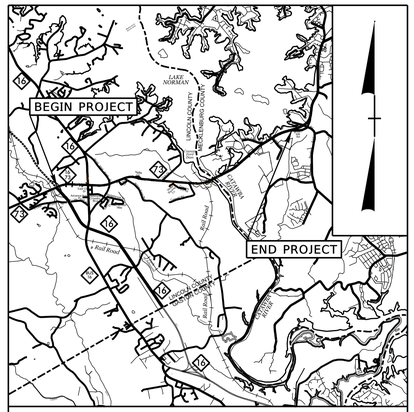
01/16/24

TIP PROJECT: R-5721A

CONTRACT:

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

DESIGN RECOMMENDATION PLAN SET

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LINCOLN & MECKLENBURG COUNTY

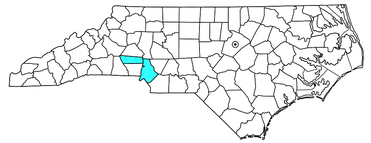
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5721A	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
50215.1.2		PE
50215.2.1		ROW
50215.2.2		UTILITIES RELO.
50215.3.1		CONST.

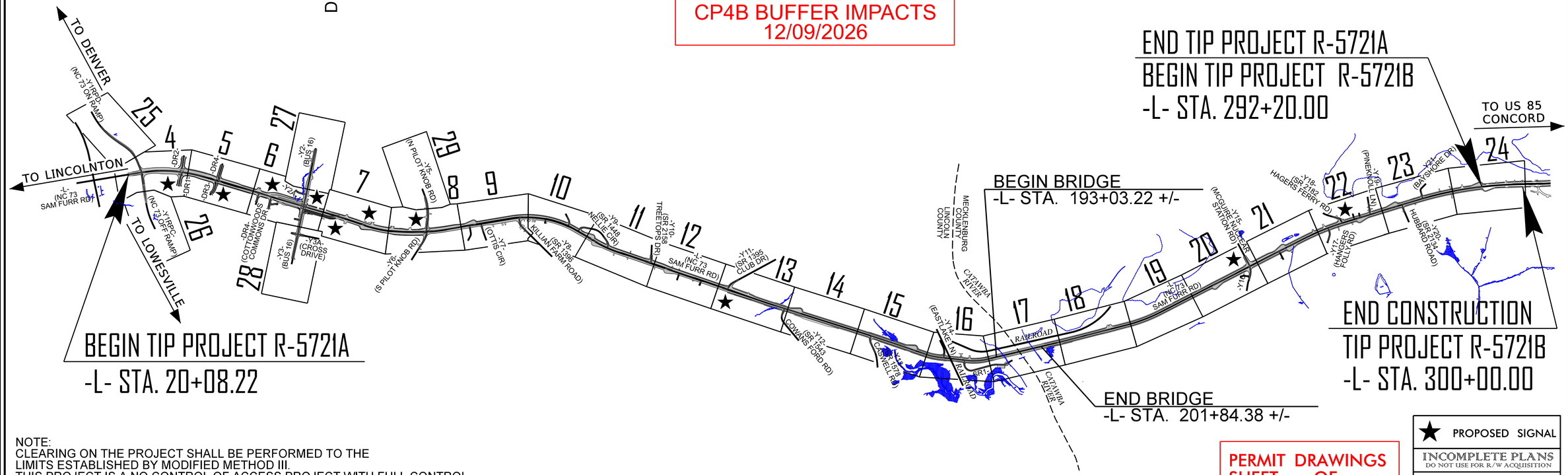
LOCATION: *NC 73 FROM NC 16 IN LINCOLN COUNTY TO I-77 IN MECKLENBURG COUNTY*

TYPE OF WORK: *WIDENING, GRADING, DRAINAGE, PAVING, STRUCTURES, RETAINING WALLS, SIGNALS, SIGNING, AND PAVEMENT MARKINGS*

NAD 83/2011



CP4B BUFFER IMPACTS
12/09/2026



NOTE:
CLEARING ON THE PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY MODIFIED METHOD III.
THIS PROJECT IS A NO CONTROL OF ACCESS PROJECT WITH FULL CONTROL OF ACCESS BEING LIMITED TO POINTS AS SHOWN ON PLANS.

PERMIT DRAWINGS
SHEET ___ OF ___

★ PROPOSED SIGNAL

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

PLANS: 50 25 0 50 100

PROFILE (HORIZONTAL): 50 25 0 50 100

PROFILE (VERTICAL): 10 5 0 10 20

DESIGN DATA

ADT 2030 = 43,034
ADT 2045 = 53,784
K = 9 %
D = 55 %
T = 5 % *
V = 50 MPH
* TTST = 1% DUAL = 4%
FUNC CLASS = PRINCIPAL ARTERIAL STATEWIDE TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT R-5721A = 5.154 MILES

LENGTH OF STRUCTURE TIP PROJECT R-5721A = 0.167 MILE

TOTAL LENGTH OF TIP PROJECT R-5721A = 4.987 MILES

NCDOT CONTACT: RADHA ATTALURI, P.E
PROJECT MANAGER

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

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 7/31/2026

LETTING DATE: 7/16/2030

PAUL ROBBINS, P.E.
PROJECT ENGINEER

JORDAN BOND, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

MATCH LINE -Y1RPD- STA 22+30.00 SEE SHEET 025

-Y1RPD- PT 23+16.77

BEGIN TIP PROJECT R-5721A
STA. -L- POC 20+08.22

-L- POC 22+62.19=
-Y1RPC- POE 21+22.03

-L- PC 21+84.36

-L- POC 22+63.53=
-Y1RPD- POE 25+44.39

RO = 224'

RO = 150'

