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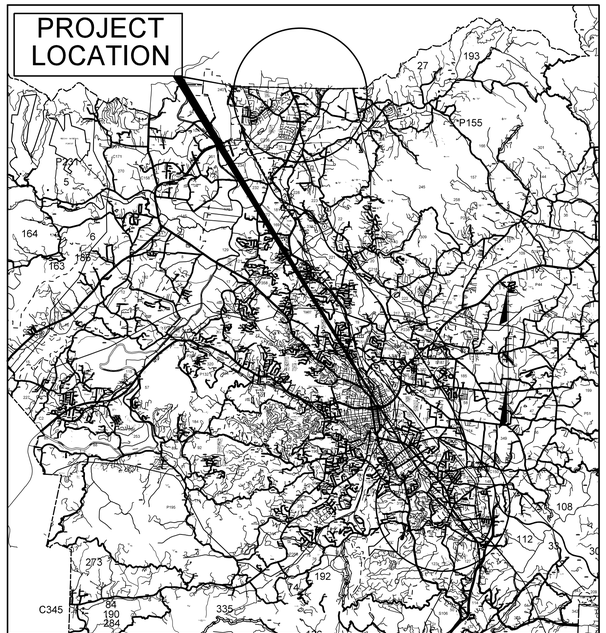
09/08/99

TIP PROJECT: R-5794D

CONTRACT: DN00651

See Sheet 1A For Index of Sheets



HENDERSON VICINITY MAP N.T.S.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5794D	1	5

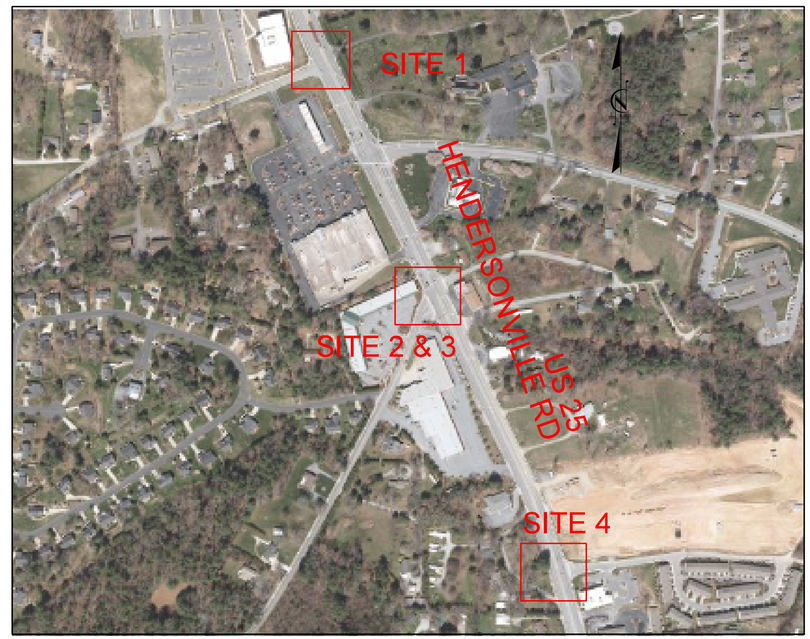
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44910.3.6		

HENDERSON COUNTY

LOCATION: HENDERSON COUNTY

SITE 1 – US 25 (HENDERSONVILLE ROAD) AND SR 1360 (NORTH HILLCREST ROAD)
SITE 2 – US 25 (HENDERSONVILLE ROAD) AND SR 1361 (ST. JOHN ROAD AND BALDWIN COURT)
SITE 3 – US 25 (HENDERSONVILLE ROAD) AND SR 1361 (ST. JOHN ROAD AND BALDWIN COURT)
SITE 4 – US 25 (HENDERSONVILLE ROAD) AND SR 1361 (ST. JOHN ROAD AND BALDWIN COURT)

TYPE OF WORK: CURB RAMPS



GRAPHIC SCALES

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PLANS

DESIGN DATA

ADT 2015 = N/A
ADT 2017 = N/A
DHV = N/A
D = N/A
T = N/A
V = VARIES
* TTST = N/A
FUNC CLASS = LOCAL

PROJECT LENGTH

N/A

Prepared in the Office of:

