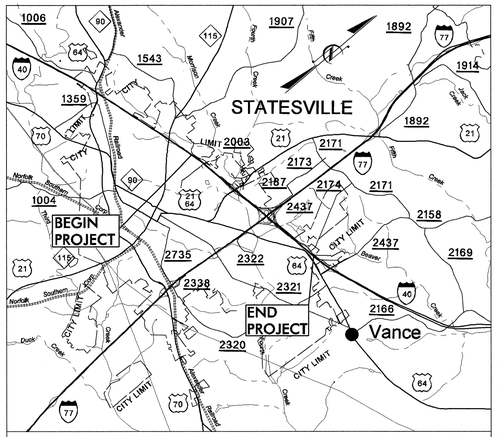
09/08/99

TIP PROJECT: I-3819A

PROJECT: 34192.1.2

T.I.P. NO.	SHEET NO.
I-3819A	UC-1



VICINITY MAP

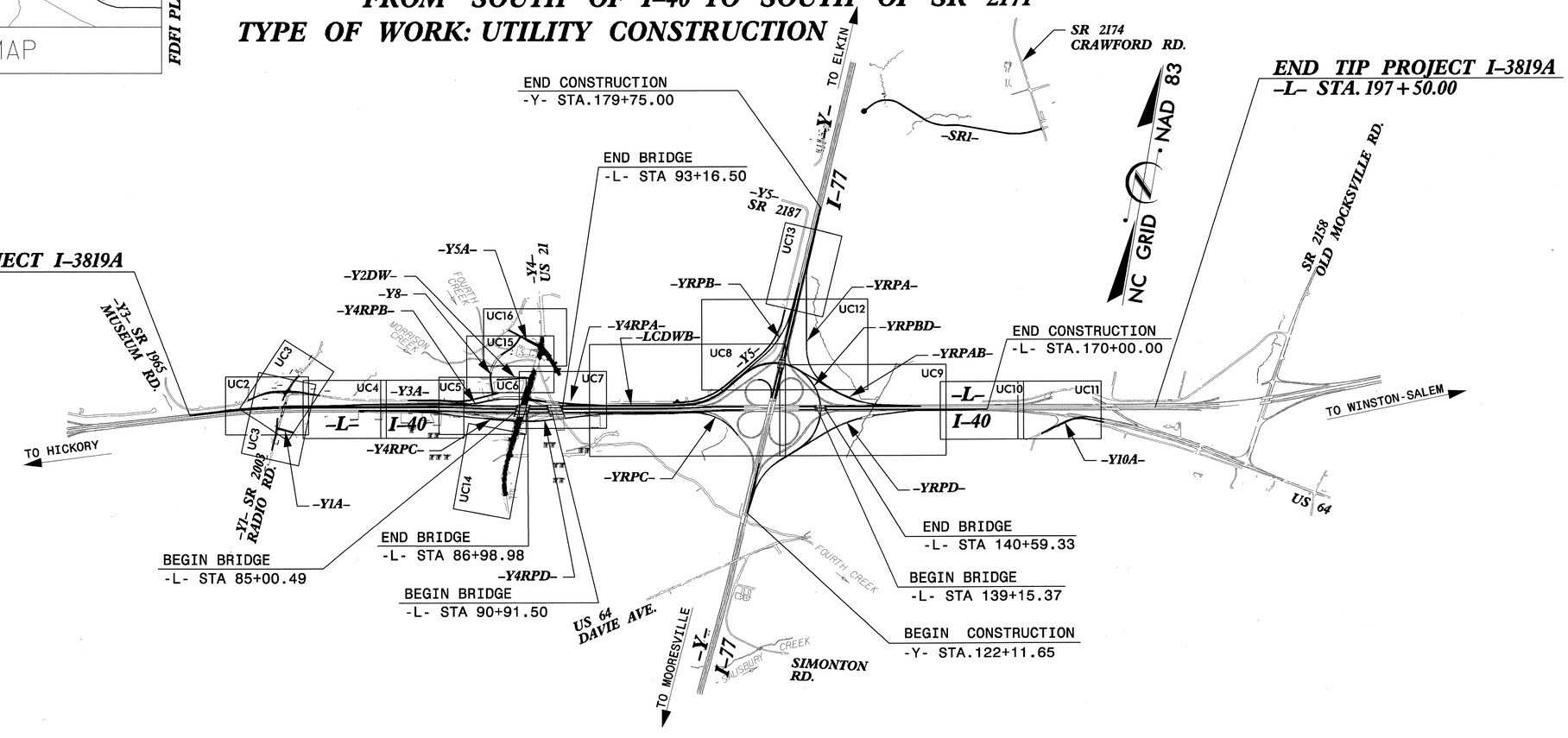
FDFI PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
IREDELL COUNTY

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 FROM WEST OF SR 2003 TO WEST OF SR 2158 & I-77 FROM SOUTH OF I-40 TO SOUTH OF SR 2171

TYPE OF WORK: UTILITY CONSTRUCTION



GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.	*DESCRIPTION*
UC-1	*TITLE SHEET*
UC-2 THRU UC-16	*UTILITY CONSTRUCTION PLAN SHEETS*
UC-17 THRU UC-20	*PROFILE SHEETS*
UC-21 THRU UC-22	*DETAILS SHEETS*

WATER AND SEWER OWNERS ON PROJECT

(1) WATER - CITY OF STATESVILLE
(2) SANITARY SEWER - CITY OF STATESVILLE
(3) WATER - IREDELL WATER CORPORATION

PREPARED BY:

NORTH CAROLINA SEAL 023965 ENGINEER LARRY W. MITCHELL

12/15/2010

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

PREPARED FOR:

DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E.	*UTILITIES SECTION ENGINEER*
R. B. Wilkins, P.E.	*UTILITIES SQUAD LEADER PROJECT ENGINEER*
AECOM Tech. Services	*UTILITIES PROJECT DESIGNER*

DATE: 12/15/2010
DGN: I-3819A_UC1.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-2

SCALE: 25 0 50

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023965 LARRY W. MITCHELL
12-15-2010

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

UTILITY CONSTRUCTION

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

NC GRID NAD 83

-MATCHLINE- STA. 25+50.00 -Y1- SEE SHEET UC-3

-MATCHLINE- STA. 33+00.00 -L-

-MATCHLINE- STA. 47+00.00 -L- SEE SHEET UC-4

-MATCHLINE- STA. 18+00.00 -Y1- SEE SHEET UC-3

PROP. 45' - 30" WATER LINE (LINE WL 1)

PROP. 2 - 45 DEGREE BEND

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 2 - 45 DEGREE BEND

PROP. 546' - ABANDON 8" UTILITY PIPE (DI WATER)

PROP. 44' - ABANDON 30" UTILITY PIPE (DI WATER)

PROP. 450' - 8" WATER LINE 2 - 8" VALVE

PROP. 125' - 8" WATER LINE 125' TRENCHLESS INSTALLATION 8" WATER LINE IN SOIL

PROP. 1 - RELOCATE WATER METER

TRENCHLESS INSTALLATION IN SOIL

10'

60'

BEGIN CONSTRUCTION -Y3- POC 13+20.00

-Y1- PC 23+94.75

-Y1- POT 23+54.94 = -Y3- POT 17+59.15 = -Y3A- POT 10+34.69

-Y3- PT 15+64.17

-Y3- PC 12+14.88

-L- POC 42+97.41 = -Y1- POT 20+40.37

BEGIN BRIDGE -PL- POT 19+33.98

BEGIN APPROACH SLAB -Y1- POT 19+08.98

-L- SC 33+11.38

-L- CS 44+26.23

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1313 PG 2383

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1535 PG 1904

WESTERN AVENUE BAPTIST CHURCH DB 1582 PG 903 "TRACT I"

WESTERN AVENUE BAPTIST CHURCH DB 1582 PG 903 "TRACT III"

BENCHMARK RADIO AQUISITION FUND IX LIMITED PARTNERSHIP DB 1010, PG 1635

SCOTT JACKSON, JR. DB 720, PG 311

HAZEL M. CARDIN DB 1556 PG 179

FRANCES D. KIMBALL, ET. ALS. DB 625 PG 772 W.E. FILE #02E-134

ROBERT W. ANDERSON DB 1653 PG 351

RICKY D. HIX DB 838 PG 956

Prepared by:

AECOM

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919-854-6200 919-854-6259 (fax)

I-3819A_UC2.dgn
12/15/2010 3:13:12 PM

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-3

SCALE: 25 0 50

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023965 LARRY W. MITCHELL
12-15-2010

UTILITY CONSTRUCTION

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

PROP. 100' - ABANDON 8" UTILITY PIPE (DI WATER)

PROP. 1 - RELOCATE WATER METER

PROP. 45 DEGREE BEND

PROP. 130' - 8" WATER LINE

PROP. 1 - RELOCATE WATER METER

PROP. 45 DEGREE BEND

-Y1-
PI Sta 13+81.00
Δ = 02° 18' 02.3" (RT)
D = 0° 40' 26.6"
L = 341.31'
T = 170.69'
R = 8,500.00'
SE = NC
Runoff = N/A
DS = 40 mph

NC GRID | NAD 83

-MATCHLINE- STA. 18+00.00 -Y1- SEE SHEET UC-2

-MATCHLINE- STA. 25+50.00 -Y1- SEE SHEET UC-2

PROP. 28' - ABANDON 8" UTILITY PIPE (DI WATER)

PROP. 2 - 45 DEGREE BEND

PROP. 2 - 45 DEGREE BEND

PROP. 32' - 8" WATER LINE

-Y1-
PI Sta 25+18.43
Δ = 26° 07' 34.4" (RT)
D = 10° 44' 58.8"
L = 243.04'
T = 123.67'
R = 533.00'
SE = 04
Runoff = 84'
DS = 40 mph

NC GRID | NAD 83

DATE: 12/15/2010
DGN: I-3819A_UT_UC3.dgn

Prepared by:
AECOM
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-4

SCALE: 25 0 50

NORTH CAROLINA SEAL 023965 ENGINEER LARRY W. MITCHELL

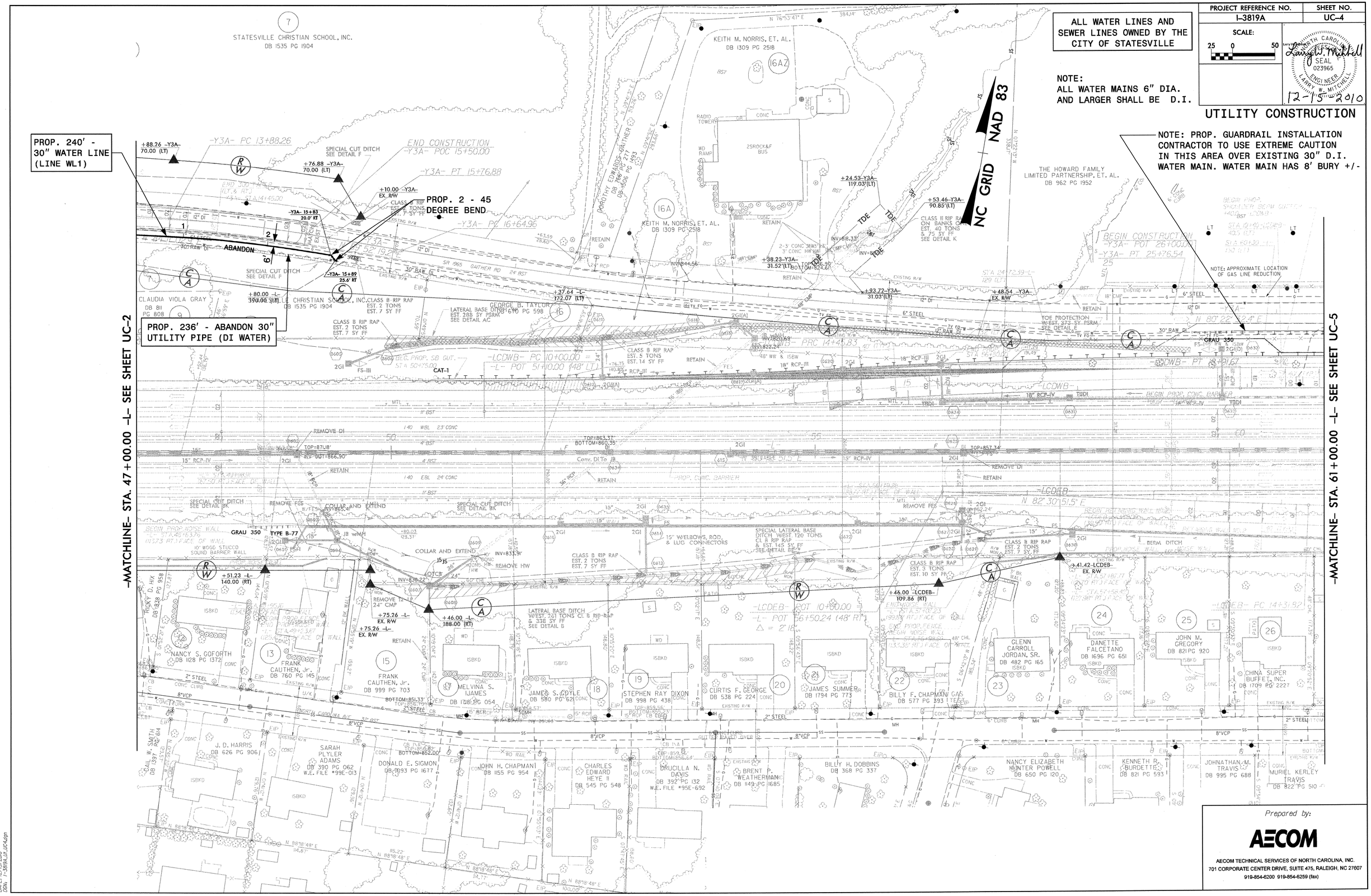
12-15-2010

UTILITY CONSTRUCTION

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

NOTE: PROP. GUARDRAIL INSTALLATION CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA OVER EXISTING 30" D.I. WATER MAIN. WATER MAIN HAS 8' BURY +/-



Prepared by:

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DATE: 12/15/2010
DGN: I-3819A_UI_UC4.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-5

SCALE: 25 0 50

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023965 ENGINEER LARRY W. MITCHELL
12-15-2010

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

UTILITY CONSTRUCTION

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

NOTE: PROP. GUARDRAIL INSTALLATION CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA OVER EXISTING 30" D.I. WATER MAIN. WATER MAIN HAS 8' BURY +/-

NC GRID NAD 83

-MATCHLINE- STA. 61+00.00 -L- SEE SHEET NO. 6

-MATCHLINE- STA. 75+00.00 -L- SEE SHEET NO. 8

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1952

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1949

LOU M. BELL, ET. AL. DB 962 PG 1955

RUCHIKA, LLC DB 1821 PG 1494

KEITH S. RAINWATER, ET. AL. DB 1083 PG 795

ARTHUR OLAND DB 1679 PG 1708

PHYLLIS ELDER STEWART DB 786 PG 771

WILLIAM L. BOYD DB 1546 PG 2367

CITY OF STATESVILLE BOARD OF EDUCATION DB 323 PG 272

ROBERT GLENN HAITHCOX DB 467 PG 389

KELLY L. RUDISILL DB 671 PG 591

HARRY W. CAMPBELL DB 505 PG 241 W.E. FILE #99-647

WILLIAM LARRY CAMPBELL DB 1220 PG 713

LARRY J. SNODDY

NORTHVIEW PROFESSIONAL PARK CONDOMINIUMS DB 541 PG 575 DB 693 PG 836 DB 693 PG 809 DB 693 PG 783 DB 922 PG 1214

Prepared by:

AECOM

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919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_01_UC5.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-6

SCALE: 25 0 50

NORTH CAROLINA PROFESSIONAL SEAL 023965 ENGINEER LARRY W. MITCHELL

12-15-2010

UTILITY CONSTRUCTION

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

NC GRID NAD 83

SEE SHEET UC-15 –MATCHLINE– 30+00.00 –Y4–

–MATCHLINE– STA 75+00.00 –L– SEE SHEET UC-5

–MATCHLINE– STA 89+00.00 –L– SEE SHEET UC-7

PROP. 1 - ABANDON UTILITY MANHOLE (CONC. ACCESS BOX)

SEE DETAIL A BELOW

PROP. 1 - ABANDON UTILITY MANHOLE (CONC. ACCESS BOX)

SEE DETAIL B BELOW

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1 - RELOCATE WATER METER

PROP. 30.00' - ABANDON 8" UTILITY PIPE (VC SEWER)

PROP. 56' - 2" WATER LINE

PROP. 1 - 4' DIA. UTILITY MANHOLE E1
STA. 0+00.00, LINE E

66.35' LT. OF -Y4- STA. 21+28.08

PROP. 2 - CONC. PIPELINE SUPPORTS (SEE DETAIL UC-22)

PROP. 1 - RELOCATE WATER METER

PROP. 56.03' - 8" SANITARY GRAVITY SEWER (LINE D)

PROP. 36.50' - 8" SANITARY GRAVITY SEWER (LINE E)

PROP. 1 - 4' DIA. UTILITY MANHOLE D2
STA. 2+01.47, LINE D =
STA. 0+36.50, LINE E

37.26' LT. OF -Y4- STA. 21+06.03

PROP. 1 - RELOCATE WATER METER

PROP. 52.08' - 8" SANITARY GRAVITY SEWER (LINE E)

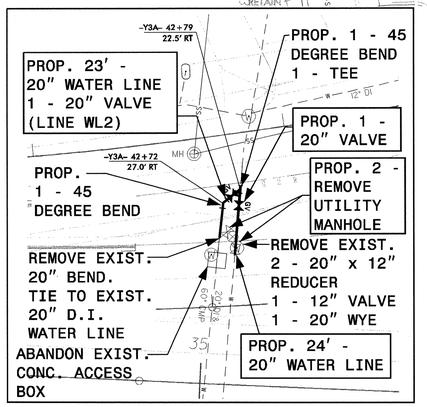
EXISTING UTILITY MANHOLE E2
STA. 0+88.58, LINE E
14.82' RT. OF -Y4- STA. 21+06.14

PROP. 112.06' - ABANDON 8" UTILITY PIPE (VC SEWER)

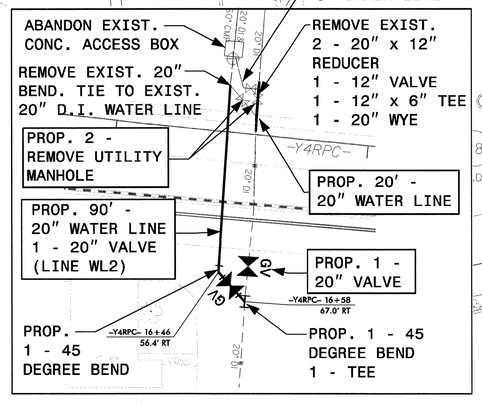
NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

–MATCHLINE – STA. 20+50.00 –Y4– SEE SHEET UC-14

DETAIL A (SEE PROFILE SHEET UC-18)



DETAIL B (SEE PROFILE SHEET UC-18)



Prepared by:

AECOM
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
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DATE: 12/15/2010
DGN: I-3819A_UT_UC6.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-7

SCALE: 25 0 50

NOTE:
ALL WATER MAINS 6" DIA.
AND LARGER SHALL BE D.I.

