09/08/99

TIP PROJECT: U-3823A

CONTRACT: C201301

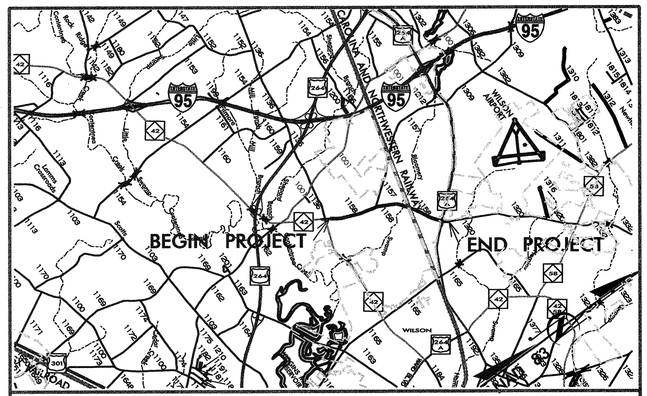
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	U-3823A	UC-1
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
WILSON COUNTY

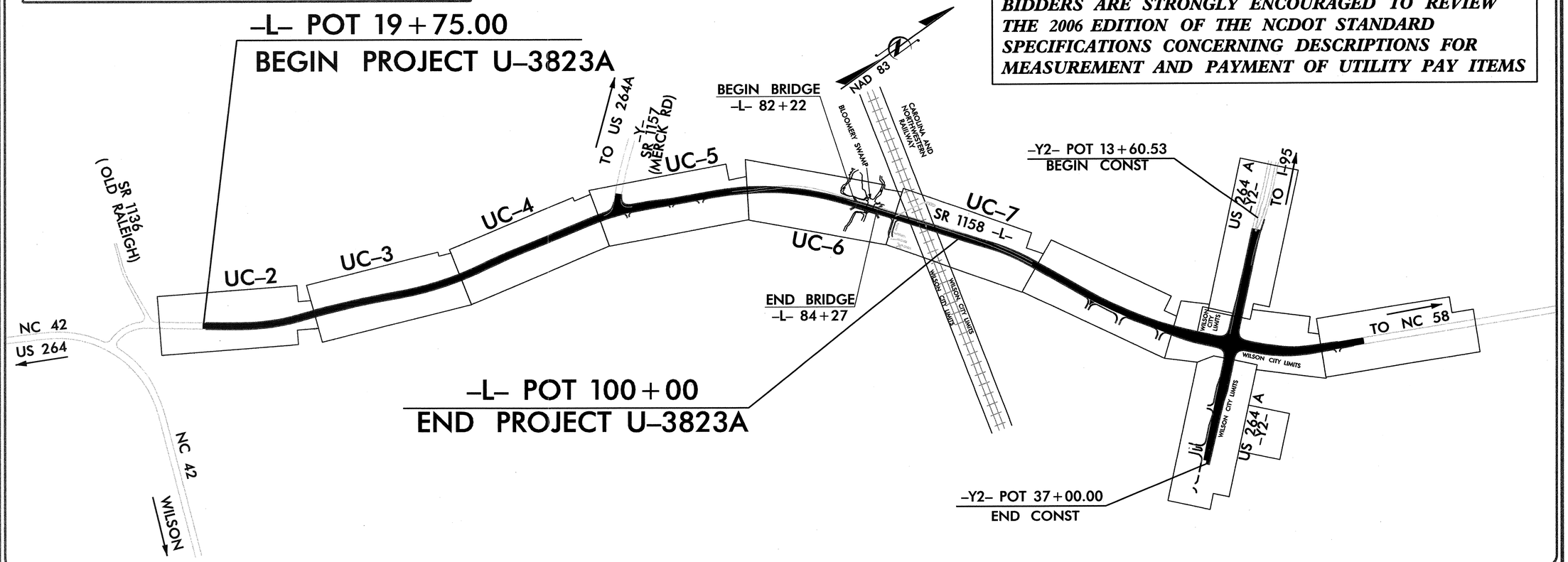
LOCATION: SR 1158 (AIRPORT BLVD.) FROM EAST OF NC 42 TO EAST OF CAROLINA AND NORTHWESTERN RAILROAD

TYPE OF WORK: UTILITIES RELOCATION

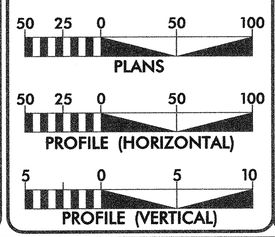


VICINITY MAP

NOTE:
BIDDERS ARE STRONGLY ENCOURAGED TO REVIEW THE 2006 EDITION OF THE NCDOT STANDARD SPECIFICATIONS CONCERNING DESCRIPTIONS FOR MEASUREMENT AND PAYMENT OF UTILITY PAY ITEMS



GRAPHIC SCALES



INDEX OF SHEETS

SHEET No.	DESCRIPTION
UC–1	TITLE SHEET
UC–2 THRU UC–7	UTILITY CONSTRUCTION DRAWINGS
UC–8	PROFILE SHEET
UC–9 THRU UC–12	DETAIL SHEETS

UTILITY OWNERS ON PROJECT

CITY OF WILSON

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-9481

NORTH CAROLINA PROFESSIONAL SEAL 6202 ENGINEER JIMMY D. WOODIE

JIMMY D. WOODIE
UTILITY ENGINEER
DATE

$$$$$$$$$$SYSTIME$$$$$
$$$$$$$$$$USERNAME$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$

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PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-2

UTILITY CONSTRUCTION DRAWINGS

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 216 MOREHEAD CITY, N.C. 28557 (252) 726-5981

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 026281 GARY D. WOODIE
6/22/07 3/7/2007

8/17/99

REVISIONS

NAD 83

NORMAN R. WATSON
DB 1147 PG 333

NORMAN J. WATSON
DB 1366 PG 104

JANICE B. WATSON, et al
DB 1147 PG 333
DB 1280 PG 117

RONALD R. WATSON
DB 1866 PG 886

PATSY W. GARDNER
DB 1867 PG 70

TEMPIE PIERCE
DB 098E PG 447
PB 13 PG 25

TOMMIE WILLIAMSON
DB 1314 PG. 686

MARGARET W. MORRIS
DB 1314 PG. 696

TOMMIE WILLIAMSON
DB 1314 PG 686

LAURA W. SCHWARTZ
DB 1213 PG 702

MARIE W. TOMLINSON
DB 1314 PG 691

1 MARGARET MORRIS, et al
DB 1446 PG 244
DB 349 PG 118
DB 1314 PG 696
DB 1139 PG 295
DB 1271 PG 215
DB 150 PG 159

2

3

NO UTILITY RELOCATION ON THIS SHEET

SYSTEM ENGINEERED AND DESIGNED

PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-3

UTILITY CONSTRUCTION DRAWINGS

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 346 WAXHAW, N.C. 28173
P.O. BOX 369 BOONE, N.C. 28607 (828) 262-1767

