STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5600	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
45818.1.FR1	STP-0107(13)	PE
45818.2.1		ROW/UTIL.
45818.3.FR1		CONSTRUCTION

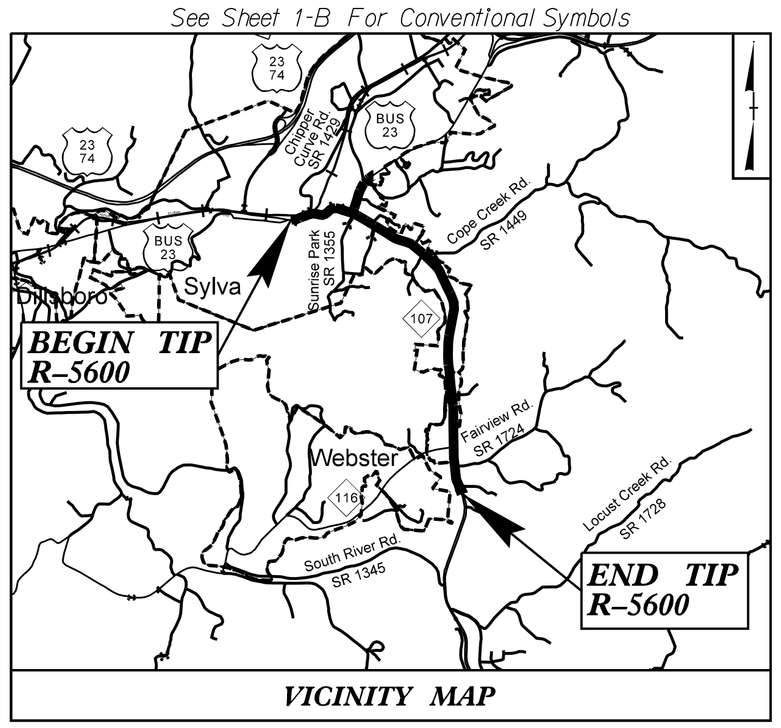
TIP PROJECT: R-5600

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JACKSON COUNTY

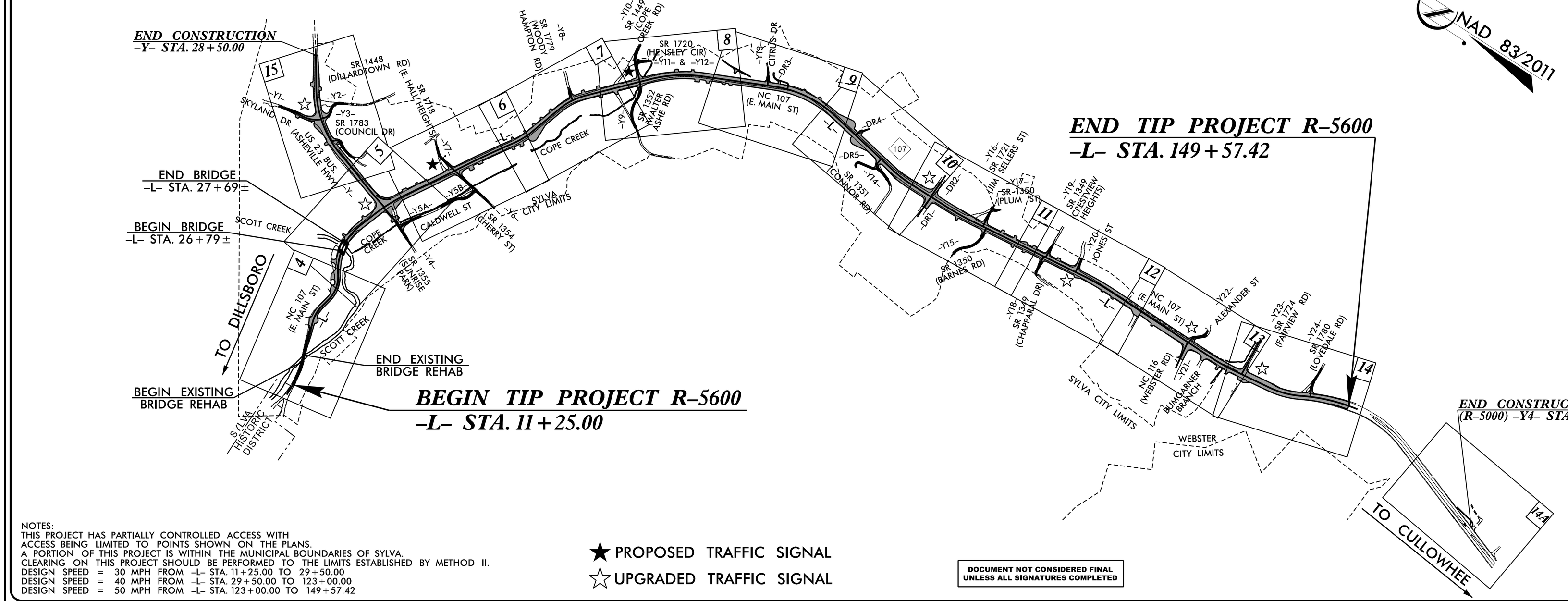
LOCATION: SYLVA – N.C. 107 FROM WEST OF U.S. 23 BUSINESS (ASHEVILLE HIGHWAY) TO SOUTH OF N.C. 116 (WEBSTER ROAD) AND U.S. 23 BUS. FROM SKYLAND DRIVE TO WEST OF MUNICIPAL DRIVE

TYPE OF WORK: GRADING, PAVING, DRAINAGE, RETAINING WALLS, STRUCTURES AND SIGNALS



VICINITY MAP

ROW PLANS



★ PROPOSED TRAFFIC SIGNAL
☆ UPGRADED TRAFFIC SIGNAL

NOTES:
THIS PROJECT HAS PARTIALLY CONTROLLED ACCESS WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF SYLVA.
CLEARING ON THIS PROJECT SHOULD BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
DESIGN SPEED = 30 MPH FROM -L- STA. 11+25.00 TO 29+50.00
DESIGN SPEED = 40 MPH FROM -L- STA. 29+50.00 TO 123+00.00
DESIGN SPEED = 50 MPH FROM -L- STA. 123+00.00 TO 149+57.42

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2020 = 34,300
ADT 2040 = 40,800
K = 9 %
D = 55 %
T = 5 % *
V = 30 MPH TO 50 MPH
* TTST = 4% DUAL = 3%
FUNC CLASS = ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5600 =	2.603 MILES
LENGTH STRUCTURES TIP PROJECT R-5600 =	0.017 MILES
TOTAL LENGTH TIP PROJECT R-5600 =	2.620 MILES

Prepared in the Office of:
HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 16, 2021

LETTING DATE:
JULY 15, 2025

PHILLIP E. ROGERS, PE
PROJECT ENGINEER

ALEXANDER D. SNIDER, PE
PROJECT DESIGN ENGINEER

JEANETTE WHITE, PE
NCDOT CONTACT

HYDRAULICS ENGINEER
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
SIGNATURE: P.E.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

CONTRACT:

REVISIONS

10/14/2022	ROW AND EASEMENT CHANGES ON PSHs RDY/RW 5, 6, & 11-13
11/5/2022	EASEMENT CHANGES ON PSHs RDY/RW 9, 11, 12, & 14
1/17/2023	ROW & EASEMENT CHANGES ON PSHs RDY/RW 4, 5, 7-9, 11-13; PARCEL OWNER CHANGES ON PSHs RDY/ROW 6-8
2/3/2023:	PSH 12 & ROW 12: PARCEL 137 TCE REVISED
2/13/2023:	PSH 11 & ROW 11: PARCEL 158Y ELIMINATED; COMBINED INTO 158Z
3/23/2023:	EASEMENT CHANGES ON PSHs RDY/RW 4, 8, 9, & 12
4/18/2023:	ROW CHANGES ON PSHs RDY/RW 4; EASEMENT CHANGES ON PSHs RDY/RW 4, 6, & 8
8/9/2023:	PSH 09 & ROW 09: PARCEL 93 ROW, PUE, & TCE REVISED; PARCEL 95Z CREATED FOR PUE
8/23/2023:	PSH 14 & ROW 14: PARCEL 94 PUE, DUE, & TCE REVISED; PARCEL 95Z CREATED FOR PUE
8/30/2023:	PSH 14 & ROW 14: PARCEL 148 ROW AND CA REVISED
11/15/2023:	PSH 4 & ROW 4: PARCELS 5 & 6 ROW REVISED, PARCEL 5 PUE REVISED; PSH 09 & ROW 09: PARCEL 93 ROW, PUE, & TCE REVISED; PARCEL 94 DUE & PDE REMOVED, PUE & TCE REVISED; PARCEL 95Z CREATED FOR ADDED ROW AND PUE & TCE REVISED

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt PENTABLE: R5600_pshpfl.tbl
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09/08/99

PROJECT REFERENCE NO.	SHEET NO.
R-5600	1-B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Computed Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil — S
- Potential Contamination Area: Soil — S
- Known Contamination Area: Water — W
- Potential Contamination Area: Water — W
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