-DR2- POB 10+00.00
BEGIN CONSTR.
-DR2- POT 10+25.00

-DR2- PC 11+82.76

-DR2- PT 12+67.79

S32°30'31.7"W

S27°52'09.1"W

-DR2-

-L- POC 30+18.63 =
-DR2- POE 13+22.89

-L- POC 30+30.69=
-DR1- POT 10+00.00

S32°30'31.7"W

-DR1- PC 11+42.51

-DR1- PT 12+42.92

END CONSTR.
-DR1- POT 12+70.00

-DR1- POE 12+77.90

MATCH LINE -L- STA 31+50.00 SEE SHEET 005

MATCH LINE -Y1RPC- STA 17+50.00 SEE SHEET 026

REMOVE

RETAIN

PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A

004

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

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HYDRAULICS ENGINEER

INCOMPLETE PLANS
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PREPARED BY

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REVISIONS

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NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

-DR4- POB 10+00.00
BEGIN CONSTR.
-DR4- POT 10+30.00

-L- POT 36+93.81=
-DR3- POB 10+00.00

-L- PT 35+05.60

-DR4- PC 12+30.10

-DR4- POE 13+49.79

-L- POT 37+71.73=

-DR3- PT 11+11.11

-DR3- PC 11+65.42

-DR3- PT 12+55.48

END CONSTR.
-DR3- POT 12+90.00

-DR3- POE 13+21.43

RO = 150'

MATCH LINE -L- STA 31+50.00 SEE SHEET 004

MATCH LINE -L- STA 44+50.00 SEE SHEET 006

REMOVE APPROX. 10 LF OF 24" RCP

REMOVE APPROX. 120 LF OF 30" RCP

REMOVE APPROX. 14 LF OF 15" HDPE

REMOVE APPROX. 8 LF OF 24" RCP

PERMIT DRAWINGS
SHEET___ OF ____

R-5721A

005

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

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HYDRAULICS ENGINEER

INCOMPLETE PLANS
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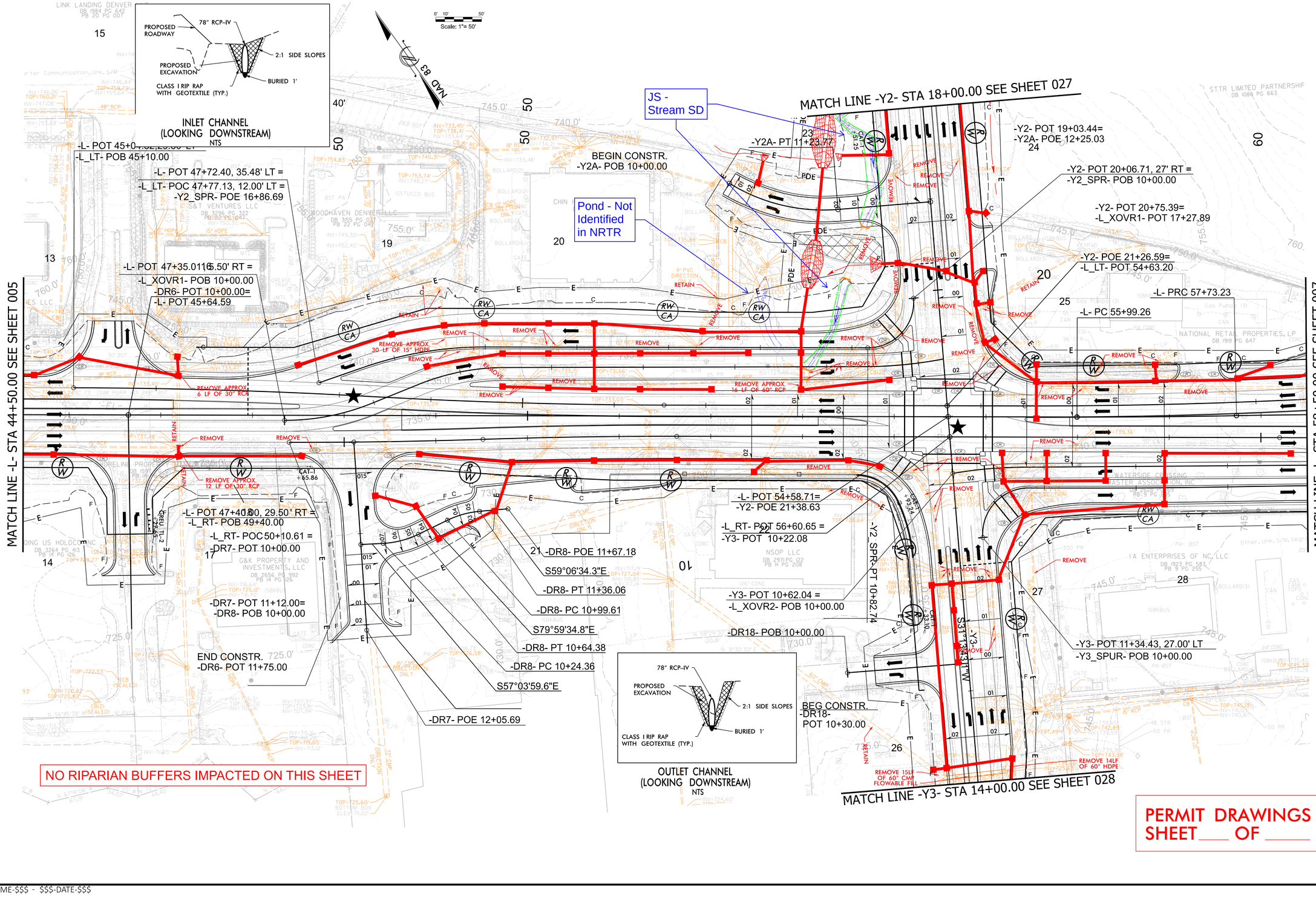
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11/14/23



PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A

006

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

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NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

-L- POT 61+73.33, 10.86' LT =
-L_XOVR2- POE 17+21.07

-L- POC 64+45.03, 29.50' LT =
-L_LT- POE 64+51.90

-L- PT 59+08.59

-L- PC 61+85.25

-L- PRC 66+31.51

-L- POC 62+79.25 29.50' RT =
L_RT- POE 64+79.02

-L- POT 61+11.70, 39.93' RT =
-L_RT- POT 63+12.00, 12.00' RT =
-Y3_SPUR- POE 16+54.23

RO = 150'