WSP USA Inc.
1001 MOREHEAD SQUARE DRIVE
SUITE 610
CHARLOTTE, NC 28203
NC LIC. NO. F-0165

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A

LETTING DATE: NOVEMBER 13, 2018

SIERRA HAYNES, PE
PROJECT ENGINEER

PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

9/24/2018 9:34:10 AM PDT

DocuSigned by:
J. Sierra Haynes
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NORTH CAROLINA PROFESSIONAL SEAL 039867 ENGINEER SIERRA HAYNES

P.E.
SIGNATURE:

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

9/24/2018
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wsp
1001 MOREHEAD SQUARE DRIVE
SUITE 610
CHARLOTTE, NC 28203
NC LIC. NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
R-5794D	1A
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039867 ENGINEER SIERRA HAYNES

DocuSigned by: Sierra Haynes
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INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS
2C–1 – 2C–2	RAMP DETAILS
4	PLAN SHEET

8/17/99
9/19/2018
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8/17/99

wsp
1001 MOREHEAD SQUARE DRIVE
SUITE 610
CHARLOTTE, NC 28203
NC LIC. NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
R-5794D	2C-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039867 ENGINEER SIERRA HAYNES

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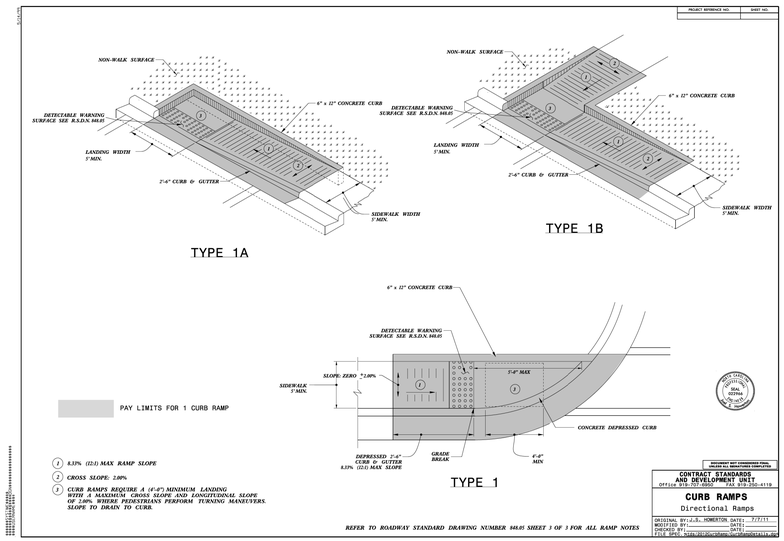