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

NORTH CAROLINA SEAL 023965 ENGINEER LARRY W. MITCHELL
Larry W. Mitchell
12-15-2010

UTILITY CONSTRUCTION

SEE SHEET UC-15 -MATCHLINE- STA. 18+50.00 -Y5-

PROP. 1 - 5' DIA.
UTILITY MANHOLE B1
STA. 0+14.18, LINE B
44.49' RT. OF -Y4RPA- STA. 17+69.02

PROP. 1 - 4' DIA.
UTILITY MANHOLE B2
STA. 3+09.70, LINE B
68.92' RT. OF -Y4RPA- STA. 14+72.77

PROP. 1 - 4' DIA.
UTILITY MANHOLE B4
STA. 7+19.13, LINE B
9.40' LT. OF -Y5- STA. 25+80.43

PROP. 1 - 4' DIA.
UTILITY MANHOLE B5
STA. 8+81.03, LINE B
3.42' RT. OF -Y5- STA. 27+41.82

PROP. 1 - SANITARY SEWER CLEAN-OUT

PROP. 40.52' - 4" SANITARY GRAVITY SEWER

PROP. 477.07' - 10" SANITARY GRAVITY SEWER (LINE B)

PROP. 1 - 4' DIA.
UTILITY MANHOLE B3
STA. 4+77.07, LINE B
6.36' LT. OF -Y5- STA. 23+37.21

PROP. 1 - 6' DIA.
UTILITY MANHOLE A1
STA. 0+00.00, LINE A
46.22' RT. OF -Y4RPA- STA. 18+81.46

PROP. 1 - ABANDON UTILITY MANHOLE

PROP. 1 - REMOVE UTILITY MANHOLE

PROP. 980' - ABANDON 8" UTILITY PIPE (VC SEWER)

PROP. 1 - REMOVE UTILITY MANHOLE

PROP. 1 - REMOVE UTILITY MANHOLE

PROP. 1 - ABANDON UTILITY MANHOLE

PROP. 1 - 6' DIA.
UTILITY MANHOLE A2
STA. 1+10.90, LINE A =
STA. 0+00.00, LINE B
30.56' RT. OF -Y4RPA- STA. 17+71.67

PROP. 403.96' - 8" SANITARY GRAVITY SEWER (LINE B)

PROP. 1 - ABANDON UTILITY MANHOLE

PROP. 210' - 30" SANITARY GRAVITY SEWER
210' TRENCHLESS INSTALLATION
30" SANITARY GRAVITY SEWER IN SOIL (LINE A)

EXISTING UTILITY MANHOLE A3
STA. 5+20.64, LINE A
90.32' LT. OF -Y4RPD-
STA. 15+71.05

PROP. 210' - 42" ENCASEMENT PIPE

PROP. 504' - ABANDON 30" UTILITY PIPE (VC SEWER)

PROP. 310.64' - 30" SANITARY GRAVITY SEWER (LINE A)

TRENCHLESS INSTALLATION

-MATCHLINE- STA 89+00.00 -L- SEE SHEET UC-6

-MATCHLINE- STA 104+00.00 -L- SEE SHEET UC-8

THE W.C. CHAMBERS ESTATE DB 628 PG 989

KINGOTT, LLC DB 1482 PG 2395

CNC INCOME PROPERTIES LIMITED PARTNERSHIP DB 1009 PG 2081

CRACKER BARREL OLD COUNTRY STORE DB 1334

CHARLES MCK DB 1265 PG 1379

CARMIKE CAROLINAS, INC. DB 681 PG 152 DB 603 PG 434 DB 681 PG 502 DB 1322 PG 1523

THE ARNESON PARK ASSOCIATES PARTNERSHIP DB 872 PG 1741 DB 915 PG 1170 W.E. FILE #90E-118

RAHAB LAND COMPANY, INC. DB 996 PG 628

THE W.H. CHAMBERS ESTATE DB 1172 PG 1593 DB 169 PG 315 DB 228 PG 522

CITY OF STATESVILLE DB 601 PG 706 DB 560 PG 369

DUKE ENERGY COMPANY POWER TRANSMISSION LINE R/W = 68 FEET WIDE

CITY OF STATESVILLE "GREENWAY EASEMENT" R/W = 20 FEET WIDE

WET DETENTION BASIN

NC GRID NAD 83

Prepared by:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UC7.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-8

SCALE: 50 0 100

NORTH CAROLINA
Larry L. Mitchell
SEAL
023965
ENGINEER
LARRY L. MITCHELL
12-15-2010

UTILITY CONSTRUCTION

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

NC GRID NAD 83

PROP. 1360' - 8" WATER LINE
1 - 8" VALVE

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 4 - RELOCATE WATER METER

PROP. 2 - 45 DEGREE BEND

PROP. 1410' - ABANDON 8" UTILITY PIPE (DI WATER)

-MATCHLINE- STA. 104+00 -L- SEE SHEET UC-7

-MATCHLINE- STA. 147+00 -Y- SEE SHEET UC-12

-MATCHLINE- STA. 24+00 -YRPBD- SEE SHEET UC-12

-MATCHLINE- STA. 133+00 -L- SEE SHEET UC-9

-MATCHLINE- STA. 135+00 -Y-

Prepared by:

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919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UC8.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-9

SCALE: 50 0 100

NOTE:
ALL WATER MAINS 6" DIA.
AND LARGER SHALL BE D.I.

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

PROP. 1 - RELOCATE FIRE HYDRANT (H.P.)

PROP. 1 - 24" VALVE

PROP. 1 - RELOCATE FIRE HYDRANT (L.P.)

PROP. 1 - 11.25 DEGREE BEND

PROP. 1596' - 24" WATER LINE (LINE WL4)

PROP. 2588' - ABANDON 24" UTILITY PIPE (DI WATER)

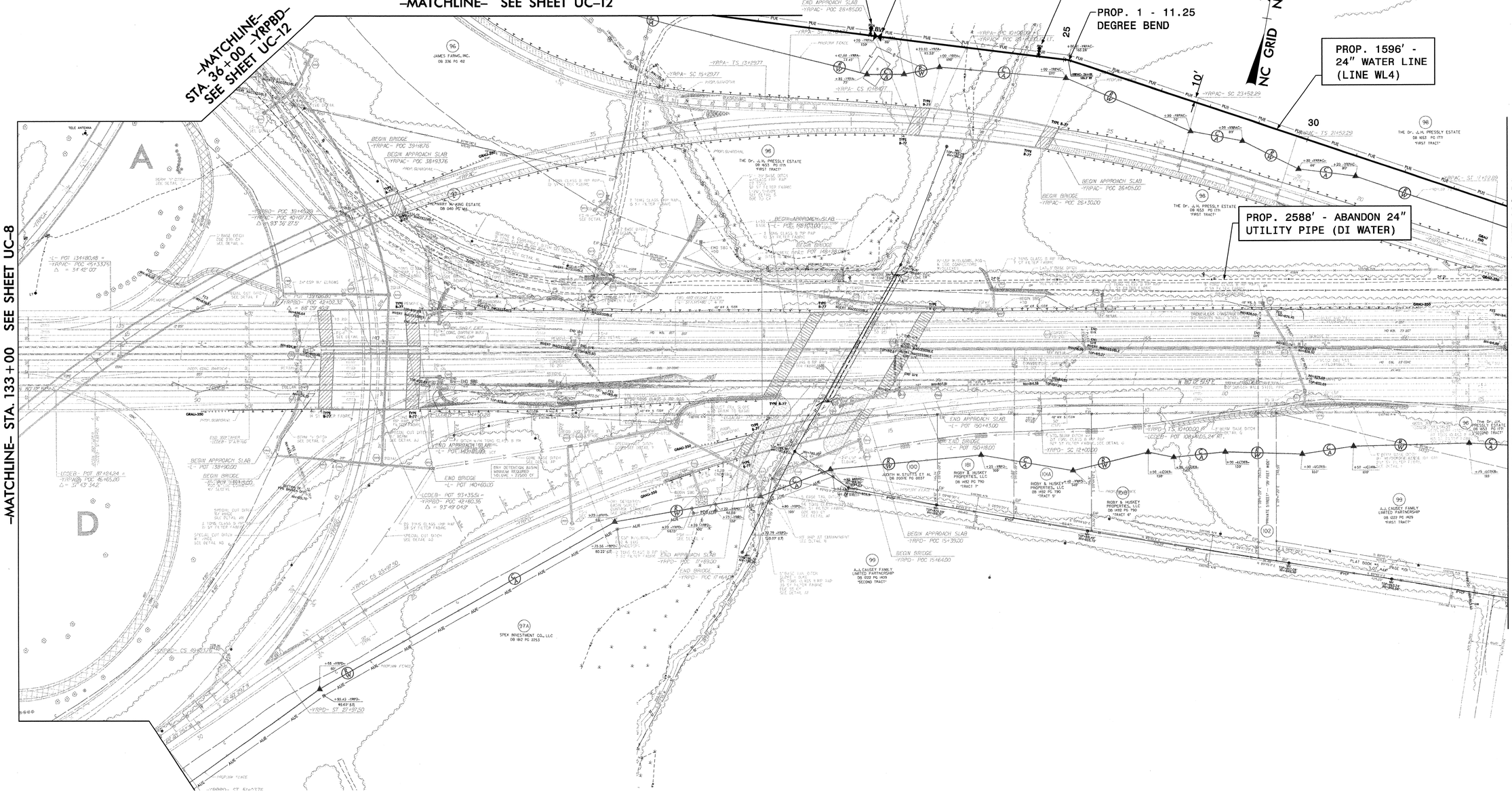
NC GRID NAD 83

-MATCHLINE- SEE SHEET UC-12

-MATCHLINE- STA. 36+00 -YRPBD- SEE SHEET UC-12

-MATCHLINE- STA. 133+00 SEE SHEET UC-8

-MATCHLINE- STA. 162+00 SEE SHEET UC-10


A
D
95 JAMES FARMS, INC. DB 336 PG 62
96 THE Dr. J.H. PRESSLEY ESTATE DB 1653 PG 171 "FIRST TRACT"
98 THE Dr. J.H. PRESSLEY ESTATE DB 1653 PG 171 "FIRST TRACT"
97 MARY W. KING ESTATE DB 0410 PG 185
97A SPEK INVESTMENT CO., LLC DB 1812 PG 2753
99 A.J. CAUSEY FAMILY LIMITED PARTNERSHIP DB 1222 PG 1409 "SECOND TRACT"
99 A.J. CAUSEY FAMILY LIMITED PARTNERSHIP DB 1222 PG 1409 "FIRST TRACT"
100 JUDITH M. STUTTS ET AL DB 2005 PG 0037
101 RICKY B. HUSKEY PROPERTIES, LLC DB 1452 PG 790 "TRACT 7"
101A RICKY B. HUSKEY PROPERTIES, LLC DB 1452 PG 790 "TRACT 5"
101B RICKY B. HUSKEY PROPERTIES, LLC DB 1452 PG 790 "TRACT 6"
102 PRIVATE STREET - 39' FREE WIDE
END BRIDGE -YRPAC- POC 28+40.00
END APPROACH SLAB -YRPAC- POC 28+85.00
BEGIN BRIDGE -YRPAC- POC 39+18.76
BEGIN APPROACH SLAB -YRPAC- POC 38+93.76
BEGIN APPROACH SLAB -YRPAC- POC 26+40.00
BEGIN BRIDGE -YRPAC- POC 26+73.00
END APPROACH SLAB -L- POT 150+45.00
END BRIDGE -L- POT 150+80.00
BEGIN APPROACH SLAB -L- POT 138+90.00
BEGIN BRIDGE -L- POT 139+25.00
END BRIDGE -L- POT 140+60.00
END APPROACH SLAB -L- POT 140+95.00
BEGIN APPROACH SLAB -YRPD- POC 154+39.20
BEGIN BRIDGE -YRPD- POC 151+64.00
END BRIDGE -YRPD- POC 174+89.20
END APPROACH SLAB -YRPD- POC 175+24.20
-YRPA- TS 154+29.77
-YRPA- SC 154+29.77
-YRPA- CS 161+84.77
-YRPAC- SC 234+52.29
-YRPAC- ST 242+89.29
-YRPD- TS 1040+00.00
-YRPD- SC 1040+00.00
-YRPD- CS 1084+55.24
-YRPD- ST 1089+55.24
-YRPD- CS 69+83.20
-YRPD- ST 71+91.50
-YRPBD- POC 45+33.20
-YRPBD- POC 45+40.73
-YRPBD- POC 46+46.20
-YRPBD- POC 47+53.20
-YRPBD- POC 48+02.32
-YRPBD- POC 48+29.40
-YRPBD- POC 49+07.73
-YRPBD- POC 49+36.21
-YRPBD- POC 50+43.20
-YRPBD- POC 50+50.32
-YRPBD- POC 51+28.32
-YRPBD- POC 51+57.32
-YRPBD- POC 52+07.32
-YRPBD- POC 52+29.40
-YRPBD- POC 52+65.32
-YRPBD- POC 53+02.32
-YRPBD- POC 53+29.40
-YRPBD- POC 53+65.32
-YRPBD- POC 54+02.32
-YRPBD- POC 54+33.20
-YRPBD- POC 54+40.73
-YRPBD- POC 54+46.20
-YRPBD- POC 54+53.20
-YRPBD- POC 55+02.32
-YRPBD- POC 55+29.40
-YRPBD- POC 55+65.32
-YRPBD- POC 56+02.32
-YRPBD- POC 56+29.40
-YRPBD- POC 56+65.32
-YRPBD- POC 57+02.32
-YRPBD- POC 57+29.40
-YRPBD- POC 57+65.32
-YRPBD- POC 58+02.32
-YRPBD- POC 58+29.40
-YRPBD- POC 58+65.32
-YRPBD- POC

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-10

SCALE: 25 0 50

NOTE:
ALL WATER MAINS 6" DIA.
AND LARGER SHALL BE D.I.

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

NC GRID NAD 83

NORTH CAROLINA SEAL 023965 ENGINEER LARRY W. MITCHELL
12-15-2010

UTILITY CONSTRUCTION

PROP. 445' - 24" WATER LINE
1 - 24" VALVE
(LINE WL4)

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1 - 22.5 DEGREE BEND

PROP. 414' - ABANDON 24" UTILITY PIPE (DI WATER)

-MATCHLINE- STA. 162+00 -L- SEE SHEET UC-9

-MATCHLINE- STA. 176+00 -L- SEE SHEET UC-11

98 THE Dr. J. H. PRESSLY ESTATE DB 1653 PG 1771 "FIRST TRACT"

98 The Dr. J.H. PRESSLY ESTATE DB 1653 PG 1771 "SECOND TRACT"

99 A.J. CAUSEY FAMILY LIMITED PARTNERSHIP DB 1222 PG 1409 "FIRST TRACT"

103 ROBERT B. CASHION, ET. AL. DB 726 PG 958

104 JAMES RENTALS, LLC. DB 1714 PG 271 DB 760 PG 854

105 VOLK FAMILY LIMITED PARTMERSHIP DB 1177 PG 2053

105A MATHURDAS MAHIDAS KOTHADIA DB 985 PG 2004 "TRACT 2"

-YRPAC- POT 10+00.00 = -L- POT 168+75.00, 60' LT. Δ = 2°18'

-YRPAC- SC 13+20.00

TS 11+20.00

-LCDEB- PC 120+00.31

-LCDEB- PRC 124+46.15

-LCDEB- PT 128+91.98 = -L- POT 175+41.24, 48' RT.

N 80°12'51.5" E

S 82°30'51.5" W

N 89°36'19" E

N 55°10'08" E

S 02°39'56" E

S 89°08'25" W

PROP. 10' PUE

PROP. 35' PUE

PROP. WW FENCE

EXISTING R/W

72"CHL & 35BW

48" WW & 15BW

24" DI

15" RCP

PROP. CONC. BARRIER

SPECIAL CUT DITCH W/ RIPRAP SEE DETAIL A

STANDARD BERM DITCH SEE DETAIL Z

END 30'-LT TAPER -LCDEB- STA.11+40

410 BERM DITCH W/ 12 TONS GLASS B RIP RAP 277 SY FILTER FABRIC SEE DETAIL C

3 TONS CLASS B RIP RAP 10 SY FILTER FABRIC

REMOVE EXIST. DI W/ ELBOWS

CONNECT TO EXIST. DI

CURB & GUTTER TO DRAIN

ISBLKBUS

ISMTLBUS

BST

CONC

GR

GUY

EIP

EIPP

MH

Prepared by:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819AJTI_UC10.dgn

NC GRID NAD 83

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

PROP. 1 - RELOCATE FIRE HYDRANT

ALL SEWER LINES AND 24" WATER LINES OWNED BY THE CITY OF STATESVILLE.
6" AC WATER LINE OWNED BY IREDELL WATER CORPORATION

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-11

SCALE: 25 0 50

NORTH CAROLINA SEAL 023965 ENGINEER LARRY W. MITCHELL

12-15-2010

UTILITY CONSTRUCTION

–MATCHLINE– STA. 176+00 –L– SEE SHEET UC-10

–MATCHLINE– STA. 190+00 –L–

PROP. 15' - 4" SANITARY GRAVITY SEWER

PROP. 1 - 4' DIA. UTILITY MANHOLE C1
STA. 0+00.00, LINE C
53.68' LT. OF -Y10A- STA. 11+97.68

PROP. 42' - 6" SANITARY GRAVITY SEWER

PROP. 1 - SANITARY SEWER CLEAN-OUT

PROP. 20.80' - 8" SANITARY GRAVITY SEWER (LINE C)

PROP. 1 - REMOVE UTILITY MANHOLE

PROP. 1 - SANITARY SEWER CLEAN-OUT

PROP. 1 - RELOCATE WATER METER

PROP. 1 - 22.5 DEGREE BEND

PROP. 185' - 6" WATER LINE

PROP. 1 - RELOCATE WATER METER

PROP. 2 - 11.25 DEGREE BEND

ABANDON

Prepared by:

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919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UC11.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-12

SCALE: 50 0 100

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 023965 LARRY W. MITCHELL
Larry W. Mitchell
12-15-2010

UTILITY CONSTRUCTION

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

NC GRID NAD 83

-MATCHLINE- STA. 161+00 -Y- SEE SHEET UC-13

PROP. 2 - 45 DEGREE BEND

PROP. 1250' - ABANDON 8" UTILITY PIPE (DI WATER)

PROP. 2 - 22.5 DEGREE BEND

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1170' - 8" WATER LINE

PROP. 1365' - ABANDON 24" UTILITY PIPE (DI WATER)

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1368' - 24" WATER LINE (LINE WL4)

PROP. 2 - 45 DEGREE BEND

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1 - 45 DEGREE BEND

-MATCHLINE- STA. 24+00 -YRPBD- SEE SHEET UC-8

-MATCHLINE- STA. 147+00 -Y- SEE SHEET UC-8

-MATCHLINE- STA. 36+00 -YRPBD- SEE SHEET UC-9

-MATCHLINE- SEE SHEET UC-9

DOOSAN INTERNATIONAL USA, INC. DB 1906 PG 278-280

JAMES FARMS, INC. DB 336 PG 46

THE Dr. & Mr. PRESSLY ESTATE DB 1653 PG 171 "FIRST TRACT"

Prepared by:

AECOM

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919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UI_UC12.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-13

SCALE: 25 0 50

NORTH CAROLINA — LARRY W. MITCHELL — SEAL 023965 — ENGINEER — Larry W. Mitchell — 12-15-2010

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

NC GRID NAD 83

UTILITY CONSTRUCTION

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

-MATCHLINE- STA. 161+00 -Y- SEE SHEET UC-12

-MATCHLINE- STA. 175+00 -Y-

95
DOOSAN INTERNATIONAL USA, INC.
DB 1906 PG 2178-2180

176
CONGRESS STATESVILLE, LLC
DB 1532 PG 1446

96
JAMES FARMS, INC.
DB 336 PG 412

-Y5- POT 73+84.77

SR 2187 GLENWAY DR 24" BST

PROP. 112' - ABANDON 24" UTILITY PIPE (DI WATER)

PLUG

TIE TO EXIST. 24" WATER LINE

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 442' - 24" WATER LINE (LINE WL4) 1 - 24" VALVE

PROP. 2 - 45 DEGREE BEND

CAT-1

Prepared by:

AECOM

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701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UC13.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-14

SCALE: 25 0 50

NORTH CAROLINA — Larry W. Mitchell — SEAL 023965 — ENGINEER — LARRY W. MITCHELL

12-15-2010

UTILITY CONSTRUCTION

NC GRID | NAD 83

NOTE:
ROTATE EXISTING MANHOLE CONE SECTIONS TO AVOID PROPOSED CONCRETE CURB AND GUTTER OR FORM CURB AND GUTTER AROUND RING AND COVER IF ROTATION OF CONE SECTION WILL NOT RESOLVE CONFLICT. CONTRACTOR TO DETERMINE OPTION TO USE BY FIELD INVESTIGATION. MANHOLES AFFECTED ARE: STA. 16+98.88, 18+01.14, 18+06.56, 18+90.65 AND 19+04.56 LT.