MATCH LINE -L- STA 58+50.00 SEE SHEET 006

MATCH LINE -L- STA 71+50.00 SEE SHEET 008

PERMIT DRAWINGS
SHEET___ OF _____

R-5721A

007

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

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HYDRAULICS ENGINEER

INCOMPLETE PLANS
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11/14/23

MATCH LINE -Y5- STA 14+00.00 SEE SHEET 029

MATCH LINE -L- STA 71+50.00 SEE SHEET 007

MATCH LINE -L- STA 85+50.00 SEE SHEET 009

RO = 150'

RO = 96'

RO = 144'

-L- PCC 72+74.09

-L- PT 82+98.12

-L- POC 78+76.35=
-Y5- POE 18+40.98

-Y5- PT 15+98.75

-Y6- POB 10+00.00

-Y6- PC 10+32.79

-Y6- PT 12+57.17

END CONSTR.
-Y6- POT 13+85.00

RETAIN

REMOVE

REMOVE 34LF OF 30" HDPE

REMOVE 6LF OF 10" TCP

REMOVE SYSTEM

ISAAC B HAGER
BRENDA L HAGER
DB 3314 PG 387

LINDA KAY HAGER LIFE ESTATE
DB 3314 PG 268

CALM INVESTMENT GROUP LLC
DB 3012 PG 28
PB 12 PG 183

CAH HOLDINGS, LLC
DB 1598 PG 849
PB 11PG 393

HWY 73 CAPITAL GROUP, LLC
DB 2325 PG 566

TIM NORMAN PROPERTIES, LLC
DB 2343 PG 402

TRENT WITHERSPOON
DB 21E PG 436

VANCE D LUCKEY L SPRINGS
63 PG 706

TIMOTHY L TENCH
RHONDA L TENCH
DB 1798 PG 63

NAN MARY NIXON FRANCEY & ROBERT FRANCEY
DB 1955 PG 661
PB H PG 145

TRANSCONTINENTAL GAS PIPE LINE CORPORATION
DB 4615 PG 0

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

PERMIT DRAWINGS
SHEET ___ OF ___

Scale: 1"= 50'

NAD 83

R-5721A

008

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

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HYDRAULICS ENGINEER

INCOMPLETE PLANS
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REVISIONS

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11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

RO = 200'

-L- POT 87+15.32=
-DR9- POB 10+00.00

-L- POT 89+37.33=
-Y7- POB 10+00.00

-L- PC 95+18.00

-L- POC 96+77.63=
-Y8- POB 10+00.00

-Y8- PC 10+87.17

-Y7- PC 11+34.51

-DR9- PC 11+44.05

END CONSTR.
-Y7- POC 11+55.18

-Y7- PT 11+73.41

-Y8- PT 11+90.17

-DR9- PT 12+09.27

-Y7- POE 13+37.77

-DR9- POE 13+05.66

END CONSTR.
-Y8- POT 13+63.00

MATCH LINE -L- STA 85+50.00 SEE SHEET 008

MATCH LINE -L- STA 98+50.00 SEE SHEET 010

Scale: 1"= 50'

NAD 83

PERMIT DRAWINGS
SHEET ___ OF ___

REVISIONS

R-5721A

009

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

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HYDRAULICS ENGINEER

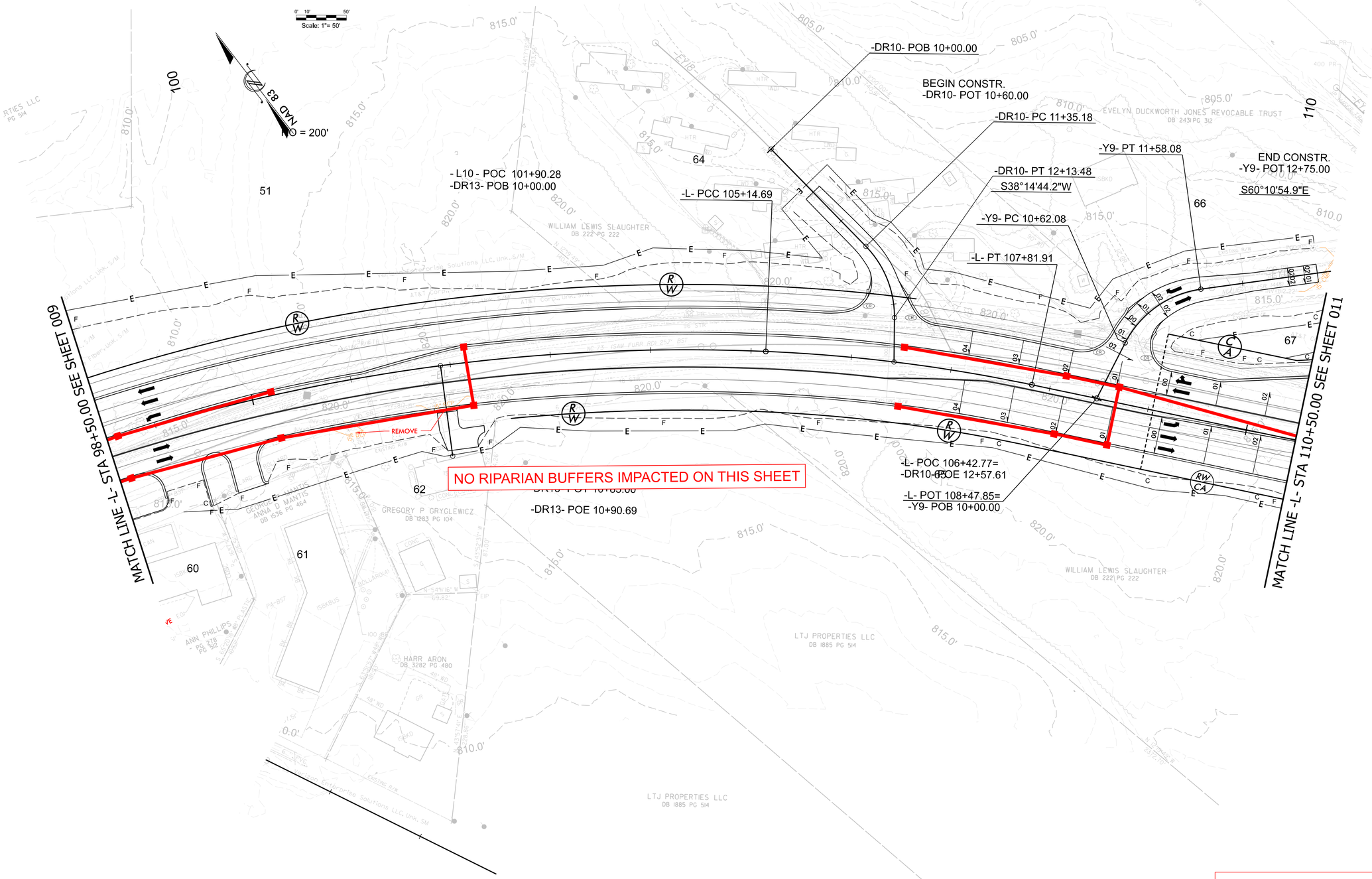
INCOMPLETE PLANS
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11/14/23



PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A

010

NORTH CAROLINA
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MECKLENBURG COUNTY AND
LINCOLN COUNTY

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11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

RO = 150'

Scale: 1"= 50'

NAD 83

MATCH LINE -L- STA 110+50.00 SEE SHEET 010

MATCH LINE -L- STA 124+50.00 SEE SHEET 012

-Y9- PC 13+31.15

BEGIN CONSTR.
-Y9- POT 15+90.00

-Y9- PT 15+42.01

-Y9- PC 16+47.16

-Y9- PCC 17+19.83

-L- PC 112+63.03

-Y9- PT 17+77.10

-L- POC 115+03.18=
-Y9- POT 18+19.98

-L- PT 117+10.83

-Y10- POB 10+00.00

BEGIN CONSTR.
-Y10- POT 11+95.00

-L- POT 123+87.48=
-Y10- POE 13+53.59

RETAIN

REMOVE

DAVID A CALDWELL
LORI B CALDWELL
DB 1636 PG 587

MARGARET DEAN
SKIPPER LIV TRUST
DB 3171 PG 536

ANDREW J MORRISON
LAURIE A MORRISON
DB 2624 PG 574

BETTY GWEN HAGER
DB 745 PG 714

TIMOTHY HOLOWKO &
DINA HOLOWKO
DB 3264 PG 283

ROBERT SHELTON DUCKWORTH
DB 1700 PG 850

ROBERT S DUCKWORTH
LISA F DUCKWORTH
DB 1414 PG 293

CHRISTINA
WILLIAM GO
MADELINE J
SIRI ELIZA
DB 29
BK DB 2

EVELYN D JONES TRUST
DB 2431 PG 312

65 67 68 69 70 71 72 73 120

PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A

011

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

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REVISIONS

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11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

MATCH LINE -L- STA 124+50.00 SEE SHEET 011

MATCH LINE -L- STA 137+50.00 SEE SHEET 013

- L10 - POC 129+61.33
-DR14- POB 10+00.00

- L10 - POC 134+04.59
-DR15- POB 10+00.00

-DR14- POB 10+00.00

-DR15- POB 10+00.00

-DR15- POE 11+05.51

END CONSTR.
DR14- POT 11+31.00

-DR14- POE 11+47.75

END CONSTR.
DR15- POT 10+93.00

REMOVE

GRADE TO DRAIN

RETAIN

CLAUDE ALONZO KILLIAN
FRANCES KILLIAN HAMPTON
DB 16E PG 402

JEAN CARTER
RDON CARTER
ONES FERRELL
BETH JONES
E PG 501
784 PG 224

BARBARA S SIFFORD
DB 20E PG 062
BK DB 515 PG 62

REBECCA KAY KILLIAN
DB 19E PG 25
BK DB 2784 PG 224

GARY L JORDAN, JR
HEATHER B JORDAN
DB 27#PG 95

GREGORY M ALEXANDER
ANGELA S ALEXANDER
DB 2406 PG 521

HAZEL P ARMSTRONG REVOC TRUST
BEATTIE F ARMSTRONG REVOC TRUST
DB 3038 PG 613

DARRYEL E CONNELL
CAROLYN P CONNELL
DB 617 PG 795

FITZNER L TATUM, JR
JANICE TATUM

Verizon Enterprise Solutions LLC Unk. S/M

AT&T Corp., Unk. S/M

73 74 75 76 77 78 79 80 81

130

R-5721A

012

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

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SHEET ___ OF ___

$$$-USER_NAME-$$$ - $$$-DATE-$$$

11/14/23

BEGIN CONSTR.
-Y11- POT 20+70.00

-Y11- PC 21+81.18

-Y11- PT 23+14.03

-L- POT 139+32.28=
-Y11- POE 23+66.22

-L- PC 145+91.35

-L- PT 148+89.65

-L- POT 150+90.11=
-Y12- POB 10+00.00

JS - Stream SE

JS - Stream SE

-Y12- PC 11+10.09

END CONSTR.
-Y12- POC 11+75.00

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

PROPOSED 6'X3' RCBC BURIED 1'