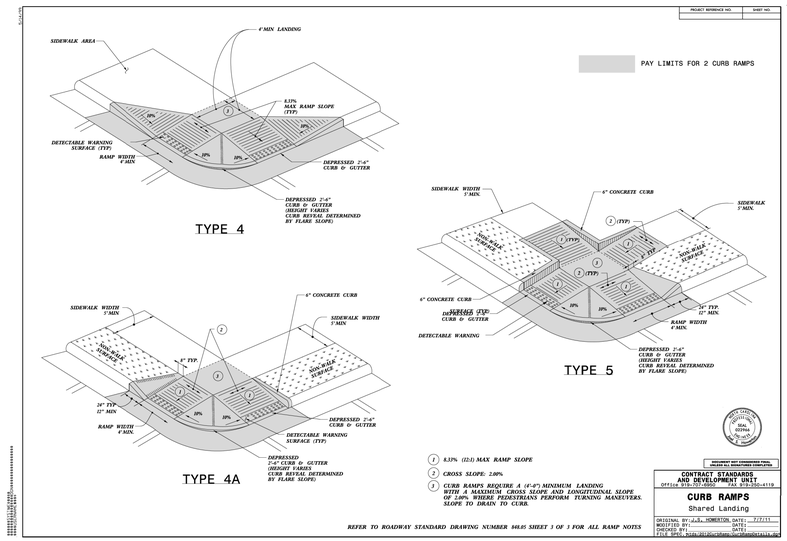

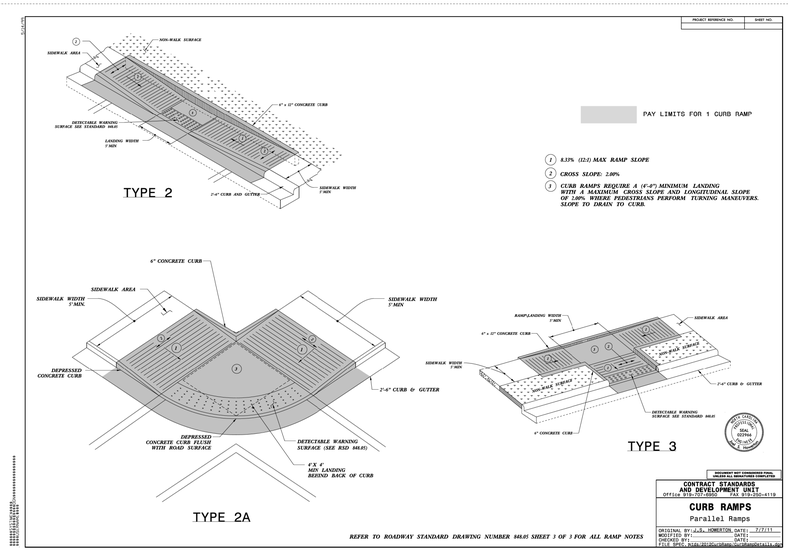

NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGHT THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'X5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A ½" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

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

ROADWAY STANDARD DRAWING FOR

CURB RAMPS

NOTES

SHEET 3 OF 3

848.05

8/19/2018
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formscm

wsp
1001 MOREHEAD SQUARE DRIVE
SUITE 610
CHARLOTTE, NC 28203
NC LIC. NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
R-5794D	2C-2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039867 ENGINEER J. SIERRA HAYNES

DocuSigned by: J. Sierra Haynes
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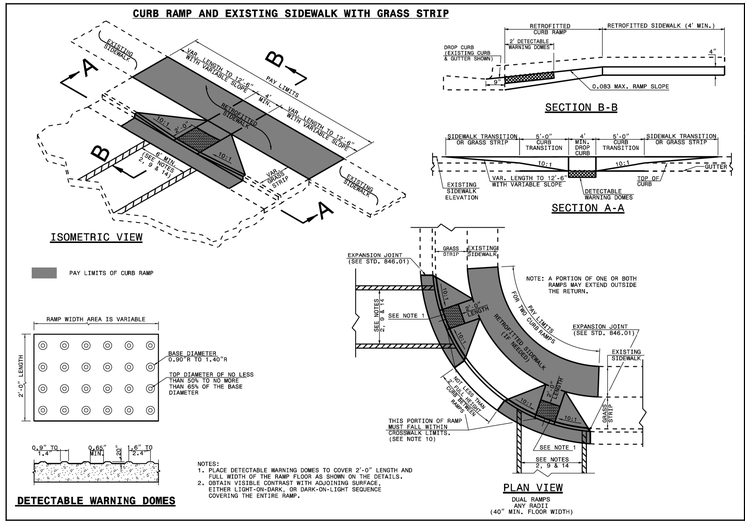
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP



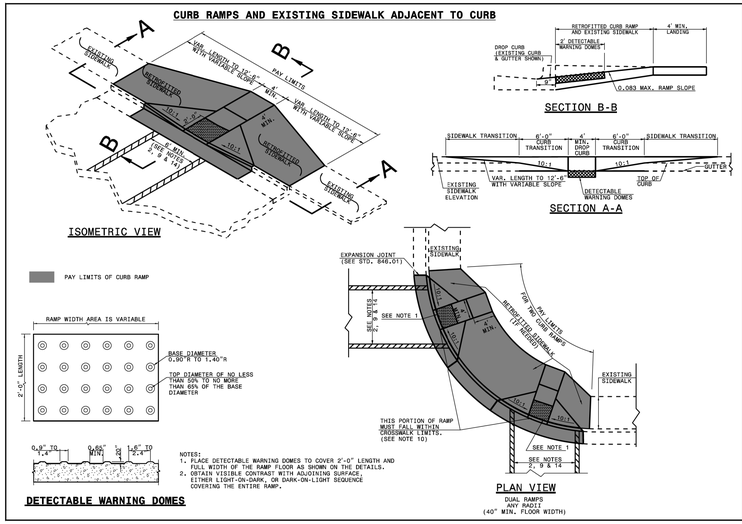
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

SHEET 1 OF 5
848.06

CURB RAMPS AND EXISTING SIDEWALK ADJACENT TO CURB



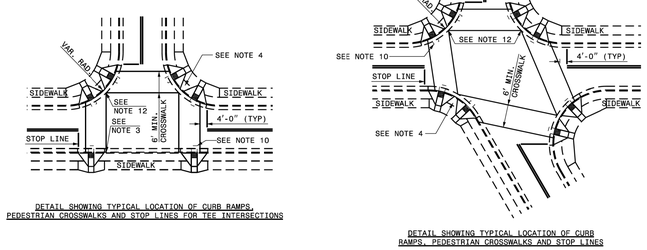
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