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

PROP. 214' - ABANDON 8" UTILITY PIPE (VC SEWER)

PROP. 1 - RELOCATE WATER METER

PROP. 145.44' - 8" SANITARY GRAVITY SEWER (LINE D)

PROP. 34' - ABANDON 12" UTILITY PIPE (DI WATER)

PROP. 40' - 12" WATER LINE

PROP. 4 - 45 DEGREE BEND

EXISTING UTILITY MANHOLE D1
STA. 0+00.00, LINE D
36.84' LT. OF -Y4-
STA. 19+04.56

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 5 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 36' - ABANDON 12" UTILITY PIPE (DI WATER)

PROP. 40' - 12" WATER LINE

PROP. 4 - 45 DEGREE BEND

PROP. 1 - 4' DIA. UTILITY MANHOLE
14.97' RT. OF -Y4- STA. 19+82.00
PROP. TOP 790.76
EXIST. INV. 783.49

-MATCHLINE- STA. 20+50.00 -Y4- SEE SHEET UC-6

BEGIN CONSTRUCTION -Y4- POT 10+90.00

-Y4- POT 10+00.00

-Y4A- POT 13+50

RICHARD P. CANNON
DB 586 PG 323
DB 381PG 169

SULLIVAN SQUARE, INC.
DB 1041 PG 1162

SHANER HOTEL GROUP LIMITED PARTNERSHIP
DB 981 PG 816

BRANCH BANKING & TRUST COMPANY
DB 785 PG 691
DB 785 PG 696
DB 785 PG 693

SULLIVAN ROAD PARTNERS
DB 947 PG 822

SULLIVAN ROAD PARTNERS
DB 942 PG 223

KENKAYLA REAL ESTATE LLC
DB 1876 PG 818
PB 52 PG 113
LOT 2B

KENKAYLA REAL ESTATE LLC
DB 1876 PG 818
PB 52 PG 113
LOT 2A

J B HARRISON PROPERTIES, LLC
DB 1822 PG 1116
'LOT "I"

MRS. W. S. HUNTER
DB 469 PG 191

H. McMAHON, JR.
DB 81[illegible]

AVANT NC, LLC
DB 1789 PG 589

CITY OF STATESVILLE
DB 600 PG 706
DB 560 PG 369

MH TOP=824.48' INV=810.68

MH TOP=825.16' INV=817.23'

MH TOP=823.04' INV=810.14'

MH TOP=821.77' INV=809.57'

MH TOP=790.93' INV=785.20'

MH TOP=788.18' INV=778.03'

MH TOP=838.64' INV=831.49'

Prepared by:

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919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819AJR_UC14.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-15

SCALE: 25 0 50

NORTH CAROLINA SEAL 023965 ENGINEER LARRY W. MITCHELL
Larry W. Mitchell
12-15-2010

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

UTILITY CONSTRUCTION

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

NC GRID NAD 83

-MATCHLINE- STA. 15+00.00 -Y8- SEE SHEET UC-16

-MATCHLINE- STA. 35+00.00 -Y4- SEE SHEET UC-16

-MATCHLINE- STA. 14+50.00 -Y5- SEE SHEET UC-16

-MATCHLINE- STA. 18+50.00 -Y5- SEE SHEET UC-7

-MATCHLINE- STA. 30+00.00 -Y4- SEE SHEET UC-6

PROP. 1 - RECONNECT WATER METER

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1 - RECONNECT WATER METER

PROP. 1 - 90 DEGREE BEND

PROP. 555' - 6" WATER LINE

PROP. 3 - RELOCATE WATER METER

PROP. 1 - 22.5 DEGREE BEND

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1 - REMOVE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE WATER METER

Prepared by:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UC15.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-16

SCALE: 25 0 50

NORTH CAROLINA
Larry W. Mitchell
SEAL
023965
ENGINEER
LARRY W. MITCHELL
12-15-2010

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

UTILITY CONSTRUCTION

NOTE:
ALL WATER MAINS 6" DIA. AND LARGER SHALL BE D.I.

NC GRID NAD 83

PROP. 2 - 45 DEGREE BEND

PROP. 1 - RELOCATE WATER METER

PROP. 1 - RELOCATE FIRE HYDRANT

PROP. 1 - RELOCATE WATER METER

PROP. 340' - 6" WATER LINE 1 - 6" VALVE

PROP. 1 - 2" BLOW OFF

PROP. 1 - RELOCATE WATER METER

PROP. 605' - ABANDON 24" UTILITY PIPE (DI WATER)

PROP. 614' - 24" WATER LINE 1 - 24" VALVE (LINE WL3)

PROP. 2 - 22.5 DEGREE BEND

PROP. 1 - RELOCATE WATER METER

-MATCHLINE- STA. 15+00.00 -Y8- SEE SHEET UC-15

-MATCHLINE- STA. 35+00.00 -Y4- SEE SHEET UC-15

-MATCHLINE- STA. 14+50.00 -Y5- SEE SHEET UC-15

Prepared by:

AECOM

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701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UT_UC16.dgn

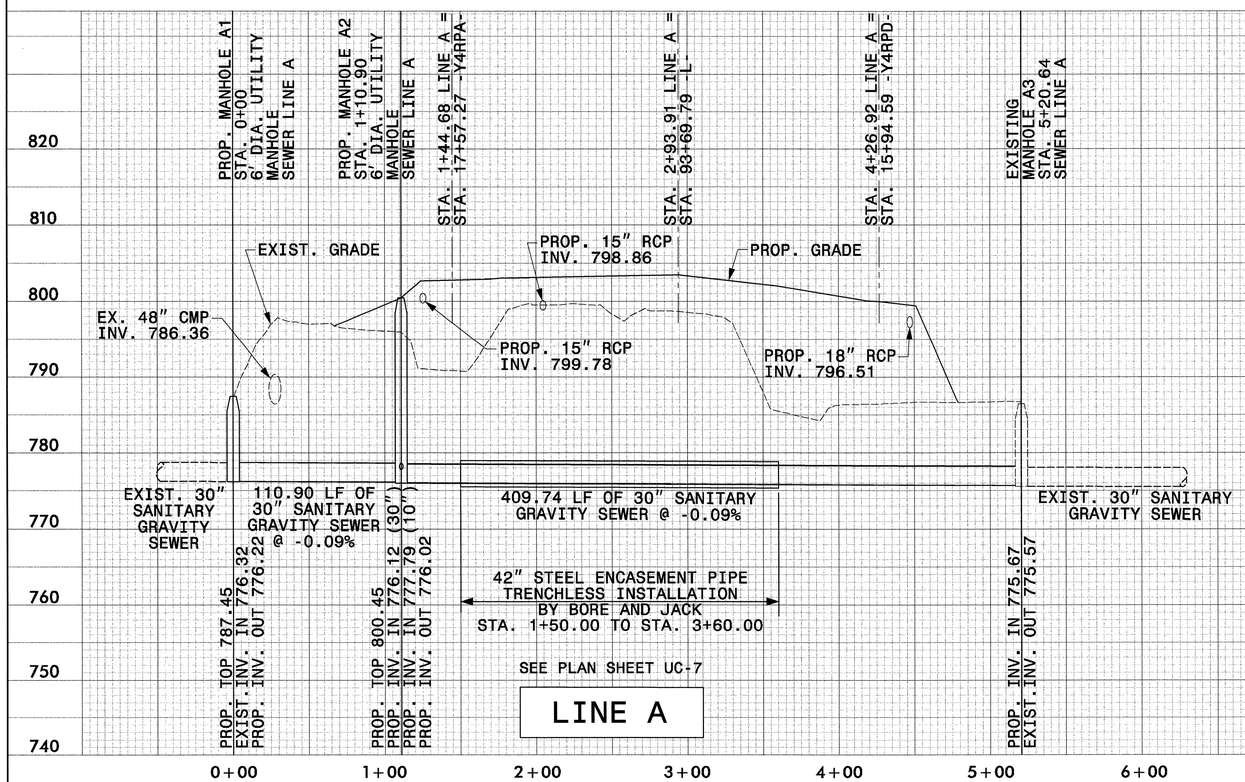
ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

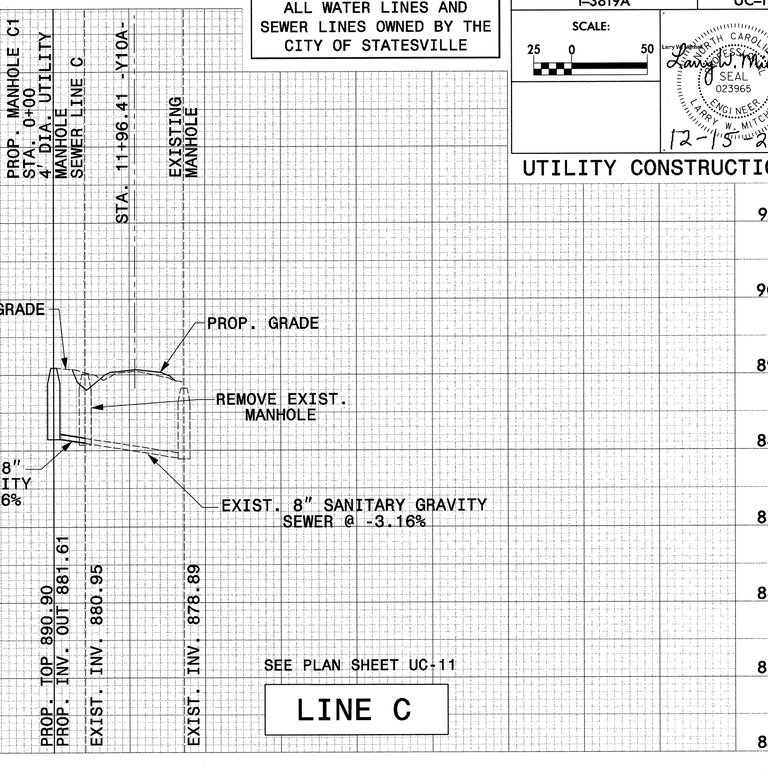
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-17

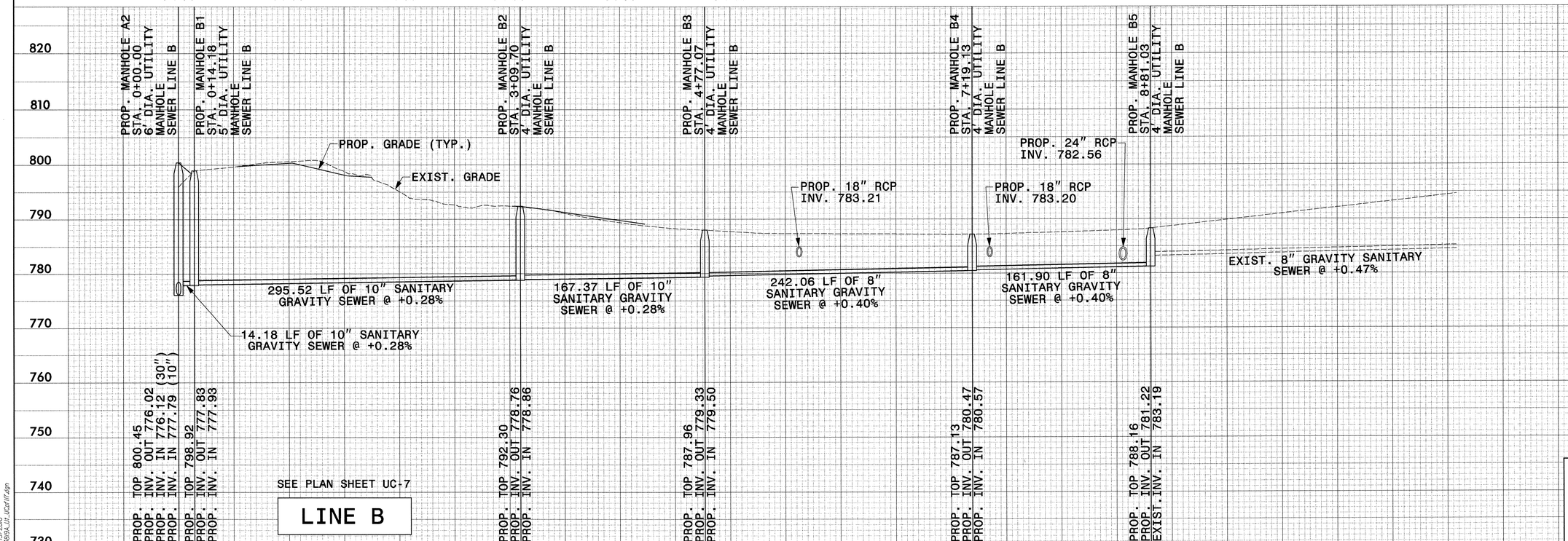
SCALE: 25 0 50

NORTH CAROLINA — LARRY W. MITCHELL — SEAL 023965 — ENGINEER — 12-15-2010

UTILITY CONSTRUCTION







Prepared by:

AECOM

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919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UC_Profile.dgn

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

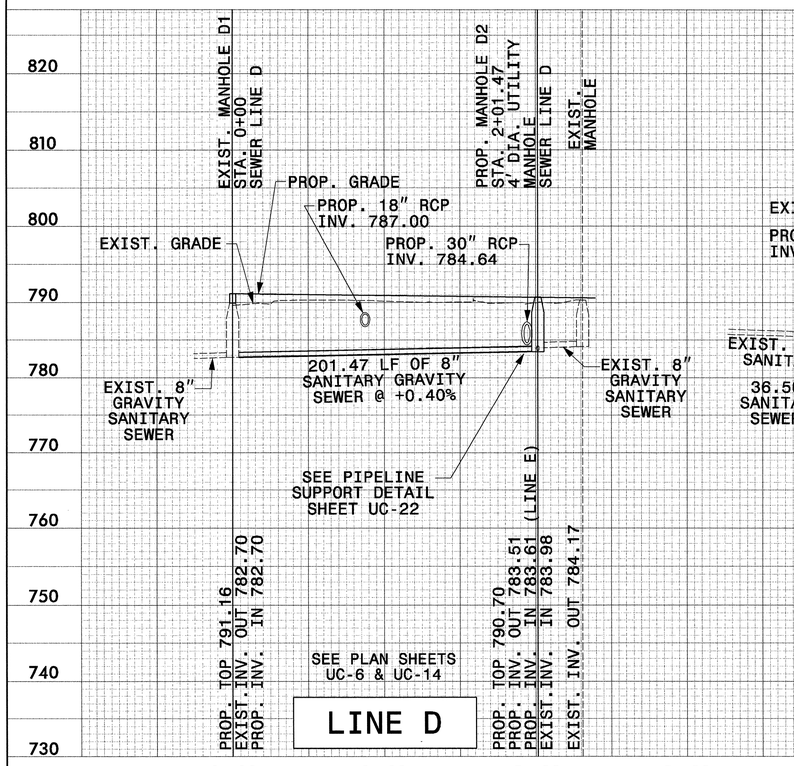
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-18

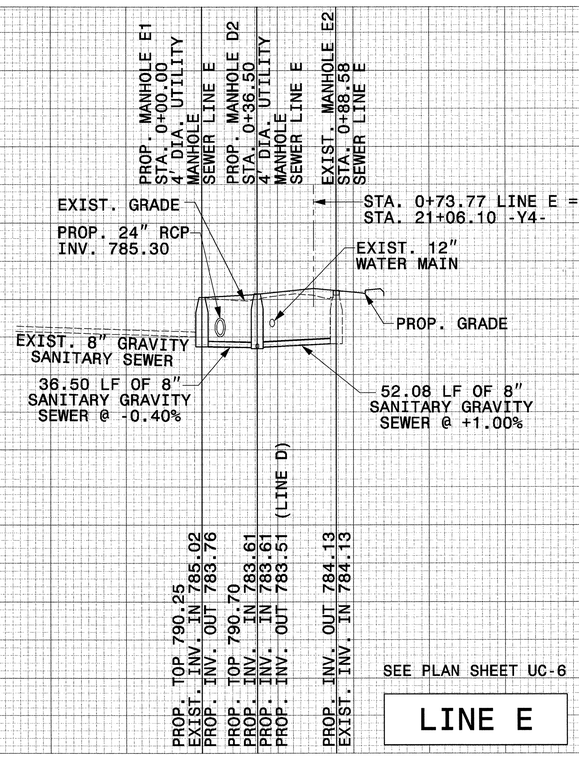
SCALE: 25 0 50

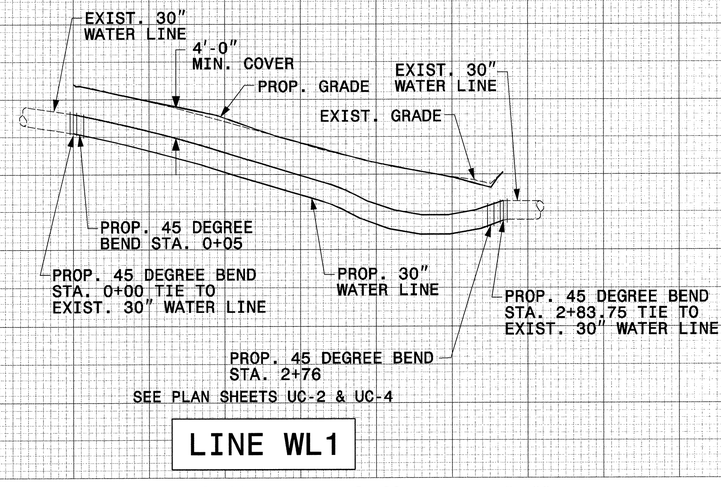
NORTH CAROLINA SEAL 023965 ENGINEER LARRY W. MITCHELL

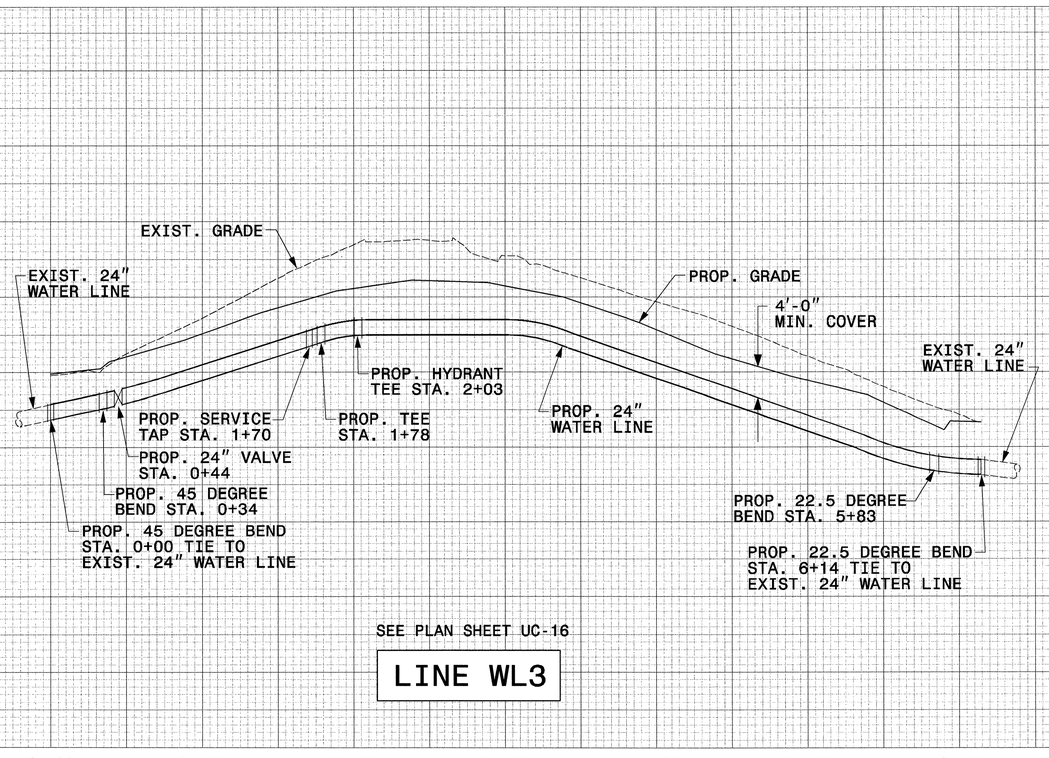
12-15-2010

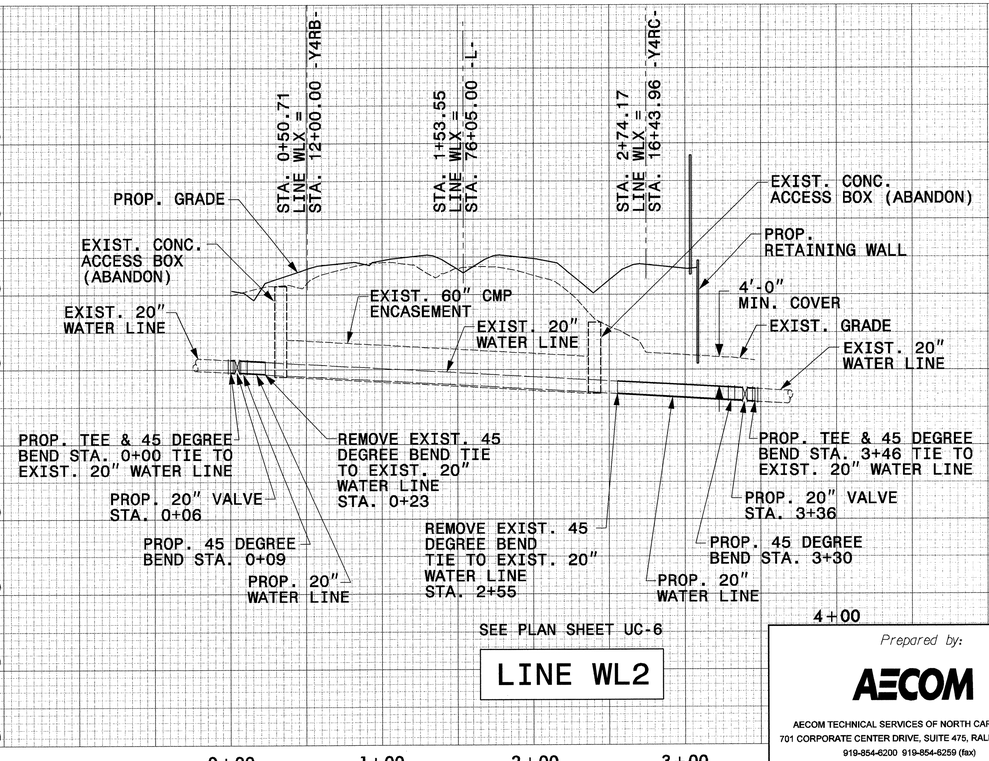
UTILITY CONSTRUCTION











Prepared by:

AECOM

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701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 10/15/2010
DGN: I-3819A_UT_UCsht18.dgn

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

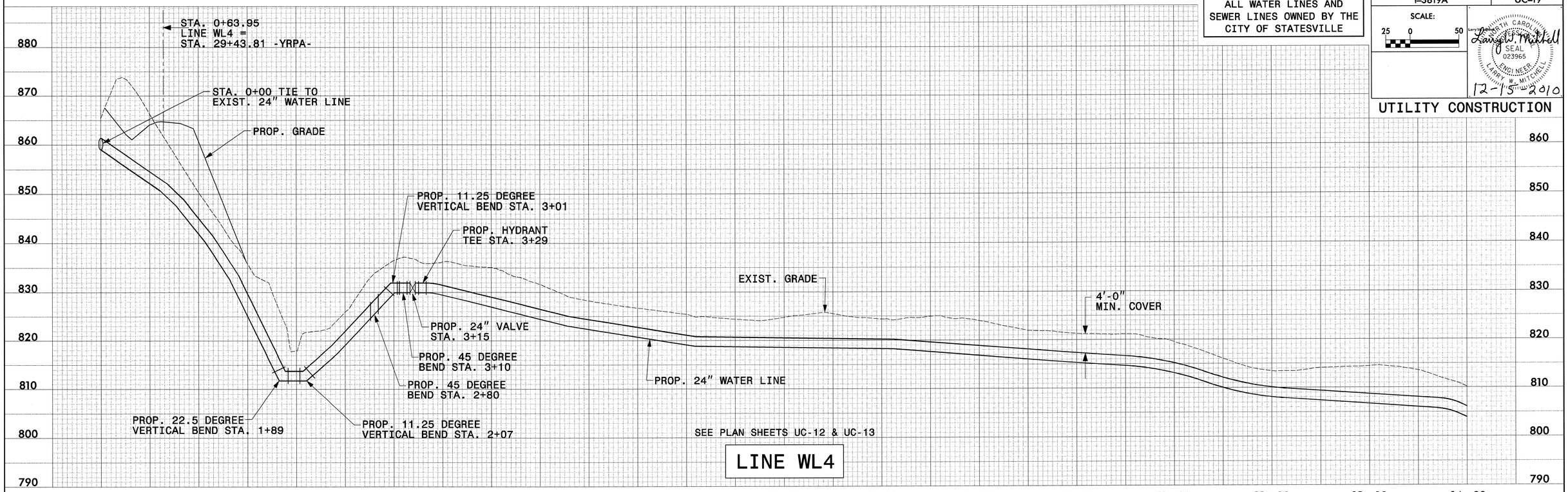
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-19

SCALE: 25 0 50

NORTH CAROLINA — Larry W. Mitchell — SEAL 023965 — ENGINEER — LARRY W. MITCHELL

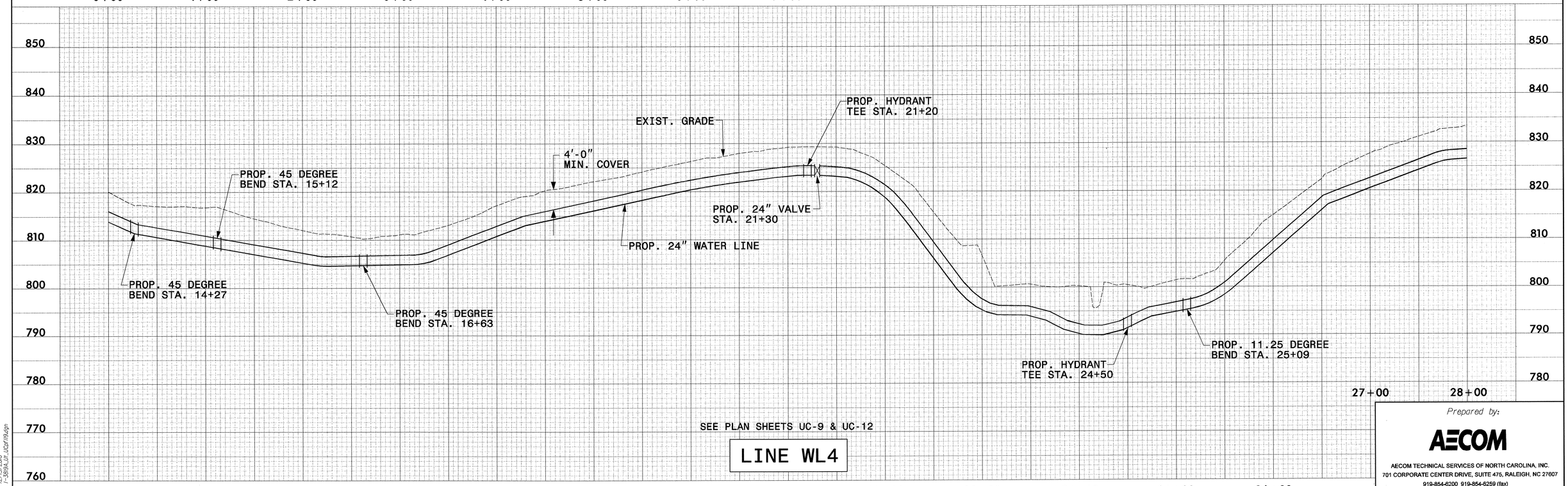
12-15-2010

UTILITY CONSTRUCTION



SEE PLAN SHEETS UC-12 & UC-13

LINE WL4



SEE PLAN SHEETS UC-9 & UC-12

LINE WL4

Prepared by:

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919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UI_UCsht19.dgn

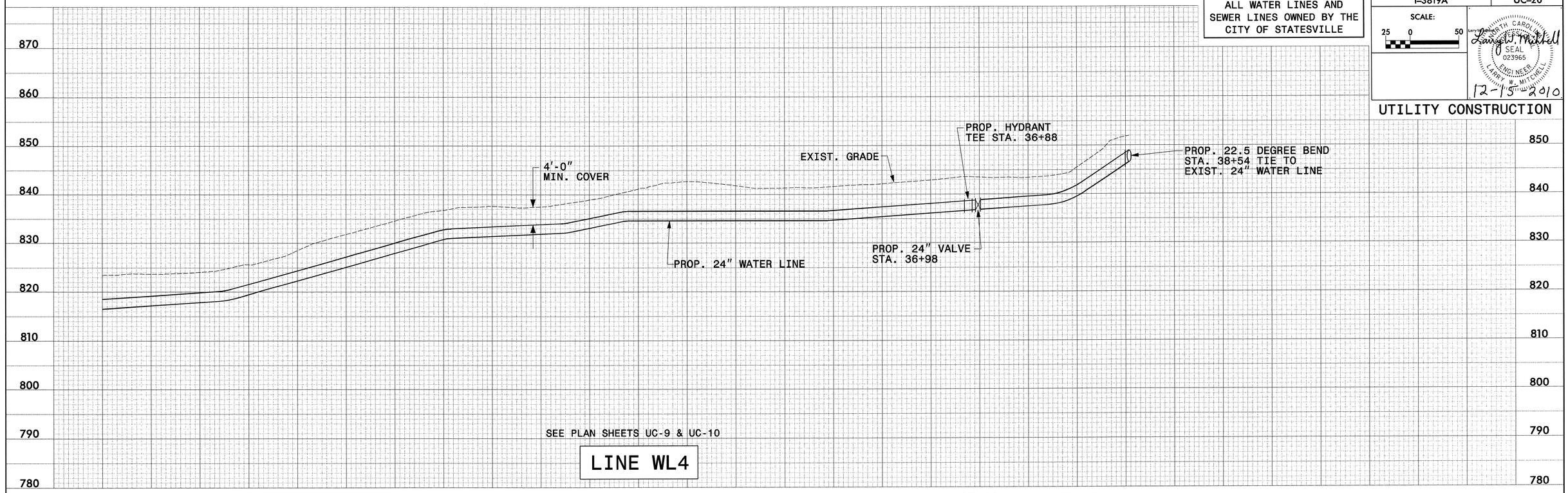
ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF STATESVILLE

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-20

SCALE: 25 0 50

NORTH CAROLINA PROFESSIONAL SEAL 023965 ENGINEER LARRY W. MITCHELL
Larry W. Mitchell
12-15-2010

UTILITY CONSTRUCTION



SEE PLAN SHEETS UC-9 & UC-10

LINE WL4

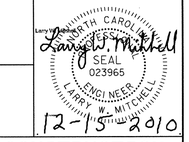
Prepared by:

AECOM

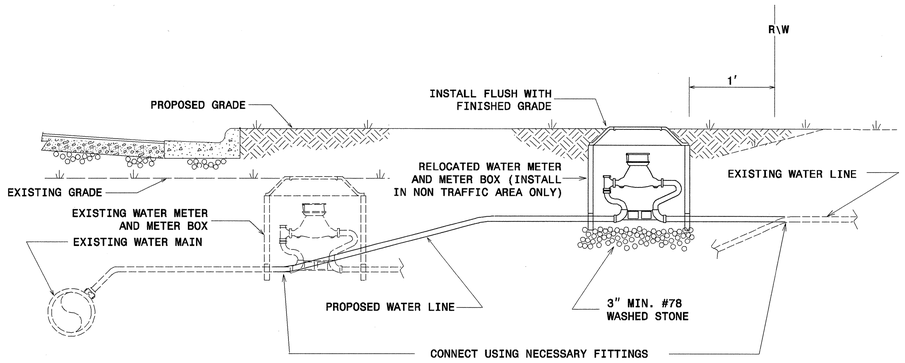
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

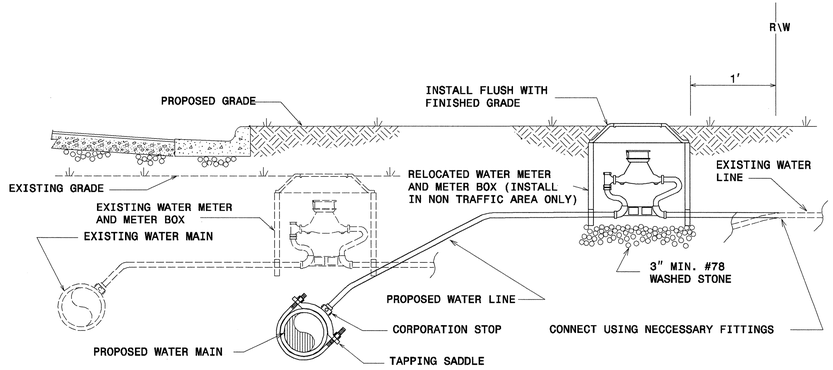
DATE: 12/15/2010
DGN: I-3819A_UC_Conf120.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-21



UTILITY CONSTRUCTION

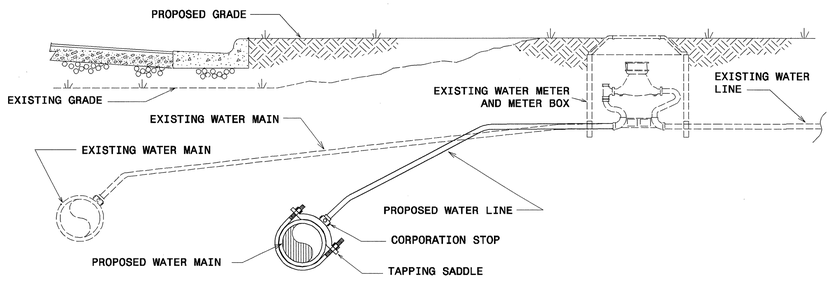




NOTES:

1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUN OF 3' COVER BELOW FINISHED GRADE.
4. THE OWNER RESERVES THE RIGHT TO ADD OR DELETE WATER SERVICE TAPS AND TO CHANGE LOCATIONS FROM THOSE SHOWN.

WATER METER RELOCATION DETAILS

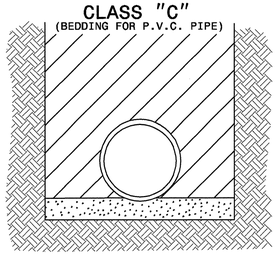


NOTES:

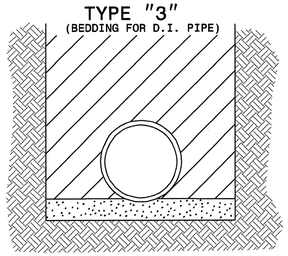
1. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
2. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 3' COVER BELOW FINISHED GRADE.

RECONNECT EXISTING WATER METER DETAIL

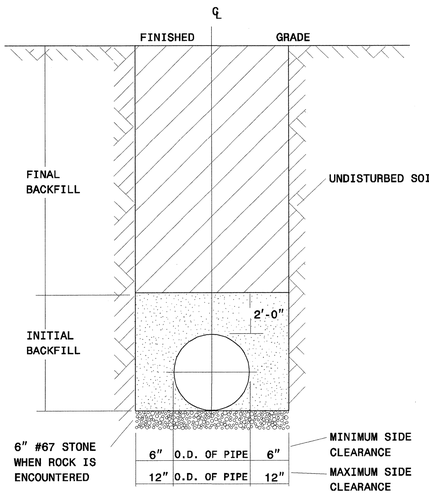
MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (inches)	TRENCH WIDTH (inches)	NOMINAL PIPE SIZE (inches)	TRENCH WIDTH (inches)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



PIPE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



PIPE BEDDED IN 4" MINIMUM LOOSE SOIL. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



TRENCH & BACKFILL DETAIL

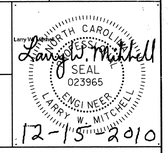
Prepared by:

AECOM

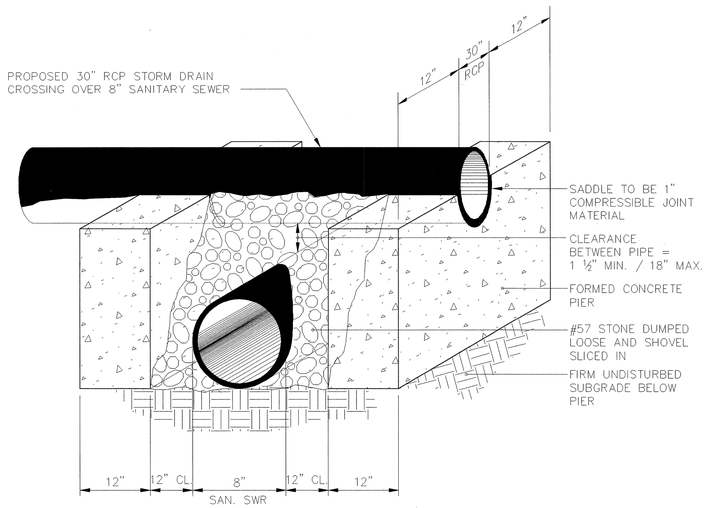
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 12/15/2010
DGN: I-3819A_UC21.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UC-22



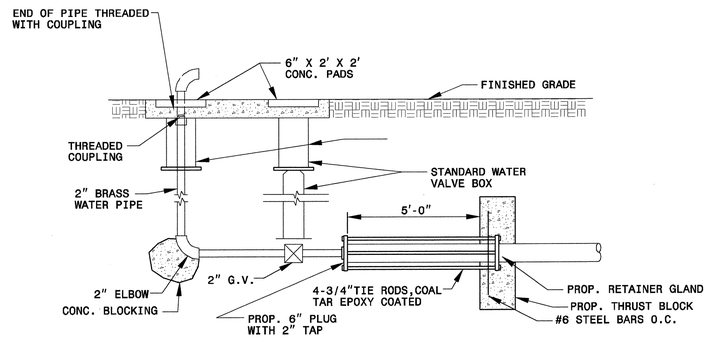
UTILITY CONSTRUCTION



PIPELINE SUPPORT DETAIL
8" SANITARY SEWER "LINE D"
STA. 1+92 +/-

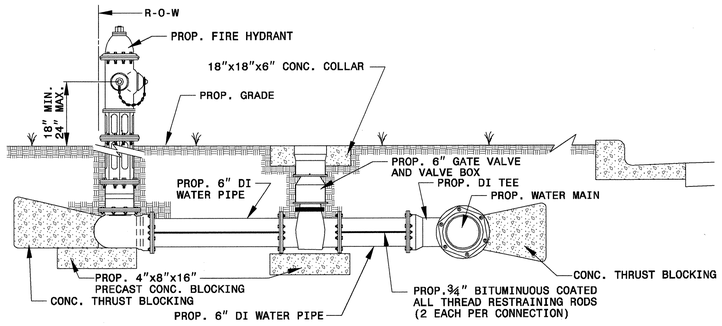
(SEE PLAN SHEET UC-6, PROFILE SHEET UC-18)

NTS



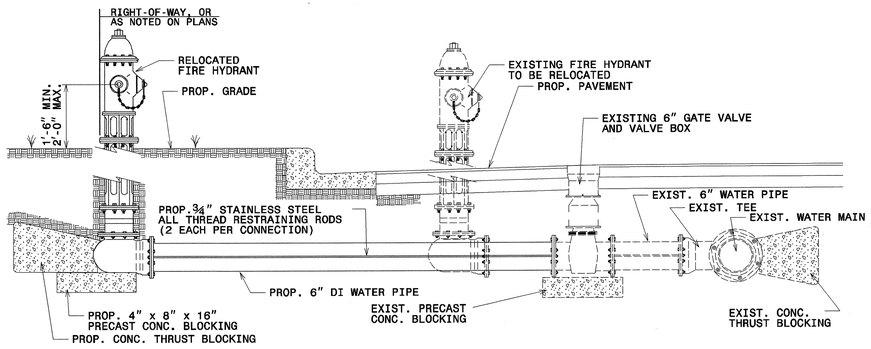
2" BLOW OFF ASSEMBLY

NTS



FIRE HYDRANT INSTALLATION DETAIL (UNPAVED AREAS)

NTS



FIRE HYDRANT RELOCATION DETAIL

NTS

Prepared by:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

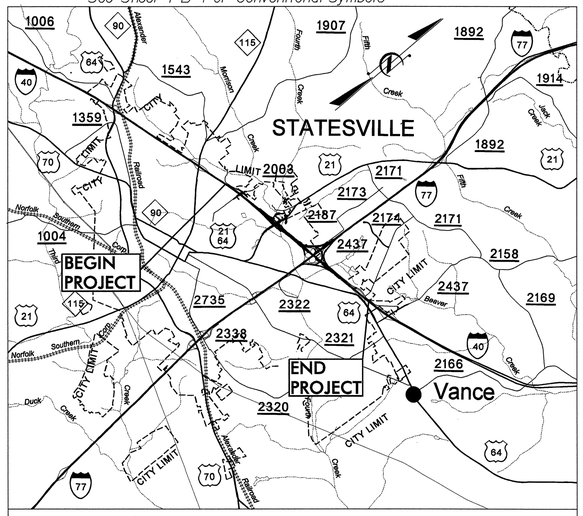
DATE: 12/15/2010
DGN: I-3819A_UT_UC22.dgn