NORTH CAROLINA PROFESSIONAL SEAL 022402 ENGINEER TIMMY D. WOODELL 3/9/2007

8/17/99

REVISIONS

MATCH TO SHEET UC-2

MATCH TO SHEET UC-4

PI Sta 33+30.01
Δ = 6°27'50.8" (RT)
D = 0°40'58.3"
L = 902.56'
T = 451.76'
R = 8,000.00'

PROPOSED 324 FEET FILL OR REMOVE ABANDONED 12 INCH PIPE (D.I. WATER)

TIE TO EXISTING WATER LINE USING 1- 12" D.I. 22 1/2° BEND AND NECESSARY FITTINGS

TIE TO EXISTING WATER LINE USING 1- 12" D.I. 22 1/2° BEND AND NECESSARY FITTINGS

TIE TO EXISTING WATER LINE USING 1- 12" D.I. 22 1/2° BEND AND NECESSARY FITTINGS

PROPOSED 80 FEET FILL OR REMOVE ABANDONED 12 INCH PIPE (D.I. WATER)

ABANDON 42+50.00 72.00' LT

PLUG

PROP. 1- 12" D.I. 22 1/2° BEND

PROPOSED 337 FEET OF 12 INCH DIWATER PIPE, CLASS 50, 350# WP

PROP. 1- 12" D.I. 22 1/2° BEND

PROPOSED 88 FEET OF 12 INCH D.I. WATER PIPE, CLASS 50, 350# WP

PROP. 10 FEET OF 1" COPPER WATER PIPE, TYPE K AND NECESSARY FITTINGS

NOTE:
BIDDERS ARE STRONGLY ENCOURAGED TO REVIEW THE 2006 EDITION OF THE NCDOT STANDARD SPECIFICATIONS CONCERNING DESCRIPTIONS FOR MEASUREMENT AND PAYMENT OF UTILITY PAY ITEMS.

PI Sta 41+98.30
Δ = 15°50'42.9" (LT)
D = 1°54'35.5"
L = 829.66'
T = 417.49'
R = 3,000.00'

TEMPIE PIERCE
DB 091E PG 447
PB 13 PG 25

RALPH A ELLIS AND WIFE POLLY D ELLIS
DB 1194 PG 605
PB 15 PG 156

DAVID R. ELLIS
DB 1463 PG 134
PB 15 PG 156

LINDA W. DANIEL
DB 1782 PG 462

HAZARDOUS SPILL RETENTION BASIN
SEE DETAIL 1 SHEET 2-A

CONCRETE LEVEL SPREADER
SEE DETAIL ON SHEET 2-B

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 'B' SHEET 2-A

SEE DETAIL 'A' ON SHEET 2-A

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PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-4

UTILITY CONSTRUCTION DRAWINGS

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 369 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-6941

NORTH CAROLINA PROFESSIONAL SEAL 6282 ENGINEER TIMMY D. WOODIE

8/17/99

REVISIONS

MATCH TO SHEET UC-3

MATCH TO SHEET UC-5

PROPOSED 1-12 INCH D.I. 22 1/2° BEND

RELOCATE EXIST. WATER METER USING 1- 12" x 1" TAPPING SADDLE, 1- 1" CORPORATION STOP AND 88 FEET OF 1" COPPER WATER PIPE, TYPE K

PROPOSED 702 FEET FILL OR REMOVE ABANDONED 12 INCH PIPE (D.I. WATER)

RELOCATE EXIST. WATER METER USING 1- 12" x 1" TAPPING SADDLE, 1- 1" CORPORATION STOP AND 79 FEET OF 1" COPPER WATER PIPE, TYPE K

RELOCATE EXIST. WATER METER USING 1- 12" x 1" TAPPING SADDLE, 1- 1" CORPORATION STOP AND 88 FEET OF 1" COPPER WATER PIPE, TYPE K

PROPOSED 712 FEET OF 12 INCH DI WATER PIPE, CLASS 50, 350# WP

ABANDON

PLUG

PROP. 1- 12 INCH D.I. 22 1/2° BEND

PROPOSED 12" WATER LINE SHALL BE INSTALLED ABOVE THE 60" DRAINAGE PIPES WITH APPROX. 2.5' COVER

PROPOSED 1-FIRE HYDRANT, 150# WP USING 1- 12" x 6" D.I. TEE AND 6 FEET OF 6 INCH D.I. WATER PIPE, CLASS 50, 350# WP AND 1- 6" GATE VALVE AND VALVE BOX, 200# WP.

TIE TO EXISTING WATER LINE USING 1- 12" D.I. 22 1/2° BEND AND NECESSARY FITTINGS

CLASS I RIP RAP TO ELEV.= 115.0' EST. 8 TONS

CLASS I RIP RAP TO ELEV.= 112.5' EST. 11 TONS

CONCRETE LEVEL SPREADER SEE DETAIL ON SHEET 2-B

SPECIAL LATERAL GRASS SWALE SEE DETAIL 'A' ON SHEET 2-A

STANDARD GRASSED SWALE SEE DETAIL 'F' ON SHEET 2-A

SPECIAL LATERAL 'V' DITCH SEE DETAIL 'B' ON SHEET 2-A

(3) TEMPIE PIERCE DB 091E PG 447 PB 13 PG 25

(8) JOHN T PERRY DB 1123 PG 361

(9) URAH T. WILLIAMSON, et al DB 703 PG 292 DB 1891 PG 158

(7) U.T. & MARCIA WILLIAMSON DB 2059 PG 870 PB 20 PG 53

(10) JENNIFER W & FRANK A WILLIAMSON DB 2059 PG 867 PB 20 PG 53

(11) URAH T. WILLIAMSON, et al DB 703 PG 292 DB 1891 PG 158

PRC 46+10.47

PT 50+60.48

TS 56+45.50

SC 57+95.50

Pis Sta 57+45.50
Θs = 2°15' 00.0"
Ls = 150.00'
LT = 100.01'
ST = 50.01'

TH 0 · TH 38 · TH 8 · TH 39

SR 1158 AIRPORT BLVD. B.T.

NOTE:
BIDDERS ARE STRONGLY ENCOURAGED TO REVIEW THE 2006 EDITION OF THE NCDOT STANDARD SPECIFICATIONS CONCERNING DESCRIPTIONS FOR MEASUREMENT AND PAYMENT OF UTILITY PAY ITEMS.

