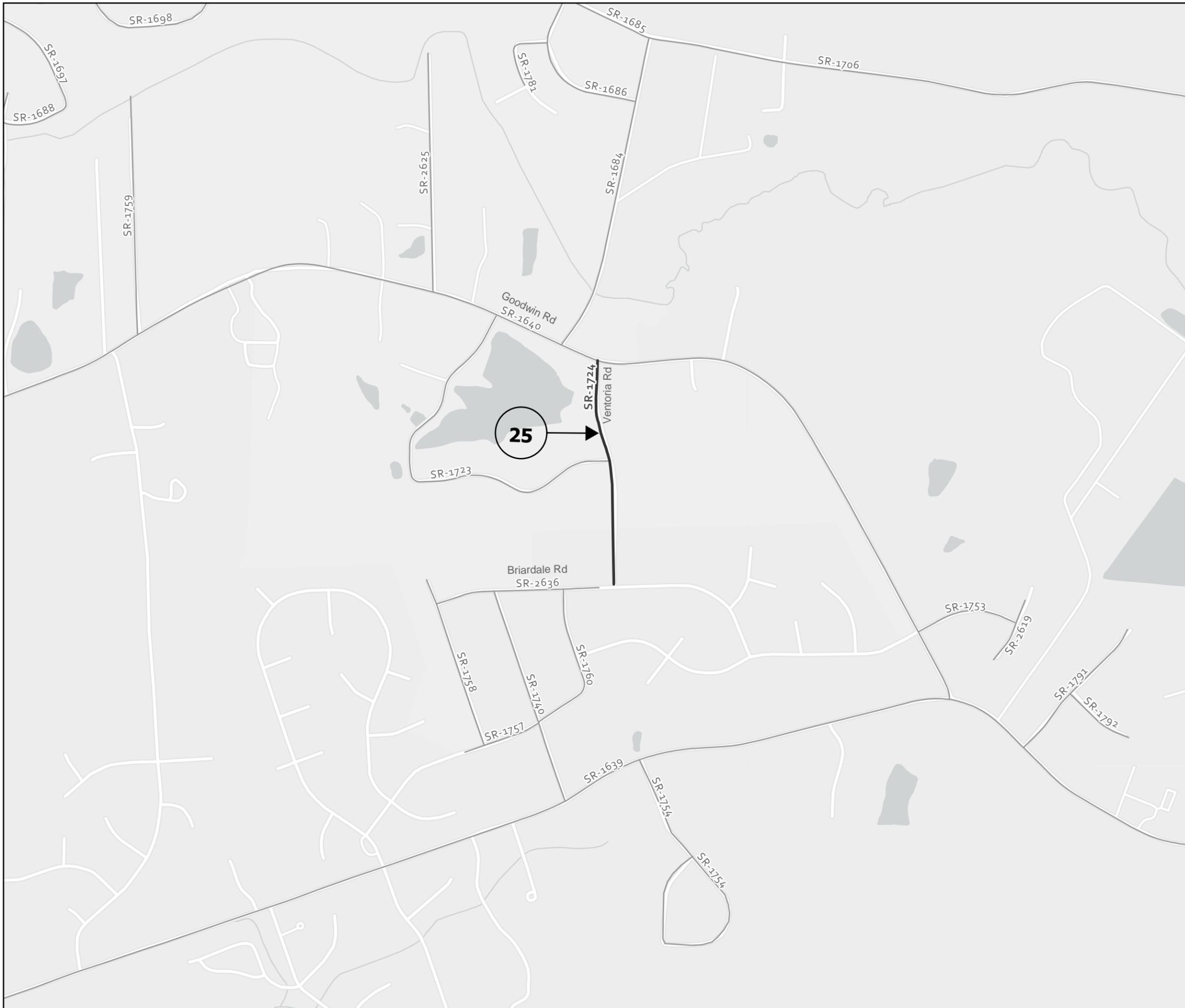
16

Map 21: SR-1102 (Sedwick Rd)
From NC-55 to SR 1100 (Grandale Dr)

Bridge 310104

N

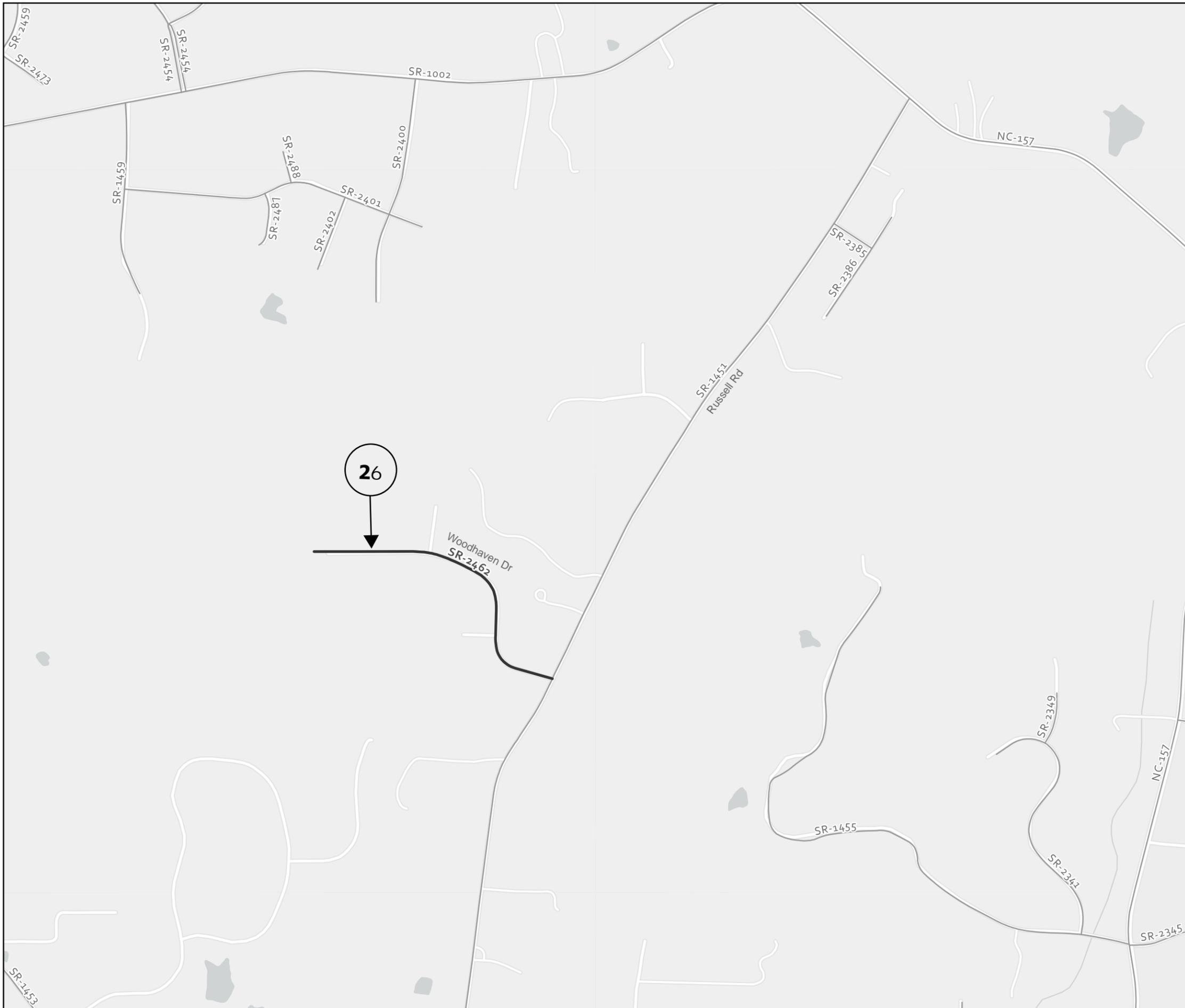




2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	17

Map 25: SR-1724 (Ventoria Rd)
From SR-1640 (Goodwin Rd) to SR-2636
(Briardale Rd)

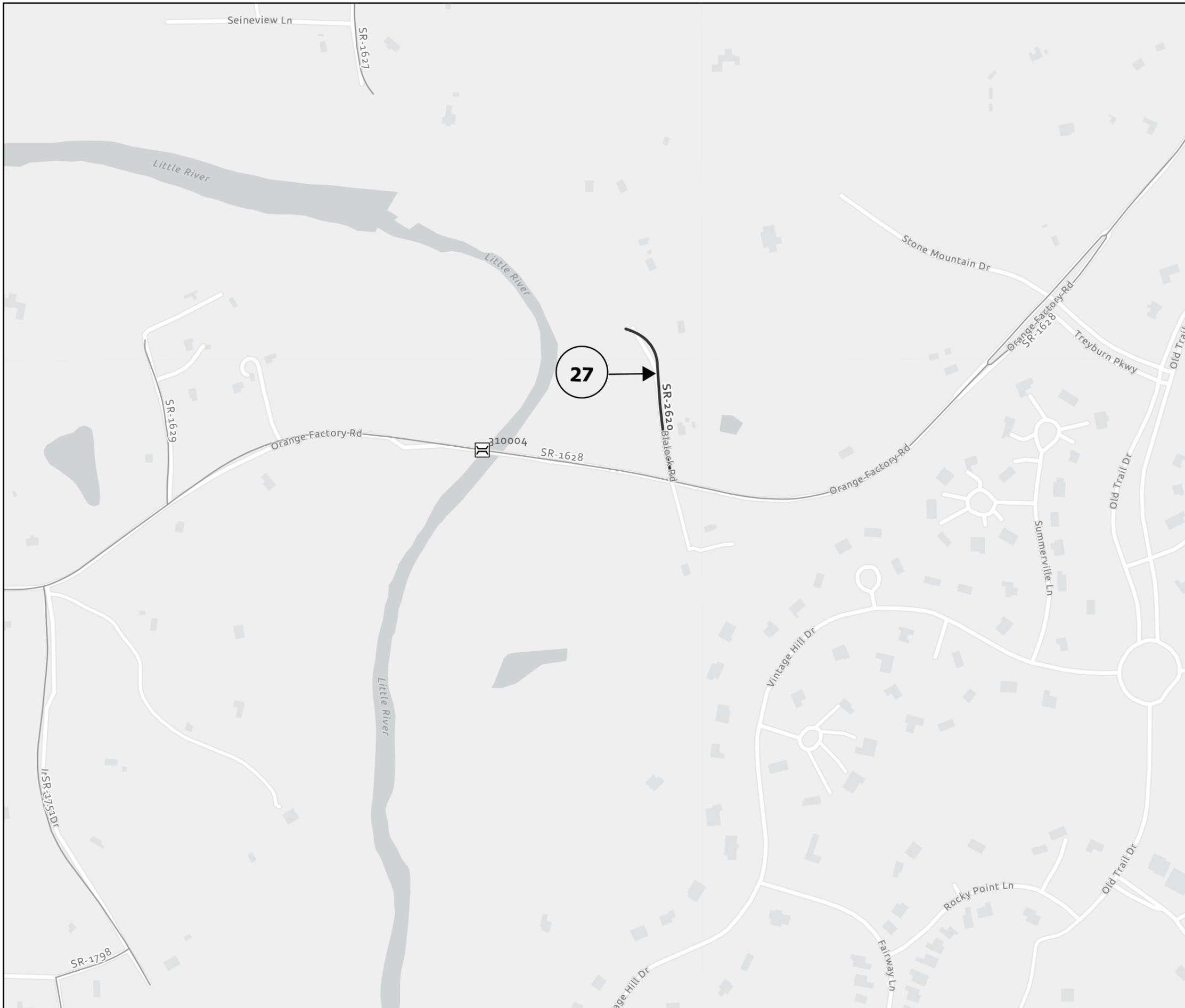




2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	18

Map 26: SR-2462 (Woodhaven Dr)
From SR-1451 (Russell Rd) to Cul-de-sac



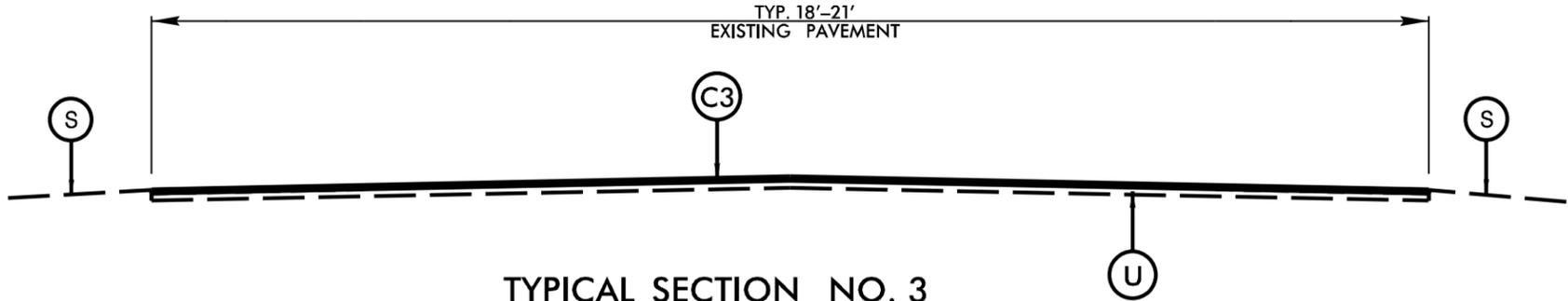


2027 Durham - Durham County	
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.05.14.10321.1, etc.	19

Map 27: SR-2620 (Blalock Rd)
From SR-1628 (Orange Factory Rd) to Cul-de-sac



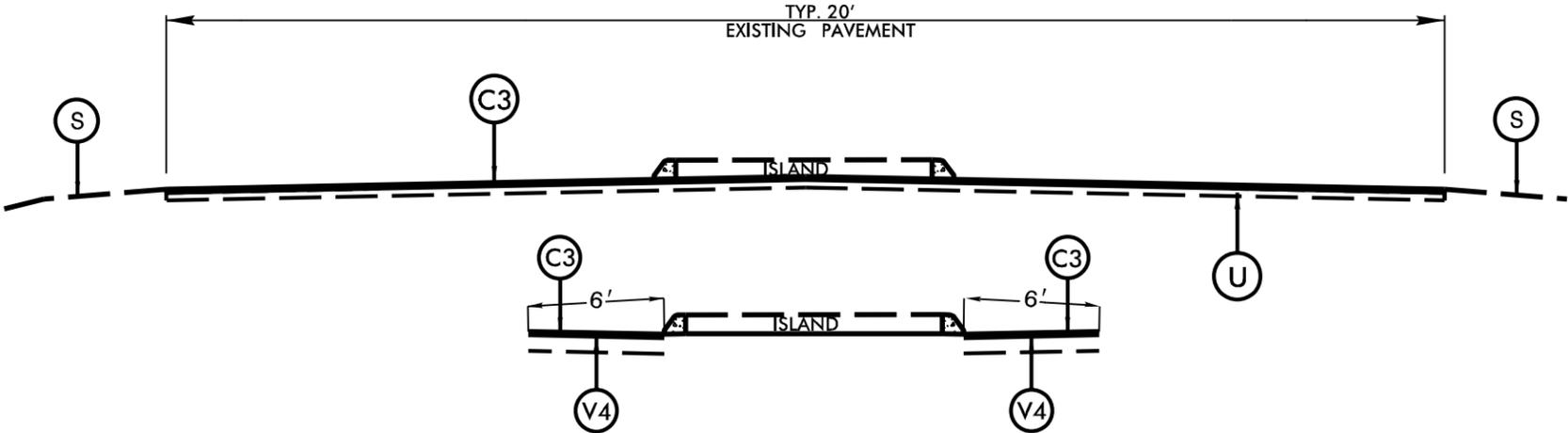
PAVEMENT SCHEDULE	
C1	1" S9.5B
C2	1 1/4" S9.5B
C3	1 1/2" S9.5B
C4	1 1/2" S9.5C
R	EXIST. C&G
S	SHLD RECON
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
V2	0"-1" MILLING
V3	0"-1 1/4" MILLING
V4	0"-1 1/2" MILLING



TYPICAL SECTION NO. 3
 FULL DEPTH PATCHING AND RESURFACE S9.5B
 MAP NO's. 5, 7, 12-13, 15, 22, 31

MAPS 7 AND 31 USE ASB FOR SHOULDER RECONSTRUCTION. ALL OTHER MAPS USE EARTH BORROW.