09/08/99

TIP PROJECT: I-3819A

PROJECT: 34192.1.2

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF STATESVILLE

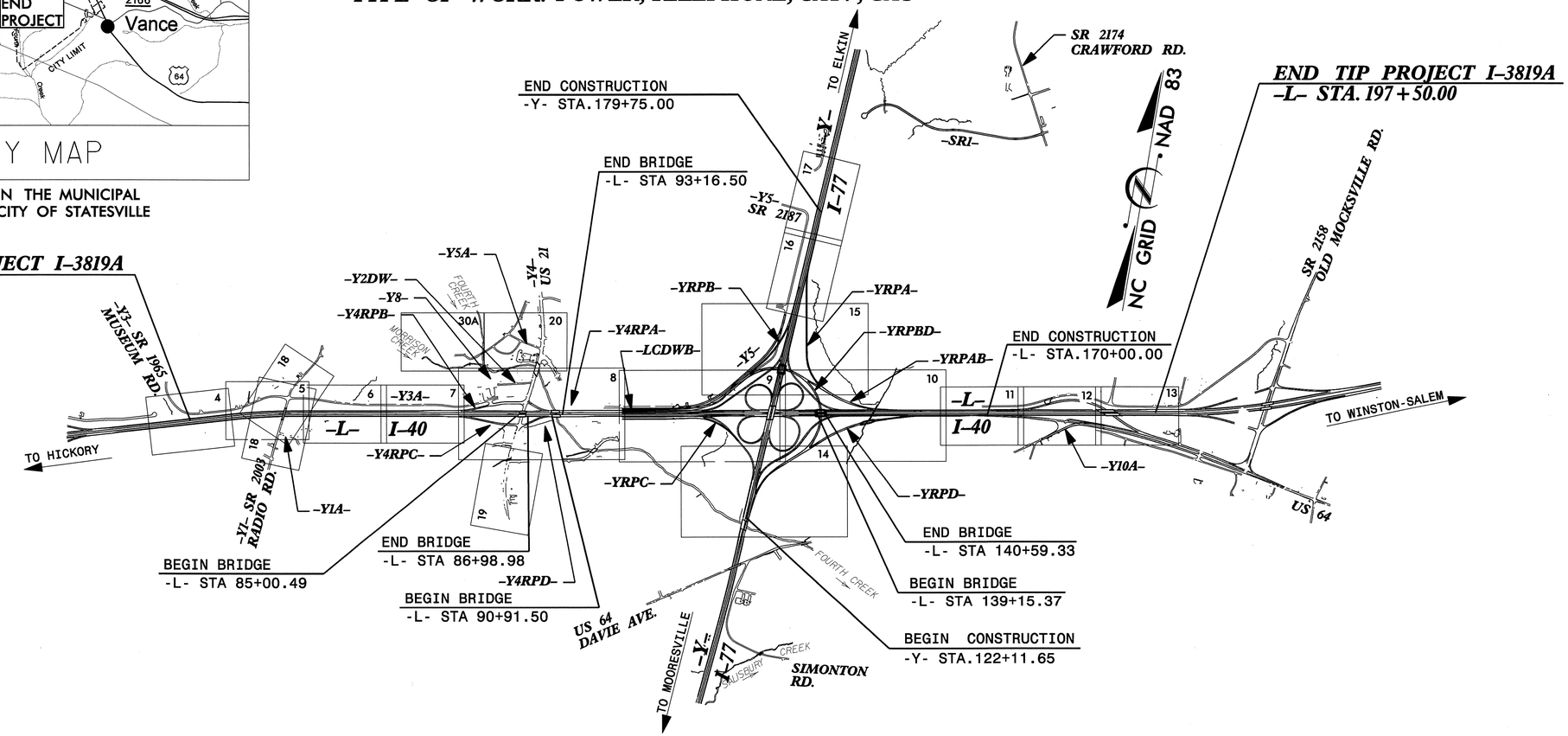
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
I-3819A	UO-1

UTILITIES BY OTHERS PLANS
IREDELL COUNTY

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 FROM WEST OF SR 2003 (Radio Rd.) TO WEST OF SR 2158 (Old Mocksville Rd.) & I-77 FROM SOUTH OF I-40 TO SOUTH OF SR 2171 (Jane Sower Rd.)

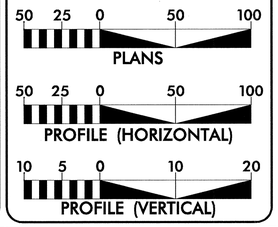
TYPE OF WORK: POWER, TELEPHONE, CATV, GAS



THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.	*DESCRIPTION*
UO-1	*TITLE SHEET*
UO-2 & 3	*OMITTED*
UO-4 THRU UO-20	*UTILITY BY OTHERS PLAN SHEETS*

UTILITY OWNERS ON PROJECT

(1) CITY OF STATEVILLE - POWER
(2) DUKE ENERGY - POWER (DISTRIBUTION)
(3) DUKE ENERGY - POWER (TRANSMISSION)
(4) ENERGY UNITED - POWER
(5) AT&T (BELLSOUTH) - TELEPHONE
(6) TIME WARNER CABLE - CATV
(7) PUBLIC SERVICE (PSNC) - GAS

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: DECEMBER 19, 2008

LETTING DATE: JUNE 19, 2012

Prepared In the Office of:

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

BASE MAPPING AND ROADWAY DESIGN PLANS SHOWN HEREON WERE FURNISHED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

12/21/2011
M:\projects\2008\08116_NCDOTUtilityCoordX\COL_I-3819A\Design\Utilities\Rdy_Ut\Proj\13819a_UB0_tsh.dgn
bbadey

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-4

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

PLANS PREPARED BY :

RK&K

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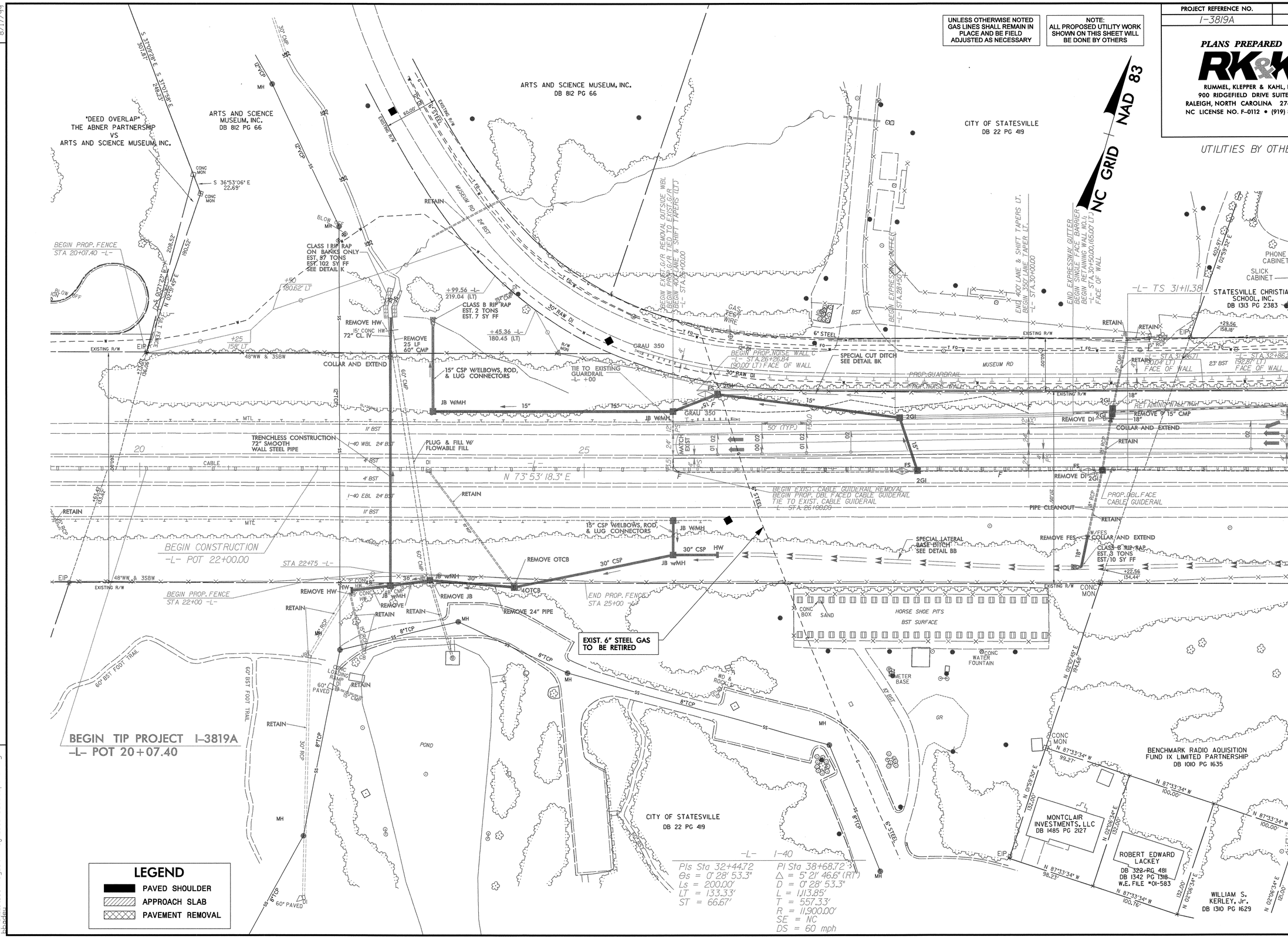
UTILITIES BY OTHERS



-MATCHLINE- STA. 33+00.00 -L- SEE SHEET NO. UO-5

REVISIONS

8/17/99

12/1/2011
R:\Utilities\Rdy_Ut\Proj\i3819a_UBO_psh04.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	U0-5

PLANS PREPARED BY :

RK&K

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NC LICENSE NO. F-0112 • (919) 878-9560

NOTE:
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UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

UTILITIES BY OTHERS

REVISIONS

65/178

-L- I-40

PI Sta 32+44.72
θs = 0° 28' 53.3"
Ls = 200.00'
LT = 133.33'
ST = 66.67'

PI Sta 38+68.72
Δ = 5° 21' 46.6" (RT)
D = 0° 28' 53.3"
L = 1,113.85'
T = 557.33'
R = 11,900.00'
SE = NC
DS = 60 mph

PI Sta 44+91.90
θs = 0° 28' 53.3"
Ls = 200.00'
LT = 133.33'
ST = 66.67'

-Y1-

PI Sta 25+18.43
Δ = 26° 07' 34.4" (RT)
D = 10° 44' 58.8"
L = 243.04'
T = 123.67'
R = 533.00'
SE = 04
Runoff = 84'
DS = 40 mph

-Y3-

PI Sta 13+93.24
Δ = 28° 35' 24.5" (RT)
D = 8° 11' 06.4"
L = 349.29'
T = 178.36'
R = 700.00'
SE = 05
Runoff = 104'
DS = 40 mph

-Y3A-

PI Sta 14+82.64
Δ = 5° 41' 16.3" (RT)
D = 3° 00' 56.0"
L = 188.62'
T = 94.39'
R = 1,900.00'
SE = 03
Runoff = 63'
DS = 40 mph

-MATCHLINE- STA. 33+00.00 -L- SEE SHEET NO. UO-4

-MATCHLINE- STA. 25+50.00 -Y1- SEE SHEET NO. UO-18

-MATCHLINE- STA. 18+00.00 -Y1- SEE SHEET NO. UO-18

-MATCHLINE- STA. 47+00.00 -L- SEE SHEET NO. UO-6

NC GRID NAD 83

BEGIN CONSTRUCTION -Y3- POC 13+20.00

-Y3- POT 10+00.00

-L- SC 33+11.38

-L- STA. 34+64.01 (108.81' LT) FACE OF WALL

END 350' LANE TAPER (LT.) -L- STA. 33+50.00 (75.50') FACE OF WALL

-L- STA. 35+82.93 (108.73' LT) FACE OF WALL

BEGIN PROP. FENCE -L- STA. 36+96.68

END PROP. NOISE WALL C -L- STA. 39+08.42 (131.01' LT) FACE OF WALL

-L- STA. 38+19.41 (131.96' LT) FACE OF WALL

BEGIN 300' TAPER (LT.) -L- STA. 42+00.00

END PROP. FENCE STA. 42+42.09 -L-

END SINGLE FACED BARRIER END RETAINING WALL NO.1 -L- STA. 35+75.00 (75.5' LT.) FACE OF WALL

REMOVE EX. CABLE GUIDERAIL PROP. DBL. FACE CABLE GUIDERAIL

BEGIN BRIDGE -L- POT 42+30.00

BEGIN APPROACH SLAB -Y1- POT 19+06.12

END APPROACH SLAB -Y1- POT 21+79.21

END BRIDGE -Y1- POT 21+55.08

-Y1- PC 23+94.75

-Y1- POT 23+54.94 = -Y3- POT 17+59.15 = -Y3A- POT 10+34.69

END 304.4' TAPER (LT. & RT.) -Y3- STA. 16+24.40

-Y3- PC 12+14.88

BEGIN 304.4' TAPER (LT. & RT.) -Y3- STA. 13+89.84

-Y3- STA. 15+18.00

BEGIN PROP. FENCE -L- STA. 45+94.54

-L- POC 42+97.41 -Y1- POT 20+40.32

-L- CS 44+25.23

-L- ST 46+25.23

-Y3- STA. 16+24.40

BEGIN PROP. FENCE STA. 42+85.49 -L-

END 300' TAPER (LT.) -L- STA. 45+00.00

BEGIN PROP. NOISE WALL EIP -L- STA. 44+13.97 (134.43' RT.) FACE OF WALL

N 55°35'38.4" E

N 84°11'02.9" E

N 79°51'19.9" E

S 06°46'36" W 30.41'

S 06°46'36" W 103.69'

S 83°53'24" E 150.42'

S 06°46'36" W 94.39'

S 31°59'07" E 413.66'

S 55°56'46" E

S 06°46'36" W 55.00'

PROP. O/H POW & TEL LINES

PROP. O/H POW & CATV LINES

PROP. U/G POW & TEL LINES

EXISTING O/H POW & TEL LINES

EXISTING O/H POW & CATV LINES

EXISTING U/G POW & TEL LINES

EXISTING U/G POW & CATV LINES

PROP. UNDERGROUND TELEPHONE CABLE

ABANDON UNDERGROUND TELEPHONE CABLE

PROP. 8 INCH STEEL GAS MAIN BY DIRECTIONAL BORE

6" GAS MAIN TO BE ABANDONED

8" GAS MAIN TO REMAIN

NEW POLE W/LIGHT (CITY)

NEW POLE (CITY)

RETAIN POLE (CITY)

REMOVE

RETAIN

REMOVE FES

REMOVE DI

REMOVE 15" RCP

REMOVE CB

COLLAR AND EXTEND

SPECIAL CUT DITCH SEE DETAIL F

SPECIAL BERM 'V' DITCH SEE DETAIL BJ

SPECIAL LATERAL BASE DITCH SEE DETAIL BB

SPECIAL MEDIAN DITCH

LATERAL V DITCH SEE DETAIL BD

LATERAL DITCH SEE DETAIL BG

SPECIAL CUT DITCH SEE DETAIL BK

TOE PROTECTION SEE DETAIL D

NOISE WALL

RADIAL GROUND WIRES 7 GAGE COPPER (APPROXIMATE LOCATION)

15" CSP W/ELBOWS, ROD & LUG CONNECTORS TO EXIST. STR.

CLASS B RIP RAP EST. 2 TONS EXCAVATE TO 1' DEPTH

CLASS B RIP RAP EST. 3 TONS EST. 10 SY FF

CLASS B RIP RAP EST. 2 TONS SEE DETAIL N

CLASS B RIP RAP EST. 7 TONS EST. 70 SY FF

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1313 PG 2383

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1535 PG 1904

STATESVILLE CHRISTIAN SCHOOL INC. DB 1535 PG 1904

WESTERN AVENUE BAPTIST CHURCH DB 1582 PG 903 *TRACT I*

WESTERN AVENUE BAPTIST CHURCH DB 1582 PG 903 *TRACT III*

BENCHMARK RADIO AQUISITION FUND IX LIMITED PARTNERSHIP DB 1010, PG 1635

SCOTT JACKSON, JR. DB 720, PG 311

CLAUDIA VIOLA GRAY DB 811 PG 808

HAZEL M. CARDIN DB 1556 PG 1791

FRANCES D. KIMBALL, ET. ALS. DB 625 PG 772 W.E. FILE #02E-134

ROBERT W. ANDERSON DB 1653 PG 351

RICKY D. HIX DB 838 PG 958

ISBKSCHOOL

ISBLK D

ISBKD

GAS TEST WIRE

TRAFFIC DATA

	1,340 / 2,300	
440 / 600	RADIO RD.	340 / 500
MUSEUM RD.		GAITHER RD.
4,360 / 7,400	1,920 / 2,800	2,280 / 3,000	4,620 / 7,500
	4,760 / 7,000	

2010 AVERAGE
2030 DAILY TRAFFIC

LEGEND

PAVED SHOULDER

APPROACH SLAB

PAVEMENT REMOVAL

NOTE: NOISE WALL LOCATIONS ARE SUBJECT TO CHANGE BASED ON APPROVAL. THEREFORE; WALL LOCATIONS SHOWN HAVE NOT BEEN COMPLETELY COORDINATED WITH HYDRO DESIGN.

12/1/2011
K:\U\I-3819a_Utilities\Rdy_Ut\Proj\I-3819a_UBO_psh05.dgn
bradley

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	U0-6

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

NC GRID NAD 83

-L- SEE SHEET NO. U0-5

-MATCHLINE- STA. 47+00.00 -L-

-L- SEE SHEET NO. U0-7

-MATCHLINE- STA. 61+00.00 -L-

REVISIONS

8/17/99

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1535 PG 1904

KEITH M. NORRIS, ET. AL. DB 1309 PG 2518

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1952

CLAUDIA VIOLA GRAY DB 811 PG 808

GEORGE B. TAYLOR DB 670 PG 598

D. HIX DB 1838 PG 958

NANCY S. GOFORTH DB 1128 PG 1372

FRANK CAUTHEN, Jr. DB 760 PG 145

FRANK CAUTHEN, Jr. DB 999 PG 703

MELVINA S. IJAMES DB 1718 PG 054

JAMES S. COYLE DB 580 PG 62

STEPHEN RAY DIXON DB 998 PG 438

CURTIS F. GEORGE DB 538 PG 224

JAMES SUMMER DB 1794 PG 773

BILLY F. CHAPMAN SAD. DB 577 PG 393

GLENN CARROLL JORDAN, SR. DB 482 PG 165

DANETTE FALCETANO DB 1696 PG 651

JOHN M. GREGORY DB 821 PG 920

CHINA SUPER BUFFET, INC. DB 1709 PG 2227

CALL W. SMITH DB 1397 PG 604

J. D. HARRIS DB 626 PG 906

SARAH PLYLER ADAMS DB 390 PG 062 W.E. FILE #95E-013

DONALD E. SIGMON DB 1993 PG 1677

JOHN H. CHAPMAN DB 1155 PG 954

CHARLES EDWARD HEYE II DB 545 PG 548

DRUCILLA N. DAVIS DB 392 PG 132 W.E. FILE #95E-692

BRENT P. WEATHERMAN DB 1149 PG 1685

BILLY H. DOBBINS DB 368 PG 337

NANCY ELIZABETH HUNTER POWELL DB 650 PG 120

KENNETH R. BURDETTE DB 821 PG 593

JOHNATHAN M. TRAVIS DB 995 PG 688

MURIEL KERLEY TRAVIS DB 822 PG 510

-Y3A- PC 13+88.26

-Y3A- POC 15+50.00

-Y3A- PT 15+76.88

END CONSTRUCTION

NEW POLE (CITY)

RETAIN POLE (CITY)

ABANDON UNDERGROUND TELEPHONE CABLE

NEW UNDERGROUND AT&T TELEPHONE

CATV TO BE ABANDONED

PROP O/H POW TEL & CATV LINES

END 300' TAPER (LT.& RT.) -Y3A- STA.14+45.00

REMOVE

6" GAS MAIN TO REMAIN

PROP O/H POW LINES

-LCDWB- PC 10+00.00 = -L- POT 51+10.00 (48' LT)