REMOVE EXISTING RCBC

REMOVE

RETAIN

MATCH LINE -L- STA 137+50.00 SEE SHEET 012

MATCH LINE -L- STA 151+50.00 SEE SHEET 014

THE DENVER GROUP LLC
DB 1289 PG 791
PB RPC 242

LIFE STORAGE LP
DB 3098 PG 568

ROADRA, LLC
DB 3282 PG 71
PB 19 PG 018

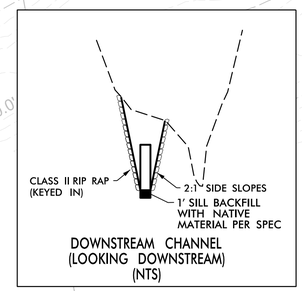
REBECCA K KILLIAN
DB 2317 PG 861

HARVEY C CARTNER
BEVERLY K CARTNER
DB 5019PG 873

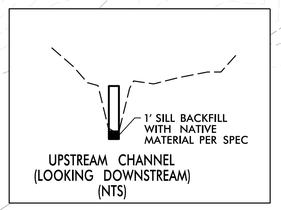
GLENN W FISCUS
DB 2712 PG 829

LRS PROPERT
DB 2687 PG

RYAN HENNIGH



DOWNSTREAM CHANNEL
(LOOKING DOWNSTREAM)
(NTS)



UPSTREAM CHANNEL
(LOOKING DOWNSTREAM)
(NTS)

PERMIT DRAWINGS
SHEET ___ OF ___

REVISIONS

R-5721A
013

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

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HYDRAULICS ENGINEER

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11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

MATCH LINE -L- STA 151+50.00 SEE SHEET 013

MATCH LINE -L- STA 165+50.00 SEE SHEET 015

-L- PC 164+38.64

-Y12- PT 12+85.76

SPECIAL CUT DITCH

SPECIAL CUT DITCH

SPECIAL CUT DITCH

BERM DITCH

BERM DITCH

REMOVE

ANN H L ALEXANDER
ROBERT C ALEXANDER, JR
DB 1757 PG 116

DAVID A BROWN
DB 8162 PG 738

SHIRLEY A TURBYFILL
DB 13E PG 276
DB 449 PG 114

SHIRLEY A TURBYFILL
DB 13E PG 276

HEIRS OF
PATRICIA M BROWN
DB 3182 PG 169

TERRY LEE TURBYFILL
DB 2147 PG 519

RONALD KEITH BENNETT JR
& MONICA BENNETT
DB 3260 PG 911

QUINLAN REAL ESTATE
INVESTORS LLC
DB 2949 PG 147
PB 10 PG 200

DUKE POWER CO
DRAWER CY - 8 ST
DB 393 PG 297

86

88

89

90

91

92

160

PERMIT DRAWINGS
SHEET ____ OF ____

R-5721A

014

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

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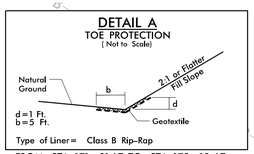
MICHAEL H. HA
NINA A. HAS

$$$-USER_NAME-$$$ - $$$-DATE-$$$

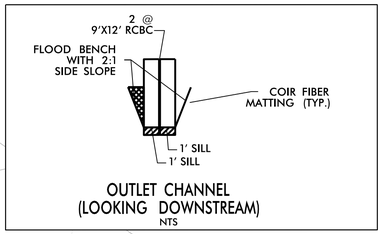
11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

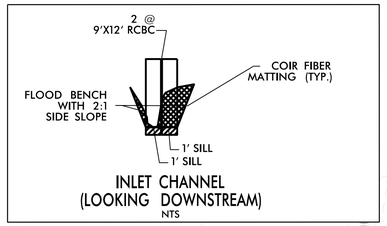
DETAIL A
TOE PROTECTION
(Not to Scale)



Type of Liner= Class B Rip-Rap
FROM STA. 171+01 LT TO STA. 173+18 LT



OUTLET CHANNEL
(LOOKING DOWNSTREAM)
NTS



INLET CHANNEL
(LOOKING DOWNSTREAM)
NTS

NAD 83

RO = 168'

RO = 32'

170

WETLAND WR

JS - (UT TO THE CATAWBA RIVER) STREAM SDD

WETLAND WX

TOE PROTECTION SEE DETAIL A

-L- POC 168+25.91=
-Y13- POB 10+00.00

-L- PT 173+46.51

-L- PC 179+29.76

PROPOSED (2) 10'X12' RCBC W/1' SILL IN THE LOW FLOW BARREL AND 2' SILL IN THE HIGH FLOW BARREL

REMOVE EXISTING RCBC

FILL IN JS

STANDARD 3 FT BASE DITCH

SPECIAL CUT DITCH

-Y13- PC 10+33.00

REMOVE

-Y13- PT 11+44.52

-Y13- PC 13+12.52

END CONSTR.
-Y13- POC 13+45.00

-Y13- PCC 14+57.20

WETLAND WS

JS - (UT TO THE CATAWBA RIVER) STREAM SDD

WETLAND WQ

MATCH LINE -L- STA 165+50.00 SEE SHEET 014

MATCH LINE -L- STA 179+50.00 SEE SHEET 016

DUKE POWER CO (DRAWN BY GIS) DB 393 PG 297

PERMIT DRAWINGS
SHEET___ OF _____

R-5721A
015

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PREPARED BY

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

REVISIONS

$$$-USER_NAME-$$$ - $$$-DATE-$$$

11/14/23

Scale: 1"= 50'

NAD 83

-Y14- POB 10+00.00

-Y14- PC 11+43.06

RO = 168'

RO = 168'

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

BEGIN CONSTR.
-Y14- POB 12+70.00

-L- PT 182+05.28

-Y14- PT 12+74.58

-L- PC 187+51.28

-L- PT 191+07.44

MATCH LINE -L- STA 179+50.00 SEE SHEET 015

MATCH LINE -L- STA 191+50.00 SEE SHEET 017

-L- POT 182+84.36=
-Y14- POE 13+57.20

-L- POT 186+87.92=
-SR1- POB 10+00.00

-SR1- PC 10+56.73

-SR1- PT 13+09.85

JS - (UT TO THE CATAWBA RIVER) STREAM SDD

WETLAND WQ

WETLAND WO

WETLAND WN

REMOVE

GREU TL-3 +27.96

GREU TL-3 +72.50

CAT-1 +51.25

CAT-1 +50

GREU TL-2 +50

DUKE POWER CO (DRAWN BY GIS) DB 393 PG 297

PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A

016

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11/14/23

0' 10' 50'
Scale: 1"= 50'