- Secondary Horiz and Vert Control Point
- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Exist Permanent Easment Pin and Cap
- New Permanent Easement Pin and Cap
- Vertical Benchmark
- Existing Right of Way Marker
- Existing Right of Way Line
- New Right of Way Line — RW
- New Right of Way Line with Pin and Cap — RW
- New Right of Way Line with Concrete or Granite R/W Marker — RW
- New Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- New Control of Access — CA
- Existing Easement Line — E
- New Temporary Construction Easement — E
- New Temporary Drainage Easement — TDE
- New Permanent Easement — PE
- New Permanent Drainage Easement — PDE
- New Permanent Drainage / Utility Easement — DUE
- New Permanent Utility Easement — PUE
- New Temporary Utility Easement — TUE
- New Aerial Utility Easement — AUE

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line LOS B (S.U.E*) — W
- U/G Water Line LOS C (S.U.E*) — W
- U/G Water Line LOS D (S.U.E*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Cable LOS B (S.U.E.*) — TV
- U/G TV Cable LOS C (S.U.E.*) — TV
- U/G TV Cable LOS D (S.U.E.*) — TV
- U/G Fiber Optic Cable LOS B (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS C (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line LOS B (S.U.E.*) — G
- U/G Gas Line LOS C (S.U.E.*) — G
- U/G Gas Line LOS D (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole LOS A (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT REFERENCE NO.	SHEET NO.
R-5600	5
R/W SHEET NO.	RW-5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

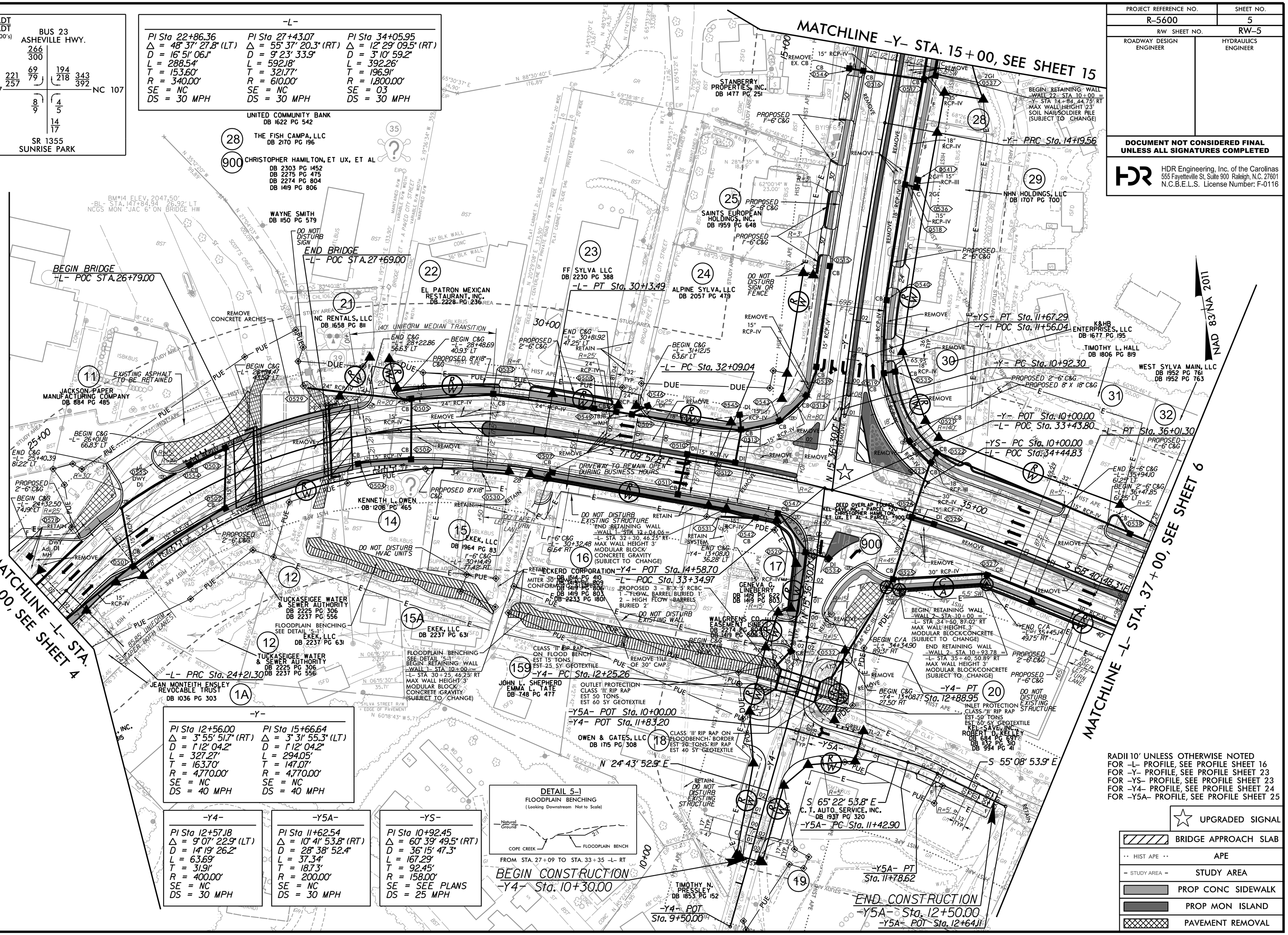
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

2020 ADT	
2035 ADT	
(ADT IN 100's)	

BUS 23
ASHEVILLE HWY.
266/300
69/79
194/218
343/392
221/257
NC 107
NC 107
8/9
4/5
14/17
SR 1355
SUNRISE PARK

-L-		
PI Sta 22+86.36	PI Sta 27+43.07	PI Sta 34+05.95
Δ = 48° 37' 27.8" (LT)	Δ = 55° 37' 20.3" (RT)	Δ = 12° 29' 09.5" (RT)
D = 16° 51' 06.1"	D = 9° 23' 33.9"	D = 3° 10' 59.2"
L = 288.54'	L = 592.18'	L = 392.26'
T = 153.60'	T = 321.77'	T = 196.91'
R = 340.00'	R = 610.00'	R = 1,800.00'
SE = NC	SE = NC	SE = 03
DS = 30 MPH	DS = 30 MPH	DS = 30 MPH



-Y-	
PI Sta 12+56.00	PI Sta 15+66.64
Δ = 3° 55' 51.7" (RT)	Δ = 3° 31' 55.3" (LT)
D = 1° 12' 04.2"	D = 1° 12' 04.2"
L = 327.27'	L = 294.05'
T = 163.70'	T = 147.07'
R = 4,770.00'	R = 4,770.00'
SE = NC	SE = NC
DS = 40 MPH	DS = 40 MPH

-Y4-	-Y5A-	-YS-
PI Sta 12+57.18	PI Sta 11+62.54	PI Sta 10+92.45
Δ = 9° 07' 22.9" (LT)	Δ = 10° 41' 53.8" (RT)	Δ = 60° 39' 49.5" (RT)
D = 14° 19' 26.2"	D = 28° 38' 52.4"	D = 36° 15' 47.3"
L = 63.69'	L = 37.34'	L = 167.29'
T = 31.91'	T = 18.73'	T = 92.45'
R = 400.00'	R = 200.00'	R = 158.00'
SE = NC	SE = NC	SE = SEE PLANS
DS = 30 MPH	DS = 30 MPH	DS = 25 MPH

RADII 10' UNLESS OTHERWISE NOTED
FOR -L- PROFILE, SEE PROFILE SHEET 16
FOR -Y- PROFILE, SEE PROFILE SHEET 23
FOR -YS- PROFILE, SEE PROFILE SHEET 23
FOR -Y4- PROFILE, SEE PROFILE SHEET 24
FOR -Y5A- PROFILE, SEE PROFILE SHEET 25

UPGRADED SIGNAL
BRIDGE APPROACH SLAB
HIST APE — APE
STUDY AREA — STUDY AREA
PROP CONC SIDEWALK
PROP MON ISLAND
PAVEMENT REMOVAL

REVISIONS

10/25/2021	ROW AND PUE REVISED; PARCELS 15 & 16; TCE REVISED; PARCELS 15, 15A, 16, & 159
2/18/2022	PARCEL OWNERS 12 & 13 COMBINED INTO PARCEL 12; PARCEL OWNERS 20, 33 & 34 COMBINED INTO PARCEL 20
7/29/2022	PARCEL 37B ADDED; PARCELS 15, 15A, 16, 17, 18, 19, 20, 37A, 37B, & 159 BOUNDARIES REVISED
10/14/2022	PARCELS 37A & 37B REMOVED; UNKNOWN OWNERS
1/17/2023	PARCEL 24 PUE REMOVED; DUE ADDED