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PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-5

UTILITY CONSTRUCTION DRAWINGS

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 369 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MORHEAD CITY, N.C. 28557 (252) 726-9481

NORTH CAROLINA PROFESSIONAL SEAL 16802 ENGINEER TIMMY D. WOODIE
3/7/2007

8/17/99

REVISIONS

SEE SHEET UC-8 FOR 12" WATER LINE (PROFILE 2)

PROPOSED 960 FEET OF 12 INCH DI WATER PIPE, CLASS 50, 350# WP

PROPOSED 454 FEET, FILL OR REMOVE ABANDONED 12 INCH PIPE (D.I. WATER)

TIE TO EXISTING WATER LINE USING 1- 12" D.I. 22 1/2° BEND AND NECESSARY FITTINGS

GREGORY-THOMAS DEV. CO. INC DB 2006 PG 278 (14)

BOBBY L ROWE DB 1657 PG 337

JIM BERRY WORELL DB 1343 PG 52 PB 19 PG 230

URAH T. WILLIAMSON, et al (9)

STATION 0+00 BEGIN 12" WATER LINE

PLUG

ABANDON

PROFILE 2

MATCH TO SHEET UC-4

MATCH TO SHEET UC-6

SPECIAL LATERAL 'V' DITCH SEE DETAIL 'B' ON SHEET 2-A

SPECIAL LATERAL 'V' DITCH SEE DETAIL 'E' ON SHEET 2-A

SPECIAL LATERAL GRASS SWALE SEE DETAIL 'A' ON SHEET 2-A

USE ROCK SILT CHECK TYPE 'B' STD. 1633.02 EVERY 40 FT. FROM STA. 68+50 -L- TO 70+00 -L-

PROP. 1- 12" D.I. 22 1/2° BEND

DO NOT DISTURB SIGN

WILSON CHRISTIAN SCHOOL DB 1584 PG 355 (13)

WILSON CHRISTIAN ACADEMY INC. DB 1824 PG 550 (12)

RECONNECT EXIST. FIRE HYDRANT USING 1-12"x 6" D.I. TEE WITH 11 FEET OF 6 INCH D.I. WATER PIPE, CLASS 50, 350# WP AND 1-6 INCH GATE VALVE AND VALVE BOX, 200# WP

RELOCATE EXIST. WATER METER USING 1- 12" x 1" TAPPING SADDLE 1- 1" CORPORATION STOP AND 16 FEET OF 1" COPPER WATER PIPE, TYPE K

RELOCATE EXIST. WATER METER USING 1- 12" x 1" TAPPING SADDLE 1- 1" CORPORATION STOP AND 5 FEET OF 1" COPPER WATER PIPE, TYPE K

RECONNECT EXIST. FIRE HYDRANT USING 1- 12" x 6" D.I. TEE WITH 5 FEET OF 6 INCH D.I. WATER PIPE, CLASS 50, 350# WP AND 1-6 INCH GATE VALVE AND VALVE BOX, 200# WP

NOTE:
BIDDERS ARE STRONGLY ENCOURAGED TO REVIEW THE 2006 EDITION OF THE NCDOT STANDARD SPECIFICATIONS CONCERNING DESCRIPTIONS FOR MEASUREMENT AND PAYMENT OF UTILITY PAY ITEMS.

SR 1157 (MERCK ROAD) 1500 11000 — 500 5700 — 4000 22000 — 1000 5300 — 4500 21600 — SR 1158 AIRPORT BLVD.) — 2000 2025

USER NAME = SYSTEM
DESIGN

PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-6

UTILITY CONSTRUCTION DRAWINGS

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 369 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16282 JOHN D. WOODS
3/7/2007

8/17/99

REVISIONS

GREGORY-THOMAS DEV. CO. INC
DB 2006 PG 278

SPECIAL LATERAL GRASS SWALE SEE DETAIL 'A' ON SHEET 2-A
USE ROCK SILT CHECK TYPE 'B' STD. 1633.02 EVERY 40 FT. FROM STA. 73+50 -L- TO 75+00 -L-

PROPOSED 104 FEET OF 24 INCH D.I. SEWER PIPE, CLASS 50, (TO BE INSTALLED ALONG THE SAME GRADE AND ALIGNMENT)

PROPOSED 1-8" D.I. PLUG

PROPOSED 959 FEET OF 12 INCH D.I. WATER PIPE, CLASS 50, 350# WP

WILSON CHRISTIAN SCHOOL
DB 1584 PG 355

PROPOSED 1- 12" x 8" D.I. TEE WITH 75 FEET OF 8 INCH D.I. WATER PIPE, CLASS 50, 350# WP AND 1-8 INCH GATE VALVE AND VALVE BOX, 200# WP

NOTE: BIDDERS ARE STRONGLY ENCOURAGED TO REVIEW THE 2006 EDITION OF THE NCDOT STANDARD SPECIFICATIONS CONCERNING DESCRIPTIONS FOR MEASUREMENT AND PAYMENT OF UTILITY PAY ITEMS.

GREGORY-THOMAS DEV. CO. INC

PROPOSED MANHOLE 'A' STA. 0+00 LINE 1
STA. 77+01 45 FEET RIGHT OF LINE -L-

PROPOSED 1-12 INCH GATE VALVE AND VALVE BOX, 200# WP
REMOVE PAVEMENT
REMOVE 2-UTILITY MANHOLE

PROFILE 2

PROPOSED 233 FEET OF 12 INCH D.I. SEWER PIPE, CLASS 50

PROP. 2- 12 INCH D.I. 45° BEND

PROPOSED 242 FEET OF 12 INCH D.I. SEWER PIPE, CLASS 50

CONCRETE LEVEL SPREADER SEE DETAIL ON SHEET 2-B

HAZARDOUS SPILL RETENTION BASIN SEE DETAIL '3' SHEET 2-A

NOTE: CONTRACTOR WILL BE RESPONSIBLE FOR ANY NECESSARY PUMPING AND HAULING OF SEWER. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROP. 24 INCH D.I. SEWER PIPE

PROPOSED MANHOLE 'B' STA. 2+33 LINE 1
STA. 79+38 45 FEET RIGHT OF LINE -L-

PROPOSED 390 FEET, FILL OR REMOVE ABANDONED 12" SEWER PIPE (PVC)

ABANDON

BEGIN 14" HDPE, DR 9
CS 80+33.53
ST 81+83.53

WILSON CHRISTIAN SCHOOL
DB 1584 PG 355

PROP. MANHOLE 'C' WITH VENT, STA. 4+75 LINE 1
STA. 81+83 45 FEET RIGHT OF LINE -L-

PROPOSED 280 FEET OF 12 INCH D.I. SEWER PIPE, CLASS 50

CLASS II RIP RAP TO ELEV. = 111.0'