SHEET 2 OF 5
848.06

CURB RAMPS AND EXISTING SIDEWALK



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

1-18

ROADWAY STANDARD DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

SHEET 4 OF 5
848.06

CURB RAMP AND EXISTING SIDEWALK

NOTES:

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

1-18

ROADWAY STANDARD DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

SHEET 5 OF 5
848.06

8/17/99

8/17/2018
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tomscm

SITE PLAN SHEETS

PROJECT REFERENCE NO.	SHEET NO.
R-5794D	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039867 ENGINEER J. SIERRA HAYNES

Docusigned by: J. Sierra Haynes 9/19/2018 2:04:16 PM PDT

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALE
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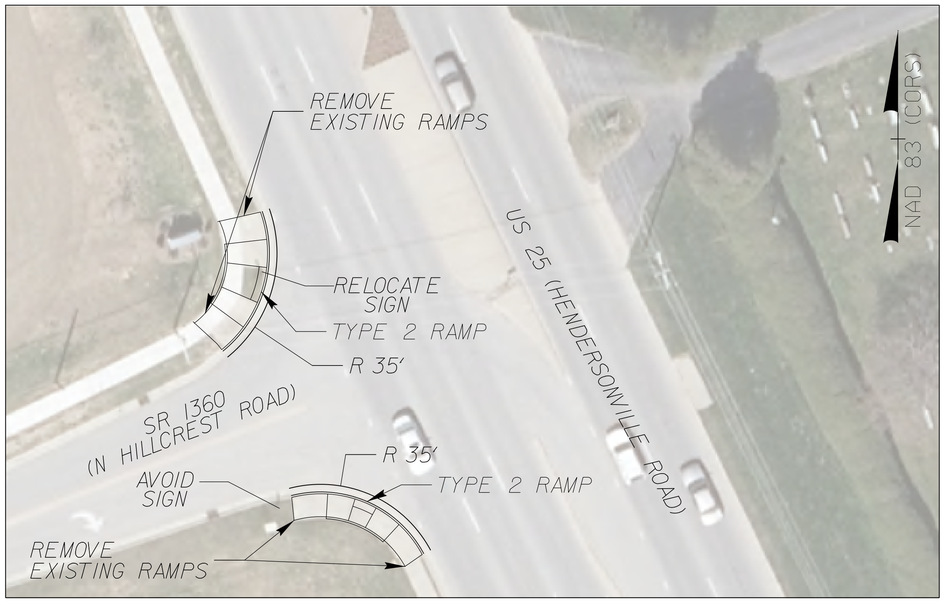
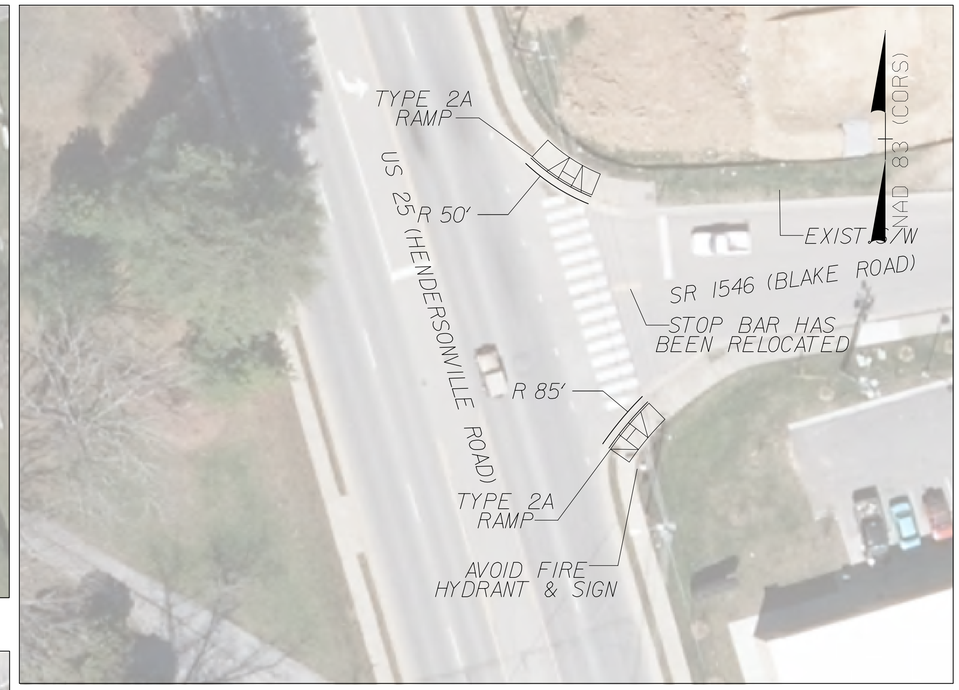
PLANS