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PROJECT REFERENCE NO.	SHEET NO.
R-5600	6
R/W SHEET NO.	RW-6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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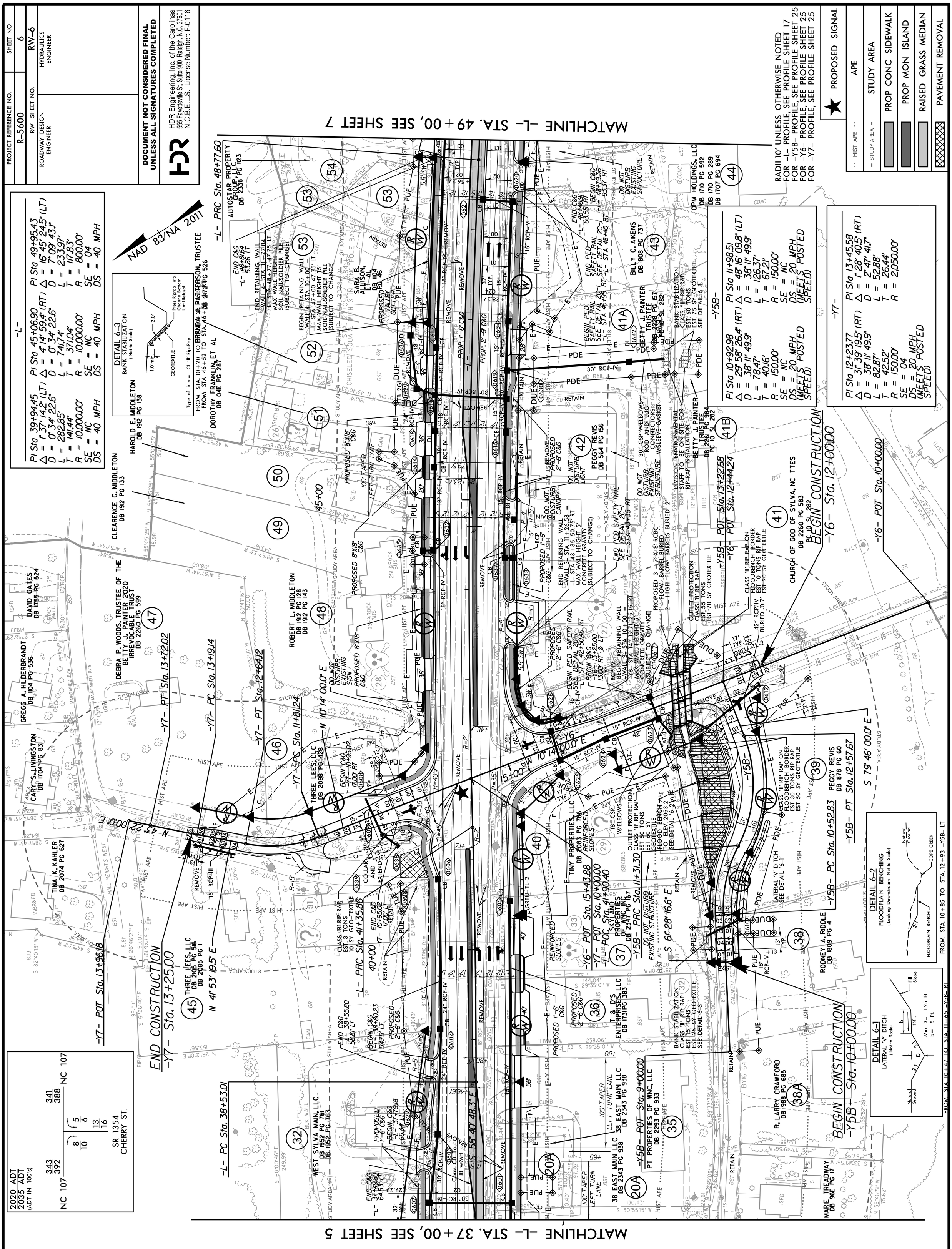

REVISIONS

1/27/2022: PARCEL 35 OWNER CHANGE
2/18/2022 PARCEL OWNERS 20, 33 & 34 COMBINED INTO PARCEL 20
7/29/2022 PARCELS 20 & 37A BOUNDARIES REVISED, PARCEL 49, DUE ADDED AND PUE REVISED; PARCELS 53 & 54 ROW REVISED
8/23/2022 PARCEL 54 OWNER NAME CHANGE; PARCELS 52 & 53 DUE ADDED & PUE REVISED; PARCEL 41A REVISED DUE & TCE;
10/14/2022 PARCEL 41B ADDED; PARCELS 41 & 41B PDE ADDED
PARCEL 37A REMOVED, UNKNOWN OWNER; PARCEL 42 PUE REMOVED
1/17/2023 PARCEL 20 OWNER NAME CHANGE TO PARCEL 20A
4/18/2023 DUE REVISED ALONG -Y5B- LT (UNKNOWN OWNER)

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PROJECT REFERENCE NO.	SHEET NO.
R-5600	7
R/W SHEET NO.	RW-7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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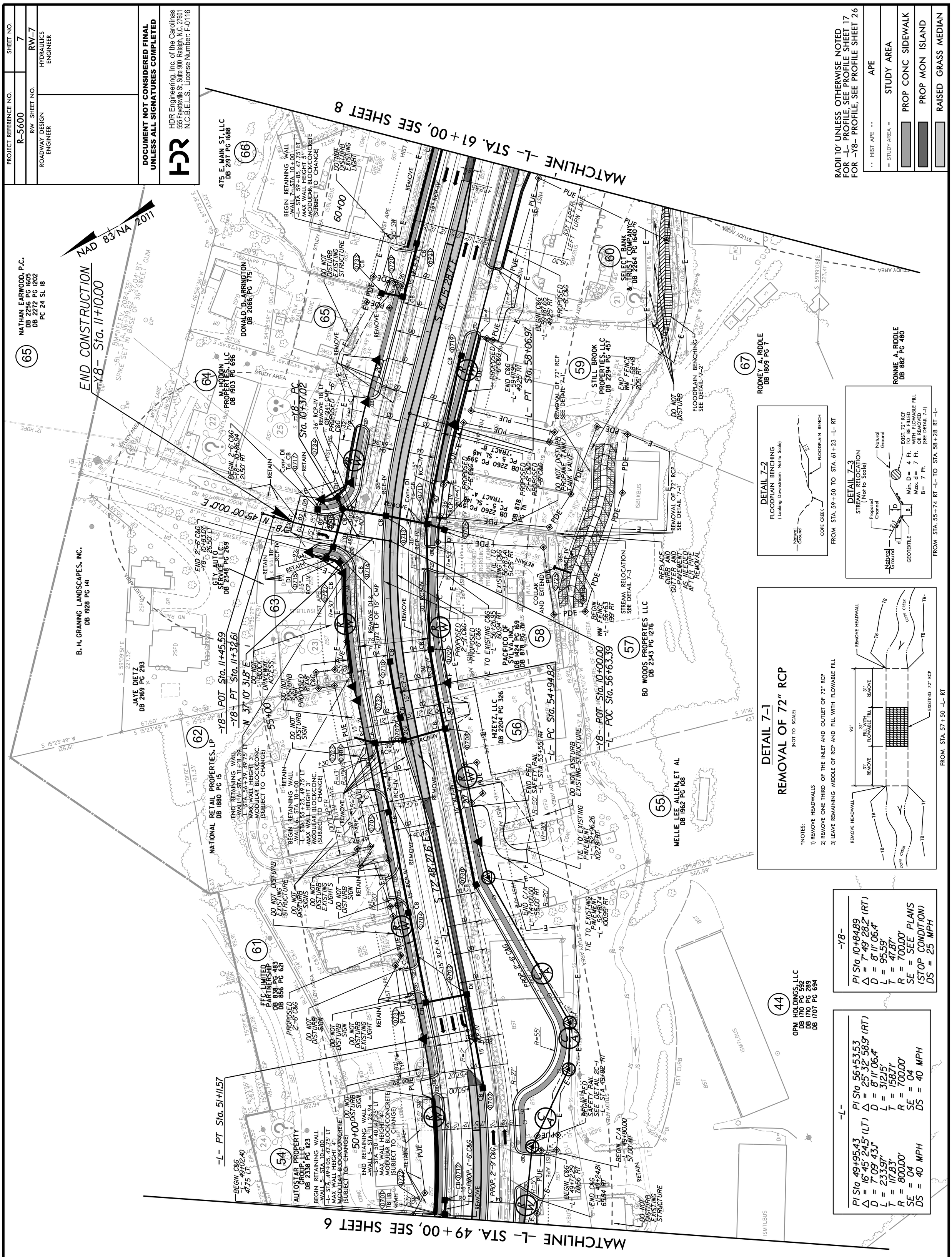
N.C.B.E.L.S. License Number: F-0116

RADII 10' UNLESS OTHERWISE NOTED
FOR -L- PROFILE, SEE PROFILE SHEET 17
FOR -Y8- PROFILE, SEE PROFILE SHEET 26

- HIST APE
- STUDY AREA
- APE
- STUDY AREA
- PROP CONC SIDEWALK
- PROP MON ISLAND
- RAISED GRASS MEDIAN



REVISIONS
9/7/2021: TCE REVISED, PARCEL 58
1/27/2022: PARCELS 59 & 63 OWNER CHANGES
7/29/2022: PARCELS 65 & 66 PDE ADDED AND TCE REVISED
1/17/2023: PARCELS 57 & 63 OWNER CHANGES, PARCEL 63 TCE REVISED