PROPOSED 144 FEET OF 16 INCH PVC SEWER PIPE, SDR 35

PROPOSED 52 FEET OF 12 INCH D.I. WATER PIPE, CLASS 50, 350# WP

PROP. 145 FEET-24 INCH STEEL ENCASEMENT PIPE, 0.344" THICK, BY OPEN CUT

END 14" HDPE, DR 9

PROP. MANHOLE 'D' WITH VENT, STA. 7+55 LINE 1
STA. 84+59 45 FEET RIGHT OF LINE -L-

PROPOSED 1-12 INCH GATE VALVE AND VALVE BOX, 200# WP

PROP. 1- 12 INCH D.I. 45° BEND

REMOVE UTILITY MANHOLE

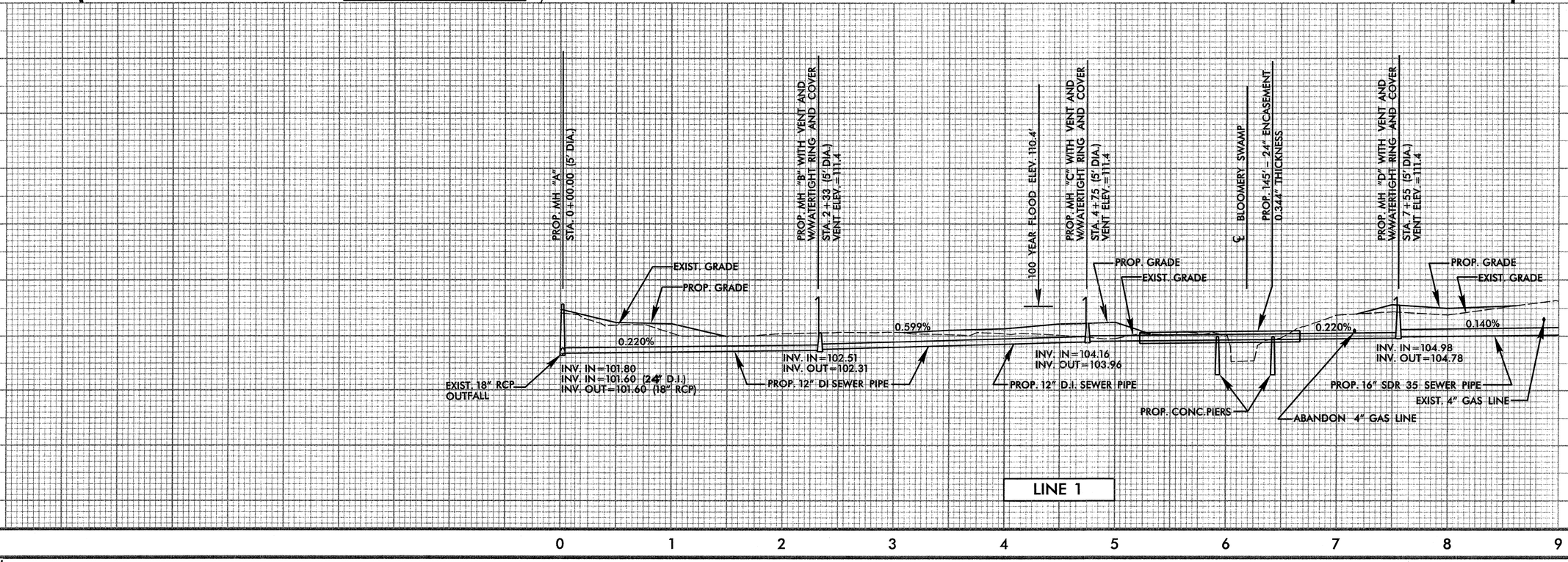
PROP. 395 FEET OF 14 INCH HDPE, WATER PIPE, DR 9

TIE TO EXISTING WATER PIPE USING 1- 12 INCH D.I. 45° BEND AND NECESSARY FITTINGS

HERITAGE PLACE OF WILSON, LLC
DB 1826 PG 743

MATCH TO SHEET UC-5

MATCH TO SHEET UC-7



LINE 1

$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$DGN$$$$

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PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-7

UTILITY CONSTRUCTION DRAWINGS

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 345 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 696 MATTHEWS, N.C. 28107 (704) 814-1940

NORTH CAROLINA PROFESSIONAL SEAL 6282 ENGINEER JIMMY D. WOODY
3/7/2007

8/17/99

REVISIONS

MATCH TO SHEET UC-6

HERITAGE PLACE OF WILSON, LLC DB 2080 PG 806 (16)

REMOVE UTILITY MANHOLE

-L- 86+90.58 54.83' LT

-L- 87+61.19 54.82' LT

150' TAPER

-L- 87+53.02 65.00' LT

NORFOLK AND SOUTHERN RAILROAD

EXISTING RR R/W

-L- 88+72.3 75.10' LT

88+45.00 END ISLAND

4' CONC ISLAND

88+90.00 BEGIN ISLAND

89+90.00 END ISLAND

-L- 90+74.43 76.18' LT

PROPOSED 196 FEET, FILL OR REMOVE ABANDONED 12" SEWER PIPE (PVC)

-L- POT 85+06.44 = -Y3- POT 10+00.00

EXISTING MANHOLE 'G' STA. 11+01 LINE 1

STA. 87+99 28.5 FEET RIGHT OF LINE -L-

PREFORMED SCOUR HOLE SEE DETAIL ON SHEET 2-A

-L- 92+75.73 75.49' LT

150' TAPER

N 53°01'17" E

HERITAGE PLACE OF WILSON, LLC DB 2080 PG 806 (16)

-L- 94+00.00 70.90' LT

SPECIAL LATERAL BASE DITCH SEE DETAIL 'D' ON SHEET 2-A

-L- 97+50.00 80.00' LT

-L- 97+50.00 70.00' LT

-L- 97+50.00 49.70' LT

-L- 99+21.11 48.70' LT

30" CONC C&G

12" PVC

15" RCP

24" RCP

TH 41

TH 20

COLLAR METER

REMOVE EXISTING 8" W

-L- 88+44.56 50.00' RT

-L- 88+63.24 75.00' RT

-L- 89+84.22 67.00' RT

-L- 89+70.84 50.00' RT

-L- 89+95.00 50.00' RT

-L- 90+00.00 62.00' RT

-L- 91+55.00 50.00' RT

-L- 91+55.60 61.00' RT

-L- 91+61.00 160.00' RT

-L- 91+95.00 125.00' RT

-L- 91+95.00 185.00' RT

-L- 91+75.00 185.00' RT

-L- 93+00.00 50.00' RT

-L- 93+00.00 55.00' RT

-L- 93+00.00 125.00' RT

-L- 94+49.48 50.00' RT

-L- 95+99.48 50.00' RT

-L- 95+99.48 68.00' RT

-L- 97+38.35 50.00' RT

-L- 99+22.26 51.30' RT

-L- 98+63.40 68.00' RT

TS 94+49.48

SC 95+99.48

CS 98+63.40

PROPOSED 174 FEET OF 16 INCH PVC SEWER PIPE, SDR 35

PROPOSED 28 FEET OF 16 INCH SEWER PIPE, SDR 35

PROPOSED MANHOLE 'E' STA. 8+99 LINE 1 STA. 86+03 45 FEET RIGHT OF LINE -L-

PROPOSED MANHOLE 'F' STA. 10+73 LINE 1 STA. 87+77 45 FEET RIGHT OF LINE -L-

-Y3- PC 11+67.76

-Y3- PT 12+17.76

-Y3- POT 13+00.00

Sta. 11+60

Δ = 42° 49' 23.0" (LT)

D = 54° 14' 02.7"

L = 78.9'

T = 41.15'

R = 105.00'