NAD 83

MATCH LINE -L- STA 191+50.00 SEE SHEET 016

MATCH LINE -L- STA 205+50.00 SEE SHEET 018

EXISTING TRANSPORTATION FACILITY

EXISTING TRANSPORTATION FACILITY

-L- PC 203+69.62

REMOVE

TYPE III

TYPE III

GREU -TL-3 =75

-SR1- PT 17+80.81

-SR1- PC 16+90.94

-SR1- PC 19+16.41

-SR1- PT 19+38.60

-SR1- POE 21+04.68

END CONSTR.
-SR1- POT 20+06.76

WETLAND WN

JS - (UT TO THE CATAWBA RIVER) STREAM SDD

WETLAND WL

JS NOT IDENTIFIED IN THE NRTR

Catawba River

86

93

94

20

200

PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A

017

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$$$-USER_NAME-$$$ - $$$-DATE-$$$

11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

RO = 126'

210

93

LAKE

LAKE NOT IDENTIFIED IN THE NRTR

-L- PT 208+42.71

-L- PC 218+74.64

RETAIN

REMOVE

REMOVE

REMOVE

MATCH LINE -L- STA 205+50.00 SEE SHEET 017

MATCH LINE -L- STA 219+50.00 SEE SHEET 019

CAT-1/F +97.31

94

PERMIT DRAWINGS
SHEET___ OF _____

R-5721A

018

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REVISIONS

$$$-USER_NAME-$$$ - $$$-DATE-$$$

11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

RO = 126'

220

230

LAKE

LAKE NOT IDENTIFIED IN THE NRTR

-L- PT 225+67.87

93

94

DUKE POWER CO. (DRAWN BY GIS) DB N/F PG N/F

MATCH LINE -L- STA 219+50.00 SEE SHEET 018

MATCH LINE -L- STA 232+50.00 SEE SHEET 020

CAT-1 +50.03

REMOVE

RETAIN

RETAIN

PERMIT DRAWINGS
SHEET___ OF _____

R-5721A

019

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NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

MATCH LINE -L- STA 232+50.00 SEE SHEET 019

MATCH LINE -L- STA 246+50.00 SEE SHEET 021

BEGIN CONSTR.
-Y15- POT 12+74.64

-L- POT 244+92.70 =
-Y15- POB 14+94.57 =
-Y16- POB 10+00.00

-DR11- POB 10+00.00

BEGIN CONSTR.
-DR11- POT 10+10.00

-DR11- PC 10+15.95

-DR11- PT 10+94.77

-Y16- PC 12+97.61

-Y16- PT 13+52.39

-Y16- POE 14+80.34

-Y16- PC 10+81.46

-Y16- POC 11+98.99=
-DR11- POE 11+94.53

-Y16- PT 11+99.69

END CONSTR.
-Y16- POT 12+73.58

RETAIN

REMOVE

GREU TL-3

DUKE POWER CO.
DB 3215 PG 303

93

94

95

96

240

PERMIT DRAWINGS
SHEET___ OF ___

R-5721A

020

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NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

POND B

POND A

-L- POT 251+23.74=
-DR12- POB 10+00.00

-L- PC 255+92.97

END CONSTR.
-DR12- POT 11+50.00
-DR12- POE 11+81.77

S07°44'10.2"E

JS - STREAM SDD
(NOT IDENTIFIED
IN FS FILE)

MATCH LINE -L- STA 246+50.00 SEE SHEET 020

MATCH LINE -L- STA 259+50.00 SEE SHEET 022

PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A

021

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REVISIONS

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NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

MATCH LINE -L- STA 259+50.00 SEE SHEET 021

MATCH LINE -L- STA 272+50.00 SEE SHEET 023

-Y18- POB 10+00.00

-Y18- PT 11+22.83

-Y18- PC 13+18.78

-Y18- PT 14+03.06

-L- PT 265+03.20

-L- POC 261+61.40=
-Y17- POB 10+00.00

-L- POC 264+46.85=
-Y18- POE 14+38.59

BEGIN CONSTR.
-Y18- POT 11+90.00

GRADE to DRAIN

-Y17- PC 10+65.90

-Y17- PT 11+63.62

END CONSTR.
-Y17- POT 12+85.00
-Y17- POE 12+99.72

-DR17- PC 10+10.70
-DR17- PT 10+29.81

-Y19- POB 10+00.00

BEGIN CONSTR.
-Y19- POT 11+15.00

-DR16- POB 10+00.00

BEGIN CONSTR.
-DR16- POT 10+13.00

-DR17- POB 10+00.00

BEGIN CONSTR.
-DR17- POT 10+07.50

-L- POT 266+92.66=
-DR16- POE 11+15.00

-L- POT 266+92.66
-DR17- POE 10+94.04

-L- POT 270+10.38=
-Y19- POE 13+43.21

RETAIN

REMOVE

CAT-1
+ 22.75

RO = 100'

RO = 32'