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt PENTABLE: R5600_pshpfl.tbl
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PROJECT REFERENCE NO.	SHEET NO.
R-5600	8
R/W SHEET NO.	RW-8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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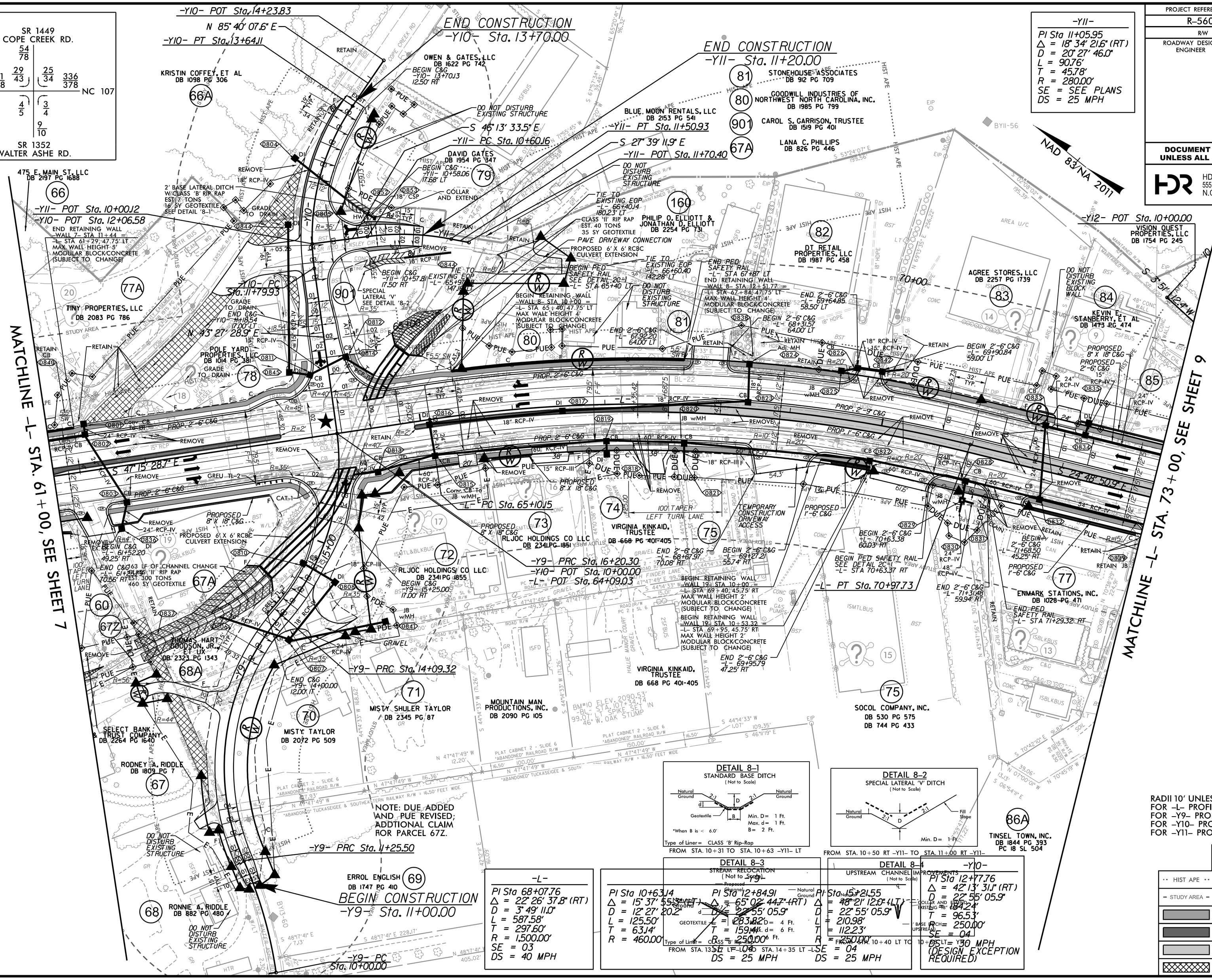
N.C.B.E.L.S. License Number: F-0116

2020 ADT	2035 ADT	(ADT IN 100's)
54	78	SR 1449 COPE CREEK RD.
29	43	
25	34	
341	388	NC 107
336	378	NC 107
4	5	
3	4	
9	10	SR 1352 WALTER ASHE RD.

-Y11-
PI Sta 11+05.95
Δ = 18° 34' 21.6" (RT)
D = 20° 27' 46.0"
L = 90.76'
T = 45.78'
R = 280.00'
SE = SEE PLANS
DS = 25 MPH

NAD 83/NA 2011



RADII 10' UNLESS OTHERWISE NOTED
FOR -L- PROFILE, SEE PROFILE SHEET 18
FOR -Y9- PROFILE, SEE PROFILE SHEET 26
FOR -Y10- PROFILE, SEE PROFILE SHEET 26
FOR -Y11- PROFILE, SEE PROFILE SHEET 26

★	PROPOSED SIGNAL
HIST APE	APE
STUDY AREA	STUDY AREA
	PROP CONC SIDEWALK
	PROP MON ISLAND
	RAISED GRASS MEDIAN
	PAVEMENT REMOVAL

REVISIONS

7/29/2022:	PARCELS 68A & 72 ROW REVISED; PARCEL 70 & 72 TCE REVISED; PARCEL 72 PUE REVISED AND PDE ADDED; PARCEL 71 IMPACTS REMOVED
8/23/2022:	PARCEL 68A OWNER NAME CHANGE; PARCEL 71 ADDED; PARCEL 71 TCE ADDED; PARCELS 70 & 79 TCE REVISED
1/17/2023:	PARCELS 72-75, 84, & 85 PUE REVISED; PARCELS 72-73 TCE REVISED; PARCELS 74-75 DUE REVISED; PARCELS 71-73 OWNER NAME CHANGE
3/23/2023:	PARCEL 74 DUE REVISED & TCE ADDED
4/18/2023:	PARCEL 60 DUE ADDED & PUE REVISED; PARCEL 67Z ADDED FOR DUE ADDED & PUE REVISED

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PROJECT REFERENCE NO.	SHEET NO.
R-5600	9
R/W SHEET NO.	RW-9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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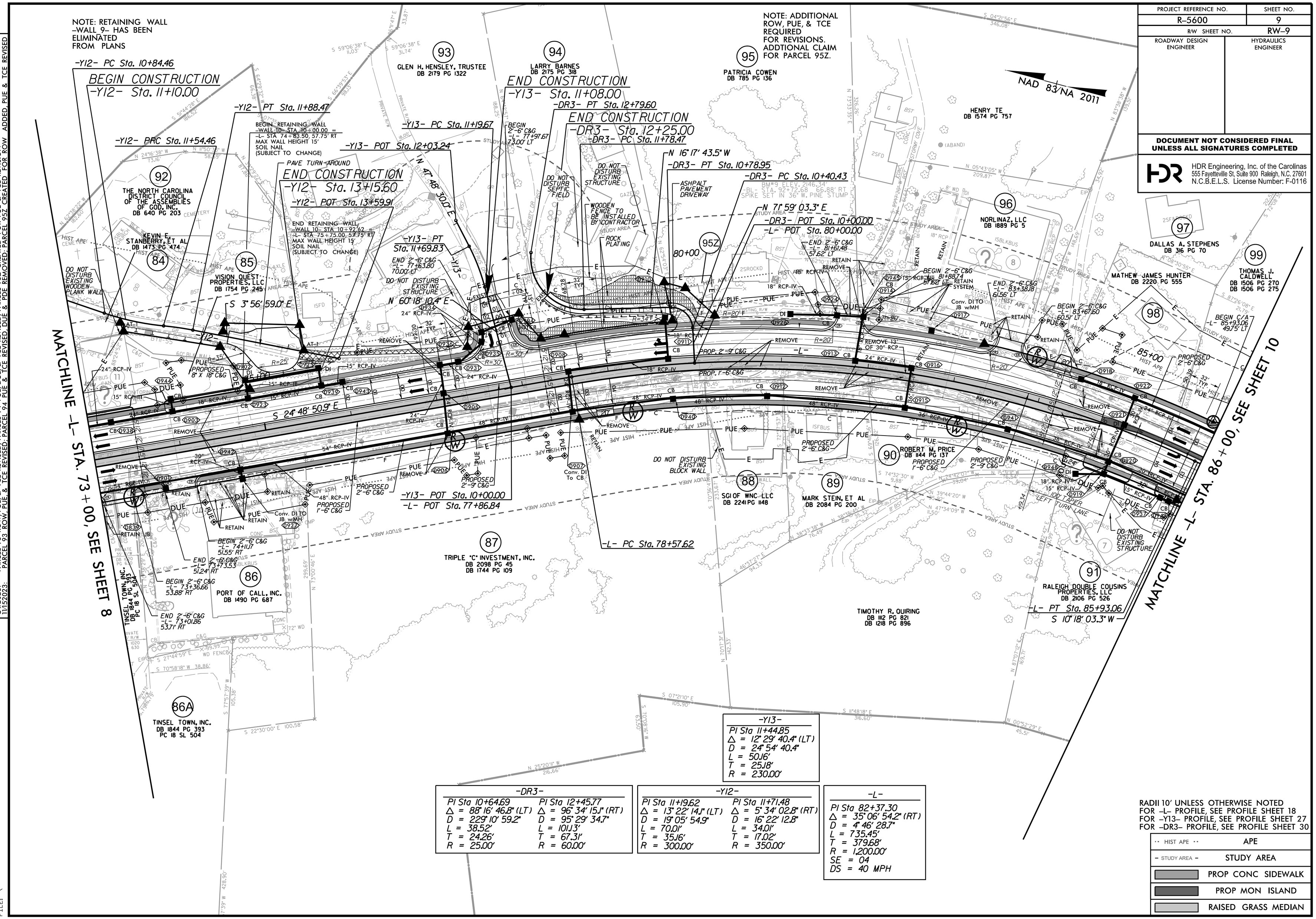
N.C.B.E.L.S. License Number: F-0116