S 79° 05' E

RELOCATE EXIST. FIRE HYDRANT USING 28 FEET OF 6 INCH D.I. WATER PIPE, CLASS 50, 350# WP

HAZARDOUS SPILL RETENTION BASIN SEE DETAIL '6' SHEET 2-A

CONCRETE LEVEL SPREADER SEE DETAIL ON SHEET 2-B

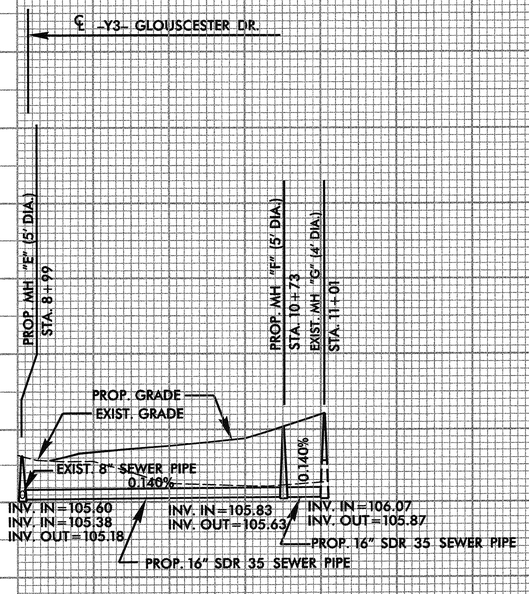
HERITAGE CROSSING, LLC DB 2075 PG 330 (17)

NOTE: BIDDERS ARE STRONGLY ENCOURAGED TO REVIEW THE 2006 EDITION OF THE NCDOT STANDARD SPECIFICATIONS CONCERNING DESCRIPTIONS FOR MEASUREMENT AND PAYMENT OF UTILITY PAY ITEMS.

Pis Sta 96+49.48
Θs = 2°15'00.0"
Ls = 150.00'
LT = 100.01'
ST = 50.01'

PI Sta 97+31.65
Δ = 7°55'04.0" (RT)
D = 3°00'00.0"
L = 263.93
T = 132.17'
R = 1909.86'

Pis Sta 99+13.41
Θs = 2°15'00.0"
Ls = 150.00'
LT = 100.01'
ST = 50.01'



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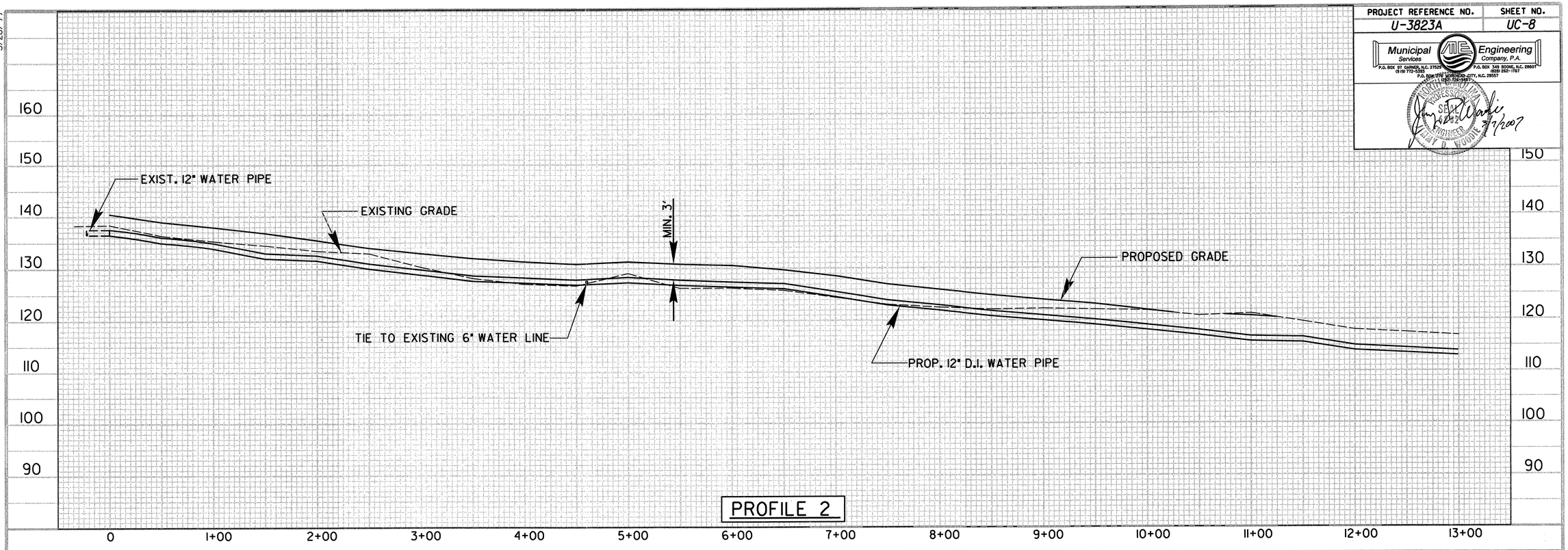
PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-8

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 348 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 1616 MORESHEAD CITY, N.C. 28557 (252) 808-2677