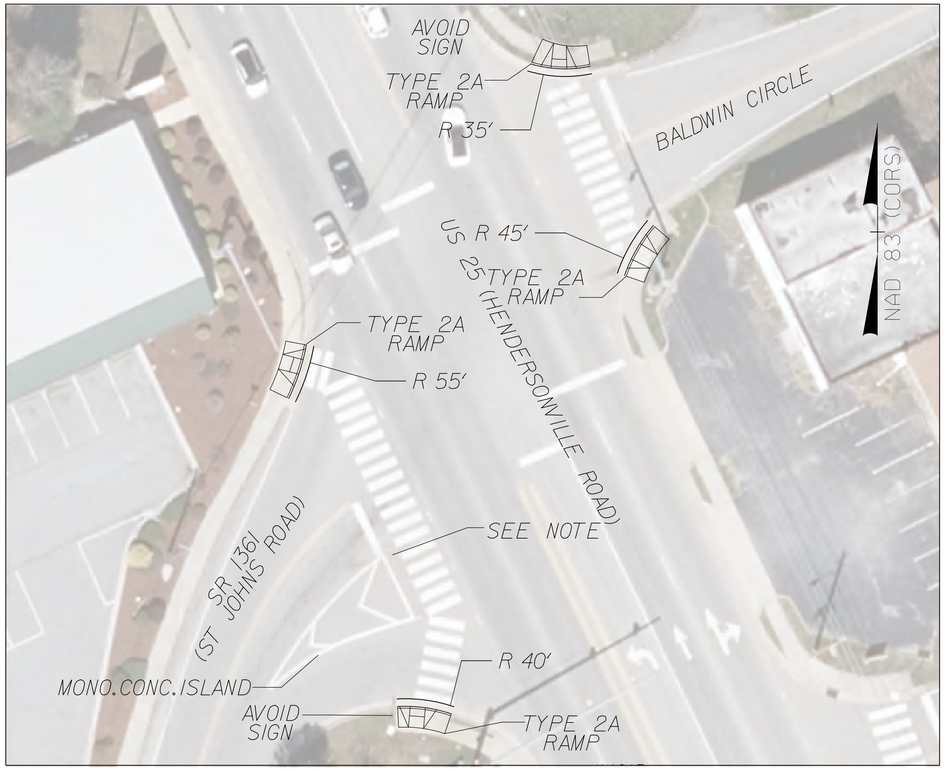
SITE 1 - US 25 (HENDERSONVILLE ROAD) AND SR 1360 (NORTH HILLCREST ROAD)



SITE 4 - US 25 (HENDERSONVLLE ROAD) AND SR 1546 (BLAKE ROAD)



SITE 2 - US 25 (HENDERSONVILLE ROAD) AND (ST. JOHN ROAD)
SITE 3 - US 25 (HENDERSONVILLE ROAD) AND SR 1361 (BALDWIN COURT)



NOTE: ERADICATE PAVEMENT MARKINGS AND INSTALL NEW CROSSWALK AND STOP BAR. SEE NCDOT STANDARD 1205.07

SEE SHEETS 2C-1 & 2C-2 FOR CURB RAMP DETAILS

5/14/99

\118836-03 NCDOT 9/18/2018 114 ADA Curb Ramps\DGN\R5794D_RDY_PSH04.dgn

SITE PLAN SHEETS

PROJECT REFERENCE NO.	SHEET NO.
R-5794D	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039867 ENGINEER J. SIERRA HAYNES