REVISIONS	
9/7/2021:	TCE REVISED; PARCEL 85
11/15/2022:	PUE REVISED; PARCEL 93
1/17/2022:	PARCEL 85 PDE, DUE, & TCE ADDED, PUE & ROW REVISED; PARCEL 86 PUE & DUE REVISED, TCE REMOVED; PARCEL 87 PUE & TCE REVISED; PARCELS 90 & 91 DUE AND PUE REVISED
3/23/2023:	PARCEL 93 ROW, PUE, & TCE REVISED; PARCEL 94 PUE, DUE, & TCE REVISED; PARCEL 95Z CREATED FOR PUE & TCE REVISION
8/9/2023:	PARCEL 93 ROW, PUE & TCE REVISED; PARCEL 94 PUE & TCE REVISED; DUE & PDE REMOVED; PARCEL 95Z CREATED FOR ROW ADDED, PUE & TCE REVISED
11/15/2023:	



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PROJECT REFERENCE NO.	SHEET NO.
R-5600	10
R/W SHEET NO.	RW-10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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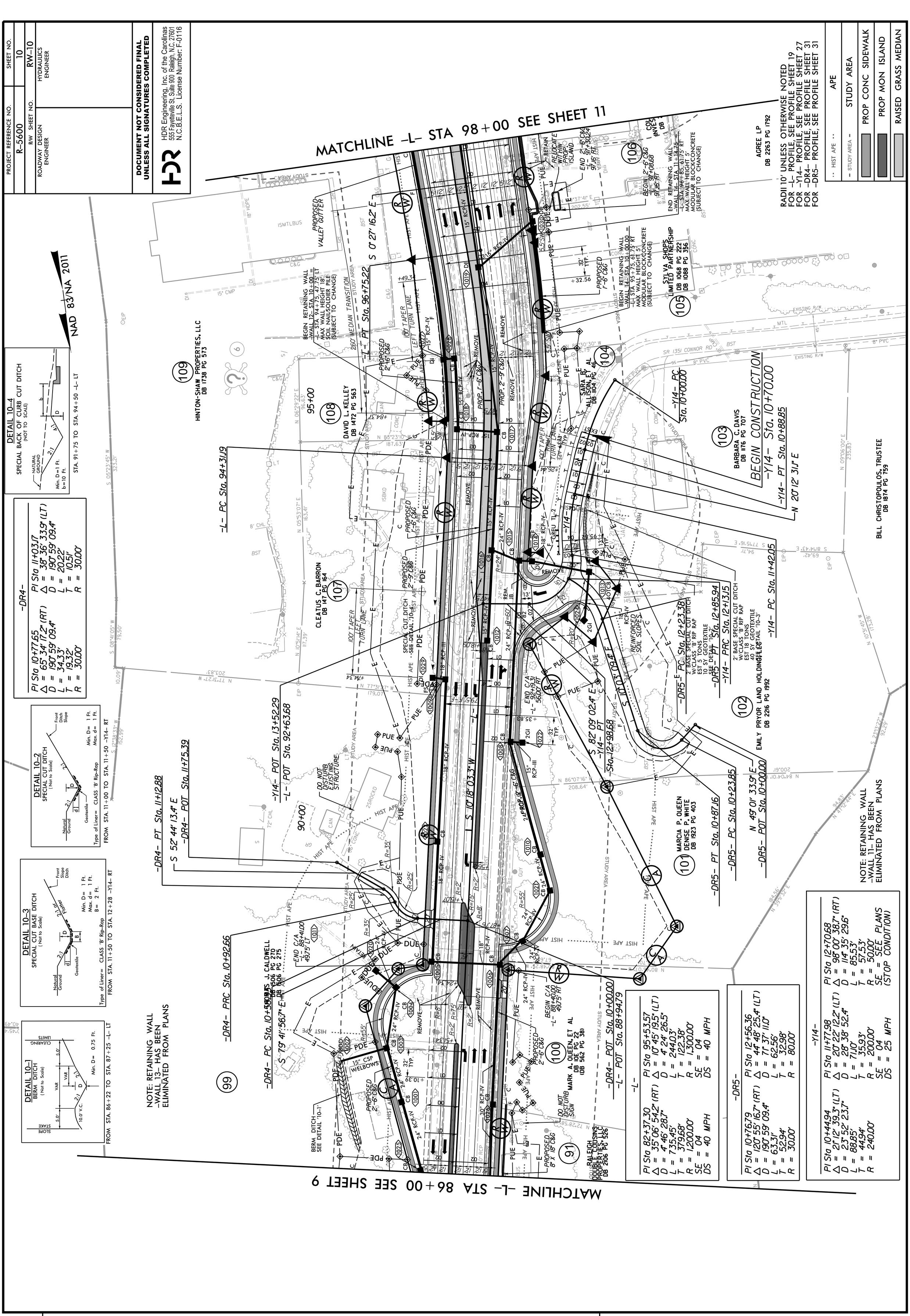
MATCHLINE -L- STA 98+00 SEE SHEET 11
MATCHLINE -L- STA 86+00 SEE SHEET 9
NAD 83/NA 2011
APE
HIST APE
STUDY AREA
PROPOSED RAISED GRASS MEDIAN
PROP MON ISLAND
PROP CONC SIDEWALK
-L- PT Sta. 96+75.22
-L- PC Sta. 94+31.19
-L- PT Sta. 13+52.29
-L- POT Sta. 92+63.68
-L- PC Sta. 11+42.05
-L- PT Sta. 11+75.39
-L- POT Sta. 10+00.00
-Y14- PC Sta. 10+00.00
-Y14- BEGIN CONSTRUCTION Sta. 10+70.00
-Y14- PT Sta. 10+88.85
-Y14- PC Sta. 12+13.15
-Y14- PT Sta. 12+98.68
-DR4- PT Sta. 11+12.88
-DR4- POT Sta. 11+75.39
-DR4- PC Sta. 10+92.66
-DR4- PRC Sta. 10+56.75
-DR5- PC Sta. 12+23.38
-DR5- PRC Sta. 12+85.94
-DR5- PT Sta. 10+23.85
-DR5- POT Sta. 10+00.00
RADII 10' UNLESS OTHERWISE NOTED
FOR -L- PROFILE, SEE PROFILE SHEET 19
FOR -Y14- PROFILE, SEE PROFILE SHEET 27
FOR -DR4- PROFILE, SEE PROFILE SHEET 31
FOR -DR5- PROFILE, SEE PROFILE SHEET 31
NOTE: RETAINING WALL -WALL 11- HAS BEEN ELIMINATED FROM PLANS
NOTE: RETAINING WALL -WALL 13- HAS BEEN ELIMINATED FROM PLANS
DETAIL 10-4 SPECIAL BACK OF CURB CUT DITCH (NOT TO SCALE)
STA. 91+75 TO STA. 94+50 -L- LT
DETAIL 10-2 SPECIAL CUT DITCH (Not to Scale)
FROM STA. 11+00 TO STA. 11+50 -Y14- RT
DETAIL 10-3 SPECIAL CUT BASE DITCH (Not to Scale)
FROM STA. 11+50 TO STA. 12+28 -Y14- RT
DETAIL 10-1 BERM DITCH (Not to Scale)
FROM STA. 86+22 TO STA. 87+25 -L- LT
-DR4-
PI Sta 10+77.65 Δ = 65° 34' 17.2" (RT) D = 190° 59' 09.4" L = 34.33' T = 19.32' R = 30.00'
PI Sta 11+03.17 Δ = 38° 36' 33.9" (LT) D = 190° 59' 09.4" L = 20.22' T = 10.51' R = 30.00'
-L-
PI Sta 82+37.30 Δ = 35° 06' 54.2" (RT) D = 4° 46' 28.7" L = 735.45' T = 379.68' R = 1,200.00' SE = 04 DS = 40 MPH
PI Sta 95+53.57 Δ = 10° 45' 19.5" (LT) D = 4° 24' 26.5" L = 244.03' T = 122.38' R = 1,300.00' SE = 04 DS = 40 MPH
-DR5-
PI Sta 10+76.79 Δ = 120° 55' 16.7" (RT) D = 190° 59' 09.4" L = 63.31' T = 52.94' R = 30.00'
PI Sta 12+56.36 Δ = 44° 48' 25.4" (LT) D = 71° 37' 11.0" L = 62.56' T = 32.98' R = 80.00'
-Y14-
PI Sta 10+44.94 Δ = 21° 12' 39.3" (LT) D = 23° 52' 23.7" L = 88.85' T = 44.94' R = 240.00'
PI Sta 11+77.98 Δ = 20° 22' 12.2" (LT) D = 28° 38' 52.4" L = 71.10' T = 35.93' R = 200.00' SE = 04 DS = 25 MPH
PI Sta 12+70.68 Δ = 98° 00' 38.7" (RT) D = 114° 35' 29.6" L = 85.53' T = 57.53' R = 50.00' SE = SEE PLANS (STOP CONDITION)
HINTON-SHAW PROPERTIES, LLC DB 1738 PG 573
DAVID L. KELLEY DB 1472 PG 563
CLEATUS C. BARRON DB 147 PG 164
BARBARA C. DAVIS DB 1176 PG 707
SARA E. ALLISON, ET AL DB 1104 PG 46
BILL CHRISTOPOULOS, TRUSTEE DB 1874 PG 759
PRYOR LAND HOLDINGS, LLC DB 2216 PG 1992
EMILY PRYOR DB 2216 PG 1992
MARCIA P. QUEEN DENISE P. WHITE DB 1923 PG 403
MARK A. QUEEN, ET AL DB 1016 PG 22 (DB 562 PG 38)
RALEIGH DOUBLE COUSINS PROPERTIES, LLC DB 2106 PG 526
SYLVA SHOPS LIMITED PARTNERSHIP DB 1068 PG 222 DB 1088 PG 356
AGREE LP DB 2263 PG 1792
J. CALDWELL DB 1506 PG 270 DB 1506 PG 275
SR 1351 CONNOR RD
EXISTING R/W
PROPOSED VALLEY GUTTER
100' TAPER LEFT TURN LANE
SPECIAL CUT DITCH SEE DETAIL '10-4'
REINFORCED SOIL SLOPES
2' BASE SPECIAL CUT DITCH W/CLASS 'B' RIP RAP EST 18 TONS 40 SY GEOTEXTILE SEE DETAIL '10-2'
2' BASE SPECIAL CUT DITCH W/CLASS 'B' RIP RAP EST 5 TONS 10 SY GEOTEXTILE SEE DETAIL '10-2'
BERM DITCH SEE DETAIL '10-1'
DO NOT DISTURB EXISTING STRUCTURE
DO NOT DISTURB SIGN
15" CSP W/ELBOWS
RELOCATE WITHIN PROP. ISLAND
BEGIN RETAINING WALL -WALL 12- STA 10+00 = -L- STA 94+75, 47.75' LT MAX WALL HEIGHT 18' SOIL NAIL/SOLDIER PILE (SUBJECT TO CHANGE)
BEGIN RETAINING WALL -WALL 14- STA 10+00.00 = -L- STA 95+75, 61.75' RT MAX WALL HEIGHT 5' MODULAR BLOCK/CONCRETE (SUBJECT TO CHANGE)
END RETAINING WALL -WALL 14- STA 11+14.75 = -L- STA 96+85, 61.75' RT MAX WALL HEIGHT 5' MODULAR BLOCK/CONCRETE (SUBJECT TO CHANGE)
BEGIN 2'-6" C&G -L- 97+08.68 97.16' RT
END 2'-6" C&G -L- 97+30.24 97.16' RT
PROPOSED 1'-6" C&G
PROPOSED 2'-6" C&G
PROPOSED 2'-9" C&G
PROP. 1'-6" C&G
PROP. 2'-9" C&G
REMOVE
ISMTLBUS
ISBKD
2SROCKD
ISTOFF
ISCAN
ISWD
ISCONC
ISFP
ISGRAV
ISMAIL
ISGAS
ISPOLE
ISFH
ISGRATE
ISCB
ISINLET
ISPIPE
ISCLEAN
ISVALVE
ISMETER
ISGUY
ISFO
ISTRAN
ISBOX
ISSIGN
ISLIGHT
ISTRAFFIC
ISTEL
ISPOLE
ISCATV
ISWELL
ISMISC
ISTANK
ISPOND
ISSTREAM
ISWALL
ISFENCE
ISROCK
ISCAN
ISCONC
ISBST