SHOULDERS ARE RECONSTRUCTED TO THE SHOULDER POINT/HINGE POST
 SEEDING AND MULCHING SHALL BE PERFORMED UPON COMPLETION OF SHOULDER GRADING WHEN EARTH BORROW IS USED

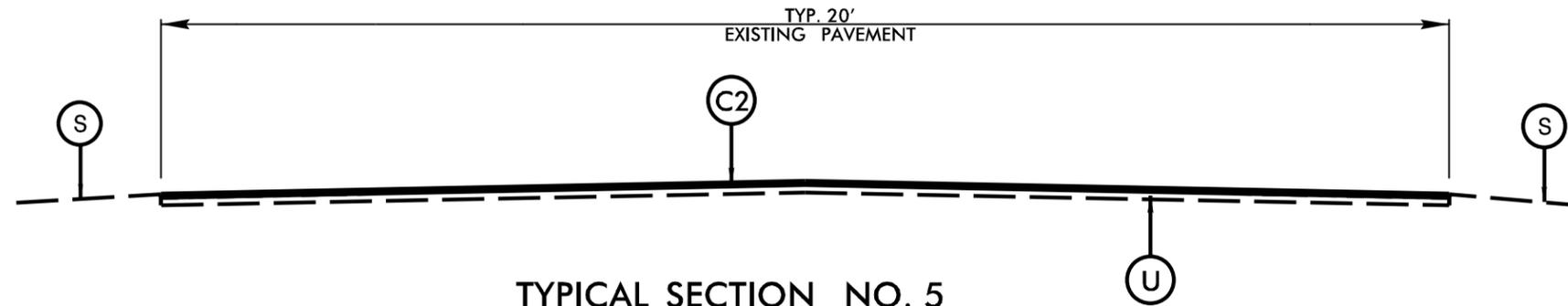


TYPICAL SECTION NO. 4
 FULL DEPTH PATCH AND RESURFACE S9.5B
 MAP NO. 6

SHOULDERS ARE RECONSTRUCTED TO THE SHOULDER POINT/HINGE POST
 USE ASB FOR SHOULDER RECONSTRUCTION

*****DCN*****

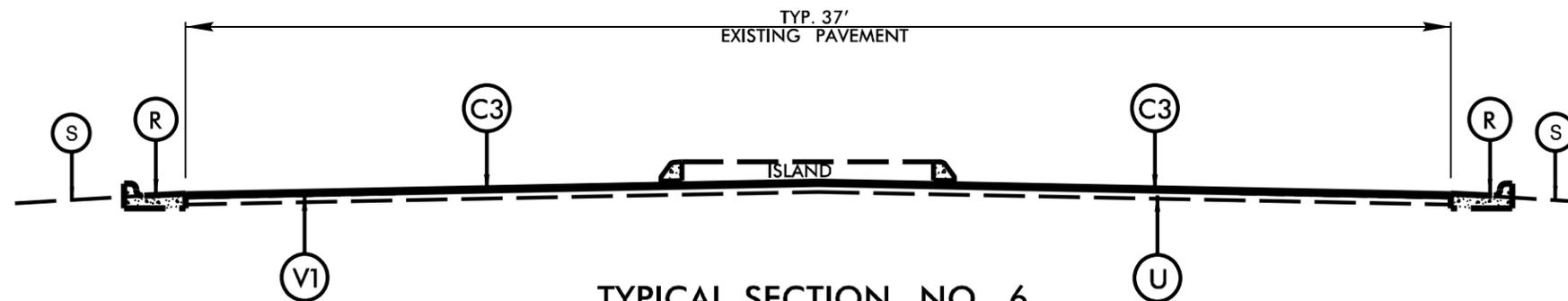
PAVEMENT SCHEDULE	
C1	1" S9.5B
C2	1 1/4" S9.5B
C3	1 1/2" S9.5B
C4	1 1/2" S9.5C
R	EXIST. C&G
S	SHLD RECON
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
V2	0"-1" MILLING
V3	0"-1 1/4" MILLING
V4	0"-1 1/2" MILLING



TYPICAL SECTION NO. 5
 FULL DEPTH PATCHING AND RESURFACE S9.5B
 MAP NO's. 8-11, 19-20, 23-26

USE EARTH BORROW FOR SHOULDER RECONSTRUCTION
 ON ALL MAPS

SHOULDERS ARE RECONSTRUCTED TO THE SHOULDER POINT/HINGE POST
 SEEDING AND MULCHING SHALL BE PERFORMED UPON COMPLETION OF SHOULDER
 GRADING WHEN EARTH BORROW IS USED



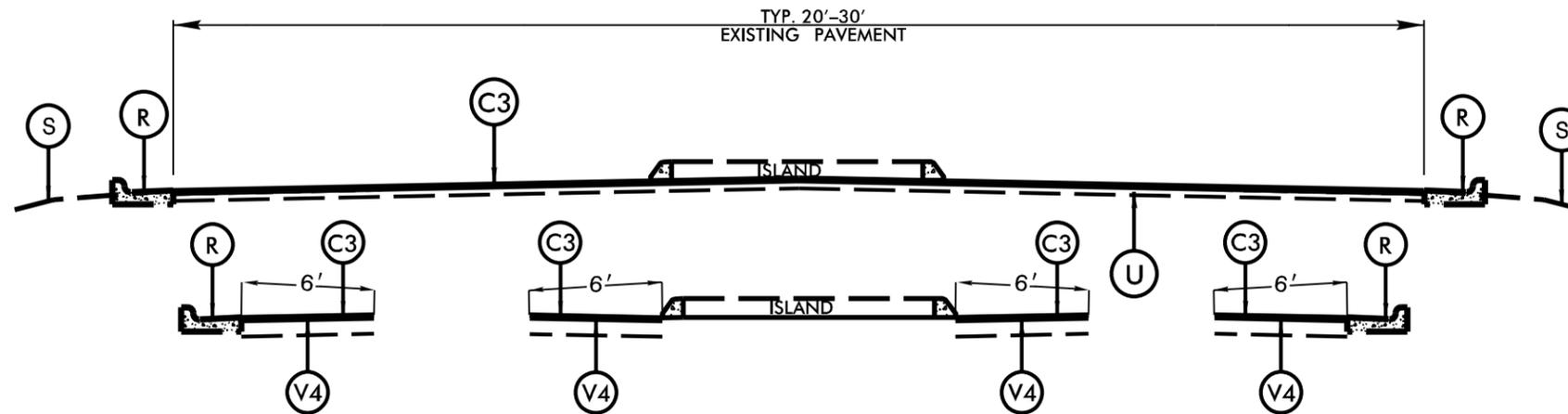
TYPICAL SECTION NO. 6

FULL DEPTH PATCHING, MILL AND RESURFACE S9.5B
 MAP NO. 14

SHOULDERS TO BE RECONSTRUCTED WHERE CURB AND GUTTER DOES NOT EXIST
 USE ASB FOR SHOULDER RECONSTRUCTION

SHOULDERS ARE RECONSTRUCTED TO THE SHOULDER POINT/HINGE POST

PAVEMENT SCHEDULE	
C1	1" S9.5B
C2	1 1/4" S9.5B
C3	1 1/2" S9.5B
C4	1 1/2" S9.5C
R	EXIST. C&G
S	SHLD RECON
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
V2	0" - 1" MILLING
V3	0" - 1 1/4" MILLING
V4	0" - 1 1/2" MILLING



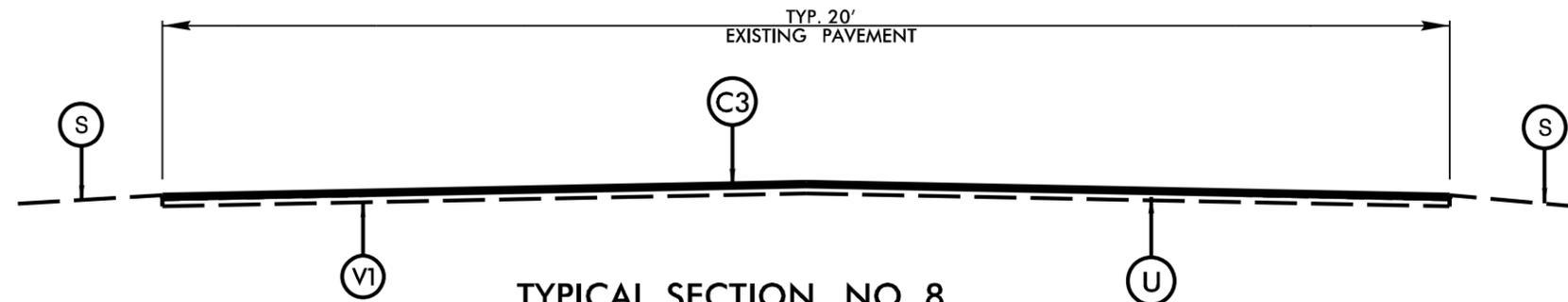
TYPICAL SECTION NO. 7

FULL DEPTH PATCH AND RESURFACE S9.5B
MAP NO's. 16, 21

SHOULDERS TO BE RECONSTRUCTED WHERE CURB AND GUTTER DOES NOT EXIST.

USE ASB FOR ALL SHOULDER RECONSTRUCTION

SHOULDERS ARE RECONSTRUCTED TO THE SHOULDER POINT/HINGE POST



TYPICAL SECTION NO. 8

FULL DEPTH PATCHING, MILLING, AND RESURFACE S9.5B
MAP NO. 17

MILL ENTIRE MAP AT A DEPTH OF 1.5"

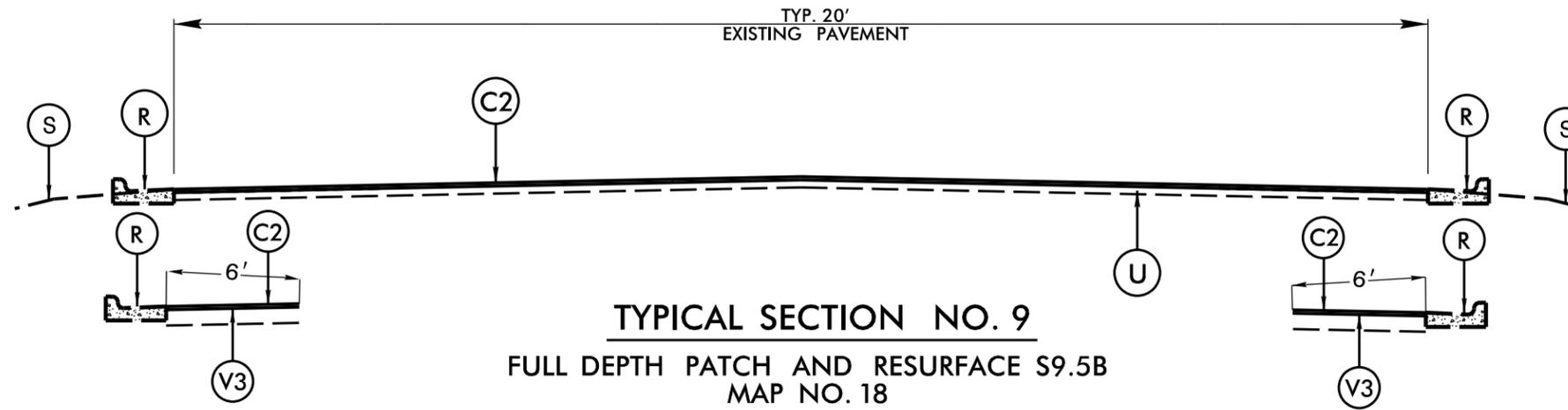
PAVE ENTIRE MAP WITH TWO 1.5" LIFTS FOR A TOTAL OF 3" OF DEPTH

USE ASB FOR SHOULDER RECONSTRUCTION

SHOULDERS ARE RECONSTRUCTED TO THE SHOULDER POINT/HINGE POST

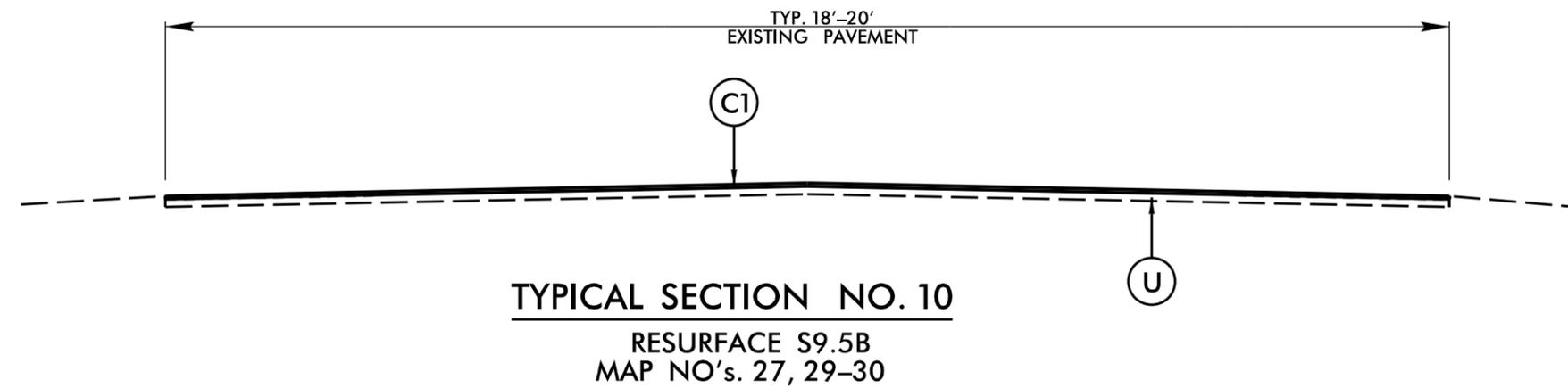
*****DCN*****

PAVEMENT SCHEDULE	
C1	1" S9.5B
C2	1 1/4" S9.5B
C3	1 1/2" S9.5B
C4	1 1/2" S9.5C
R	EXIST. C&G
S	SHLD RECON
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
V2	0"-1" MILLING
V3	0"-1 1/4" MILLING
V4	0"-1 1/2" MILLING