DocuSign Envelope ID: J. Sierra Haynes

10/3/2018 12:48:42 PM PDT

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GRAPHIC SCALE

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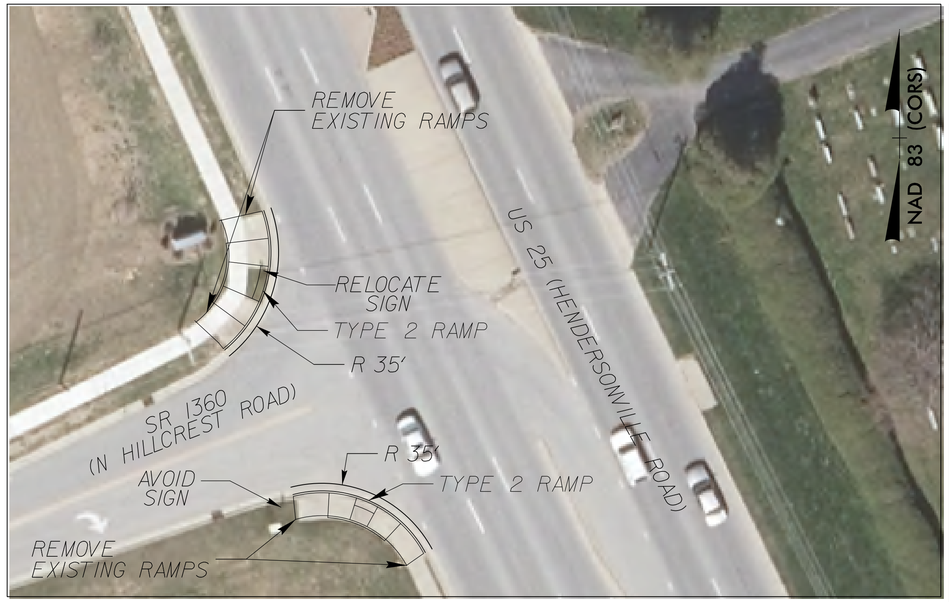
PLANS

SITE 1 - US 25 (HENDERSONVILLE ROAD) AND SR 1360 (NORTH HILLCREST ROAD)



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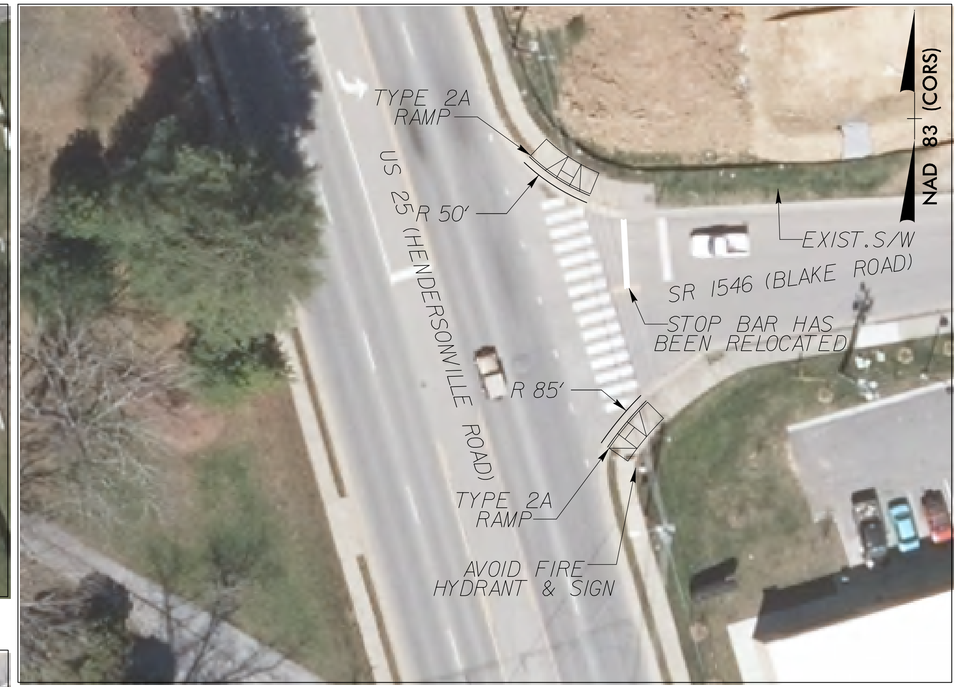

SITE 2 - US 25 (HENDERSONVILLE ROAD) AND (ST. JOHN ROAD)
SITE 3 - US 25 (HENDERSONVILLE ROAD) AND SR 1361 (BALDWIN COURT)

NOTE: ERADICATE PAVEMENT MARKINGS AND INSTALL NEW CROSSWALK AND STOP BAR. SEE NCDOT STANDARD 1205.07

SEE SHEETS 2C-1 & 2C-2 FOR CURB RAMP DETAILS

5/14/99

10/3/2018
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Haynes1