PROJECT REFERENCE NO.	SHEET NO.
R-5600	11
R/W SHEET NO.	RW-11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

NOTE: EX. ROW ALONG SR 1350 RESURVEYED; REVISED TCE & ROW TIE. ADDTIONAL CLAIM FOR PARCEL 158Z.

MOUNTAIN PROJECTS, INC. DB 1927 PG 303

NAD 83/NA 2011

-Y17- PI Sta 10+36.94 Δ = 42° 23' 40.4" (LT) D = 143° 14' 22.0" L = 29.60' T = 15.51' R = 40.00' SE = SEE PLANS (STOP CONDITION)

-Y16- PI Sta 12+07.30 Δ = 13° 07' 23.8" (RT) D = 22° 55' 05.9" L = 57.26' T = 28.76' R = 250.00' SE = SEE PLANS (STOP CONDITION)

-L- PI Sta 102+91.61 Δ = 6° 18' 29.8" (LT) D = 1° 54' 35.5" L = 330.30' T = 165.32' R = 3,000.00' SE = 03 DS = 40 MPH

-Y15- PI Sta 10+99.40 Δ = 44° 13' 49.9" (RT) D = 35° 48' 35.5" L = 123.51' T = 65.02' R = 160.00' SE = 04 DS = 25 MPH

-Y15- PI Sta 13+18.30 Δ = 54° 50' 35.9" (LT) D = 23° 52' 23.7" L = 229.73' T = 124.52' R = 240.00' SE = 04 DS = 25 MPH

RADII 10' UNLESS OTHERWISE NOTED
FOR -L- PROFILE, SEE PROFILE SHEET 19
FOR -DR1- PROFILE, SEE PROFILE SHEET 30
FOR -DR2- PROFILE, SEE PROFILE SHEET 30
FOR -Y15- PROFILE, SEE PROFILE SHEET 27
FOR -Y16- PROFILE, SEE PROFILE SHEET 27
FOR -Y17- PROFILE, SEE PROFILE SHEET 28

UPGRADED SIGNAL

HIST APE - STUDY AREA

PROP CONC SIDEWALK
PROP MON ISLAND
RAISED GRASS MEDIAN
PAVEMENT REMOVAL

MATCHLINE -L- STA 111+00 SEE SHEET 12

MATCHLINE -L- STA 98+00 SEE SHEET 10

DETAIL 11-1 SPECIAL CUT DITCH (Not to Scale)
FROM STA. 10+73 -Y15- LT TO STA. 10+30 -Y15- LT
FROM STA. 10+50 -Y16- LT TO STA. 10+62 -Y16- LT
Min. D= 1.0 Ft.

DETAIL 11-2 SPECIAL LATERAL BASE DITCH (Not to Scale)
Min. D= 5 Ft. B= 4 Ft. b= 5 Ft. d= 4.5 Ft.
Type of Liner= Class 'B' Rip-Rap
EST GEOTEXTILE = 425 SY
EST TONS CLASS 'B' RIP RAP = 200 TONS
FROM STA. 10+50 -Y15- RT TO STA. 12+08 -Y15- RT
*NOTE 1: NO RIP RAP OR GEOTEXTILE IS TO BE PLACED ON STREAMBED. ANY ROCK PLACED ON STREAMBED MUST BE EMBEDDED WITHOUT APPLICATION OF GEOTEXTILE
*NOTE 2: 700 GRAM, COIR FIBER MATTING MUST BE USED TO STABILIZE BANKS EXPOSED ABOVE RIP RAP

DETAIL 11-3 SPECIAL CUT DITCH (Not to Scale)
Min. D= 1 Ft.

DETAIL 11-4 SPECIAL CUT BASE DITCH (Not to Scale)
Min. D= 1 Ft. Max. d= 1 Ft. B= 2 Ft.
Type of Liner= Class 'B' Rip-Rap
FROM STA. 10+00 -Y15- LT TO STA. 10+25 -Y15- LT

DETAIL 11-5 SPECIAL CUT DITCH (Not to Scale)
Min. D= 1 Ft. Max. d= 1 Ft.
Type of Liner= Class 'B' Rip-Rap
FROM STA. 10+13 -Y15- RT TO STA. 10+50 -Y15- RT

DETAIL 11-6 INLET CHANNEL IMPROVEMENTS (Not to Scale)
2020 ADT / 2035 ADT (ADT IN 100's)
ANDY SHAW FORD ENTRANCE
NC 107 — NC 107

DETAIL 11-7 CHANNEL CHANGE (Not to Scale)
Min. D= 3 Ft. d= 3 Ft. B= 4 Ft. b= 1.5 Ft.
Type of Liner= Class 'I' Rip Rap, Keyed-In
FROM STA. 109+72 TO STA. 109+82 -L- RT