-LCDWB- PRC 14+45.83

BEG. PROP. SB GUT. STA 50+75.00

CLASS B RIP RAP EST. 2 TONS EST. 7 SY FF

LATERAL BASE DITCH W/PSRM SEE DETAIL AC

CLASS I RIP RAP ON BANKS ONLY EST. 40 TONS EST. 75 SY FF SEE DETAIL K

TOE PROTECTION W/PSRM SEE DETAIL E

BEGIN CONSTRUCTION -L- EBL -L- POT 56+50.00

-LCDWB- PT 18+91.67

BEGIN DOUBLE FACED CONC. BARRIER -LCDWB-

BEGIN PROP. SHOULDER BERM GUTTER -LCDWB-

BEGIN CONSTRUCTION -Y3A- POT 26+00.00

-Y3A- PT 25+76.54

NOTE: APPROXIMATE LOCATION OF GAS LINE REDUCTION

-Y3A- N 84°11'02.9" E

-Y3A- N 89°52'19.2" E

-Y3A- N 80°22'32.4" E

-L- STA.48+99.21 (87.50' RT.) FACE OF WALL

-L- STA.48+84.20 (113.48' RT.) FACE OF WALL

-L- STA.48+95.23 (134.50' RT.) FACE OF WALL

-L- STA.56+79.18 (88.70' RT.) FACE OF WALL

-L- STA.56+49.21 (87.50' RT.) FACE OF WALL

BEGIN 450' LANE & SHIFT TAPERS (RT.) -L- STA.58+50.00

BEGIN PROP. NOISE WALL

PROP. NOISE WALL

REMOVE FES

COLLAR AND EXTEND

SPECIAL CUT DITCH SEE DETAIL BK

SPECIAL LATERAL BASE DITCH W/CL B RIP RAP SEE DETAIL BE

15" CSP W/ELBOWS, ROD, & LUG CONNECTORS

CLASS B RIP RAP EST. 2 TONS EST. 7 SY FF

REMOVE HW

10' WOOD STUCCO SOUND BARRIER WALL

BEGIN PROP. FENCE

END PROP. NOISE WALL -L- STA.49+23.82 (125.40' RT.) FACE OF WALL

REMOVE 12" CMP

LATERAL BASE DITCH W/CL B RIP RAP SEE DETAIL B

-LCDEB- 12+01.05 (139.56' RT.) FACE OF WALL

PROP. RETAINING WALL NO.2

REMOVE AT&T POLE

-L- STA.57+87.77 (124.70' RT.) FACE OF WALL

-L- STA.57+58.44 (121.98' RT.) FACE OF WALL

-LCDEB- 11+29.49 (109.86' RT.) END NOISE WALL -L- STA.57+07.05 (99.81' RT.) FACE OF WALL

BEGIN NOISE WALL -L- STA.56+98.62 (133.35' RT.) FACE OF WALL

END PROP. FENCE

-LCDWB- WB COLLECTOR-DISTRIBUTOR

PI Sta 12+22.97
Δ = 3° 05' 06.3" (LT)
D = 0° 41' 31.1"
L = 445.83'
T = 222.97'
R = 8,280.00'
SE = 02
DS = 60 mph

PI Sta 16+68.80
Δ = 3° 05' 06.3" (RT)
D = 0° 41' 31.1"
L = 445.83'
T = 222.97'
R = 8,280.00'
SE = 02
DS = 60 mph

PI Sta 14+82.64
Δ = 5° 41' 16.3" (RT)
D = 3° 00' 56.0"
L = 188.62'
T = 94.39'
R = 1,900.00'
SE = 03
Runoff = 6.3'
DS = 40 mph

PI Sta 21+21.80
Δ = 9° 29' 46.8" (LT)
D = 1° 02' 30.3"
L = 911.58'
T = 456.84'
R = 5,500.00'
SE = N/A

LEGEND
PAVED SHOULDER
APPROACH SLAB
PAVEMENT REMOVAL

8/19/2011
C:\Projects\Rdy_Utl\Proj\I-3819a_UBG_psh06.dgn
rbordelon

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	U0-7

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

NOTE:
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UTILITIES BY OTHERS

8/17/99

REVISIONS

–MATCHLINE– STA. 61+00.00 –L– SEE SHEET NO. U0-6

–MATCHLINE– STA. 75+00.00 –L– SEE SHEET NO. U0-8

NAD 83 NC GRID

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1952

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1949

LOU M. BELL, ET. AL. DB 962 PG 1955

ABANDON UNDERGROUND TELEPHONE CABLE

NEW POLE (CITY)

NEW 6" GAS MAIN

4" GAS MAIN TO BE RETIRED

NEW LIGHT POLE (CITY)

CATV TO BE ABANDONED

6" GAS MAIN TO REMAIN

NEW POLE W/LIGHT (CITY)

4" GAS MAIN TO BE RETIRED

NEW 6" GAS MAIN

DRY DETENTION BASIN

NEW POLE (CITY)

RUCHIKA, LLC DB 1821PG 1494

KEITH S. RAINWATER, ET. AL. DB 1083 PG 795

ARTHUR OLAND DB 1679 PG 1708

PHYLLIS ELDER STEWART DB 786 PG 771

WILLIAM L. BOYD DB 1546 PG 2367

CITY OF STATESVILLE BOARD OF EDUCATION DB 323 PG 272

ISBK SCHOOL

ROBERT GLENN DB 1821 PG 1494

KELLY L. RUDISILL DB 674 PG 591 HTR

HARRY W. CAMPBELL DB 505 PG 241 W.S. FILE #99-647

WILLIAM LARRY CAMPBELL DB 1220 PG 113

LARRY J. SNODDY

NORTHVIEW PROFESSIONAL PARK CONDOMINIUMS DB 541 PG 575 DB 693 PG 836 DB 693 PG 809 DB 693 PG 783 DB 922 PG 1214

NEW LIGHT POLE (CITY)

RETAIN POLE (CITY)

PROP O/H POW & TEL LINES

PROP O/H POW LINES

PROP. RETAINING WALL NO.2A

PROP. NOISE WALL

PROP. SHOULDER BERM GUTTER

PROP. DBL. FACE CABLE GUIDERAIL

REMOVE EX. CABLE GUIDERAIL

-Y3A- PC 30+58.14

-Y3A- PT 32+82.28

-Y3A- N 80° 22' 32.4" E

-Y3A- N 79° 56' 28.9" E

-LCDWB- N 88° 12' 51.5" E

-LCDWB- PC 26+90.31

-L- PC 67+99.88

N 80° 12' 51.5" E

N 82° 30' 51.5" E

-LCDEB- FUT.

-LCDEB- 20+00.24 (39.50' RT.) FACE OF WALL

-LCDEB- 16+01.22 (39.50' RT.) FACE OF WALL

-Y4RPC- POT 6+87.23 = -L- POT 66+40.00 (48' RT) Δ = 2° 18'

-LCDEB- FUT.PT 17+64.20

-LCDEB- FUT.PC 21+50.32

-Y4RPC- PC 7+72.50

-Y4RPC- FUT. POT 10+00.00= -LCDEB- POC 23+00.00 (24' RT) Δ = 2° 18'

-Y4RPC- FUT. PC 11+95.36

-Y4RPC- FUT. N 83° 01' 15.4" E

-Y4RPC- FUT.PT 14+10.34

-Y4RPC- PC 13+83.43

-Y4RPC- PRC 39+74.34

-Y4RPC- PC 35+46.78

-Y4RPC- TS 10+00.00 = -LCDWB- POC 33+04.06 (24' LT)

PI Sta 31+70.21
Δ = 0° 26' 03.5" (LT)
D = 0° 11' 37.5"
L = 224.14'
T = 112.07'
R = 29,570.00'
SE = NC
DS = 60 mph

PI Sta 37+60.69
Δ = 4° 53' 58.0" (RT)
D = 1° 08' 45.3"
L = 427.56'
T = 213.91'
R = 5,000.00'
SE = NC
DS = 40 mph

PI Sta 42+00.20
Δ = 18° 43' 24.3" (LT)
D = 4° 10' 55.8"
L = 447.70'
T = 225.86'
R = 1,370.00'
SE = 03
Runoff = 63'
DS = 40 mph

PI Sta 13+02.86
Δ = 2° 03' 10.3" (RT)
D = 0° 57' 17.7"
L = 214.98'
T = 107.50'
R = 6,000.00'
SE = 02
DS = 50 mph
–L– I-40

PI Sta 21+91.14
Δ = 2° 38' 12.7" (RT)
D = 0° 20' 13.3"
L = 782.37'
T = 391.26'
R = 17,000.00'
SE = NC
DS = 55 mph

-LCDWB- WB COLLECTOR-DISTRIBUTOR
PI Sta 30+83.22
Δ = 2° 38' 12.7" (RT)
D = 0° 20' 08.2"
L = 785.69'
T = 392.91'
R = 17,072.00'
SE = NC
DS = 75 mph

-LCDEB- FUT. EB COLLECTOR-DISTRIBUTOR
PI Sta 15+98.03
Δ = 2° 18' 00.0" (LT)
D = 0° 41' 31.1"
L = 332.38'
T = 166.21'
R = 8,280.00'
SE = 02
DS = 55 mph

PI Sta 25+39.92
Δ = 2° 38' 12.7" (RT)
D = 0° 20' 18.5"
L = 779.06'
T = 389.60'
R = 16,928.00'
SE = NC
DS = 75 mph

-Y4RPC- RAMP C
PI Sta 10+78.23
Δ = 5° 50' 02.4" (RT)
D = 0° 57' 17.7"
L = 610.93'
T = 305.73'
R = 6,000.00'
SE = 02
DS = 50 mph

PI Sta 15+83.52
Δ = 3° 16' 28.2" (LT)
D = 0° 49' 06.6"
L = 400.06'
T = 200.08'
R = 7,000.00'
SE = 02
DS = 50 mph

LEGEND

- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

I:\V12011\Roadway\Utilities\Proj\I-3819a_UB0_psh07.dgn

REVISIONS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

PROJECT REFERENCE NO.	SHEET NO.
I-5819A	UO-8

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS

NC GRID NAD 83

SEE SHEET NO. UO-20 -MATCHLINE- STA. 15+00.00 -Y8-

SEE SHEET NO. UO-20 -MATCHLINE- STA. 35+00.00 -Y4-

SEE SHEET NO. UO-20 -MATCHLINE- STA. 14+50.00 -Y5-

-MATCHLINE- STA. 20+50.00 -Y4- SEE SHEET NO. UO-19

-MATCHLINE- STA 75+00.00 -L- SEE SHEET NO. UO-7

-MATCHLINE- STA 104+00.00 -L- SEE SHEET NO. UO-9

NEW 6" GAS MAIN

4" GAS TO BE RETIRED

CATV TO BE ABANDONED

NEW 4" GAS LINE

NEW POLE (CITY)

RETAIN POLE (CITY)

REMOVE UNDERGROUND POWER SERVICE LINE

NEW POLE (AT&T)

ABANDON UNDERGROUND TELEPHONE CABLES

RETAIN POLE (DUKE)

NEW POLE (DUKE)

ABANDON TELEPHONE

3" GAS MAIN IN US21 FROM CAROLINA AVE. TO GAITHER RD. HAS BEEN ABANDONED

NEW POLE W/LIGHT (DUKE)

TRANSMISSION LINE TO REMAIN IN PLACE

ABANDON UNDERGROUND TELEPHONE CABLE

NEW LIGHT POLE (CITY)

REMOVE (CITY)

REMOVE (DUKE)

-L- I-40

-Y4RPB- RAMP B

-Y4RPC- RAMP C

-Y4RPD- RAMP D

-LCDEB- FUT. EB COLLECTOR-DISTRIBUTOR

-LCDWB- WB COLLECTOR-DISTRIBUTOR

LEGEND
PAVED SHOULDER
APPROACH SLAB
PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sowers Rd)

TIP NO.: I-5819A | COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: | DATE:

RVWD:11/6/2024 10:47:29 AM by PVU:I:\5819A_TIP\2_plan\Roadway\

REVISIONS

NC GRID NAD '83

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-9

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0155 • (919) 878-9560

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

-MATCHLINE- STA. 104+00 -L- SEE SHEET NO. UO-8

-MATCHLINE- STA. 133+00 -L- SEE SHEET NO. UO-10

-MATCHLINE- STA. 147+00 -Y- SEE SHEET NO. UO-15

-MATCHLINE- STA. 135+00 -Y- SEE SHEET NO. UO-14

-MATCHLINE- STA. 241+00 -YRPBD- SEE SHEET NO. UO-15

-LCDWB-
PI Sta 72+90.46
Δ = 5° 38' 12" (LT)
D = 0° 20' 13.5"
L = 279.06'
T = 139.66'
R = 1,136.00'
SE = NC
DS = 75 MPH

-LCDWB-
PI Sta 78+85.65
Δ = 1° 26' 32.6" (RT)
D = 0° 20' 08.2"
L = 434.43'
T = 217.27'
R = 1,137.00'
SE = NC
DS = 75 MPH

-Y5-
PI Sta 44+63.48
Δ = 167° 45' 31.2" (LT)
D = 0° 24' 26.5"
L = 524.79'
T = 482.03'
A = 1,370.00'
SE = 0.030
DS = 35 MPH

-L- PI Sta 11+39.09
Δ = 2° 38' 12.1" (LT)
D = 0° 20' 13.5"
L = 182.37'
T = 91.26'
R = 1,136.00'
SE = NC
DS = 75 MPH

-L- PI Sta 12+74.06
Δ = 2° 38' 12.1" (RT)
D = 0° 20' 13.5"
L = 182.37'
T = 91.26'
R = 1,136.00'
SE = NC
DS = 75 MPH

-YRPBD-
PI Sta 11+08.71
θs = 0° 20' 00.0"
θs = 4° 46' 30.0"
Ls = 200.00'
LT = 128.98'
ST = 71.14'

-YRPBD-
PI Sta 14+88.45
Δ = 29° 25' 39.5" (LT)
D = 4° 46' 29.7"
L = 604.35'
T = 308.71'
R = 1,200.00'
SE = 0.060
DS = 55 MPH

-YRPBD-
PI Sta 18+57.45
θs = 0° 12' 01.6"
Ls = 200.00'
LT = 146.73'
ST = 73.39'

-YRPBD-
PI Sta 23+41.62
θs = 1° 43' 15.3"
Ls = 200.00'
LT = 133.143'
ST = 66.76'

-YLPB-
PI Sta 11+62.34
θs = 29° 53' 36.4"
Ls = 240.00'
LT = 165.34'
ST = 82.13'

-YLPB-
PI Sta 13+97.71
Δ = 68° 52' 39.8" (RT)
D = 24° 54' 40.4"
L = 276.49'
T = 157.71'
R = 230.00'
SE = EXIST.

-YLPB-
PI Sta 17+30.70
Δ = 82° 12' 41.8" (RT)
D = 63° 23' 09.2"
L = 352.04'
T = 214.21'
R = 245.00'
SE = EXIST.

-YRPBD-
PI Sta 10+66.67
θs = 17° 07' 09.9"
Ls = 200.00'
LT = 133.33'
ST = 66.81'

-YRPBD-
PI Sta 13+33.41
θs = 5° 58' 05.9"
Ls = 150.00'
LT = 133.41'
ST = 66.74'

-YRPBD-
PI Sta 17+40.97
Δ = 39° 06' 26.1" (RT)
D = 5° 58' 05.9"
L = 655.25'
T = 340.91'
R = 960.00'
SE = 0.080
DS = 55 MPH

-YRPBD-
PI Sta 21+21.88
θs = 5° 58' 05.9"
Ls = 200.00'
LT = 133.41'
ST = 66.74'

-YLPB-
PI Sta 20+37.05
Δ = 112° 27' 46.3" (RT)
D = 24° 54' 40.4"
L = 490.88'
T = 168.51'
R = 230.00'
SE = 0.080
DS = 30 MPH

-YLPB-
PI Sta 22+46.55
θs = 29° 53' 36.4"
Ls = 240.00'
LT = 162.34'
ST = 82.13'

-YRPB- POT 10+00.00
-YRPBD- TS 22+08.13 LT.

-YRPBD- ST 20+04.06

-Y5- PT 49+24.96

-YRPBD- CS 17+84.06

-L- PRC 117+82.80

-Y5- PC 10+04.18

BEGIN CONSTRUCTION -Y5- POT 38+90.00

-YRPBD- CS 9+79.73 =
-LCDWB- POC 73+28.94 LT
-YRPBD- SC 11+79.73

-L- PC 10+00.43
-LCDWB- PC 68+90.86

-YRPBD- SRS 12+00.00

-L- PRC 117+92.49 RT.

-YRPC- SC 14+00.00

-YRPC- CS 18+00.00

-YRPC- SC 18+00.00

-YRPC- CS 20+55.25

-YRPC- ST 22+55.25

-YRPC- POT 24+81.27

-L- PT 125+65.18

-YLPB- PCC 18+68.53

-YLPB- CS 21+59.42

-YLPB- PCC 15+16.49

-YLPB- ST 23+99.48 =
-Y- POT 143+32.52, 39.01' LT

-L- POT 130+29.03 =
-Y- POT 142+29.03
Δ = 76° 32' 39.6"

-YLPB- SC 12+40.00

-YLPB- TS 10+00.00 =
-L- POT 125+77.98, 41.17' LT

-L- POT 135+29.03 =
-Y- POT 147+29.03
Δ = 76° 32' 39.6"

-YLPB- ST 23+99.48 =
-Y- POT 143+32.52, 39.01' LT

-YLPB- PCC 18+68.53

-YLPB- CS 21+59.42

-YLPB- PCC 15+16.49

-YLPB- SC 12+40.00

-YLPB- TS 10+00.00 =
-L- POT 125+77.98, 41.17' LT

-L- POT 135+29.03 =
-Y- POT 147+29.03
Δ = 76° 32' 39.6"

S 30° 27' 00.0" E

N 82° 16' 14.4" E

EXCEL REALTY TRUST -- NC
DB 1007 PG 122

EXCEL REALTY TRUST -- NC
DB 1007 PG 125

EXCEL REALTY TRUST -- NC
DB 985 PG 678

EXCEL REALTY TRUST -- NC
DB 985 PG 678

MOORESVILLE LODGING, LLC
DB 5804 PG 1138

DOOSAN INTERNATIONAL USA, INC.
DB 1506 PG 378-380

RANAB LAND COMPANY, INC.
DB 596 PG 628

RANAB LAND COMPANY, INC.
DB 596 PG 628

DUKE ENERGY COMPANY
POWER TRANSMISSION LINE
R/W = 60 FEET WIDE

ABANDON GAS (PIEDMONT GAS)

ABANDON UNDERGROUND TELEPHONE CABLE

NEW 4" GAS LINE (PIEDMONT GAS)

NEW POLE (DUKE)

REMOVE (DUKE)

REMOVE (CITY)

RETAIN ROLF (DUKE)

UNDERGROUND POWER TO BE ABANDONED (ENERGY UNITED)

I-77

46680
71000

12320
28600

5080
7800

7100
99420

I-40

I-40

55720
83400

25360
34800

80140
32600

73200
109040

I-77

2010 ADT
2030 ADT

PROJECTED TRAFFIC VOLUMES

LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd) TO SR 2156 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Iona Sewer Rd)

TIP NO.: I-3819A | COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: | DATE:

R:\DGN\2016\I-3819A\Roadway\UO\I-3819A_UO01.dgn#9.dgn

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-10

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

PLANS PREPARED BY :
RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0113 • (919) 878-9560

UTILITIES BY OTHERS

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

NC GRID NAD 83

–MATCHLINE– SEE SHEET NO. UO–15

–MATCHLINE– STA. 36+00 –YRPBD– SEE SHEET NO. UO–15

SEE SHEET NO. UO–9 –MATCHLINE– STA. 133+00

SEE SHEET NO. UO–11 –MATCHLINE– STA. 162+00

–MATCHLINE– SEE SHEET NO. UO–14

A

D

NEW POLE (ENERGY UNITED)

NEW POLE W/GUY (ENERGY UNITED)

REMOVE (DUKE)

REMOVE (CITY)

NEW POLE (CITY)

BEGIN CONSTRUCTION
–L– POT 136+00.00
TIE TO EXISTING PAVEMENT

BEGIN APPROACH SLAB
–L– POT 138+90.37

BEGIN BRIDGE
–L– POT 139+45.37

END APPROACH SLAB
–L– POT 140+84.33

END BRIDGE
–L– POT 140+59.33

END CONSTRUCTION (WBL)
–L– POT 153+75.00 (LT)
Δ = 2°18'00"
TIE TO EXISTING PAVEMENT

–YRPA– SC 13+95.81
–YRPA– ST 23+39.56
–YRPA– CS 31+95.81
–YRPA– PC 10+00.00 = –YRPAB– CS 21+39.56,120 RT
–YRPA– PT 29+83.56 = –YRPAB– ST 33+95.81

–YRPAB– PC 11+20.00
–YRPAB– STA:9+00.00 RT
–YRPAB– SC 13+70.95
–YRPAB– TS 14+70.95

–YRPBD– PT 49+03.76,8 RT,LB= –YRPBD– PC 49+03.76 LA
–YRPBD– CS 49+83.39

–YRPBD– POT 10+00.00 = –L– POT 153+75.00,42 LT, Δ = 2°18'00"

–YRPBD– SC 7+47.76
–YRPBD– TS 5+47.76 = ISH 159,420 RT
–YRPBD– ST 10+84.52

–YRPBD– SC 15+29.40
–YRPBD– TS 13+29.40

–YRPBD– POC 15+39.00
–YRPBD– POC 17+64.00
–YRPBD– POC 17+89.00

–YRPD– SC 24+75.88
–YRPD– ST 26+75.88
–YRPD– PC 28+01.99
–YRPD– PT 28+88.55

–YRPAB–

Pt	Sta 13+04.31
θs	= 2° 59' 59.2"
Ls	= 200.00'
LT	= 133.35'
ST	= 66.68'

Pt	Sta 17+60.53
Δ	= 93° 03' 23.3" (RT)
D	= 2° 59' 59.2"
L	= 1968.61'
T	= 1289.57'
R	= 1910.00'
SE	= 0.060
DS	= 50 MPH

Pt	Sta 22+06.24
θs	= 2° 59' 59.2"
Ls	= 200.00'
LT	= 133.35'
ST	= 66.68'