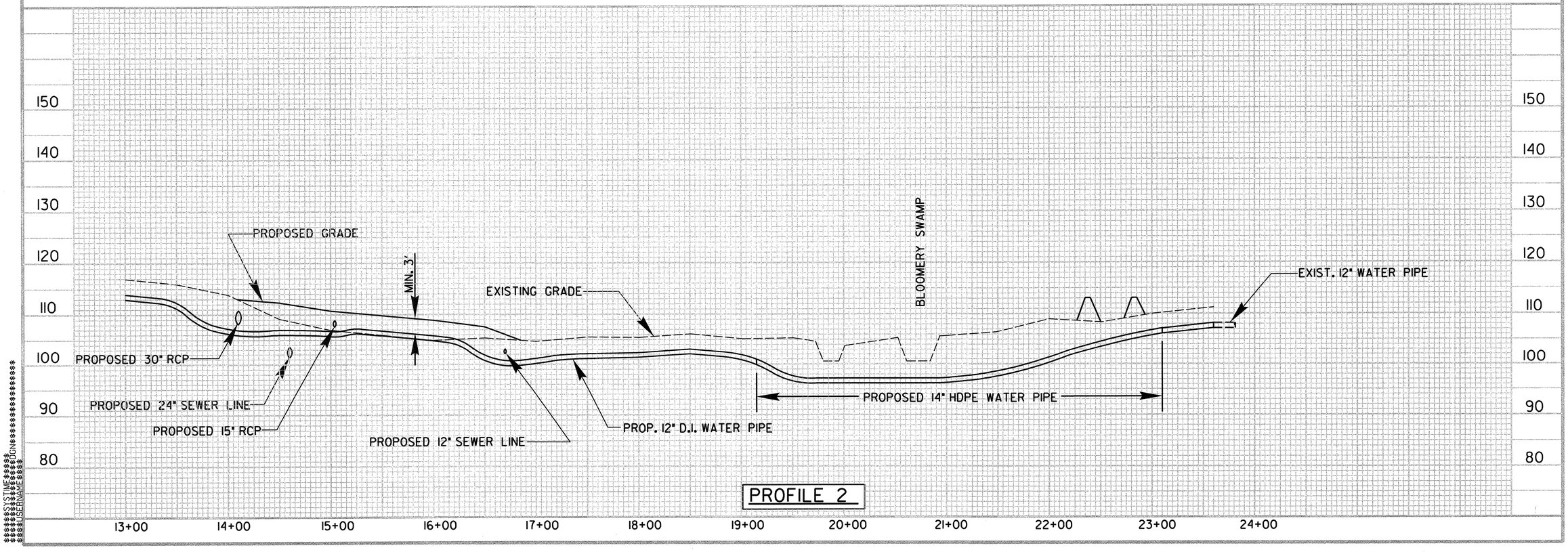
NORTH CAROLINA PROFESSIONAL SEAL 032252 ENGINEER JAMES W. WOODIE

3/7/2007

5/28/99



PROFILE 2



PROFILE 2

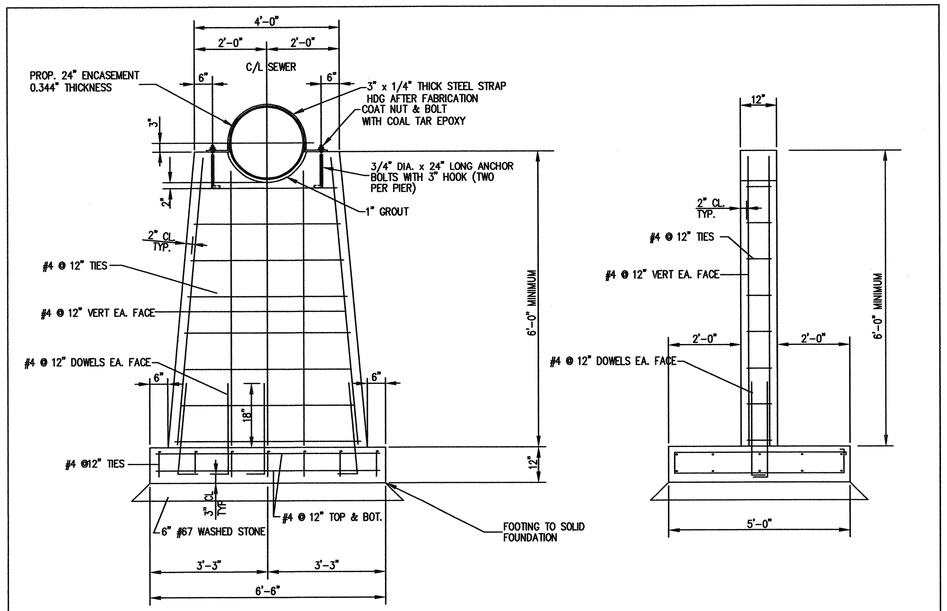
SYSTEM USED ON THIS SHEET IS MICROSTATION

8/17/99

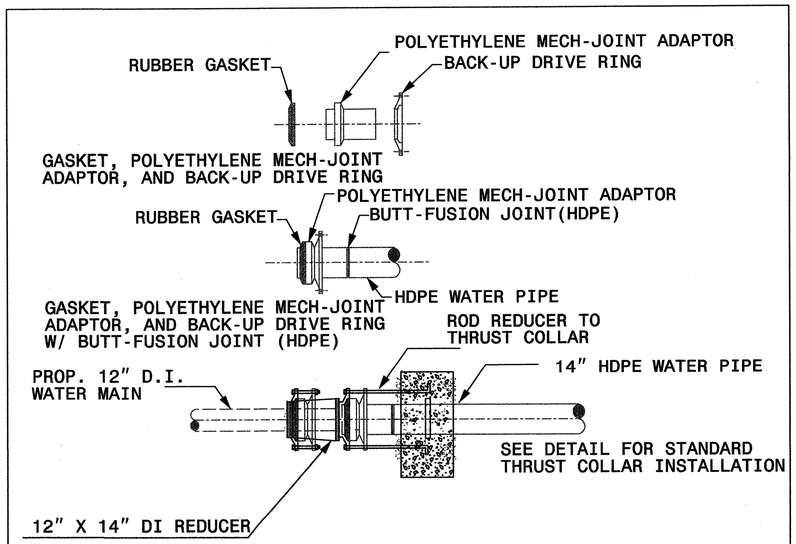
PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-9

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276, MONROE-ID CITY, N.C. 28557 (704) 726-7481

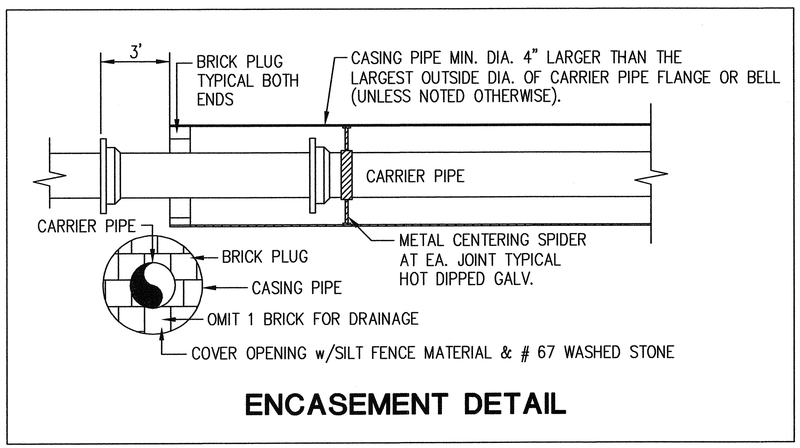
NORTH CAROLINA PROFESSIONAL SEAL 6282 ENGINEER TIMMY D. WOODY
3/7/2007



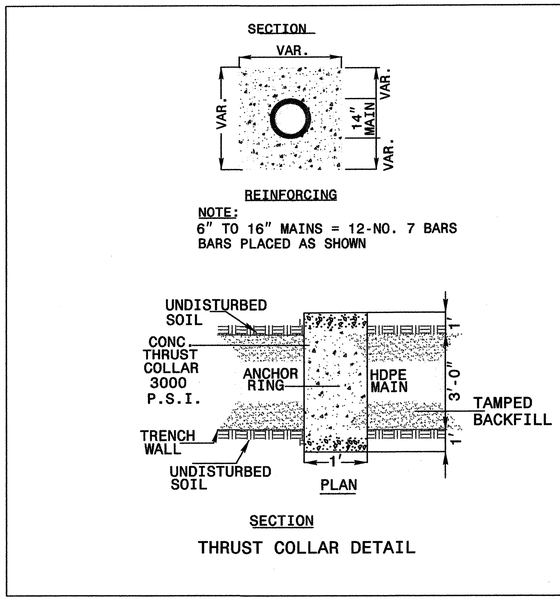
CONCRETE PIER DETAIL



CONNECTOR ASSEMBLY DETAILS (PROP. WATER LINE)