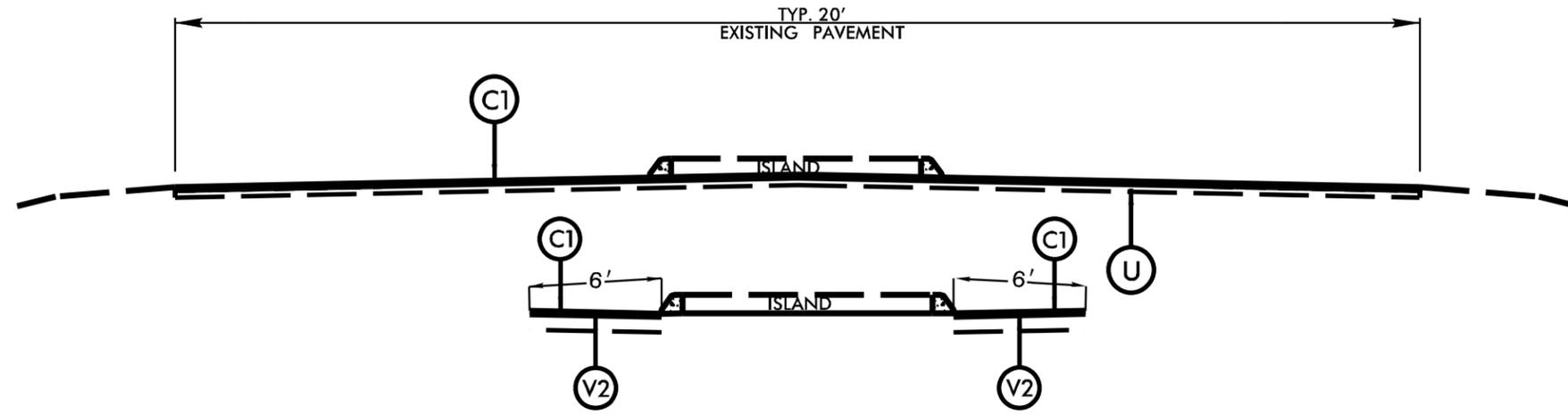
SHOULDERS TO BE RECONSTRUCTED WHERE CURB AND GUTTER DOES NOT EXIST
USE EARTH BORROW FOR SHOULDER RECONSTRUCTION

SHOULDERS ARE RECONSTRUCTED TO THE SHOULDER POINT/HINGE POST
SEEDING AND MULCHING SHALL BE PERFORMED UPON COMPLETION OF SHOULDER
GRADING WHEN EARTH BORROW IS USED

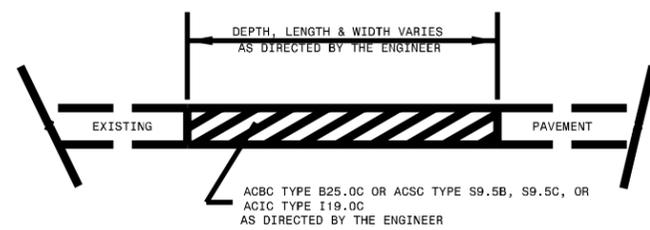


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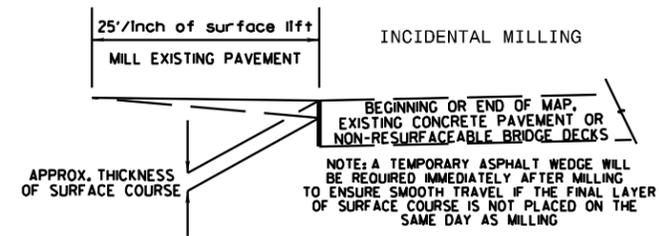
PAVEMENT SCHEDULE	
C1	1" S9.5B
C2	1¼" S9.5B
C3	1½" S9.5B
C4	1½" S9.5C
R	EXIST. C&G
S	SHLD RECON
U	EXIST. PAVEMENT
V1	1½" MILLING
V2	0"-1" MILLING
V3	0"-1¼" MILLING
V4	0"-1½" MILLING



TYPICAL SECTION NO. 11
 RESURFACE S9.5B
 MAP NO. 28

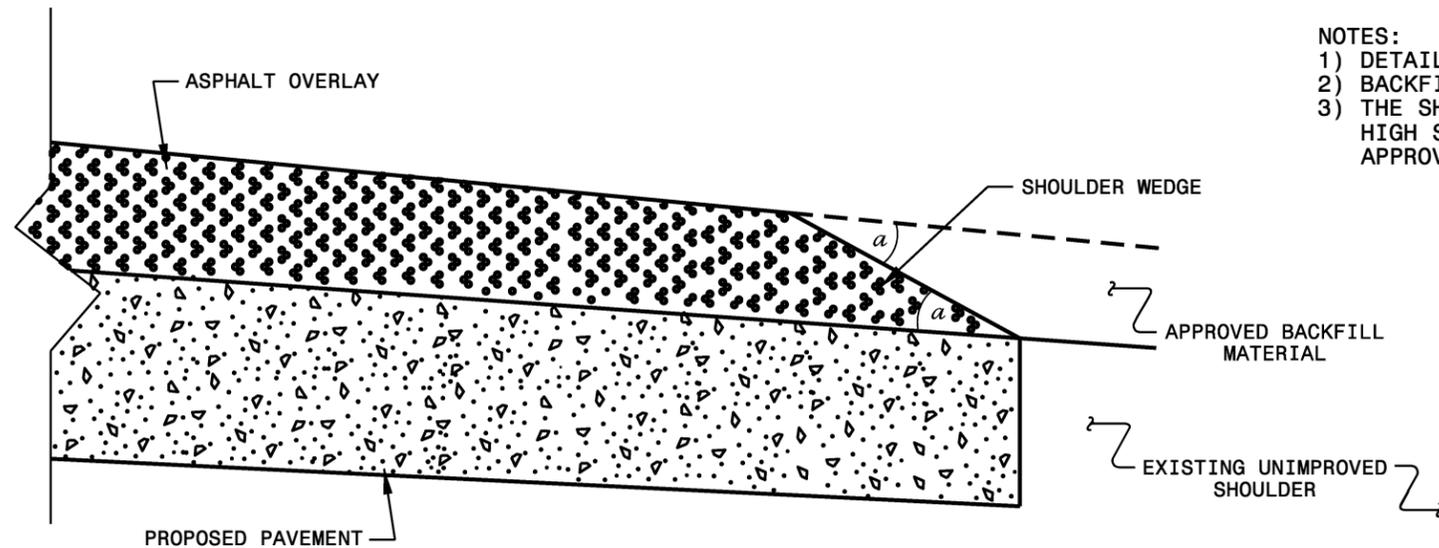


PATCHING EXISTING PAVEMENT
 MILLING TO BE PERFORMED PRIOR TO PATCHING

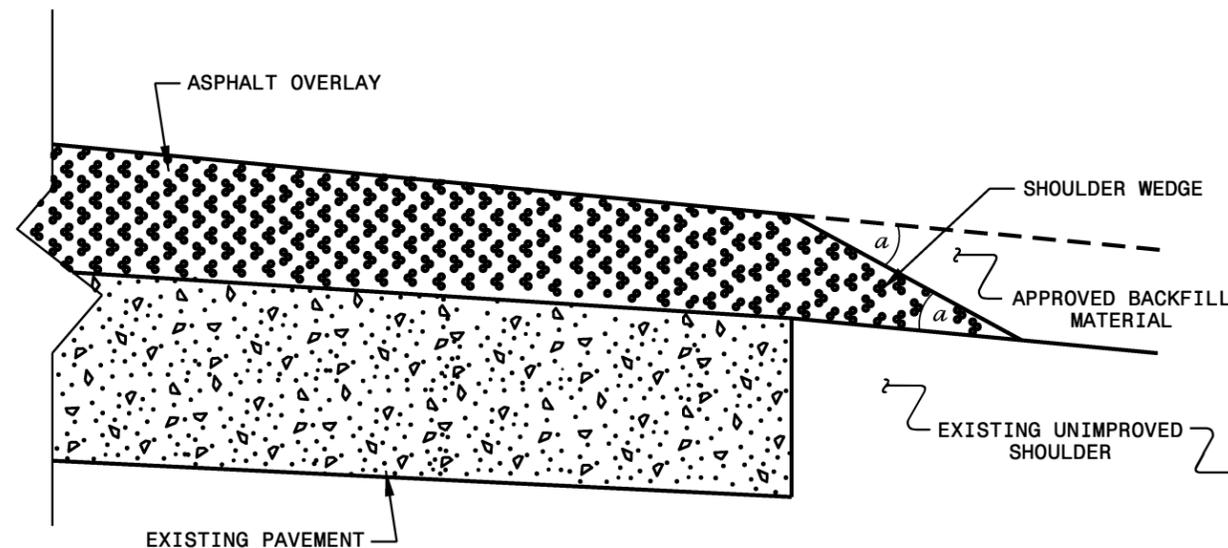


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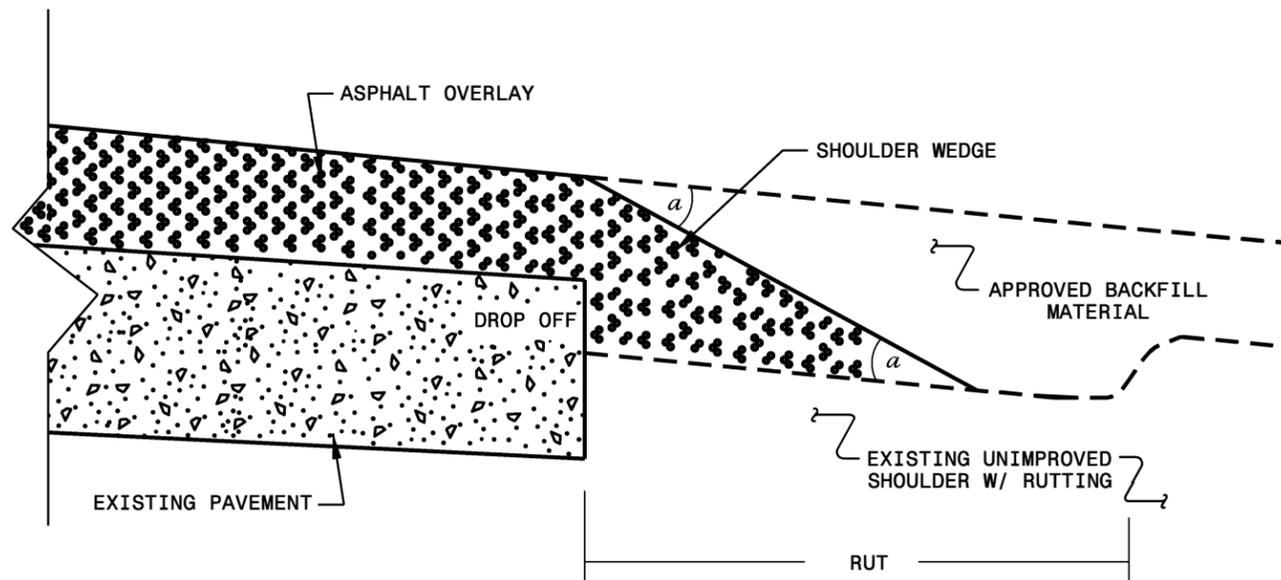
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

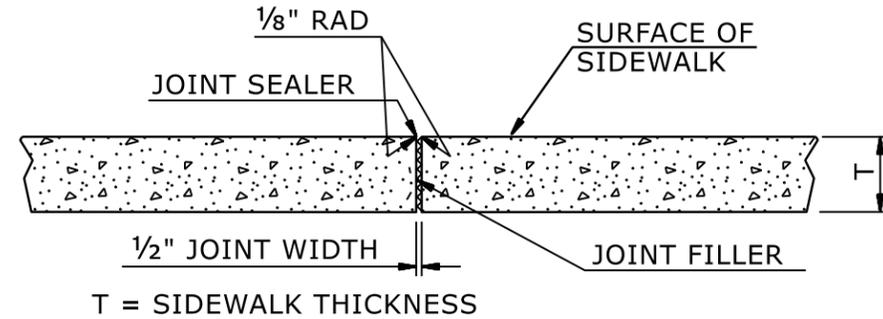
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
SHOULDER WEDGE DETAILS	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 2/2/16
CHECKED BY:	DATE:
FILE SPEC: s:\usr\details\stand\shoulderwedgedetail.dgn	

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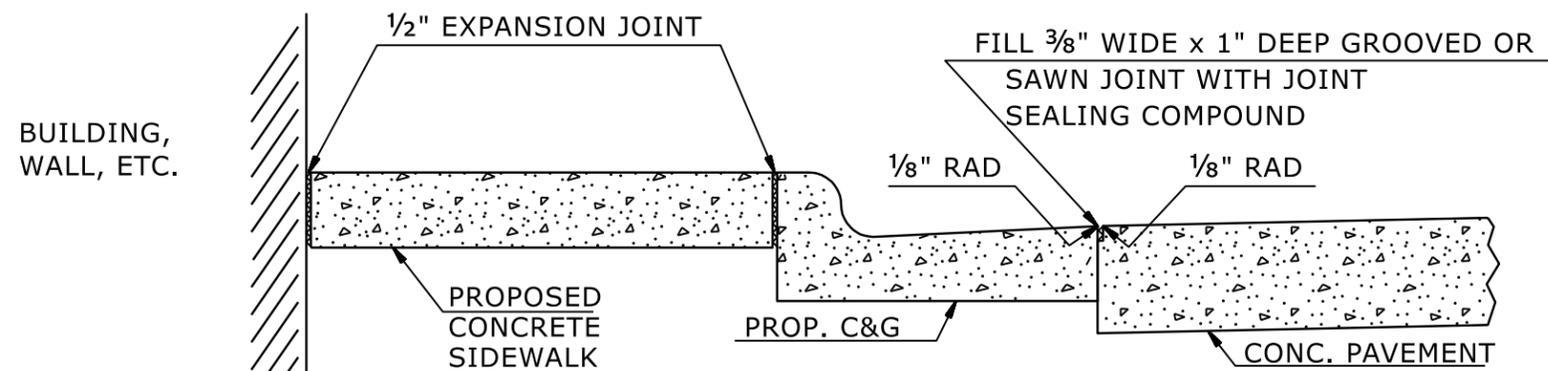
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT
IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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

ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK



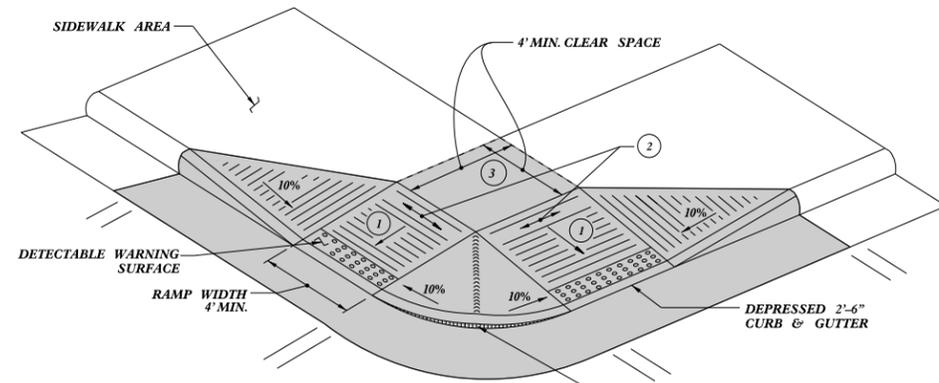
SHEET 1 OF 1
848D01

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UNLESS ALL SIGNATURES COMPLETED