–YRPBD–

Pt	Sta 7+07.40
θs	= 2° 17' 30.6"
Ls	= 200.00'
LT	= 133.34'
ST	= 66.68'

Pt	Sta 8+29.25
Δ	= 2° 32' 18.2" (LT)
D	= 2° 17' 30.6"
L	= 1817.16'
R	= 2500.00'
SE	= 0.040
DS	= 45 MPH

Pt	Sta 9+51.49
θs	= 2° 17' 30.6"
Ls	= 200.00'
LT	= 133.34'
ST	= 66.68'

Pt	Sta 14+62.75
θs	= 2° 09' 43.6"
Ls	= 200.00'
LT	= 133.34'
ST	= 66.68'

Pt	Sta 20+07.74
Δ	= 20° 07' 50.0" (LT)
D	= 2° 09' 43.6"
L	= 946.48'
R	= 478.54'
R	= 2500.00'
SE	= 0.040
DS	= 45 MPH

Pt	Sta 25+42.56
θs	= 2° 09' 43.6"
Ls	= 200.00'
LT	= 133.34'
ST	= 66.68'

Pt	Sta 28+45.27
Δ	= 0° 37' 11.8" (RT)
D	= 0° 43' 58.3"
L	= 86.56'
R	= 8,000.00'
SE	= 0.020
DS	= 55 MPH

Pt	Sta 122+27.65
Δ	= 170° 13' 16.5" (RT)
D	= 6° 49' 15.3"
L	= 5,495.57'
T	= 9,819.47'
R	= 840.00'
SE	= 0.060
DS	= 50 MPH

Pt	Sta 49+43.60
Δ	= 5° 29' 01.0" (RT)
D	= 6° 57' 11.4"
L	= 786.5'
T	= 393.61'
R	= 832.00'
SE	= 0.060
DS	= 50 MPH

Pt	Sta 50+50.15
θs	= 6° 57' 11.4"
Ls	= 200.00'
LT	= 133.43'
ST	= 66.76'

PAVEMENT–BRIDGE RELATIONSHIP SKETCH
–L– 2–45 OVER –YRPD–

PAVEMENT–BRIDGE RELATIONSHIP SKETCH
–YRPD– OVER TERRAMAY NO. 3

LEGEND
PAVED SHOULDER
APPROACH SLAB
PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2053 (Rodio Rd) TO SR 2159 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad) TO SOUTH OF SR 2171 (Jane Sowers Rd)

TIP NO.: I-3819A | COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: | DATE:

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-11

PLANS PREPARED BY :

RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

8/17/99

REVISIONS

8/30/2011
R:\Utilities\Rdy_Ut\Proj\i3819a_UBO_psh11.dgn
bbadeu

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	U0-12

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

UTILITIES BY OTHERS

6" GAS MAIN TO REMAIN AND BE FIELD ADJUSTED AS NECESSARY

4" GAS MAIN TO REMAIN AND BE FIELD ADJUSTED AS NECESSARY

-MATCHLINE- STA. 176+00 -L- SEE SHEET NO. U0-11

-MATCHLINE- STA. 190+00 -L- SEE SHEET NO. U0-13

NC GRID NAD 83

REVISIONS

8/17/99

8/30/2011
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Rdeal

DITCH CLEAN OUT
5 TONS CLASS B RIP RAP
14 SY FILTER FABRIC

98
THE Dr. J. H. PRESSLY ESTATE
DB 1653 PG 1771
"FIRST TRACT"

107
CAROLINA FARM CREDIT, ACA
DB 1502 PG 804

CAROLINA FARM CREDIT, ACA
DB 1677 PG 1271

CENTER CUL-DE-SAC
-L70 STA.180+80.20, 201.96' LT.

ADJUST RIM TO ELEV 885.00'

GRADE TO DRAIN APPROX. 4.25% SLOPE

REMOVE EXISTING PAVEMENT

PROP.WW FENCE

REMOVE EXISTING GUARDRAIL

TIE TO EXISTING FENCE

GRADE TO DRAIN APPROX. 0.3% SLOPE

LATERAL 5' BASE DITCH
SEE DETAIL M

2GI- SEE SPECIAL DETAIL

2GI(D) W/ FL GR

2GI W/ FL GR

CONVERT TO SPECIAL 2GI W/ FL GR SEE DETAIL

-L- STA.177+84.76
TIE TO EXISTING PAVED SHOULDER

-L- STA.176+58.34
TIE TO EXISTING PAVED SHOULDER

N 80° 12' 51.5" E

N 54° 16' 51.8" E

BEGIN CONSTRUCTION
-Y10A- POT 11+00.00

-Y10A- POT 10+00.00

-Y10A- PC 10+00.00 =
-Y10ART- PC 16+10.32

-Y10A- PC 16+10.32

-Y10A- POT 16+05.89, 4' RT.

-Y10ART- CS 19+99.09

-Y10ART- PT 13+58.21

-Y10ART-
S 89° 04' 08.7" E

-Y10A-
PI Sta 18+09.06
Δ = 29° 18' 32.6" (RT)
D = 7° 32' 20.1"
L = 388.77'
T = 198.74'
R = 760.00'
SE = 0.060
DS = 45 MPH

PIs Sta 20+65.87
Θs = 7° 32' 20.1"
Ls = 200.00'
LT = 133.45'
ST = 66.78'

-Y10ART-
PI Sta 11+85.47
Δ = 36° 38' 59.5" (RT)
D = 10° 13' 53.0"
L = 358.21'
T = 185.47'
R = 560.00'
SE = 0.060

MATHURDAS MAHIDAS KOTHADIA
DB 985 PG 2004
"TRACT 2"

MATHURDAS MAHIDAS KOTHADIA
DB 985 PG 2004
"TRACT 1"

105A

106
DIETER J. LOHRMANN
ULRICH H. LOHRMANN
DB 1401 PG 1370

108
EDWARD RAY HARMON
DB 538 PG 86

EDWARD RAY HARMON
DB 978 PG 177

110
TONY L. BREWER
DB 1689 PG 1041

HANS J. VOELSKE
DB 1046 PG 2272

111
HAAS / CARTER REAL ESTATE, LLC
DB 1148 PG 2105

TRAVIS CARTER PROPERTIES, L.L.P.
DB 1112 PG 1111

3 TONS CLASS B RIP RAP
10 SY FILTER FABRIC

LEGEND

PAVED SHOULDER

PAVEMENT REMOVAL

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-13

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

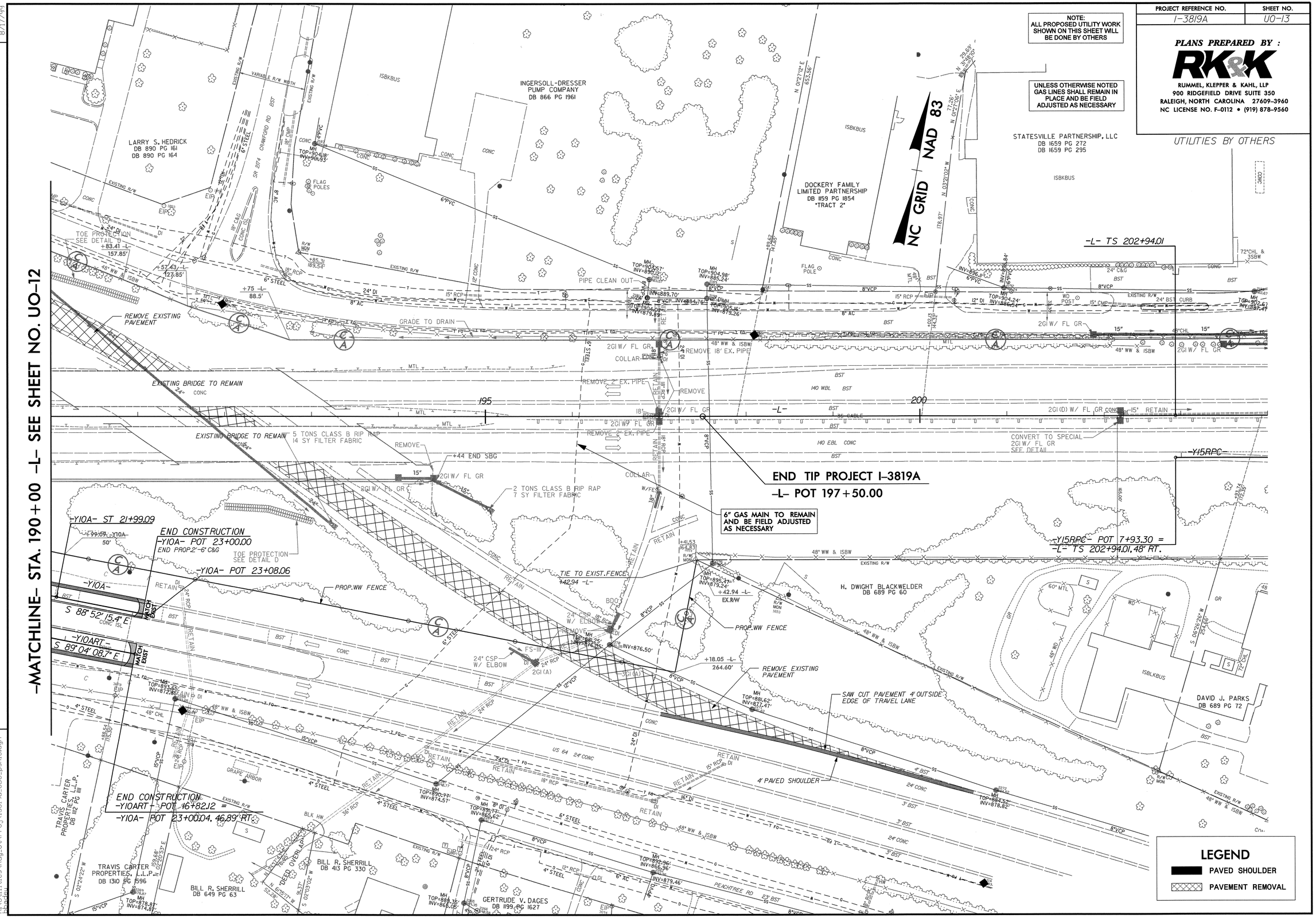
UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS



REVISIONS

8/17/99

8/30/2011
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bbadey

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	U0-14

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 ✦ (919) 878-9560

UTILITIES BY OTHERS

NOTE:
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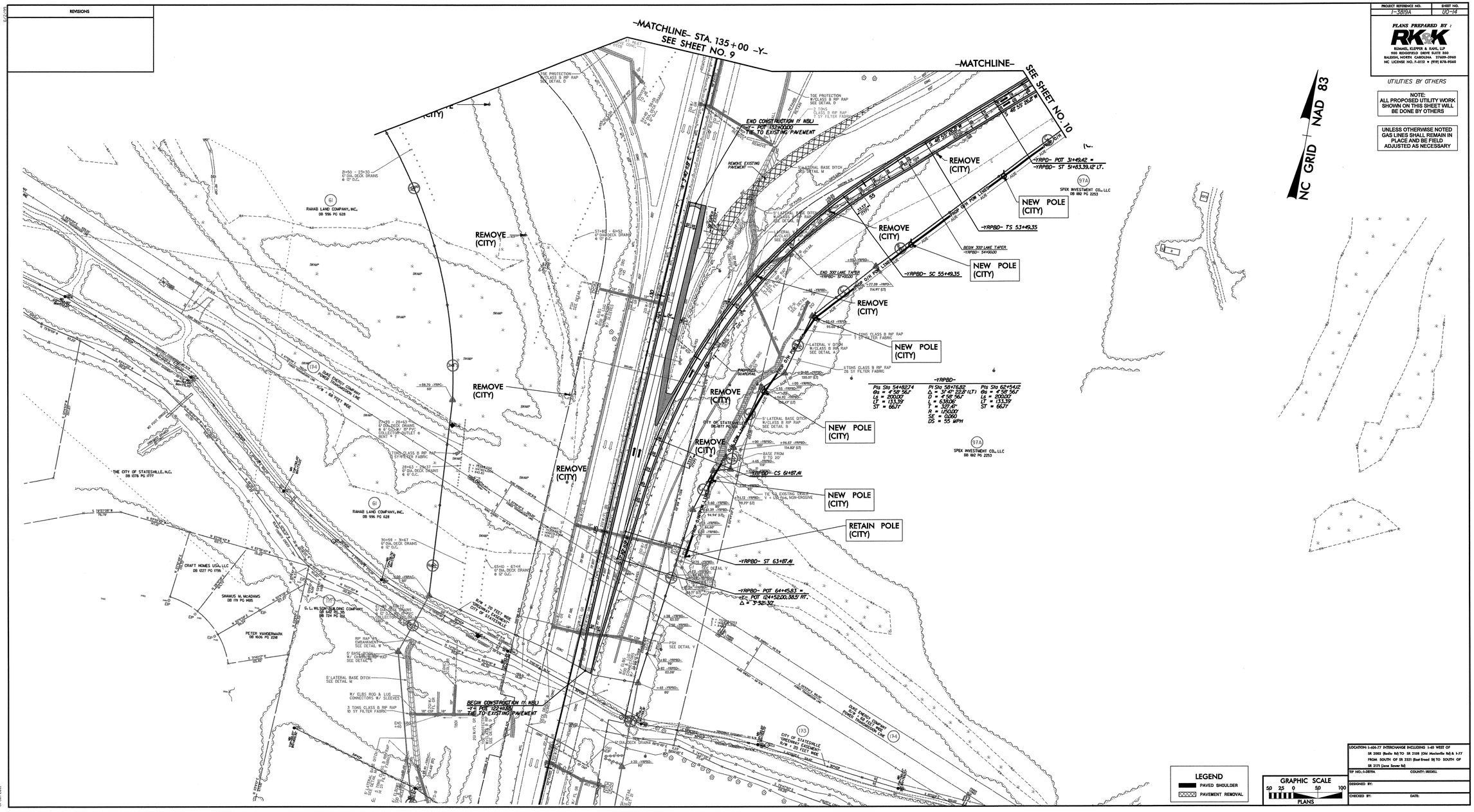
UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

REVISIONS



LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sower Rd)

TIP NO.: I-3819A
COUNTY: IREDELL

DESIGNED BY:

CHECKED BY:
DATE:

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-15

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

PLANS PREPARED BY :
RK&K
KIMLEY, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0113 • (919) 873-9560

UTILITIES BY OTHERS

NC GRID NAD 83

-MATCHLINE- STA. 161+00 -Y- SEE SHEET NO. UO-16

-YRPB-
Pt1 Sta 15+81.65
Gs = 7°20'13.2"
Ls = 200.00'
LT = 133.36'
ST = 66.69'

Pt1 Sta 20+53.30
Δ = 93°46'03.9" (LT)
D = 32°29'13.2"
L = 795.51'
T = 475.01'
R = 176.00'
SE = 0.080
DS = 50 MPH

Pt1 Sta 25+40.18
Gs = 3°22'13.2"
Ls = 200.00'
LT = 133.36'
ST = 66.69'

-Y5-
Pt1 Sta 61+43.93
Δ = 35°43'36.5" (LT)
D = 4°47'55.6"
L = 854.26'
T = 441.57'
R = 1,196.00'
SE = 0.030
DS = 40 MPH

-YRPBD-
Pt1 Sta 103+27.65
Δ = 177°13'152" (RT)
D = 5°49'15.3"
L = 2,465.57'
T = 9,856.47'
R = 840.00'
SE = 0.060
DS = 50 MPH

-YRPA-
Pt1 Sta 16+54.45
Δ = 37°35'17.3" (RT)
D = 7°32'20.0"
L = 498.29'
T = 256.64'
R = 760.00'
SE = 0.080
DS = 50 MPH

Pt1 Sta 19+45.48
Gs = 7°32'20.0"
Ls = 200.00'
LT = 133.45'
ST = 66.78'

-YRPAB-
Pt1 Sta 29+77.43
Gs = 5°49'15.3"
Ls = 200.00'
LT = 133.43'
ST = 66.76'

NEW POLE (DUKE)
NEW GUY POLE (DUKE)
NEW POLE (DUKE)
-YRPB- ST 26+43.49
END CONSTRUCTION
-Y5- POT 67+00.00
-YRPB- CS 24+43.49
-Y5- PT 65+56.66
ABANDON UNDERGROUND TELEPHONE CABLE
3 TONS CLASS B RIP RAP OVER 1 SY FILTER FABRIC
95 DOOSAN INTERNATIONAL USA, INC. DB 1906 PG 2178-2180
NEW POLE (DUKE)
ROADWAY CUT 7' BASE DITCH W/ PSRM SEE DETAIL AS
NEW POLE (DUKE)
REMOVE (DUKE)
END PRECAST NOISE WALL NO.13 END SINGLE FACE BARRIER LT & RT OF WALL BEGIN PRECAST NOISE WALL -YRPB- SC 16+48.29
REMOVE (DUKE)
ROADWAY CUT 2' BASE DITCH W/FILTER SEE DETAIL AS
NEW POLE (DUKE)
2 TONS CLASS B RIP RAP 1 SY FILTER FABRIC
NEW POLE (DUKE)
-YRPB- SC 16+48.29
ABANDON UNDERGROUND TELEPHONE CABLE
-Y5- PC 51+02.39
ROADWAY CUT 7' BASE DITCH W/ PSRM, SEE DETAIL AS
-YRPB- TS 14+48.29
95 DOOSAN INTERNATIONAL USA, INC. DB 1906 PG 2178-2180
NEW POLE (DUKE)
PROP. RETAINING WALL NO.13 W/ SINGLE FACE BARRIER LT & RT OF WALL
REMOVE (DUKE)
-YRPBD- POC 30+42.48 = -Y- POT 150+45.40 Δ = 85°55'39.7"
REMOVE (DUKE)
BEGIN BRIDGE -Y- POT 149+76.90
BEGIN APPROACH SLAB -Y- POT 149+52.74 BEGIN DBL'FACED MEDBARRIER
REMOVE (DUKE)
REMOVE (DUKE)
END APPROACH SLAB -Y- POT 150+22.56 END DBL'FACED MEDBARRIER
END BRIDGE -Y- POT 150+96.40
REMOVE (DUKE)
REMOVE (DUKE)
-YRPBD- TS 30+44.40
REMOVE (DUKE)
REMOVE (DUKE)
-YRPA- ST 20+94.40
REMOVE (DUKE)
REMOVE (DUKE)
-YRPA- CS 18+94.40
NEW POLE (DUKE)
NEW POLE (DUKE)
NEW POLE (DUKE)
NEW POLE (DUKE)
NEW POLE (DUKE)
NEW POLE (DUKE)
NEW POLE (DUKE)
96 JAMES FARMS, INC. DB 336 PG 462
96 THE Dr. J. N. PRESSLY ESTATE DB 653 PG 171 "FIRST TRACT"
96 JAMES FARMS, INC. DB 336 PG 462
-MATCHLINE- SEE SHEET NO. UO-10
-MATCHLINE- STA. 24+00 -YRPBD- SEE SHEET NO. UO-9
-MATCHLINE- STA. 147+00 -Y- SEE SHEET NO. UO-9
-MATCHLINE- STA. 36+00 -YRPBD- SEE SHEET NO. UO-10

PAVEMENT-BRIDGE RELATIONSHIP SKETCH
* GUARDRAIL ANCHORS REQUIRED
-Y- 8+77 OVER -YRPBD-

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Bodie Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Lane Sewer Rd)

TIP NO.: I-3819A | COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: | DATE:

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	U0-16

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

NC GRID NAD 83

–MATCHLINE– STA. 161+00 –Y– SEE SHEET NO. U0-15

–MATCHLINE– STA. 175+00 –Y– SEE SHEET NO. U0-17

95
DOOSAN INTERNATIONAL USA, INC.
DB 1906 PG 2178-2180

176
CONGRESS STATESVILLE, LLC
DB 1532 PG 1446

96
JAMES FARMS, INC.
DB 336 PG 412

NEW POLE (DUKE)
REPLACE POLE W/NEW POLE (DUKE)
REMOVE (DUKE)
RETAIN POLE (DUKE)

-YRPB- POT 28+01.91 =
-Y- POT 162+56.93, 39.0' LT.
Δ = 2° 18' 00"

-Y5- POT 73+84.77

OP O/H POW LINES
PROP O/H POW LINES

SR 2187 GLENNY DR 24' BST

+10.00 -Y- 212.71'
+10.00 -Y- 197.71'