REVISIONS
2/8/2022 ROW AND TCE REVISED ON PARCEL 109; PUE REMOVED FROM PARCELS 110 & 111
7/29/2022 PARCEL 122 ROW AND TCE REVISED; PARCEL 158Z CREATED FOR REVISED ROW AND TCE
10/4/2022 PARCELS 114 TCE REVISED; PARCELS 115 & 117 REVISED TCE, REMOVED PDE, ADDED DUE
11/15/2022 PARCELS 158Y, 161, AND 162 ADDED FOR TCE; PARCEL 122 PDE ADDED AND TCE REVISED; PARCELS 123 & 124 PDE AND TCE REVISED
1/17/2023 PARCELS 115 ROW REVISED; PARCEL 118 ROW REVISED, PE & TCE ADDED; PARCEL 119 ROW & PUE REVISED, PE ADDED
2/13/2023 PARCEL 158Y ELIMINATED; COMBINED INTO PARCEL 158Z

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PROJECT REFERENCE NO.	SHEET NO.
R-5600	12
R/W SHEET NO.	RW-12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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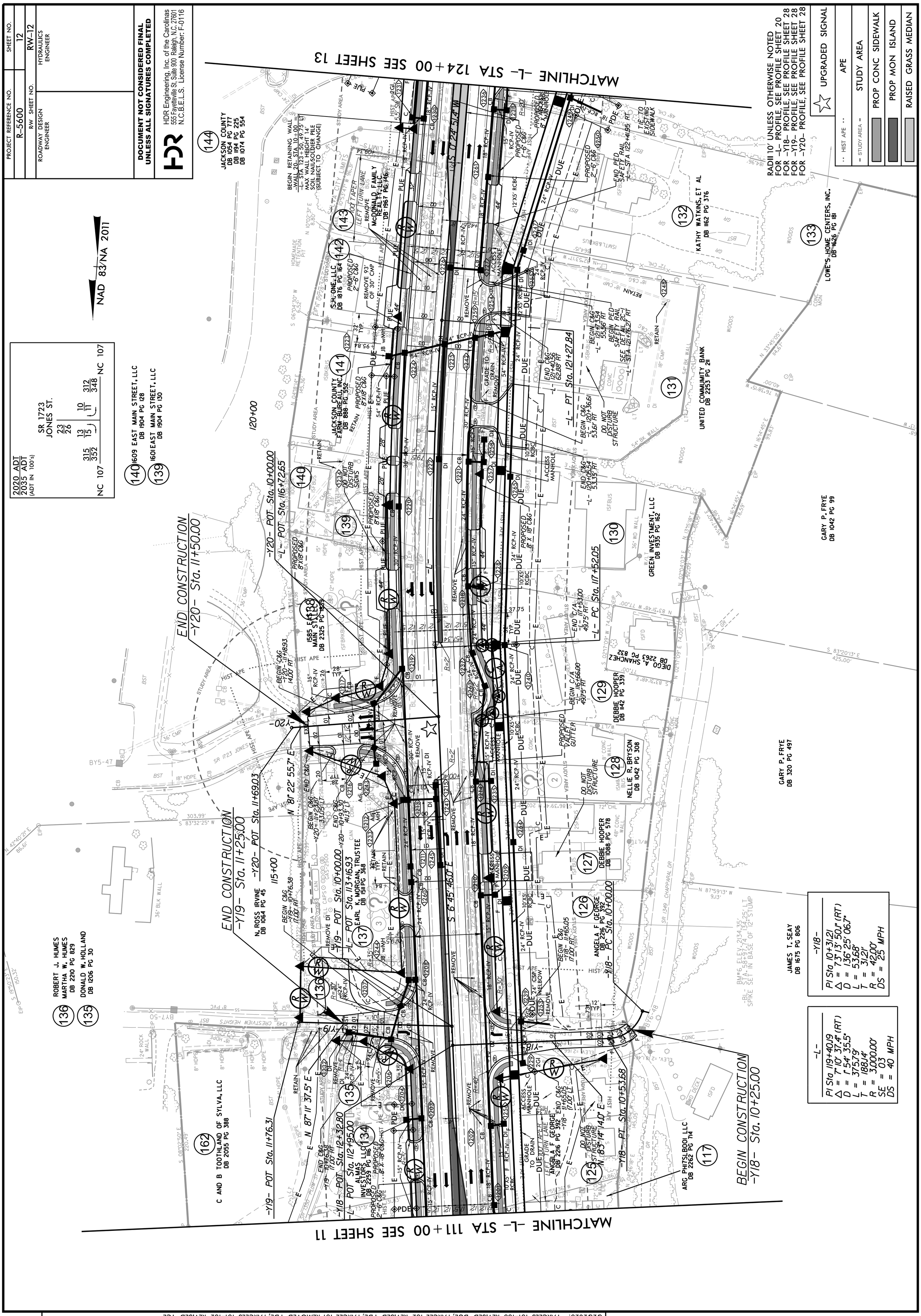

REVISIONS

7/29/2022: PARCEL 135, ROW AND TCE REVISED; PARCEL 138 OWNER NAME CHANGE
10/14/2022: PARCEL 117 REVISED TCE, ADDED DUE; PARCEL 125 REVISED ROW & TCE, ADDED DUE; PARCELS 126-127 REVISED DUE & TCE; PARCELS 128-130 REVISED TCE & ADDED DUE; PARCELS 131-132 TCE & DUE REVISED, PDE ADDED; PARCEL 133 PDE & DUE ADDED, TCE REVISED
11/15/2022: PARCEL 124 PDE AND TCE REVISED; PARCEL 162 ADDED FOR TCE; PARCELS 134 & 135 PDE ADDED AND TCE REVISED
1/17/2023: PARCELS 139-142 ROW & PUE REVISED; PARCEL 143 PUE REVISED; PARCELS 141-142 DUE REVISED; PARCELS 143-144 DUE REMOVED; PARCELS 142-143 TCE ADDED
2/3/2023: PARCEL 137 TCE REVISED
3/23/2023: PARCELS 131-133 REVISED DUE; PARCEL 132 REVISED PDE; PARCEL 131 REMOVED PDE; PARCELS 131-132 REVISED TCE

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PROJECT REFERENCE NO.	SHEET NO.
R-5600	13
R/W SHEET NO.	RW-13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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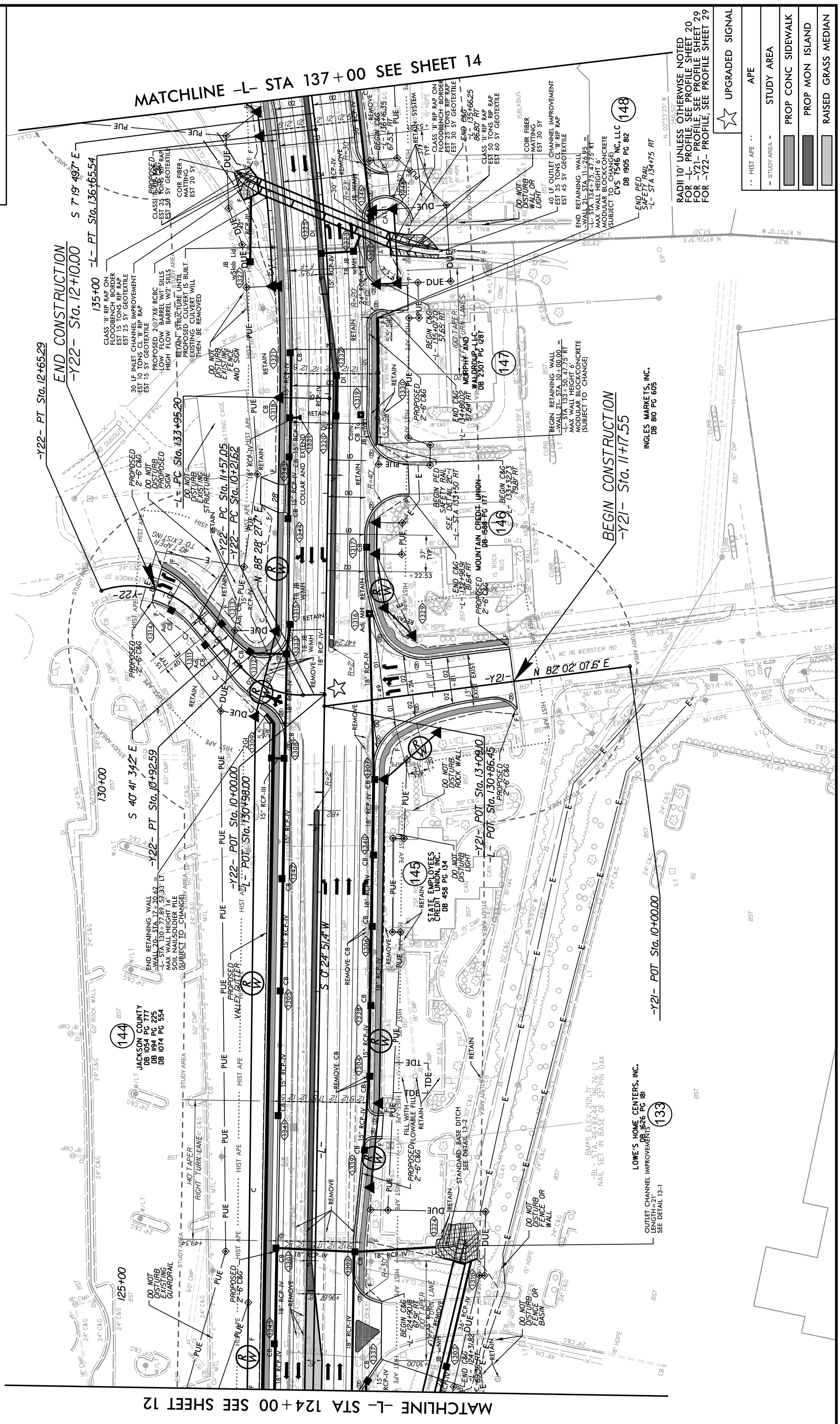