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

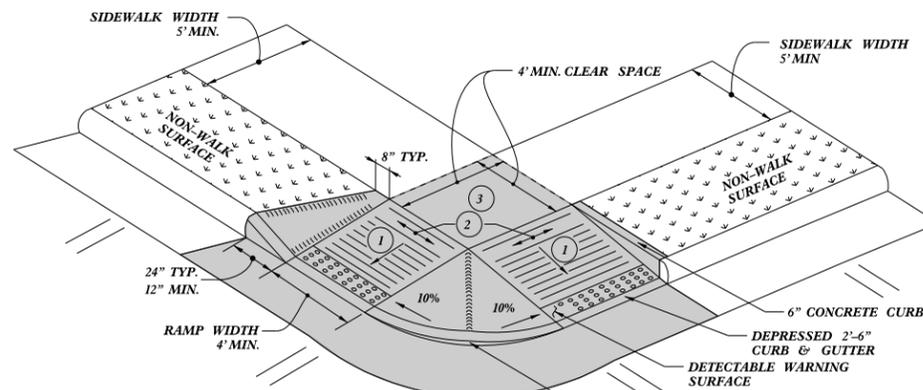
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MODIFIED BY: DATE: _____
CHECKED BY: DATE: _____
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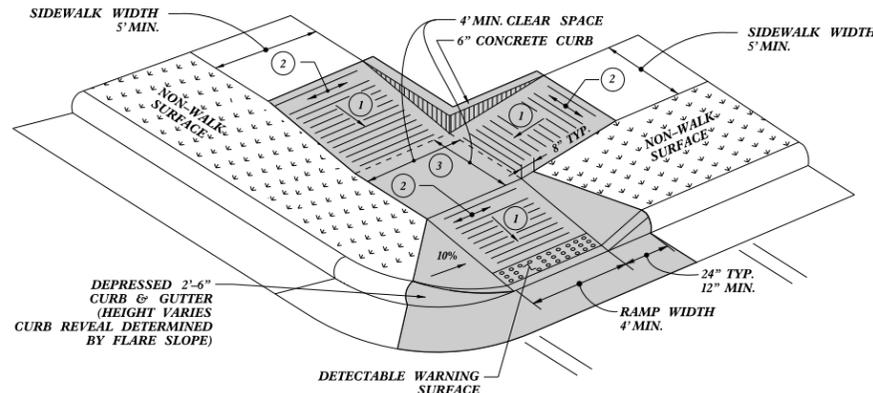
TYPE 4

DEPRESSED 2'-6" CURB & GUTTER (HEIGHT VARIES CURB REVEAL DETERMINED BY FLARE SLOPE)



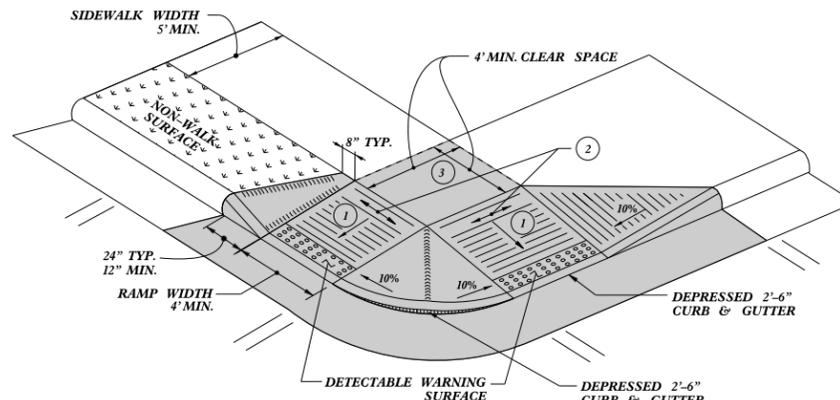
TYPE 4A

DEPRESSED 2'-6" CURB & GUTTER (HEIGHT VARIES CURB REVEAL DETERMINED BY FLARE SLOPE)



TYPE 4B

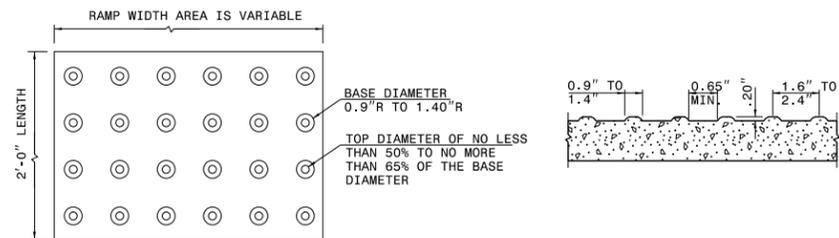
DEPRESSED 2'-6" CURB & GUTTER (HEIGHT VARIES CURB REVEAL DETERMINED BY FLARE SLOPE)



TYPE 4C

DEPRESSED 2'-6" CURB & GUTTER (HEIGHT VARIES CURB REVEAL DETERMINED BY FLARE SLOPE)

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



DETECTABLE WARNING SURFACE

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

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

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

ROADWAY STANDARD DRAWING FOR
CURB RAMP
 SHARED LANDING



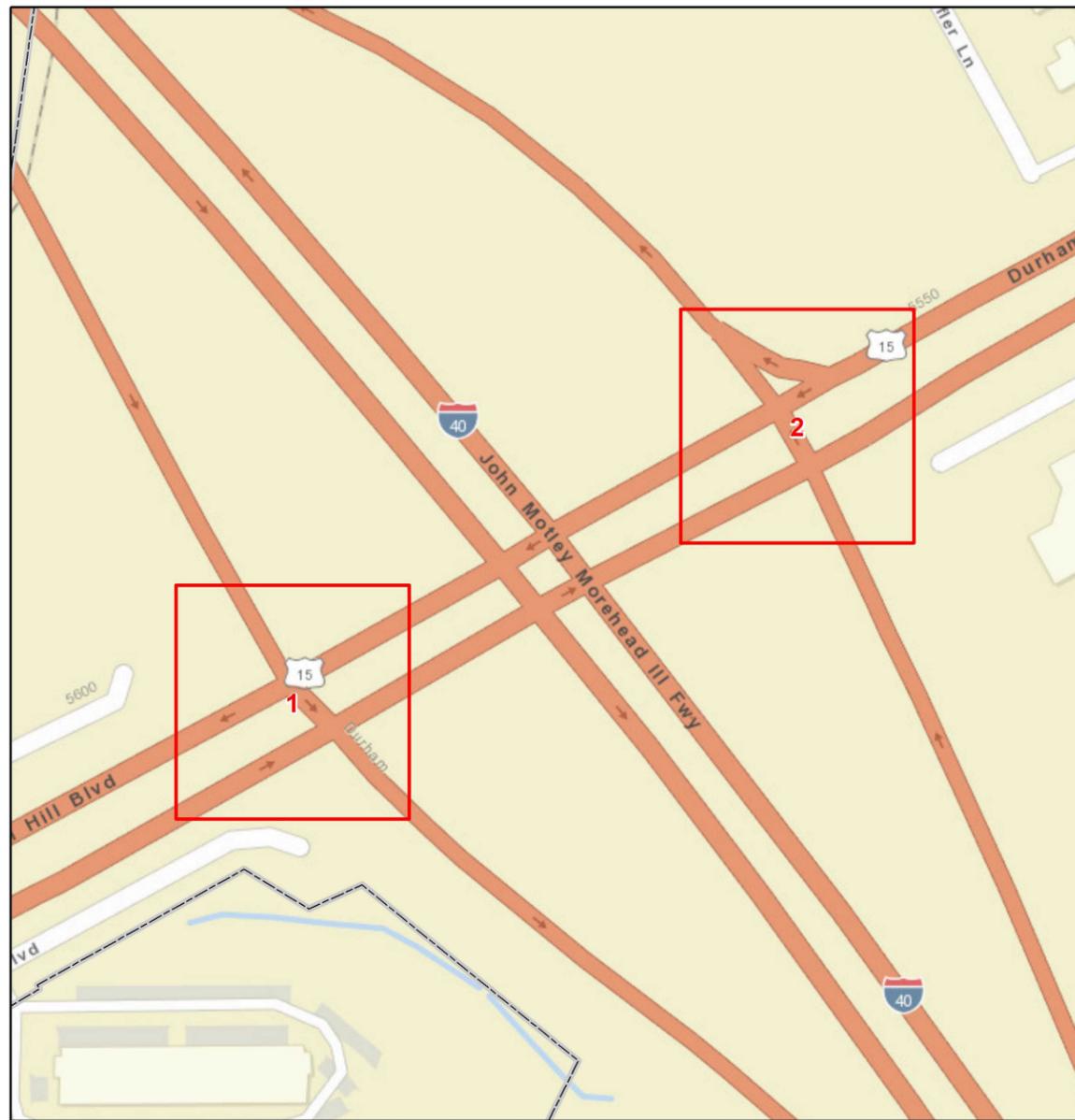
SHEET 10 OF 13
848D06

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

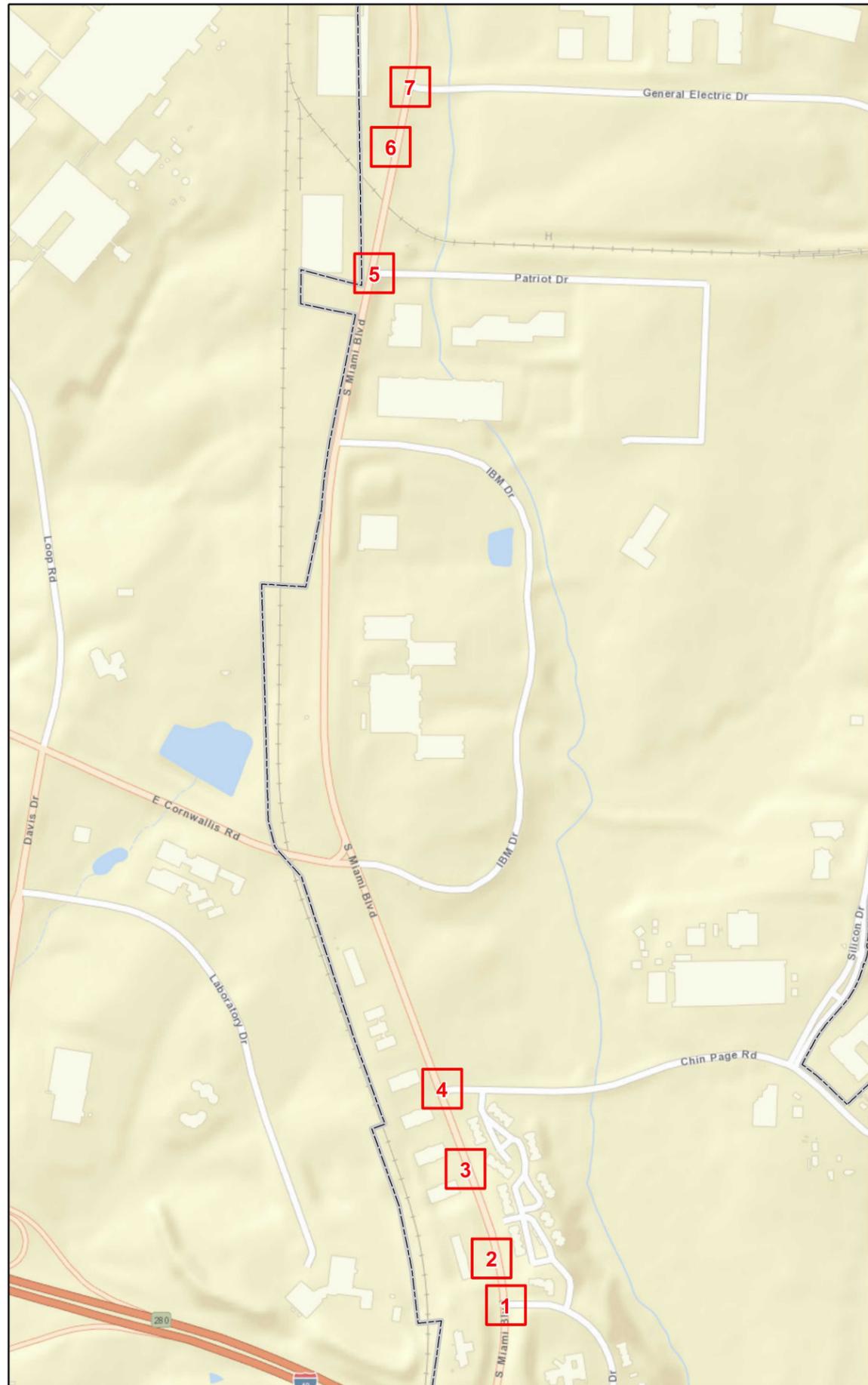
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

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



Curb Ramps To Be Repaired		
●	Retrofit	
●	Remove and Replace	
●	New Curb Ramp	
●	Remove Ramp	
■	Other	
	Municipal Boundary	
	NCHPO Historic Boundary (NR and LHD)	
Durham County WBS Number: 2026CPT.05.14.10321.1, etc. US 15/501 From/To Mt. Moriah Rd To/From Orange Co		
		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5
Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO		