SPECIAL CUT DITCH SEE DETAIL F
5' BASE BERM DITCH W/ CLASS B RIP RAP SEE DETAIL L
4' SPECIAL BASE DITCH SEE DETAIL G
5' SPECIAL BASE DITCH SEE DETAIL G
36" CSP W/ ELBOW
BDO
24" CSP
18" CSP
PIPE END TREATMENT
2 TONS CLASS B RIP RAP
PROPOSED GUARDRAIL
FILTER FABRIC
END CONSTRUCTION (Y SBL)
-Y- POT 165+49.95
TIE TO EXISTING PAVEMENT
TIE TO EXISTING GUARDRAIL
REMOVE 18" RCP
REMOVE 24" RCP
REMOVE 15" RCP
REMOVE 48" RCP
REMOVE 3 TONS CLASS B RIP RAP
10 SY FILTER FABRIC
REMOVE 5' BASE DITCH, L=100', EL. FROM 850 TO 852.0 SEE DETAIL H
REMOVE 5' SPECIAL BASE DITCH SEE DETAIL G
REMOVE CONC. COLLAR
REMOVE O/TCB
REMOVE MTL GATE
REMOVE CONC. RUBBLE
PROPOSED GUARDRAIL (REMOVE EXISTING)
SPECIAL CUT DITCH SEE DETAIL F
RETAIN
RETAIN 18" RCP
RETAIN 24" RCP
CONGRESS STATESVILLE, LLC DB 1532 PG 1446 FS-1 SEE DETAIL
2GI(A)
2GI W/FL GR
2GI(D) W/FL GR
MTL
4' BST
24' BST
177 SBL
177 NBL L94.55 END SBG
IF BST
SBW
48" WW & ISBW
24" DI
24" CSP, BDO
DROP JB
5' SPECIAL BASE DITCH SEE DETAIL G
5 TONS CLASS B RIP RAP 14 SY FILTER FABRIC
IRIP RAP BANKS ONLY SEE DETAIL K
ROCK EATING EMBANKMENT SEE DETAIL
IE TO EXISTING FENCE 151.0
MTL GATE
SOIL
SHOULDER BERM GUTTER
CONCRETE RUBBLE
-YRPA- TS 31+58.73
-YRPA- SC 33+58.73
-YRPA- CS 35+12.25
-YRPA- ST 37+12.25 =
-Y- POT 170+72.66, 39.0' RT
+10 -YRPCA- 105'
+70 -YRPCA- 100'
+10 -YRPCA- 250'
+29 -YRPCA- 276'
+00 -YRPCA- 220'
+65 -YRPCA- 305'
+98 -YRPCA- 250
+69 -YRPCA- 336'
NEW POLE (DUKE)
PROP O/H POW LINES
PUE
N 3° 47' 05.8" E
N 5° 58' 11.9" E
N 86° 57' 35" W 7.03'
S 03° 39' 46" W 100.04'
N 35° 57' 58" W 282.95'
165
170
30
35
70

-YRPA-

PI Sta 32+92.09	PI Sta 34+35.56	PI Sta 35+78.94
Θs = 3° 49' 11.0"	Δ = 5° 51' 50.5" (RT)	Θs = 3° 49' 11.0"
Ls = 200.00'	D = 3° 49' 11.0"	Ls = 200.00'
LT = 133.36'	L = 153.52'	LT = 133.36'
ST = 66.69'	T = 76.83'	ST = 66.69'
	R = 1,500.00'	
	SE = 0.060	
	DS = 45 MPH	

LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL

REVISIONS

8/17/99

8/30/2011
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bhadley

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	U0-17

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS
NO UTILITIES CONFLICTS

NC GRID NAD 83

REVISIONS

8/17/99

-MATCHLINE- STA. 175+00 -Y- SEE SHEET NO. U0-16

176 CONGRESS STATESVILLE, LLC DB 1532 PG 1446

176A IREDELL COUNTY DB 1926 PG 1282

96 JAMES FARMS, INC. DB 336 PG 412

SR 2187 GLENWAY DR

60.00'

EXISTING R/W

48" WW & ISBW

24' BST

+50 -Y- EX.R/W

S 86°20'00" E 5658.22'

+49.53 125.24'

EIP

R/W MON

+49.53 99.48'

TIE TO EXISTING FENCE +16.03

+10 -Y- 120'

+75 -Y- 128'

+50 -Y- 128'

+87.56 -Y- 115'

+65 -Y- 118'

+50 -Y- 115'

+84.31 -Y- 188.59'

+14.28 -Y- 189.93'

+16.92 -Y- 130'

+24.68 -Y- 130'

+25 -Y- 130'

N 88°51'27" W 1267.40'

AUE

LT

25' BST

FS-I SEE DETAIL

2GI

20' -Y- EX.R/W

REMOVE 18" RCP

177 SBL

PROPOSED GUARDRAIL

REMOVE GUARDRAIL

TIE TO EXISTING GUARDRAIL

RETAIN 18" RCP

180

185

N 3° 40' 11.9" E

11' BST

4' BST

48" CONC

CONC

MTL

18" RCP

SPECIAL 2GLW/FL GR ON BOTH SIDES OF BARRIER, SEE SPECIAL DETAIL

177 NBL

36'

100' TAPER TO EXIST.

BEGIN 300' LANE TAPER -Y- POT 176+75.00

END 300' LANE TAPER -Y- POT 179+75.00

END CONSTRUCTION (Y NBL) -Y- POT 179+75.00 TIE TO EXISTING PAVEMENT

FS-III SEE DETAIL

+50.14 127.80'

+50.06 150.38'

SOIL

265

+75 -Y- 155'

986

137

+00 -Y- 130'

LEGEND

PAVED SHOULDER

PAVEMENT REMOVAL

8/30/2011
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bbarden

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-18

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS

NOTE:
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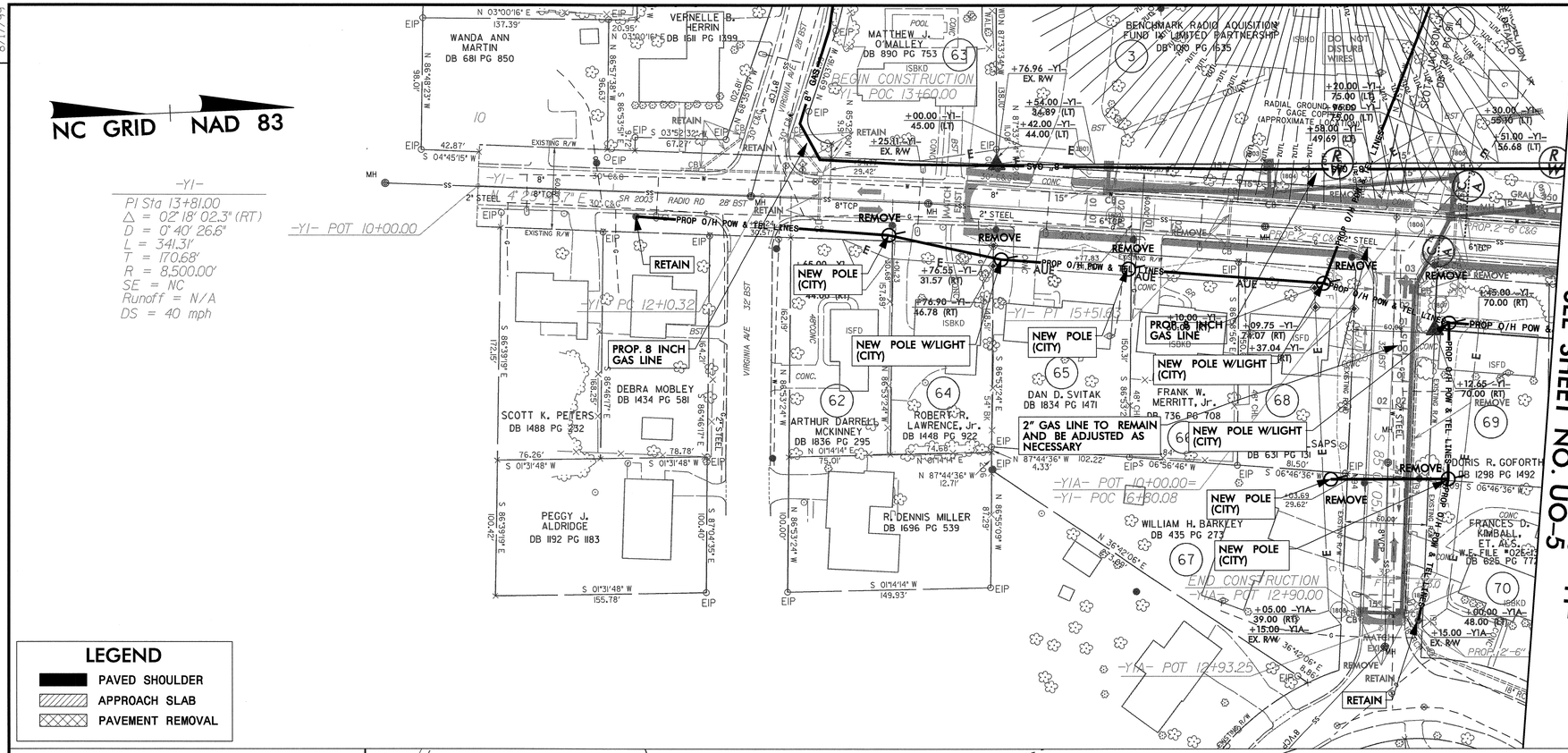

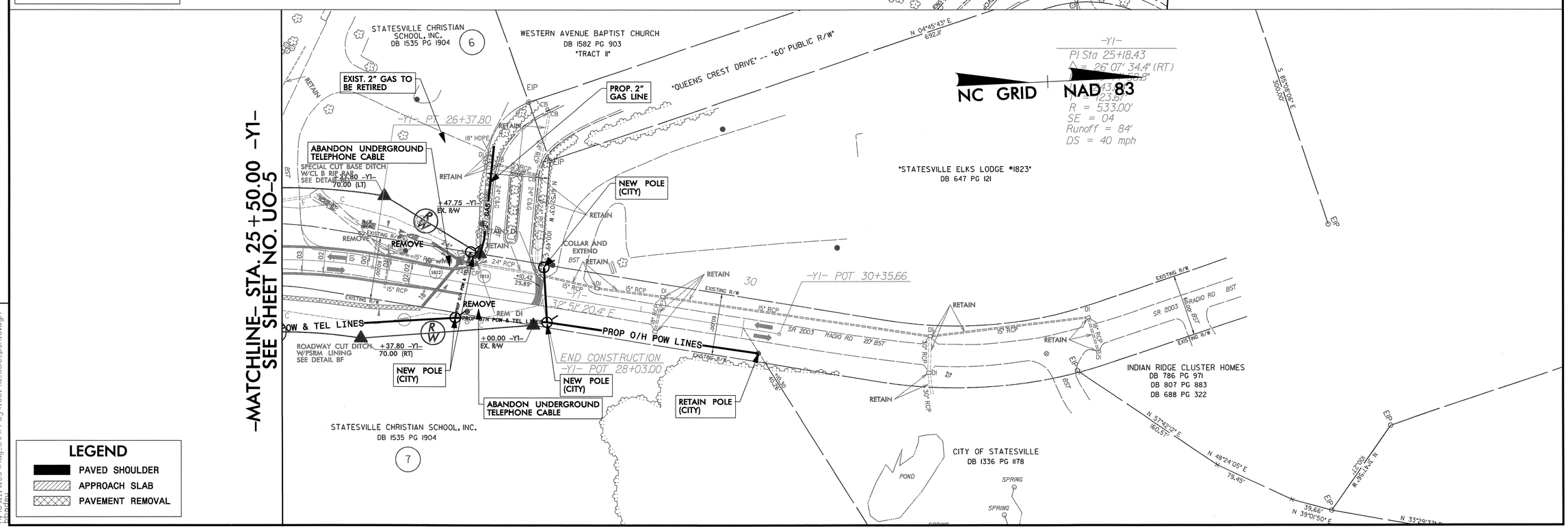

REVISIONS

8/17/99

12/1/2011
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bbadey

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-19

UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

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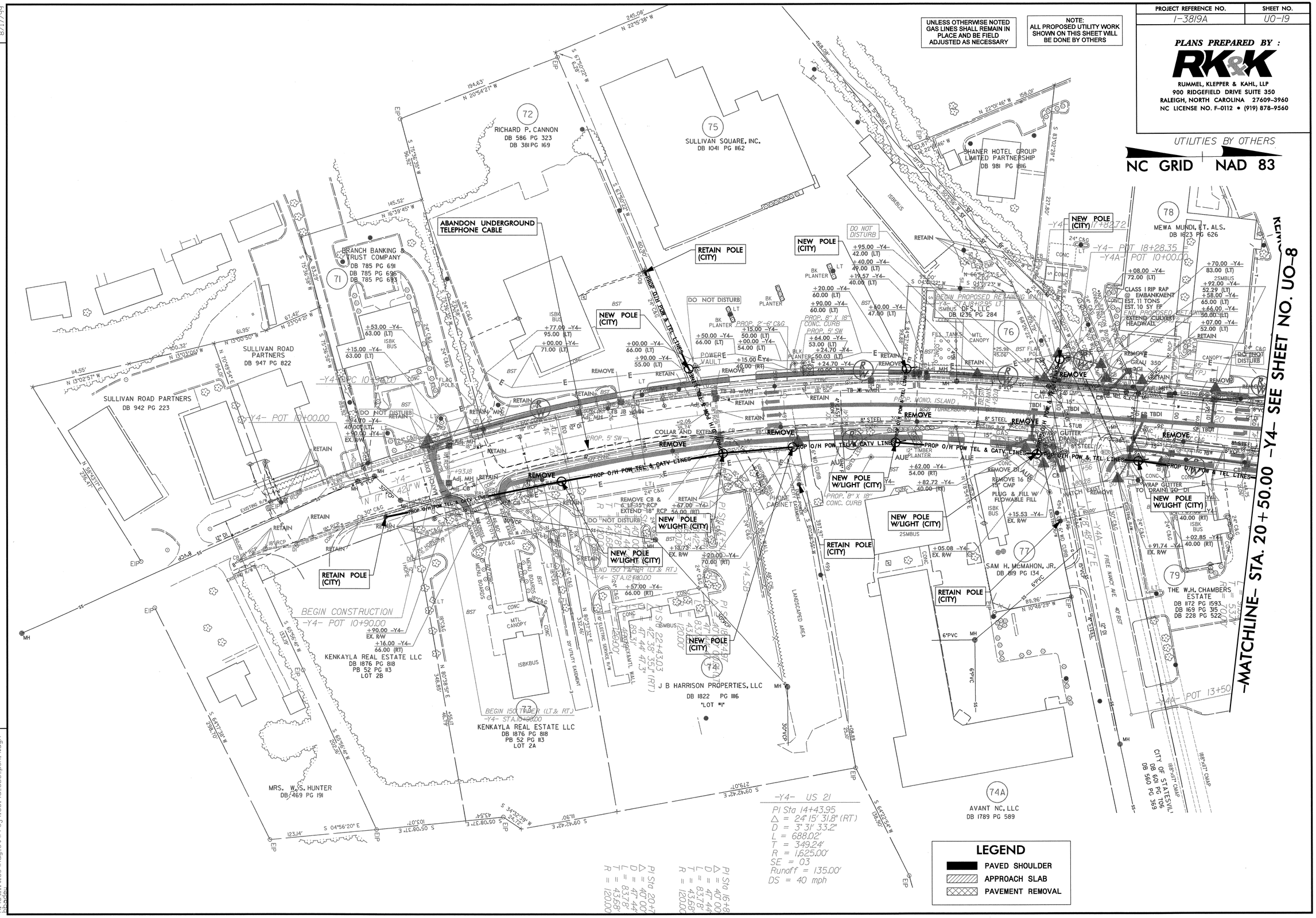
PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS

NC GRID NAD 83



REVISIONS

8/17/99

8/30/2011
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bbadey

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	UO-20

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

UTILITIES BY OTHERS

NOTE:
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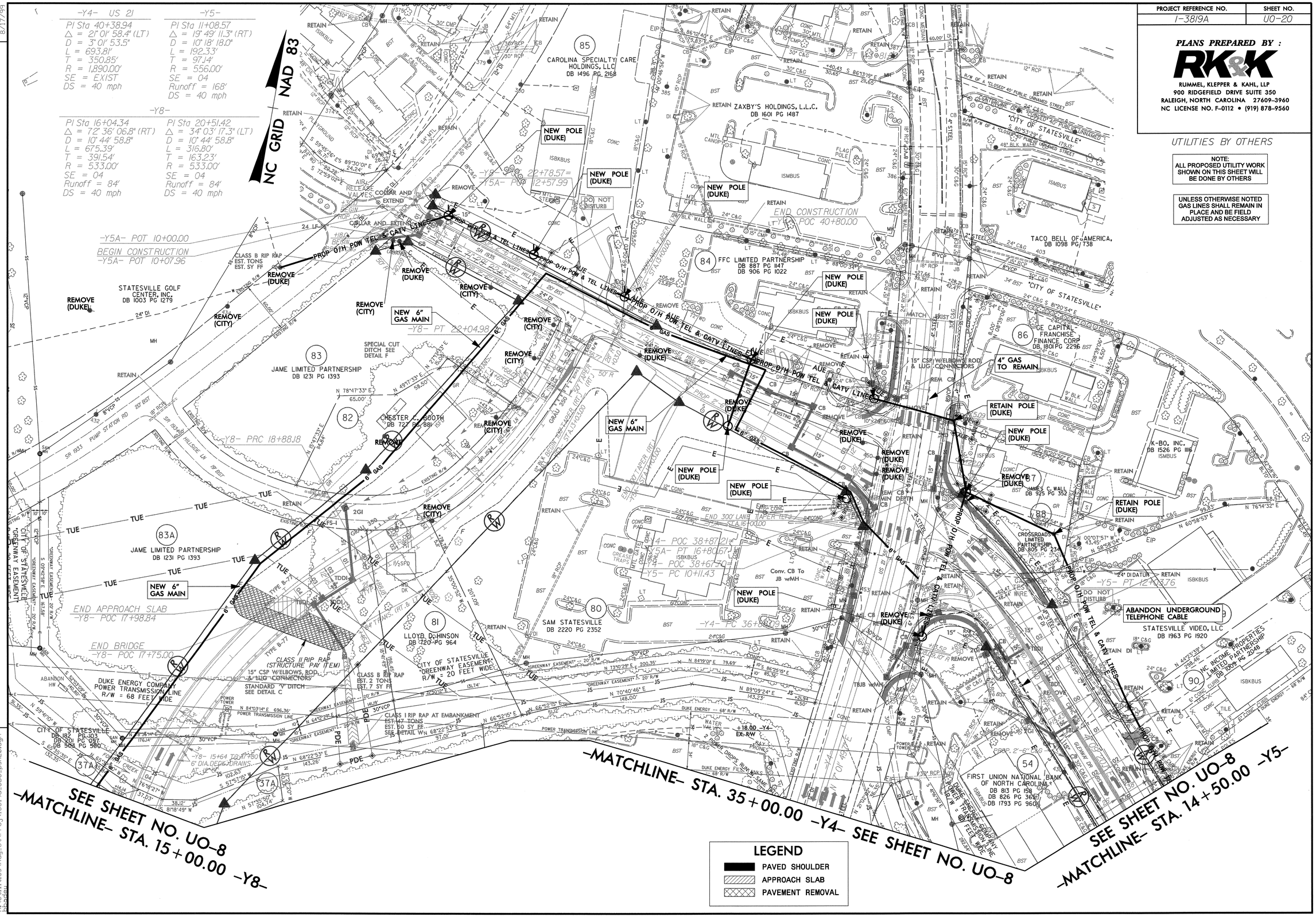
UNLESS OTHERWISE NOTED GAS LINES SHALL REMAIN IN PLACE AND BE FIELD ADJUSTED AS NECESSARY

-Y4- US 21
PI Sta 40+38.94
Δ = 21° 01' 58.4" (LT)
D = 3° 01' 53.5"
L = 693.81'
T = 350.85'
R = 1,890.00'
SE = EXIST
DS = 40 mph

-Y5-
PI Sta 11+08.57
Δ = 19° 49' 11.3" (RT)
D = 10° 18' 18.0"
L = 192.33'
T = 97.14'
R = 556.00'
SE = 04
Runoff = 168'
DS = 40 mph

-Y8-
PI Sta 16+04.34
Δ = 72° 36' 06.8" (RT)
D = 10° 44' 58.8"
L = 675.39'
T = 391.54'
R = 533.00'
SE = 04
Runoff = 84'
DS = 40 mph

PI Sta 20+51.42
Δ = 34° 03' 17.3" (LT)
D = 10° 44' 58.8"
L = 316.80'
T = 163.23'
R = 533.00'
SE = 04
Runoff = 84'
DS = 40 mph



LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

REVISIONS

8/17/99

12/1/2011
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bbadey