SE = SEE PLANS

PERMIT DRAWINGS
SHEET ____ OF ____

R-5721A

022

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HYDRAULICS ENGINEER

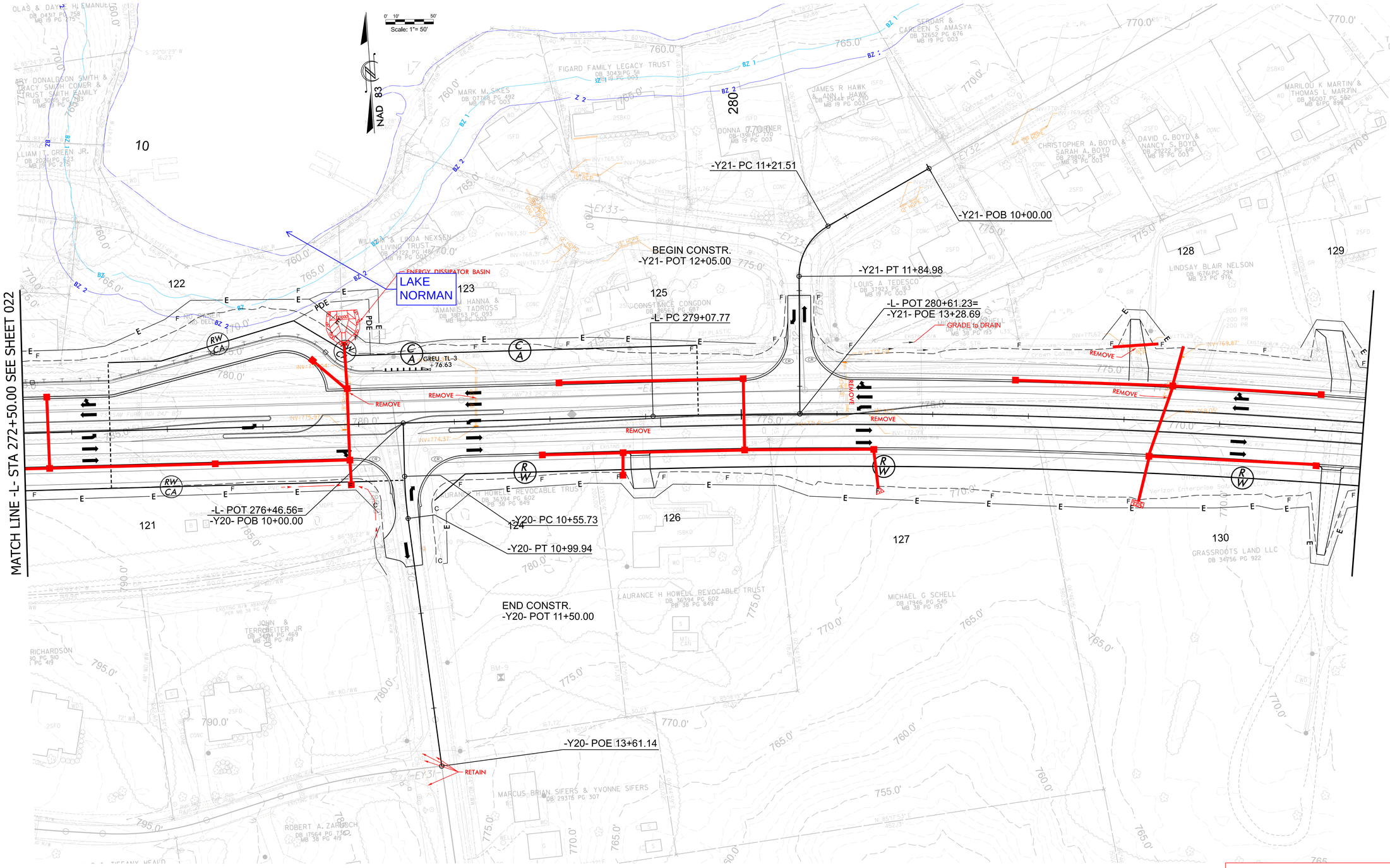
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REVISIONS

11/14/23



PERMIT DRAWINGS
SHEET ____ OF ____

R-5721A

023

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

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HYDRAULICS ENGINEER

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REVISIONS

$$$-USER_NAME-$$$ - $$$-DATE-$$$

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

END TIP PROJECT R-5721A
BEGIN TIP PROJECT R-5721B
-L- POC 292+20.00

-L- PT 298+46.60

END CONSTRUCTION
PROJECT R-5721A
-L- POT 300+00.00

MATCH LINE -L- STA 286+50.00 SEE SHEET 023

GRADE to DRAIN

GRADE to DRAIN

RETAIN

REMOVE

REMOVE

REMOVE

REMOVE

Scale: 1"= 50'

NAD 83

BZ 1

BZ 2

PUE

PDE

290

300

129

130

131

132

133

134

RANDY NIESSNER & CINDY NIESSNER DB 28851PG 108 MB 58 PG 174

DEBORAH W. NELSON DB 15816 PG 460 MB 23 PG 976

VISTA LAGO LLC DB 38416 PG 712 MB 71PG 175

BILLY C. JR. WASHBURN & DENISE M. WASHBURN DB 28713 PG 672

PERRY OLIVER & LISA J. OLIVER DB 33131PG 149

RALF D. JONES & MARY B. JONES DB 05050 PG 089

J. BAILES BLYTHE & SAUNDRA BLYTHE DB 08453 PG 726 MB 47 PG 111

CORNERSTONE BAPTIST CHURCH OF HUNTERSVILLE INC DB 37663 PG 274

SANDRA B. OF EDENS DB 30579 PG 04

CATAWBA PRESBYT DB 11777 P

PERMIT DRAWINGS
SHEET ___ OF ___

R-5721A
024

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY AND
LINCOLN COUNTY

ROADWAY DESIGN UNIT

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REVISIONS

11/14/23

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

0' 10' 50'
Scale: 1"= 50'

NAD 83

RO= 196'

RO= 224'

10

20

-Y1RPD- POB 10+00.00

-Y1RPD- SC 11+96.00

JS - STREAM SGG

-Y1RPD- CS 16+50.17

-Y1RPD- SRS 18+46.17

-Y1RPD- SC 20+70.17

135

BEGIN CONSTR.
-Y1RPD- POC 13+45.00

-NCI6 RAMP A-

-NCI6 RAMP B-

-NCI6 NBL-

-NCI6 SBL-

MATCH LINE -Y1RPD- STA 22+30.00 SEE SHEET 004

HOPE SPRINGS BUILDERS, INC. DB 952 PG 370

WAL-MART REAL ESTATE BUSINESS TRUST DB 20417G 653

BOTTOM BOX ELEV=743.7

24" RCP DIRECTION ONLY TO CULVERT

15" RCP

24" CMP

60" WW

FOR -CHAIN- PROFILE, SEE SHEET ??