Curb Ramps To Be Repaired

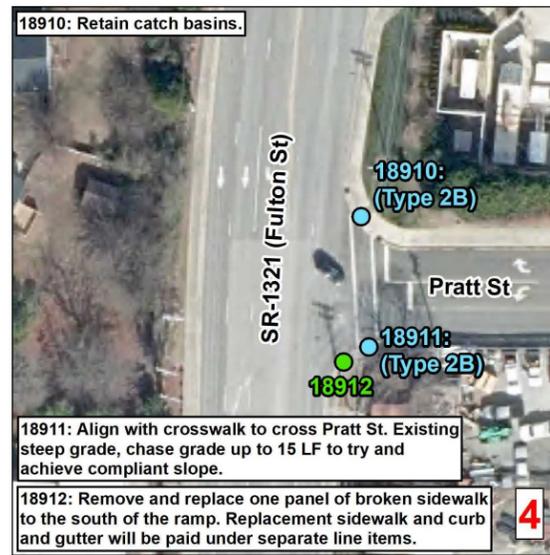
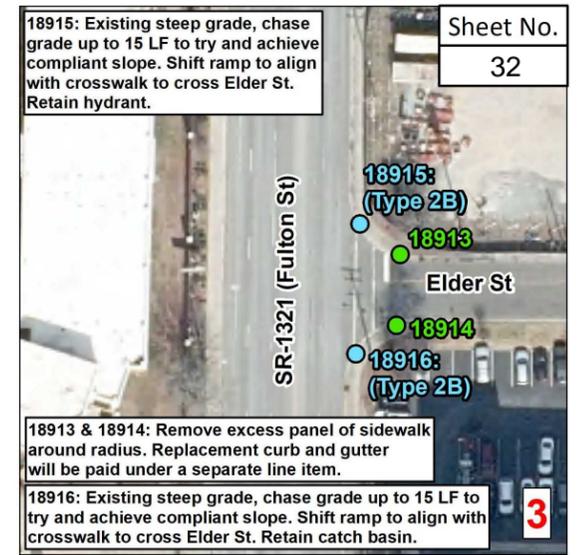
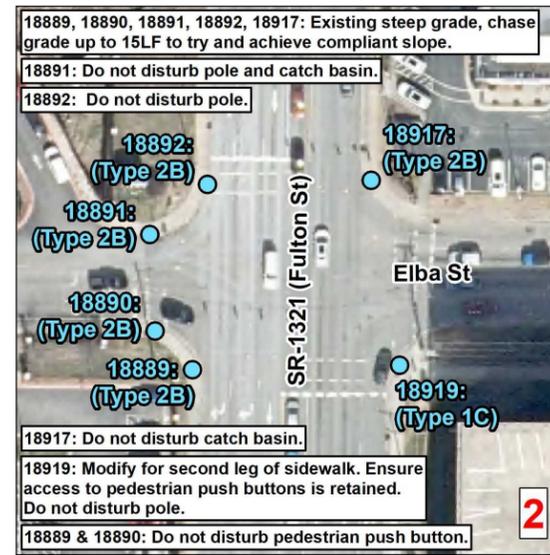
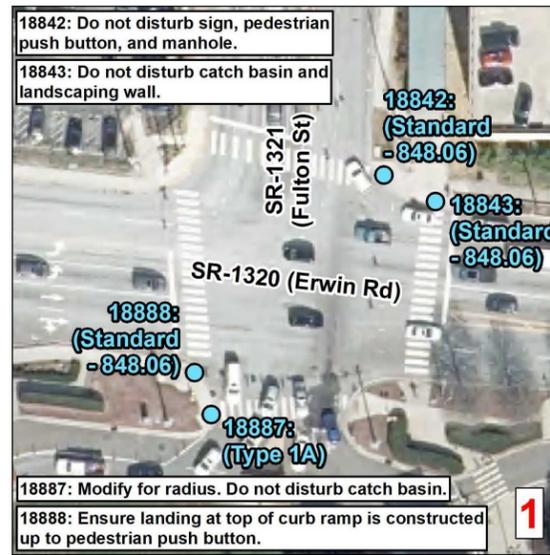
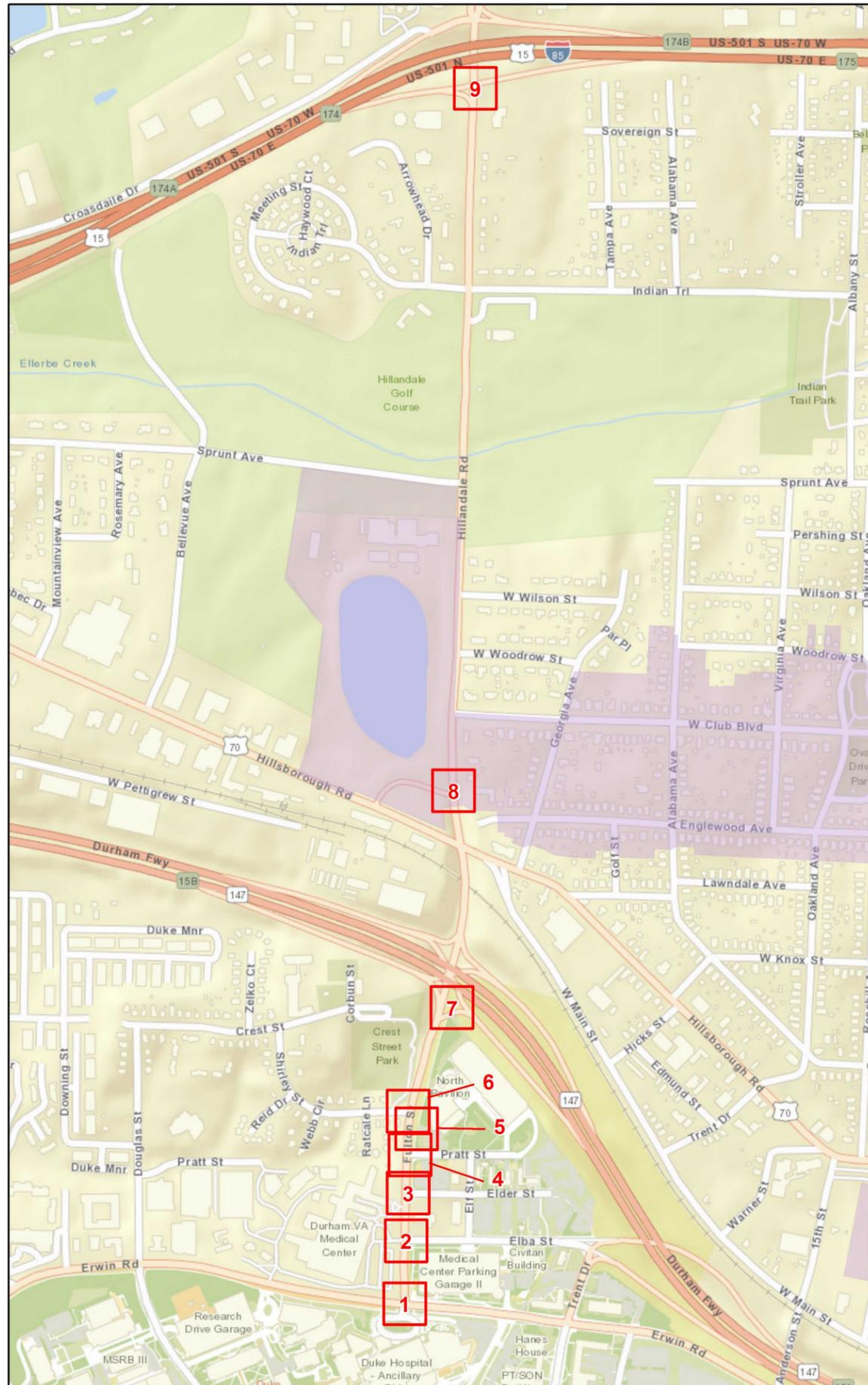
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

Durham County
WBS Number: 2026CPT.05.14.10321.1, etc.
Miami Blvd
From SR 2028 To I-40

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION 5

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



Curb Ramps To Be Repaired

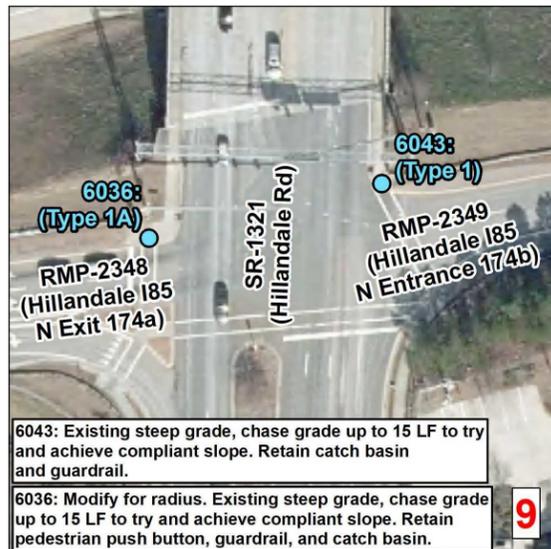
- Retrofit
- Remove and Replace
- New Curb Ramp
- Remove Ramp
- Other

Municipal Boundary
 NCHPO Historic Boundary (NR and LHD)

Durham County
WBS Number: 2026CPT.05.14.10321.1, etc.
Hillandale Rd
From SR 1320 To I-85

NORTH CAROLINA DEPARTMENT
 OF TRANSPORTATION
 DIVISION 5

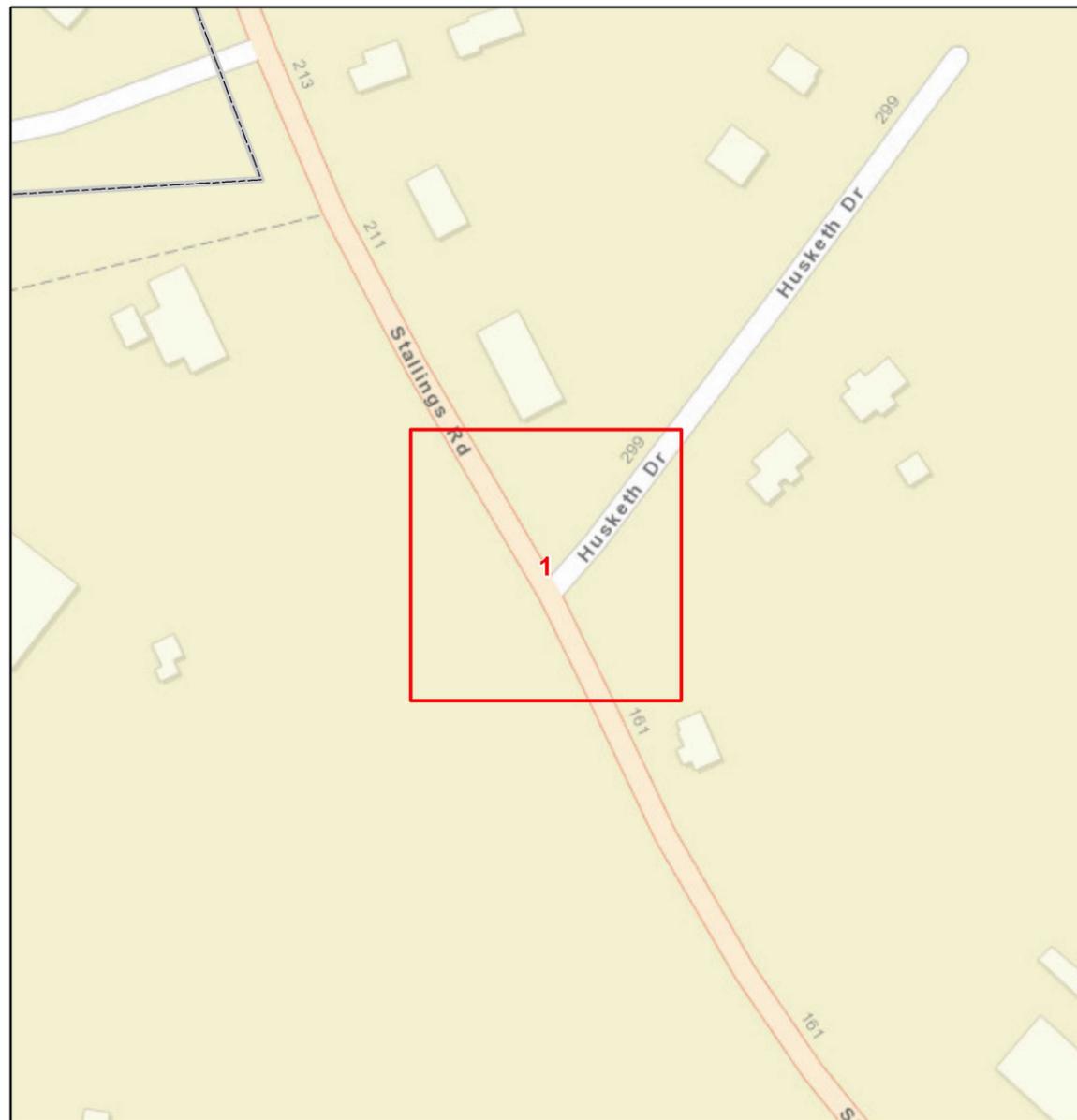
Source: NVS Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO



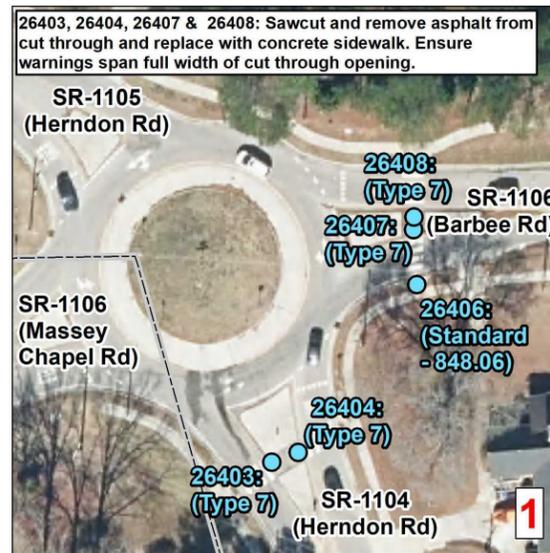
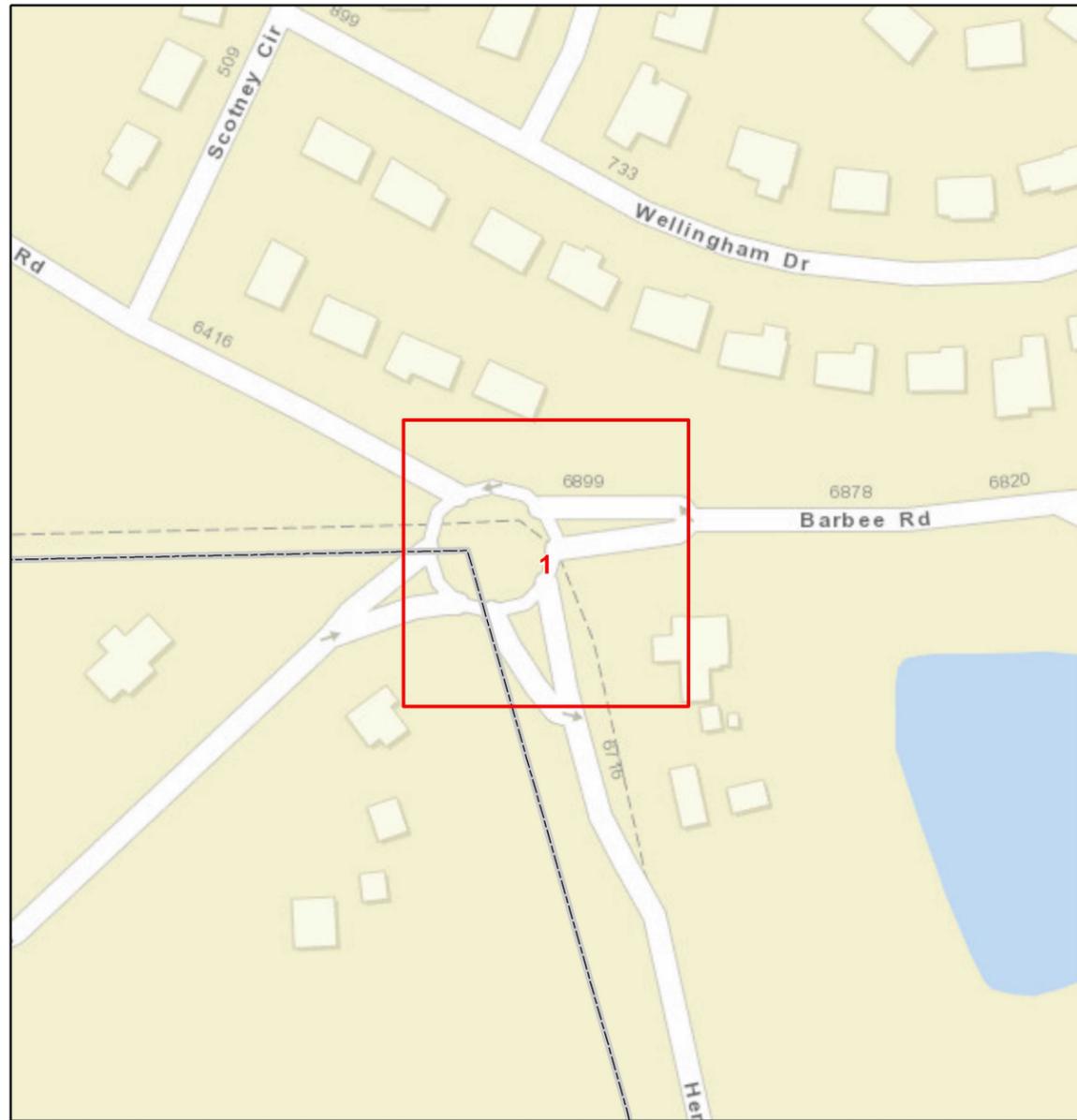
6043: Existing steep grade, chase grade up to 15 LF to try and achieve compliant slope. Retain catch basin and guardrail.

6036: Modify for radius. Existing steep grade, chase grade up to 15 LF to try and achieve compliant slope. Retain pedestrian push button, guardrail, and catch basin.