ENCASEMENT DETAIL



THRUST COLLAR DETAIL

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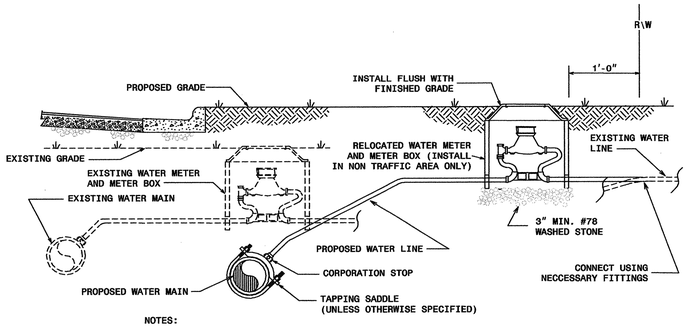
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-10

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-3481

NORTH CAROLINA PROFESSIONAL SEAL 6282 ENGINEER TIMMY D. MOORE 3/7/2007

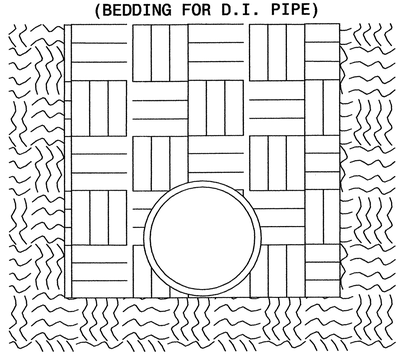


NOTES:

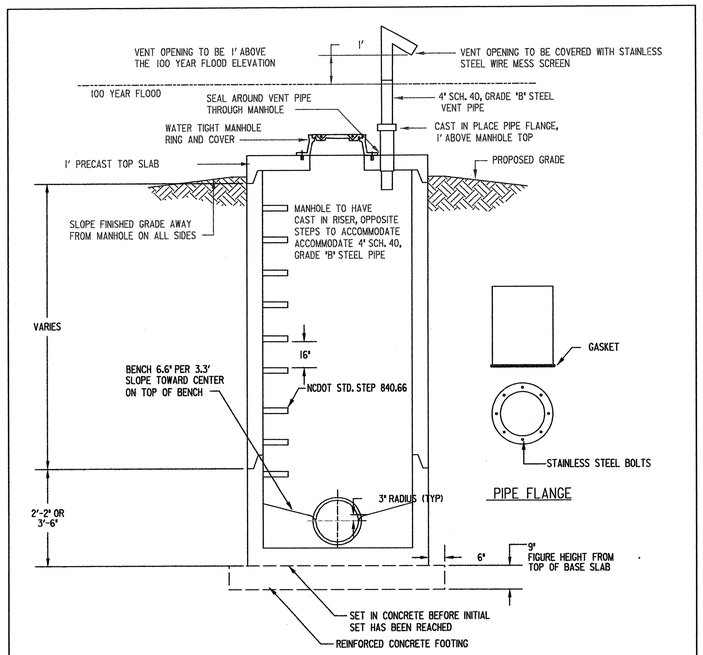
1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUN OF 36" COVER BELOW FINISHED GRADE.

WATER METER RELOCATION DETAIL

TYPE "2"
(BEDDING FOR D.I. PIPE)



PIPE BEDDED IN FLAT-BOTTOM TRENCH. 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.



NOTES:

1. VENT MUST BE FACTORY WELDED, FABRICATED AND GALVANIZED.
2. MANHOLE NUMBER NEEDS TO COINCIDE WITH VENT NUMBER.
3. PRECAST MANHOLE COMPONENTS SHALL MEET REQUIREMENTS OF AASHTO M199.
4. RISERS AND GRADE RINGS SHALL BE ASSEMBLED IN SUCH A MANNER AS TO CAUSE THE STEPS TO HAVE A SPACING OF 16" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.
5. WHERE MANHOLE IS TO BE EXPOSED TO ROADWAY TRAFFIC, THE TOP OF THE MANHOLE IS TO BE FLUSH WITH THE GROUND; AND AT OTHER LOCATIONS THE TOP SHOULD BE A MINIMUM OF 9" ABOVE THE GROUND.
6. REINFORCED CONCRETE FOOTING IS REQUIRED WHEN THE MANHOLE IS OVER 12' OR ON POOR SOIL BASE. THE FOOTING AND BASE SECTION MAY BE PRECAST.

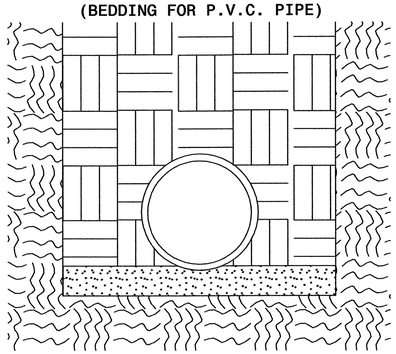
5' PRECAST WATER TIGHT VENTED MANHOLE DETAIL

NOT TO SCALE

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		

CLASS "C"
(BEDDING FOR P.V.C. PIPE)



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.

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-3823A	UC-11

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276, MONROE-SO CITY, N.C. 28057 (257) 726-5481

NORTH CAROLINA PROFESSIONAL ENGINEER 21203 JOHN D. WOOLPERT

BASED ON TEST PRESSURE OF 200 P.S.I.

HORIZONTAL RESTRAINT
(ALL AREAS GIVEN ARE IN SQUARE FEET)

PIPE SIZE	DEGREE OF BEND	LBS. STATIC THRUST *	ALLOWABLE SOIL BEARING (PSF) 1000	2000	3000	4000	5000	6000	7000	8000
4"	11 1/4°	616	1	1	1	1	1	1	1	1
	22 1/2°	1,226	1	1	1	1	1	1	1	1
	45°	2,405	2	1	1	1	1	1	1	1
	90°	4,444	4	2	1	1	1	1	1	1
	TEE/PLUG	3,143	3	2	1	1	1	1	1	1
6"	11 1/4°	1,385	2	1	1	1	1	1	1	1
	22 1/2°	2,758	3	2	1	1	1	1	1	1
	45°	5,409	5	3	2	2	1	1	1	1
	90°	9,999	10	5	3	3	2	2	2	1
	TEE/PLUG	7,068	7	4	3	2	2	1	1	1
8"	11 1/4°	2,424	3	1	1	1	1	1	1	1
	22 1/2°	4,904	5	3	2	1	1	1	1	1
	45°	9,619	10	5	3	2	2	2	2	1
	90°	17,773	18	9	6	4	4	3	3	2
	TEE/PLUG	12,568	13	6	4	3	3	2	2	2
10"	11 1/4°	3,846	4	2	2	1	1	1	1	1
	22 1/2°	7,661	8	4	3	2	2	2	1	1
	45°	15,028	15	8	5	4	3	3	2	2
	90°	27,768	28	14	9	7	6	5	4	3
	TEE/PLUG	19,635	20	10	7	5	4	3	3	2
12"	11 1/4°	5,543	6	3	2	2	1	1	1	1
	22 1/2°	11,032	11	6	4	3	2	2	2	2
	45°	21,641	22	11	7	5	4	4	3	3
	90°	39,987	40	20	13	10	8	7	6	5
	TEE/PLUG	28,274	28	14	9	7	6	5	4	4
14"	11 1/4°	7,544	8	4	3	2	2	2	1	1
	22 1/2°	15,016	15	8	5	4	3	3	2	2
	45°	29,455	29	15	10	7	6	5	4	4
	90°	54,426	54	27	18	14	11	9	8	7
	TEE/PLUG	38,485	38	19	13	10	8	6	5	5
16"	11 1/4°	9,854	10	5	3	3	2	2	2	2
	22 1/2°	19,612	20	10	7	5	4	3	3	3
	45°	38,471	38	17	13	10	8	6	5	5
	90°	71,085	71	36	24	18	14	12	10	9
	TEE/PLUG	50,265	50	25	17	13	10	8	7	6