R-5721A

025

NORTH CAROLINA
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REVISIONS

$$$-USER_NAME-$$$ - $$$-DATE-$$$

0' 10' 50'
Scale: 1"= 50'

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

NAD 83

JS - STREAM SHH

-Y1RPC- POB 10+00.00

-Y1RPC- SC 12+16.98

-Y1RPC- CS 14+30.82

JS - STREAM SHH

BEGIN CONSTR.
-Y1RPC- POB 15+38.00

-Y1RPC- TS 10+20.98

-Y1RPC- ST 16+26.82

MATCH LINE -Y1RPC- STA 17+50.00 SEE SHEET 004

FOR -CHAIN- PROFILE, SEE SHEET ??

R-5721A

026

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REVISIONS

CLASS I RIP RAP WITH GEOTEXTILE (TYP.)

2:1 SIDE SLOPES

DOWNSTREAM CHANNEL
(LOOKING DOWNSTREAM)
(NTS)

ROADWAY FILL SLOPE 4:1 SLOPE

CLASS I RIP RAP WITH GEOTEXTILE (TYP.)

2:1 SIDE SLOPES

UPSTREAM CHANNEL
(LOOKING DOWNSTREAM)
(NTS)

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

JS - STREAM SD

BEGIN CONSTR.
-Y2- POT 10+20.00
-Y2- POB 10+00.00

MATCH LINE -Y2- STA 18+00.00 SEE SHEET 006

REMOVE

RETAIN

RETAIN AND EXTEND EXISTING 4'X4' RCBC

GREU TL-3 ±20

STANDARD 4 FT BASE DITCH
EST 34 TONS CL II RIPRAP
EST 49 SY GEOTEXTILE

JS - STREAM SD

Scale: 1"= 50'

NAD 83

CAMBRIDGE-DENVER, LLC
DB 2642 PG 649
PB 17 PG 254

NADG NNN DAIRY QRC) LP
DB 2756 PG 580
PB 17 PG 254

MICHAEL JOHN RAEDEKE,
AS TRUSTEE OF THE
JWR LIVING TRUST
DATED FEBRUARY 12, 2005
DB 3056 PG 784
PB 17 PG 254

LL KEEVER
DORIS D KEEVER
MICHAEL L KEEVER
DB 637 PG 119

LL KEEVER
DORIS D KEEVER
DB 276 PG 611

RIVERWALK DENVER, LLC
DB 2422 PG 747

STTR LIMITED PARTNERSHIP
DB 1088 PG 663

ATWATER LANE (31' PRIVATE EASEMENT)

20' SEWER EASEMENT SEE DB 2724 PG 83

136 137 23 24

10

REVISIONS

R-5721A

027

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-Y3A- POB 10+00.00 -Y3A- POB 10+00.00

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

Scale: 1"= 50'

NAD 83

BEG CONSTR.
-Y3A- POT 13+02.00

-Y3- POT 15+46.98=
-Y3A- POE 14+20.00
-DR19- POB 10+00.00

END CONSTR.
-Y3- POT 20+25.00

-Y3A- POE 14+20.00

-DR19- PC 10+39.49
-DR19- PT 11+06.62

END CONSTR.
-DR19- POT 11+09.08

-DR19- POE 11+37.08

-Y3- POE 21+30.92

FIRST CHARTER REAL ESTATE HOLDINGS
DB 1302 PG II
PB 9 PG 255

ARCHLAND PROPERTY I, LLC
DB 1606 PG 363
PB 9 PG 255

JIMMIE POURLOS
RONNIE POURLOS
DB 2235 PG 197
PB 9 PG 255

FIRST-CITIZENS BANK & TRUST COMPANY
DB 1049 PG 217
PB 9 PG 66

WATERSIDE CROSSING MASTER ASSOCIATION, INC
DB 2628 PG 69
PB 9 PG 255

WATERSIDE CROSSING MASTER ASSOCIATION, INC
DB 2628 PG 69
PB 9 PG 66

ARC CAFEUSADOI, LLC
DB 246 PG 87
PB H PG 133

PEOPLES BANK
DB 988 PG I

CAROMONT HEALTH SERVICES, INC
DB 1632 PG 386
PB G PG 443

DENVER AAP PARTNERS LLC
DB 3318 PG 724
PB II PG 380

Piedmont Natural Gas Company Inc., 2 " Plastic, IS/M per records)

Duke Energy Progress, Unk. S/M

Charter Communications, Unk. S/M

FOR -CHAIN- PROFILE, SEE SHEET ??

R-5721A

028

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REVISIONS

0' 10' 50'
Scale: 1"= 50'

NAD 83

NO RIPARIAN BUFFERS IMPACTED ON THIS SHEET

BEGIN CONSTR.
-Y5- POT 11+35.00

-Y5- POB 10+00.00

-Y5- PC 11+41.41

-Y1-

N PILOT KNOB RD (SR 1394) 21/2"- BST

CHRISTOPHER T. CLARK
ANITA J. CLARK
DB 897 PG 148

CHRISTOPHER TODD CLARK &
ANITA JOAN CLARK
DB 883 PG 23

CHRISTOPHER TODD CLARK &
ANITA JOAN CLARK
DB 3210 PG 549

STTR LIMITED PARTNERSHIP
DB 1088 PG 663

TIM NORMAN PROPERTIES LLC
DB 2943 PG 466

AT&T Corp., UPA, SAN

15" RCP

INV=793.51'

INV=794.82'

142

44

43

MATCH LINE -NCSH1 STA 12+49.90

R-5721A

029

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