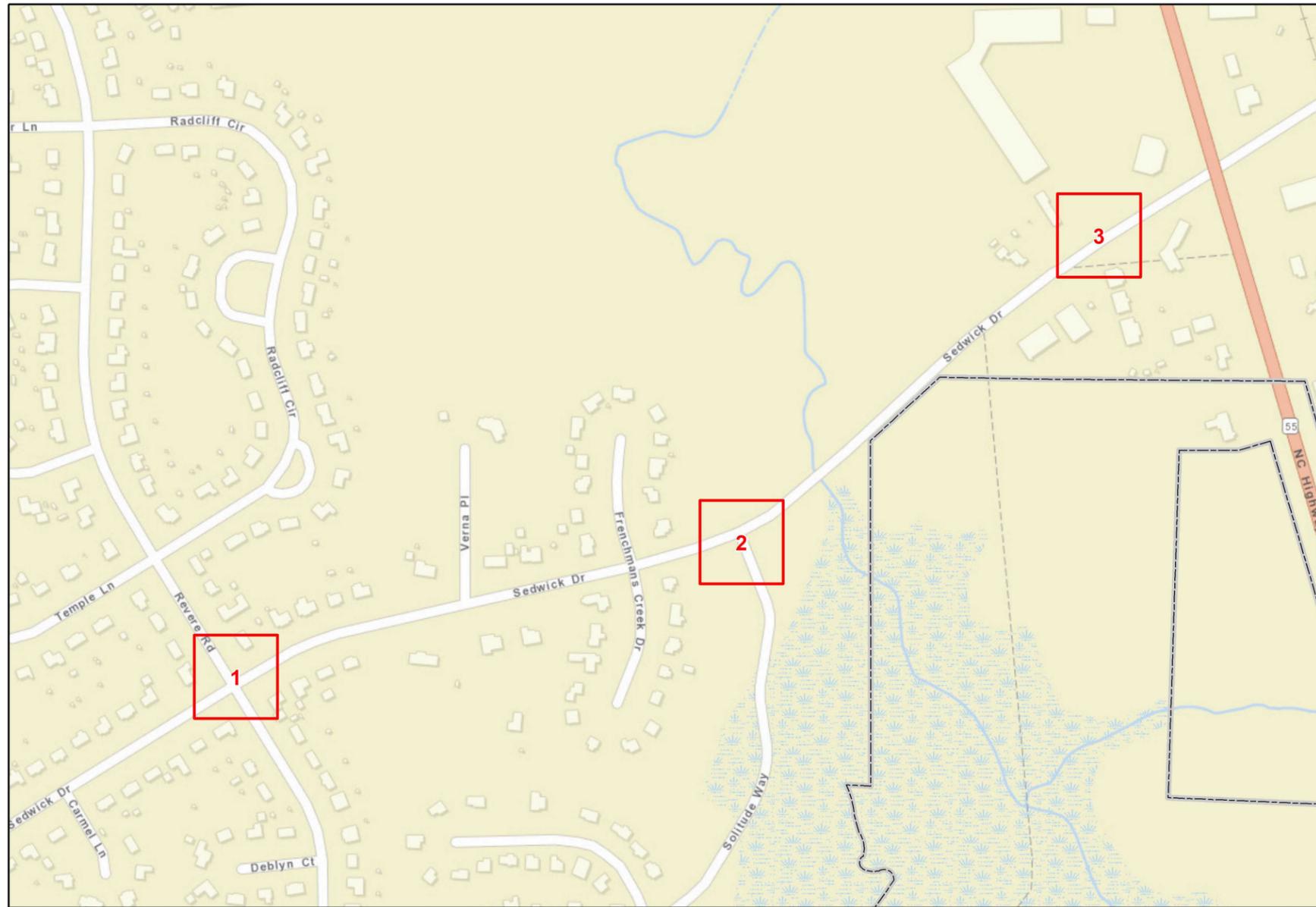
Curb Ramps To Be Repaired <ul style="list-style-type: none">RetrofitRemove and ReplaceNew Curb RampRemove RampOther   Municipal Boundary  NCHPO Historic Boundary (NR and LHD)
Durham County WBS Number: 2026CPT.05.14.10321.1, etc. Hillandale Rd From SR 1320 To I-85
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5 <small>Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO</small>



Curb Ramps To Be Repaired <ul style="list-style-type: none">● Retrofit● Remove and Replace● New Curb Ramp● Remove Ramp■ Other	
 Municipal Boundary	
 NCHPO Historic Boundary (NR and LHD)	
Durham County	
WBS Number: 2026CPT.05.14.10321.1, etc.	
Husketh Dr From SR 1814 To Dead End	
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5
<small>Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO</small>	



<p>Curb Ramps To Be Repaired</p> <ul style="list-style-type: none"> ● Retrofit ● Remove and Replace ● New Curb Ramp ● Remove Ramp ■ Other 		
<ul style="list-style-type: none"> Municipal Boundary NCHPO Historic Boundary (NR and LHD) 		
<p>Durham County</p> <p>WBS Number: 2026CPT.05.14.10321.1, etc.</p> <p>Massey Chapel/Barbee Rd. From NC 54 To SR 1118</p>		
		<p>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 5</p>
<p>Source: NV5 Engineers and Consultants Inc., ESRI, NC OneMap, NCDOT, NCHPO</p>		



Curb Ramps To Be Repaired

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

Municipal Boundary

NCHPO Historic Boundary (NR and LHD)



Durham County
WBS Number: 2026CPT.05.14.10321.1, etc.
Sedwick Rd.
From NC 55 To SR 1100

 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 5

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

ADA SUMMARY OF QUANTITIES - US 15/501 FROM/TO MT. MORIAH RD TO/FROM ORANGE CO

Municipality:	Durham
WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.
37

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
26393	1	US-15 (Durham Chapel Hill Blvd)	RMP-6752 (Durham Chapel Hill Blvd I40 E Exit 270)			12										1	Remove Ramp
26394	1	US-15 (Durham Chapel Hill Blvd)	RMP-6752 (Durham Chapel Hill Blvd I40 E Exit 270)			12										1	Remove Ramp
26395	1	US-15 (Durham Chapel Hill Blvd)	RMP-2303 (Durham Chapel Hill Blvd I40 E On Ramp)			12										1	Remove Ramp
26396	1	US-15 (Durham Chapel Hill Blvd)	RMP-2303 (Durham Chapel Hill Blvd I40 E On Ramp)			12										1	Remove Ramp
26397	2	US-15 (Durham Chapel Hill Blvd)	RMP-6751 (Durham Chapel Hill Blvd I40 W On Ramp)			20										1	Remove Ramp
26398	2	US-15 (Durham Chapel Hill Blvd)	RMP-6751 (Durham Chapel Hill Blvd I40 W On Ramp)			12										1	Remove Ramp
26399	2	US-15 (Durham Chapel Hill Blvd)	RMP-2300 (Durham Chapel Hill Blvd I40 W Exit 270)			15										1	Remove Ramp
Sub-Total for US 15/501 From/To Mt. Moriah Rd To/From Orange Co				0	0	95	0	0	0	0	0	0	0	0	0	7	

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

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - MIAMI BLVD FROM SR 2028 TO I-40

Municipality:	Durham
WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.
38

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
21403	1	SR-1959 (S Miami Blvd)	Guardian Dr			12			6							1	Remove Ramp
21404	1	SR-1959 (S Miami Blvd)	Guardian Dr			12			6							1	Remove Ramp
21405	1	SR-1959 (S Miami Blvd)	Guardian Dr			12										1	Remove Ramp
21399	2	SR-1959 (S Miami Blvd)	Extended Stay America (4610 S Miami Blvd)												1		Type 1A - 848.06
21400	2	SR-1959 (S Miami Blvd)	Extended Stay America (4610 S Miami Blvd)												1		Type 1D - 848.06
21397	3	SR-1959 (S Miami Blvd)	Miami North Office Park (4518 S Miami Blvd)												1		Type 1 Modified - 848.06
21398	3	SR-1959 (S Miami Blvd)	Miami North Office Park (4518 S Miami Blvd)												1		Type 1 Modified - 848.06
21176	4	SR-1959 (S Miami Blvd)	SR-1969 (Chin Page Rd)			20			8	6						1	Remove Ramp
21177	4	SR-1959 (S Miami Blvd)	SR-1969 (Chin Page Rd)			20			8							1	Remove Ramp
21395	4	SR-1959 (S Miami Blvd)	Miami North Office Park (4506 S Miami Blvd)									1			1		Type 1A - 848.06
21396	4	SR-1959 (S Miami Blvd)	Miami North Office Park (4506 S Miami Blvd)												1		Type 1 Modified - 848.06
26508	5	SR-1959 (S Miami Blvd)	Patriot Dr												1		Type 2B - 848.06
22687	6	SR-1959 (S Miami Blvd)	RRD (3700 S Miami Blvd) South Entrance												1		Type 1A - 848.06
22688	6	SR-1959 (S Miami Blvd)	RRD (3700 S Miami Blvd) South Entrance												1		Type 1A - 848.06
22685	7	SR-1959 (S Miami Blvd)	RRD (3700 S Miami Blvd) Middle Entrance												1		Type 1A - 848.06
22686	7	SR-1959 (S Miami Blvd)	RRD (3700 S Miami Blvd) Middle Entrance												1		Type 1A - 848.06
22689	7	SR-1959 (S Miami Blvd)	General Electric Dr												1		Type 1A - 848.06
22690	7	SR-1959 (S Miami Blvd)	General Electric Dr												1		Type 1A - 848.06
-	-	-	-	-	-	-	52*	-	-	12*	-	-	-	-	-	-	
Sub-Total for Miami Blvd From SR 2028 To I-40				0	0	76	52	0	28	18	0	1	0	0	13	5	

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

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - HILLANDALE RD FROM SR 1320 TO I-85

Municipality:	Durham
WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.
39

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
18842**	1	SR-1320 (Erwin Rd)	SR-1321 (Fulton St)														Standard - 848.06
18843**	1	SR-1320 (Erwin Rd)	SR-1321 (Fulton St)														Standard - 848.06
18887**	1	SR-1320 (Erwin Rd)	SR-1321 (Fulton St)														Type 1A - 848.06
18888**	1	SR-1320 (Erwin Rd)	SR-1321 (Fulton St)														Standard - 848.06
18889	2	SR-1321 (Fulton St)	Elba St														Type 2B - 848.06
18890	2	SR-1321 (Fulton St)	Elba St														Type 2B - 848.06
18891	2	SR-1321 (Fulton St)	Elba St														Type 2B - 848.06
18892	2	SR-1321 (Fulton St)	Elba St														Type 2B - 848.06
18917	2	SR-1321 (Fulton St)	Elba St														Type 2B - 848.06
18919**	2	SR-1321 (Fulton St)	Elba St														Type 1C - 848.06
18913	3	SR-1321 (Fulton St)	Elder St			15					4					1	Remove Ramp
18914	3	SR-1321 (Fulton St)	Elder St			14					4					1	Remove Ramp
18915	3	SR-1321 (Fulton St)	Elder St														Type 2B - 848.06
18916	3	SR-1321 (Fulton St)	Elder St														Type 2B - 848.06
18910	4	SR-1321 (Fulton St)	Pratt St														Type 2B - 848.06
18911	4	SR-1321 (Fulton St)	Pratt St														Type 2B - 848.06
18912	4	SR-1321 (Fulton St)	Pratt St			20			14	4						1	Remove Ramp
18908	5	SR-1321 (Fulton St)	Duke North Pavillion (2400 Pratt St) Fulton St Service Entrance														Type 1A - 848.06
18909	5	SR-1321 (Fulton St)	Duke North Pavillion (2400 Pratt St) Fulton St Service Entrance														Type 2B - 848.06
18893	6	SR-1321 (Fulton St)	Shirley St														Type 2B - 848.06
18894	6	SR-1321 (Fulton St)	Shirley St														Type 2B - 848.06
18895	6	SR-1321 (Fulton St)	Shirley St			20			11							1	Remove Ramp
18896	6	SR-1321 (Fulton St)	Shirley St			20			11							1	Remove Ramp
Sub-Total				0	0	89	0	0	36	4	8	0	0	0	18	5	

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

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - HILLANDALE RD FROM SR 1320 TO I-85

Municipality:	Durham
WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.
40

Ramp ID	Inset Map Number	Route 1	Route 2	015600000-E (SY) Removal of Existing Asphalt Pavement	170400000-E (TON) Patching Existing Pavement	254900000-E (LF) 2'-6" Concrete Curb & Gutter	275200000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	275200000-E (LF) Remove 2'-6" Concrete Curb & Gutter	259100000-E (SY) 4" Concrete Sidewalk	273800000-E (SY) Remove And Replace 4" Concrete Sidewalk	273800000-E (SY) Remove 4" Concrete Sidewalk	283000000-N (EA) Adjustment of Manholes	284500000-N (EA) Adjustment of Meter Boxes or Valve Boxes	273800000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	261250000-N (EA) Remove and Replace Concrete Curb Ramps	275900000-N (EA) Remove Concrete Curb Ramps	Improvement Type
18907	7	SR-1321 (Fulton St)	RMP-2403 (Fulton St Durham Fwy S On Ramp)												1		Type 1A - 848.06
6049	8	SR-1321 (Hillandale Rd)	RMP-2409 (Hillandale Rd Hillsborough Rd Ramp)												1		Type 2B - 848.06
26597	8	SR-1321 (Hillandale Rd)	RMP-2409 (Hillandale Rd Hillsborough Rd Ramp)			15			7							1	Remove Ramp
6036	9	SR-1321 (Hillandale Rd)	RMP-2348 (Hillandale I85 N Exit 174a)												1		Type 1A - 848.06
6043	9	SR-1321 (Hillandale Rd)	RMP-2349 (Hillandale I85 N Entrance 174b)												1		Type 1 - 848.06
-	-	-	-	-	-	-	88*	-	-	84*	-	-	-	-	-	-	
Sub-Total				0	0	15	88	0	7	84	0	0	0	0	4	1	
Sub-Total for Hillandale Rd From SR 1320 To I-85				0	0	104	88	0	43	88	8	0	0	0	22	6	

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

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - HUSKETH DR FROM SR 1814 TO DEAD END

Municipality:	Durham
WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.
41

Ramp ID	Inset Map Number	Route 1	Route 2	015600000-E (SY) Removal of Existing Asphalt Pavement	170400000-E (TON) Patching Existing Pavement	254900000-E (LF) 2'-6" Concrete Curb & Gutter	275200000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	275200000-E (LF) Remove 2'-6" Concrete Curb & Gutter	259100000-E (SY) 4" Concrete Sidewalk	273800000-E (SY) Remove And Replace 4" Concrete Sidewalk	273800000-E (SY) Remove 4" Concrete Sidewalk	283000000-N (EA) Adjustment of Manholes	284500000-N (EA) Adjustment of Meter Boxes or Valve Boxes	273800000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	261250000-N (EA) Remove and Replace Concrete Curb Ramps	275900000-N (EA) Remove Concrete Curb Ramps	Improvement Type
26419	1	SR-1814 (Stallings Rd)	SR-1877 (Husketh Dr)								9					1	Remove Ramp
26420	1	SR-1877 (Husketh Dr)	SR-1814 (Stallings Rd)												1		Type 1 Modified - 848.06
Sub-Total for Husketh Dr From SR 1814 To Dead End				0	0	0	0	0	0	0	9	0	0	0	1	1	

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

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - MASSEY CHAPEL/BARBEE RD. FROM NC 54 TO SR 1118

Municipality:	Durham
WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.
42

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
26403	1	SR-1104 (Herndon Rd)	SR-1106 (Massey Chapel Rd)	9											1		Type 7 - 848.06
26404	1	SR-1104 (Herndon Rd)	SR-1106 (Barbee Rd)	9											1		Type 7 - 848.06
26406	1	SR-1106 (Barbee Rd)	SR-1104 (Herndon Rd)												1		Standard - 848.06
26407	1	SR-1106 (Barbee Rd)	SR-1104 (Herndon Rd)	6											1		Type 7 - 848.06
26408	1	SR-1106 (Barbee Rd)	SR-1105 (Herndon Rd)	6											1		Type 7 - 848.06
Sub-Total for Massey Chapel/Barbee Rd. From NC 54 To SR 1118				30	0	0	0	0	0	0	0	0	0	0	5	0	

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

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - SEDWICK RD. FROM NC 55 TO SR 1100

Municipality:	Durham
WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.
43

Ramp ID	Inset Map Number	Route 1	Route 2	0156000000-E (SY) Removal of Existing Asphalt Pavement	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	Improvement Type
26412	1	SR-1102 (Sedwick Rd)	Revere Rd												1		Type 2A - 848.06
26413	1	SR-1102 (Sedwick Rd)	Revere Rd			15							1			1	Remove Ramp
21835	2	SR-1102 (Sedwick Rd)	Solitude Way			20			7			1				1	Remove Ramp
21836	2	SR-1102 (Sedwick Rd)	Solitude Way										2		1		Type 1A - 848.06
21837	2	SR-1102 (Sedwick Rd)	Solitude Way			18										1	Remove Ramp
21838	2	SR-1102 (Sedwick Rd)	Solitude Way												1		Type 1A - 848.06
21834	3	SR-1102 (Sedwick Rd)	Greenwood Commons Shopping Center (5410 NC-55) Sedwick Rd Entrance												1		Type 1C - 848.06
26414	3	SR-1102 (Sedwick Rd)	Greenwood Commons Shopping Center (5410 NC-55) Sedwick Rd Entrance		4	16		30						1			Other
-	-	-	-	-	-	-	16*	-	-	4*	-	-	-	-	-	-	-
Sub-Total for Sedwick Rd. From NC 55 To SR 1100				0	4	69	16	30	7	0	0	1	3	1	4	3	

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

**While ramp is compliant upon initial inspection, it is to be improved in order to create a more resilient curb ramp.

Notes: (1) ADA quantity totals are provided on the project 'ADA SUMMARY OF QUANTITIES - TOTALS' page. (2) Construct in accordance with Section 848. Detectable warnings shall be of one of the following materials: engineered plastics, rubber, or composite tile. Additionally, warnings shall be applied directly to the curb ramps by incorporating into the concrete of the curb ramps unless otherwise approved by the Engineer. Surface mounted rubber mats, brick, steel and stamped concrete pavers will not be accepted.