REVISIONS

9/24/2021: TDE ADDED; PARCEL 145
12/7/2022: PARCEL 147 OWNER CHANGE
10/14/2022: PARCEL 133 PDE, DUE, & TCE REVISED; PARCEL 145 DUE REVISED & PDE REMOVED
1/7/2023: PARCEL 133 TCE REVISED; PARCEL 144 PUE AND DUE REVISED, PDE REMOVED

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PROJECT REFERENCE NO.	SHEET NO.
R-5600	14
R/W SHEET NO.	RW-14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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RADII 10' UNLESS OTHERWISE NOTED
FOR -L- PROFILE, SEE PROFILE SHEET 21
FOR -L RT- PROFILE, SEE PROFILE SHEET 22
FOR -L LT- PROFILE, SEE PROFILE SHEET 22
FOR -Y23- PROFILE, SEE PROFILE SHEET 29
FOR -Y24- PROFILE, SEE PROFILE SHEET 29

UPGRADED SIGNAL
HIST APE
STUDY AREA
PROP CONC SIDEWALK
PROP MON ISLAND
RAISED GRASS MEDIAN
PAVEMENT REMOVAL

-Y24-
PI Sta 12+38.12
Δ = 6° 18' 19.6" (LT)
D = 8° 11' 06.4"
L = 77.04'
T = 38.56'
R = 700.00'
SE = SEE PLANS
DS = 30 MPH

PI Sta 11+40.15
Δ = 29° 00' 08.5" (RT)
D = 23° 52' 23.7"
L = 121.48'
T = 62.07'
R = 240.00'
SE = 04
DS = 25 MPH
(STOP CONDITION)

-Y23-
PI Sta 13+52.11
Δ = 5° 00' 20.3" (LT)
D = 4° 24' 26.5"
L = 113.57'
T = 56.82'
R = 1,300.00'
SE = SEE PLANS
DS = 40 MPH

-L-
PI Sta 142+62.11
Δ = 21° 34' 03.1" (LT)
D = 6° 01' 52.1"
L = 357.60'
T = 180.94'
R = 950.00'
SE = 04
DS = 50 MPH

PI Sta 147+50.83
Δ = 18° 33' 29.7" (RT)
D = 2° 59' 59.2"
L = 618.65'
T = 312.06'
R = 1,910.00'
SE = 04
DS = 50 MPH

DETAIL 14-1
SPECIAL CUT BASE DITCH
(Not to Scale)
Min. D = 1.0 Ft.
Max. d = 1.0 Ft.
B = 2 Ft.
Type of Liner = CLASS 'B' Rip-Rap
FROM STA. 10+73 TO STA. 11+60 -Y24- RT

DETAIL 14-2
SPECIAL CUT DITCH
(Not to Scale)
Min. D = 1.0 Ft.
FROM STA. 145+65 TO STA. 147+10 -L- LT

DETAIL 14-3
LATERAL BASE DITCH
(Not to Scale)
Min. D = 3.0 Ft.
Max. d = 2.0 Ft.
B = 2 Ft.
b = 5 Ft.
*When B is < 6.0'
Type of Liner = CLASS 'B' Rip-Rap
FROM STA. 144+30 TO STA. 144+90 -L- LT
FROM STA. 10+97 -Y24- LT TO STA. 10+72 -Y24- LT

2020 ADT
2035 ADT
(ADT IN 100's)
NC 107 — SR 1724 FAIRVIEW RD. (41/48, 29/31, 251/284, 12/17, 234/270) — NC 107

-Y23- PT Sta. 14+08.86

BM#4 ELEV. 2117.62'
-BL- STA. 36+23.22 15.33' RT
CHISELED SQUARE ON SW COR. OF CONC PAD

-Y23- PC Sta. 12+95.28

END CONSTRUCTION
-Y23- Sta. 11+40.00

-Y23- POT Sta. 13+46.57

-Y24- POT Sta. 12+76.59

-Y24- PT Sta. 11+99.56

-Y24- PRC Sta. 11+99.56

-Y24- PC Sta. 10+78.07

-L- PC Sta. 140+81.16

-L- PRC Sta. 144+38.77

-L- POT Sta. 145+33.56

-L- PT Sta. 150+57.42

-L- POT Sta. 137+55.83

END CONSTRUCTION
-Y24- Sta. 12+20.00

END TIP PROJECT R-5600
END CONSTRUCTION
-L- Sta. 149+57.42

NAD 83/NA 2011

MATCHLINE -L- STA 137+00 SEE SHEET 13

REVISIONS
11/15/2022: PARCEL 151 AUE ADDED, DUE AND PUE REVISED
8/30/2023: PARCEL 152 CA REMOVED
10/5/2023: PARCEL 148 ROW AND CA REVISED

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PROJECT REFERENCE NO.	SHEET NO.
R-5600	14A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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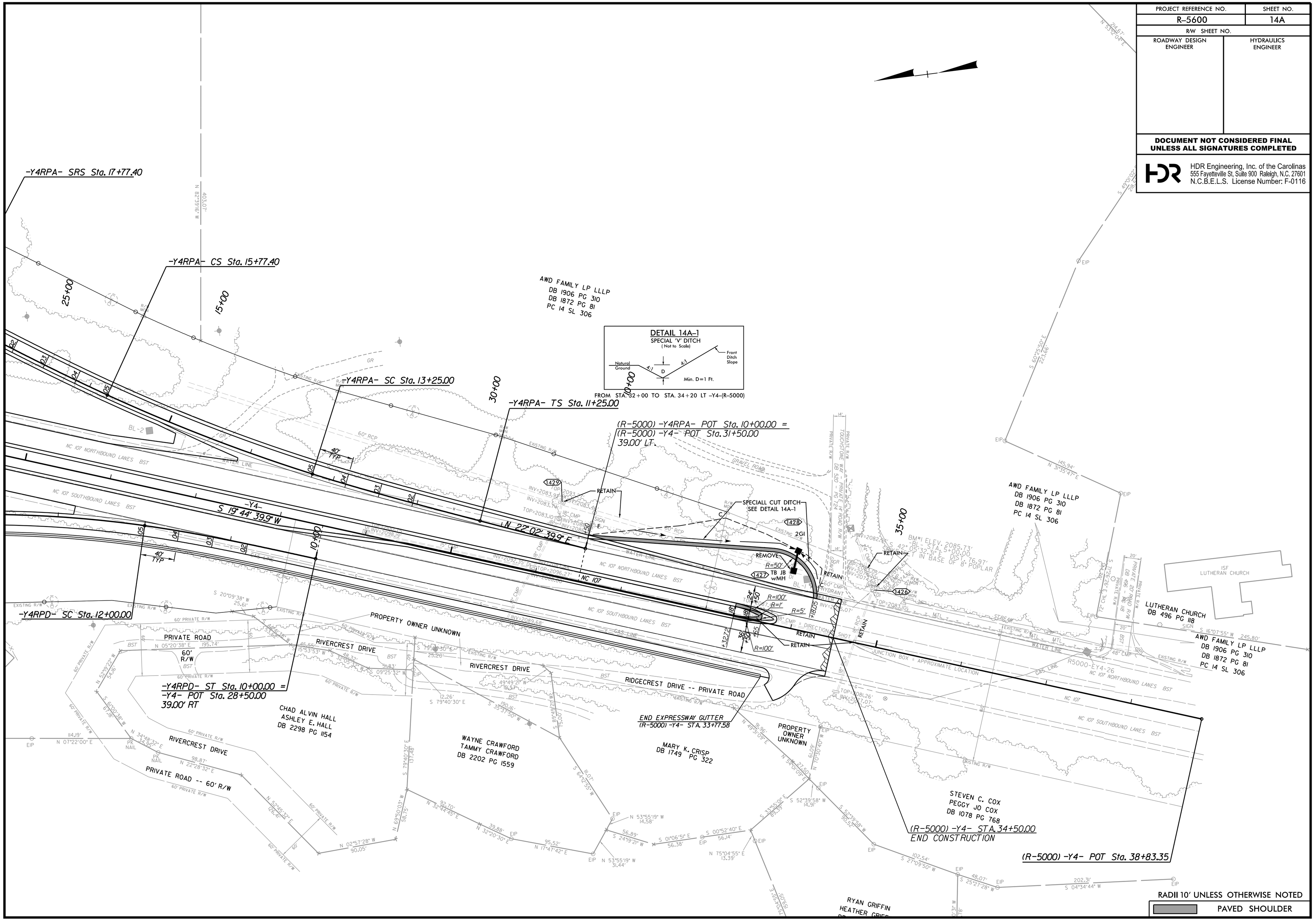

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