ADA SUMMARY OF QUANTITIES - TOTALS

WBS Number:	2026CPT.05.14.10321.1, etc.
County:	Durham

Sheet No.	44
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WBS 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	1704000000-E (TON) Patching Existing Pavement	2549000000-E (LF) 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove And Replace 2'-6" Concrete Curb & Gutter	2752000000-E (LF) Remove 2'-6" Concrete Curb & Gutter	2591000000-E (SY) 4" Concrete Sidewalk	2738000000-E (SY) Remove And Replace 4" Concrete Sidewalk	2738000000-E (SY) Remove 4" Concrete Sidewalk	2830000000-N (EA) Adjustment of Manholes	2845000000-N (EA) Adjustment of Meter Boxes or Valve Boxes	2738000000-E (SY) Remove 5" Monolithic Concrete Islands (Keyed In)	2612500000-N (EA) Remove and Replace Concrete Curb Ramps	2759000000-N (EA) Remove Concrete Curb Ramps	
2026CPT.05.14.10321.1	Durham	Durham	US 15/501 From/To Mt. Moriah Rd To/From Orange Co	0	0	0	0	0	95	0	0	0	0	0	0	0	0	0	0	7
2026CPT.05.14.20321.1	Durham	Durham	Hillandale Rd From SR 1320 To I-85				0	0	104	88	0	43	88	8	0	0	0	0	22	6
2026CPT.05.14.20321.1	Durham	Durham	Massey Chapel/Barbee Rd. From NC 54 To SR 1118				30	0	0	0	0	0	0	0	0	0	0	0	5	0
2026CPT.05.14.20321.1	Durham	Durham	Sedwick Rd. From NC 55 To SR 1100	60	15	10	0	4	69	16	30	7	0	0	1	3	1	4	3	
2026CPT.05.14.20321.1	Durham	Durham	Miami Blvd From SR 2028 To I-40				0	0	76	52	0	28	18	0	1	0	0	13	5	
2026CPT.05.14.20321.1	Durham	Outside Municipality	Husketh Dr From SR 1814 To Dead End				0	0	0	0	0	0	0	9	0	0	0	1	1	
GRAND TOTAL				60	15	10	30	4	344	156	30	78	106	17	2	3	1	45	22	

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.05.14.10321.1, ETC.	45	

SUMMARY OF QUANTITIES

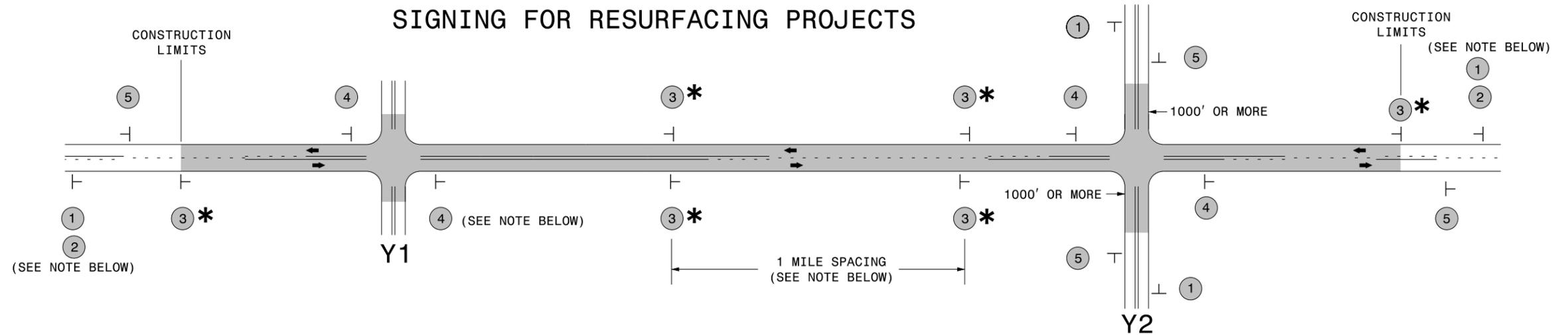
PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP NO.	0106000000-E		0156000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1308000000-E			1330000000-E	1519000000-E	1523000000-E	1575000000-E	1704000000-E	2549000000-E	2591000000-E	2612500000-N	2738000000-E			2752000000-E		2759000000-N	2830000000-N	2845000000-N	4600000000-N		6084000000-E	7444000000-E					
						MI	FT	CY	SY	TONS	SMI	TON	SY	SY	SY	SY	SY	SY	TONS	TONS	TON	TONS	LF	SY	EA	SY	SY	SY	LF	LF	EA	EA	EA	EA	EA	EA	EA	AC	LF	
2026CPT.05.14.10321.1	Durham	1	US-15 N / DURHAM CHAPEL HILL BLVD	FROM ORANGE CO TO MT. MORIAH RD	1	0.364	55						11,035				934		1,020	61	25																	888		
		2	US-15 S / DURHAM CHAPEL HILL BLVD	FROM MT. MORIAH RD TO ORANGE CO	1	0.364	55							9,285				934		859	52	25	95							7								432		
TOTAL FOR PROJ NO. 2026CPT.05.14.10321.1						0.728						20,320				1,868		1,879	113	50	95						7								1,320					
2026CPT.05.14.20321.1	Durham	3	SR-1959 / S MIAMI BLVD	FROM SR 2028 TO 600' N OF E CORNWALLIS RD, GUARDIAN DR - I-	2	1.693	60						65,552				122		5,506	327	50	76	28	13.0	18			52									1,908			
		4	SR-1959 / S MIAMI BLVD	FROM I-40 TO END DIVIDED	1	0.181	36							4,326				55		400	25	25															48			
		5	SR-1918 / BEASLEY AVE	FROM NC 98 TO END MAINT	3	0.180	16	11				0.22						88	200		28	320																0.16		
		6	SR-1805 / BOYCE MILL RD	FROM NC 98 TO WAKE CO	4	0.588	20				34	1.33	62		17			127	648		49	144																		
		7	SR-1387 / COMFORT LN	FROM SR 1314 TO DEAD END	3	0.263	21				14	0.56	26					90	339		24	44																0.12		
		8	SR-1682 / CONSTANCE AVE	FROM SR 1671 TO DEAD END	5	0.167	20	17				0.34						82	151		19	189																0.07		
		9	SR-2321 / CREEKSIDE CV	FROM SR 2320 TO CUL-DE-SAC	5	0.075	20	9				0.18						45	97		10	82																0.44		
		10	SR-2327 / DAWN TRL	FROM SR 2326 TO CUL-DE-SAC	5	0.280	20	30				0.60						65	276		33	324																	0.08	
		11	SR-2472 / ENO WOODS TRL	FROM SR 1449 TO ORANGE CO	5	0.050	20	6				0.11						139	53		9	119																	0.19	
		12	SR-2026 / GRANADA DR	FROM SR 2164 TO SR 2027	3	0.134	18	13				0.26						99	148		22	262																	0.99	
		13	SR-1633 / HAMLIN RD	FROM SR 1632 TO END MAINT	3	1.310	20	136				2.72						105	1,396		118	569																	2,607	
		14	SR-1321 / FULTON ST/HILLDALE RD	FROM SR 1320 TO I-85	6	1.345	37				26	1.04	48		39,291			527	3,567		234	50	104	43	22.0	88	8		88			6							0.09	
		15	SR-1877 / HUSKETH DR	FROM SR 1814 TO DEAD END	3	0.109	18	13				0.26						35	120		10	39			1.0		9				1								834	
		16	SR-1106 / BARBEE RD/MASSEY CHAPEL RD	FROM NC 54 TO SR 1118	7	1.439	20			30.0	72	2.88	133		124			134	1,797		120	57			5.0															
		17	SR-1314 / NEAL RD	FROM US 70 BUS TO SR 1317	8	0.187	20				13	0.49	23		2,634			983	479		31																		0.94	
		18	SR-2320 / NOVEMBER DR	FROM SR 1449 TO SR 2326	9	0.693	20	51				1.12						125	637		54	253																	0.13	
		19	SR-2425 / RED COACH RD	FROM SR 1453 TO END PAVEMENT	5	0.168	20	19				0.36						196	162		21	217																	0.49	
		20	SR-1620 / ROBERTS RD	FROM SR 1616 TO CUL-DE-SAC	5	0.424	20	67				1.34						45	414		28	32																	0.17	
		21	SR-1102 / SEDWICK RD	FROM NC 55 TO SR 1100	7	1.123	30				4	0.15	7		1,354			150	1,732		117	100	69	7	4.0			1	16	30	3	2	6						384	
		22	SR-2027 / SHILOH DR	FROM SR 2026 TO DEAD END	3	0.122	18	12				0.24						50	134		21	252																		0.04
		23	SR-2465 / STRAWBERRY LN	FROM SR 2320 TO CUL-DE-SAC	5	0.055	20	6				0.12						25	77		8	67																	0.45	
		24	SR-2326 / THUNDER RD	FROM SR 2320 TO SR 2320	5	0.281	20	31				0.62						85	254		23	139																	0.41	
		25	SR-1724 / VENTORIA RD	FROM SR 1640 TO SR 2636	5	0.302	20	28				0.56						165	276		25	157																	0.79	
		26	SR-2462 / WOODHAVEN DR	FROM SR 1451 TO CUL-DE-SAC	5	0.528	20	55				1.08						95	489		69	777																		5.56
		TOTAL FOR PROJ NO. 2026CPT.05.14.20321.1						11.697		504	30.0	163	16.58	299	111,803	1,495	165	3,632	13,446	5,906	1,425	4,268	249	78	45.0	106	17	1	156	30	15	4	14	15	10	5.56	5,781			
		2026CPT.05.14.20322.1	Durham	27	SR-2620 / BLALOCK RD	FROM SR1628 TO CUL-DE-SAC	10	0.126	18									25	102		7																			
28	SR-1674 / COLCLOUGH AVE/BUNDY AVE			FROM SR 1636 TO I-85 RAMP	11	0.464	20										194	342		22																				
29	SR-1704 / MORTON DR			FROM SR 1634 TO DEAD END	10	0.215	20										59	154		10																				
30	SR-1694 / RILEY DR			FROM SR 1634 TO DEAD END	10	0.177	20										84	128		8																				
TOTAL FOR PROJ NO. 2026CPT.05.14.20322.1						0.982									30	362	726		47																					
2026CPT.05.14.20921.1	Wake	31	SR-3455 / BOYCE MILL RD	FROM SR 1831 TO DURHAM COUNTY	3	0.107	20									25	115		9	25																				
		TOTAL FOR PROJ NO. 2026CPT.05.14.20921.1						0.107			5	0.22	10				25	115		9	25																			
GRAND TOTAL						13.514		504	30.0	168	16.80	309	132,123	1,495	165	5,887	14,287	7,785	1,594	4,343	344	78	45.0	106	17	1	156	30	22	4	14	15	10	5.56	7,101					

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.05.14.10321.1, ETC.	46	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH		4413000000-E WORK ZONE ADVANCE/GEN ERAL WARNING SIGNING	4447000000-E PEDESTRIAN CHANNELIZING DE- VICES	4457000000-N TEMPORARY TRAFFIC CONTROL	4510000000-N LAW ENFORCEMENT	4685000000-E 4" X 90 M WHITE THERMO	4688000000-E 4" X 90 M YELLOW THERMO	4695000000-E 6" X 90 M YELLOW THERMO	4700000000-E 6" X 90 M WHITE THERMO	4704000000-E 8" X 90 M YELLOW THERMO	4709000000-E 12" X 90 M YELLOW THERMO	4720000000-E 16" X 90 M WHITE THERMO	THERMO MSG ONLY 90 M	THERMO MSG RXR 90 M	THERMO STR ARROW 90 M	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO MERGE ARROW 90 M	4775000000-E		4855000000-E 6" LINE REMOVAL	4890000000-E YIELD LINE THERMOPLASTIC PAVEMENT MARKING 24" (90 MILS)	4895000000-N POLYCARBONATE H MARKERS					
						MI	FT																			SF	LF				LS	HR	LF	LF	LF
2026CPT.05.14.10321.1	Durham	1	US-15 N / DURHAM CHAPEL HILL BLVD	FROM ORANGE CO TO MT. MORIAH RD	1	0.364	55	49			120			1,230	2,512					190	16		23	13	2	4			220	200	420		105		
		2	US-15 S / DURHAM CHAPEL HILL BLVD	FROM MT. MORIAH RD TO ORANGE CO	1	0.364	55	48			120				1,574	1,978					115	16		19	10	4	2			220	200	420		105	
TOTAL FOR PROJ NO. 2026CPT.05.14.10321.1							0.728	97		1.000	240			2,804	4,490				305	32		42	23	6	6		440	400	840		210				
													7,294							32			77				840								
2026CPT.05.14.20321.1	Durham	3	SR-1959 / S MIAMI BLVD	FROM SR 2028 TO 600' N OF E CORNWALLIS RD, GUARDIAN DR - I-40	2	1.693	60	196			200	12,296	22,300			20	250	894		10	19	48	7	5							250				
		4	SR-1959 / S MIAMI BLVD	FROM I-40 TO END DIVIDED	1	0.181	36	25			40	1,355										8	1	3											
		5	SR-1918 / BEASLEY AVE	FROM NC 98 TO END MAINT	3	0.18	16	13																											
		6	SR-1805 / BOYCE MILL RD	FROM NC 98 TO WAKE CO	4	0.588	20	75					6,520	6,520																					
		7	SR-1387 / COMFORT LN	FROM SR 1314 TO DEAD END	3	0.263	21	32					2,916	2,916						25															
		8	SR-1682 / CONSTANCE AVE	FROM SR 1671 TO DEAD END	5	0.167	20	20																											
		9	SR-2321 / CREEKSIDE CV	FROM SR 2320 TO CUL-DE-SAC	5	0.075	20	11																											
		10	SR-2327 / DAWN TRL	FROM SR 2326 TO CUL-DE-SAC	5	0.28	20	34																											
		11	SR-2472 / ENO WOODS TRL	FROM SR 1449 TO ORANGE CO	5	0.05	20	7																											
		12	SR-2026 / GRANADA DR	FROM SR 2164 TO SR 2027	3	0.134	18	15																											
		13	SR-1633 / HAMLIN RD	FROM SR 1632 TO END MAINT	3	1.31	20	153					14,525	14,525																					
		14	SR-1321 / FULTON ST/HILLDALE RD	FROM SR 1320 TO I-85	6	1.345	37	157	60			280	12,324	9,773			72			678	4		34	22	4	3	4								
		15	SR-1877 / HUSKETH DR	FROM SR 1814 TO DEAD END	3	0.109	18	15																											
		16	SR-1106 / BARBEE RD/MASSEY CHAPEL RD	FROM NC 54 TO SR 1118	7	1.439	20	173				80	17,168	15,958			186			144			1	4	2							32			
		17	SR-1314 / NEAL RD	FROM US 70 BUS TO SR 1317	8	0.187	20	28					2,076	2,076						45				3	3										
		18	SR-2320 / NOVEMBER DR	FROM SR 1449 TO SR 2326	9	0.693	20	81					210	733																					
		19	SR-2425 / RED COACH RD	FROM SR 1453 TO END PAVEMENT	5	0.168	20	21																											
		20	SR-1620 / ROBERTS RD	FROM SR 1616 TO CUL-DE-SAC	5	0.424	20	76																											
		21	SR-1102 / SEDWICK RD	FROM NC 55 TO SR 1100	7	1.123	30	138				40	13,048	12,455			44			135				5					2						
		22	SR-2027 / SHILOH DR	FROM SR 2026 TO DEAD END	3	0.122	18	14																											
		23	SR-2465 / STRAWBERRY LN	FROM SR 2320 TO CUL-DE-SAC	5	0.055	20	7																											
		24	SR-2326 / THUNDER RD	FROM SR 2320 TO SR 2320	5	0.281	20	35																											
		25	SR-1724 / VENTORIA RD	FROM SR 1640 TO SR 2636	5	0.302	20	32																											
		26	SR-2462 / WOODHAVEN DR	FROM SR 1451 TO CUL-DE-SAC	5	0.528	20	61																											
		TOTAL FOR PROJ NO. 2026CPT.05.14.20321.1							11.697	1,419	60.000	1.000	640	82,438	87,256		302	20	250	1,991	4	10	62	83	19	8	4	2			32				
														169,694								14			178										
2026CPT.05.14.20322.1	Durham	27	SR-2620 / BLALOCK RD	FROM SR1628 TO CUL-DE-SAC	10	0.126	18	16																											
		28	SR-1674 / COLCLOUGH AVE/BUNDY AVE	FROM SR 1636 TO I-85 RAMP	11	0.464	20	64					5,140	5,140					25			1		1											
		29	SR-1704 / MORTON DR	FROM SR 1634 TO DEAD END	10	0.215	20	26																											
		30	SR-1694 / RILEY DR	FROM SR 1634 TO DEAD END	10	0.177	20	20																											
TOTAL FOR PROJ NO. 2026CPT.05.14.20322.1							0.982	126		1.000		5,140	5,140				25			1		1													
												10,280											2												
2026CPT.05.14.20921.1	Wake	31	SR-3455 / BOYCE MILL RD	FROM SR 1831 TO DURHAM COUNTY	3	0.107	20	13				1,190	1,190																						
		TOTAL FOR PROJ NO. 2026CPT.05.14.20921.1							0.107	13		1.000	1,190	1,190																					
GRAND TOTAL							13.514	1,655	60.000	1.000	880	88,768	93,586	2,804	4,490	302	20	250	2,321	36	10	105	106	26	14	4	2	440	400	840	32	210			
												182,354		7,294						46			257				840								

SIGNING FOR RESURFACING PROJECTS



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

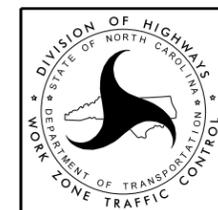
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
1 2		<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>
3 *		<p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>
4		<p>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p>
5		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>
		<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;"> PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>

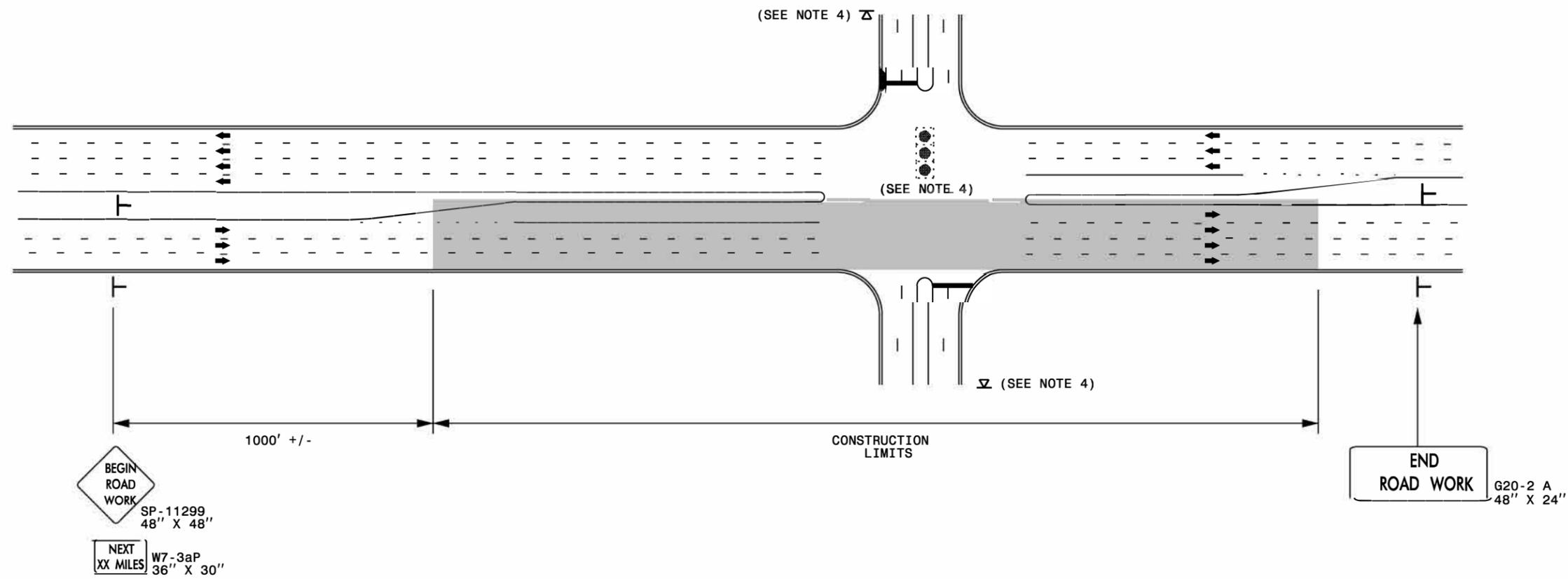
* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

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



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

URBAN / SUBURBAN WORKZONES



NOTES:

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

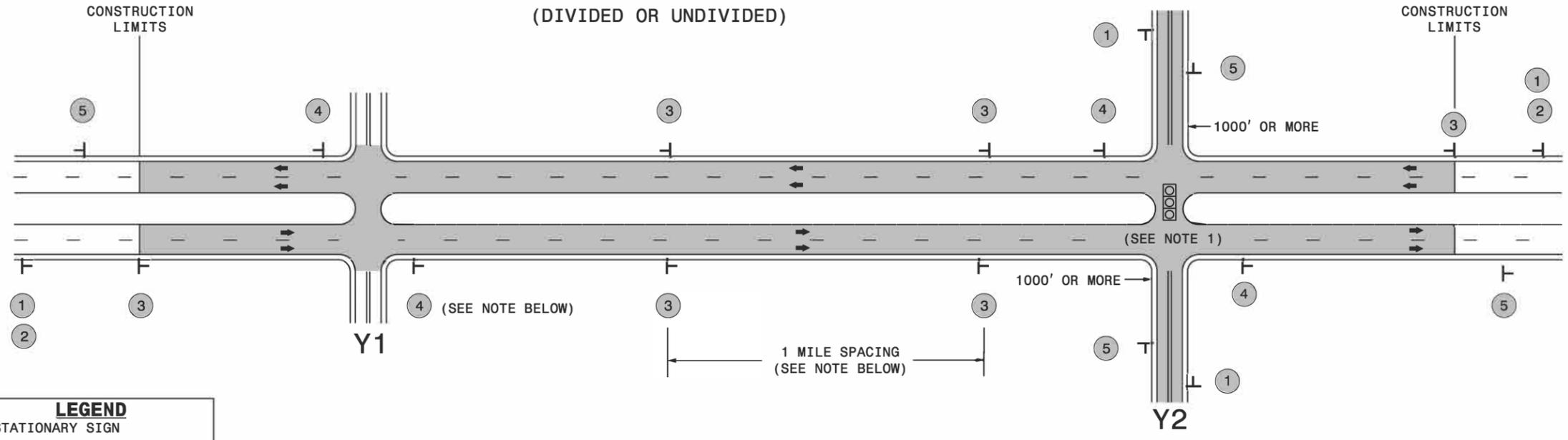
LEGEND	
└	STATIONARY SIGN
➔	DIRECTION OF TRAFFIC FLOW



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

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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

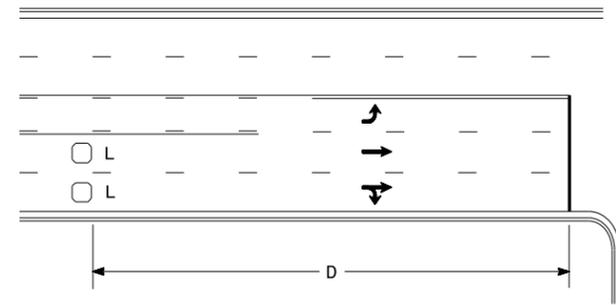
SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p style="text-align: center;">NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: 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;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </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	 W7-3aP 24" X 18"	#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	 SP 13107 48" X 48"	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	 SP 13106 48" X 48"	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
	5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	

2/24/2014
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DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

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

High Speed Detection (≥35 mph)

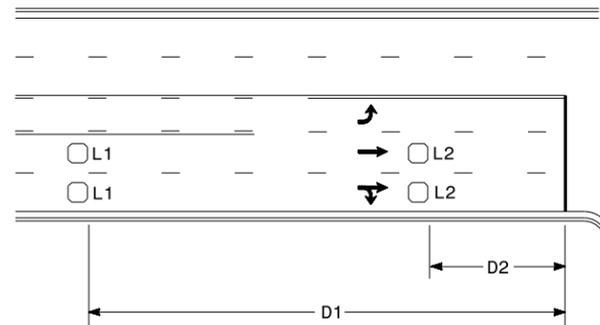


Speed Limit mph	D ft
35	200
40	250
45	300
50	355
55	420
60	475
65	550

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR



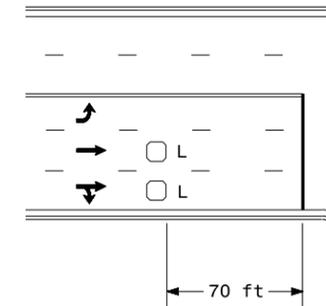
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110
60	475	120
65	550	130

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

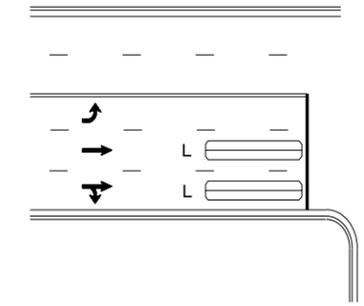
"Stretch" Operation

Low Speed Detection (≤35 mph)



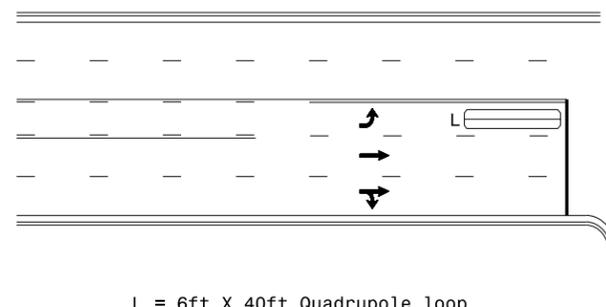
L = 6ft X 6ft
Wired in series

OR



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

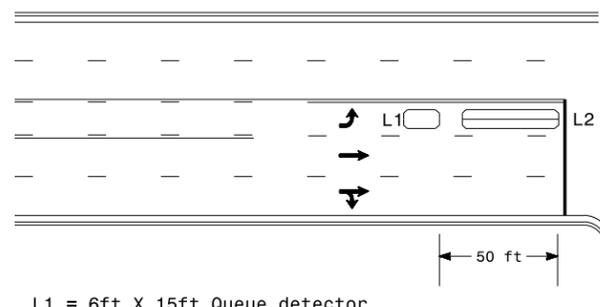
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

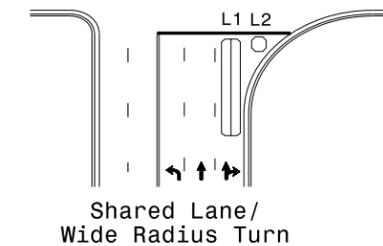
OR



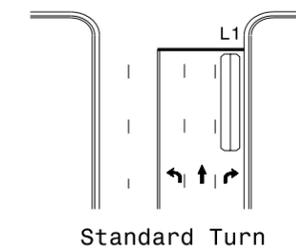
L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

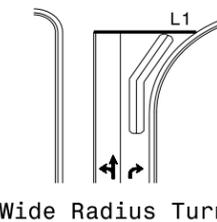
Right Turn Lane Detection



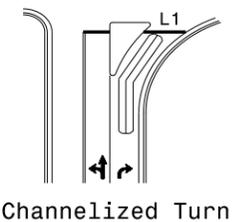
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

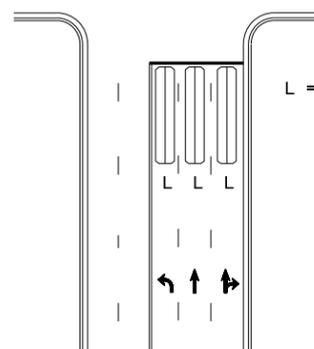


Wide Radius Turn



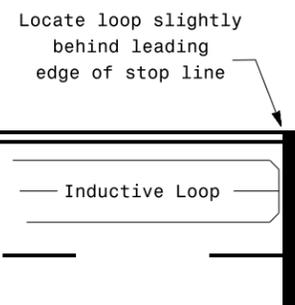
Channelized Turn

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

Typical Signal Loop Locations

Prepared in the Offices of:		PLAN DATE: September 2025		REVIEWED BY:	
		PREPARED BY: J.A. Lohr		REVIEWED BY:	
		SCALE: N/A		DATE:	
750 N. Greenfield Pkwy, Garner, NC 27529		REVISIONS		INIT. DATE	

11/25/2025
DATE

SIG. INVENTORY NO.