* INCLUDES 1.25 SAFETY FACTOR

VERTICAL RESTRAINT
(ALL VOLUMES GIVEN ARE IN CUBIC YARDS)**

PIPE SIZE	RESTRAINING RODS NO.REQ'D	RESTRAINING RODS DIA.	DEGREE OF BEND 11 1/4°	22 1/2°	45°
4"	2	1/2"	0.25	0.50	0.75
6"	2	1/2"	0.50	1.0	1.75
8"	2	5/8"	0.75	1.50	3.0
10"	2	3/4"	1.25	2.25	4.50
12"	2	7/8"	1.75	3.25	6.50
14"	4	5/8"	2.25	4.50	8.75
16"	4	3/4"	3.0	6.0	11.50

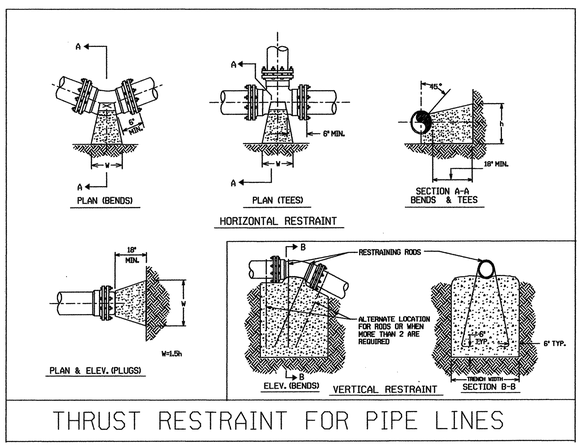
**INCLUDES 1.50 SAFETY FACTOR

GENERAL NOTES:
1. CONCRETE SHALL BE CLASS "B".
2. CONCRETE SHALL NOT CONTACT BOLTS ENDS OF MECHANICAL JOINT FITTINGS.
3. CONSULT WITH ENGINEER FOR CONCRETE REQUIREMENTS ON MAINS LARGER THAN 16 INCHES. (FOR VERTICAL & HORIZONTAL BENDS)
4. ALLOWABLE SOIL BEARING SHALL BE DETERMINED BY THE ENGINEER.

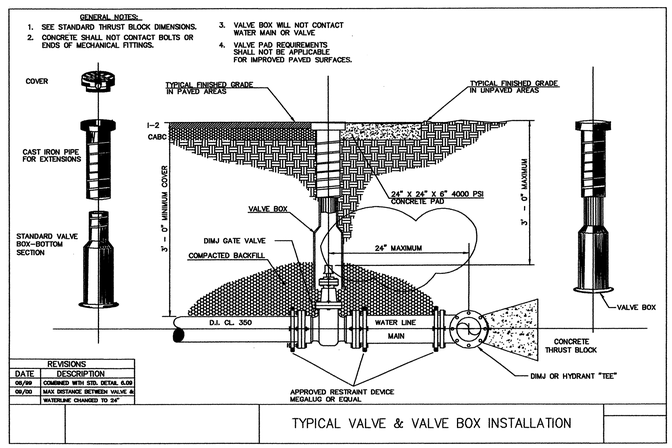
REVISIONS		
NO.	DATE	DESCRIPTION

SHEET 2 OF 2

THRUST RESTRAINT FOR WATER MAINS
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
RALEIGH, N.C.

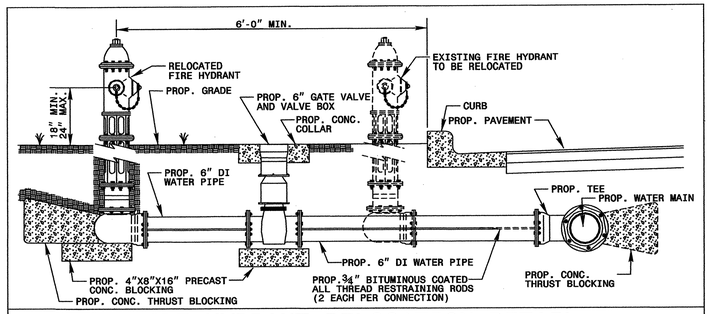


THRUST RESTRAINT FOR PIPE LINES

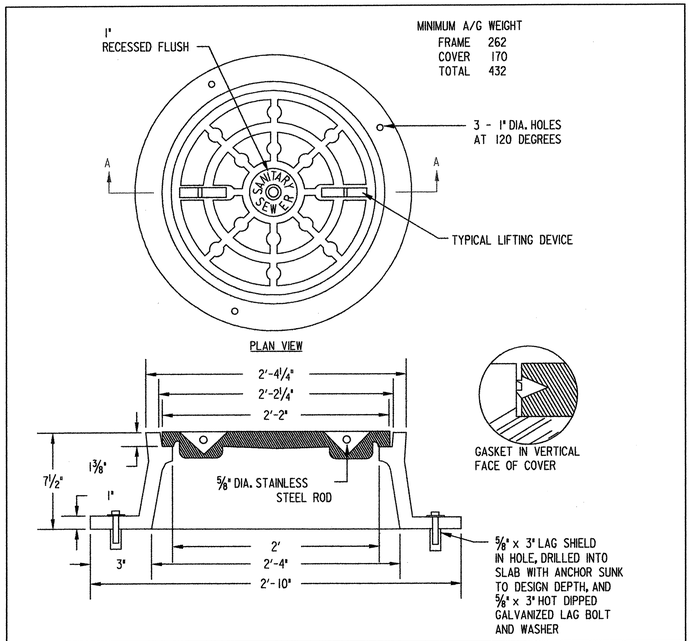


REVISIONS	
DATE	DESCRIPTION
05/00	COMBINED WITH STD. DETAIL 6.00
09/00	MAX DISTANCE BETWEEN VALVE & WATERLINE CHANGED TO 24"

TYPICAL VALVE & VALVE BOX INSTALLATION



FIRE HYDRANT RELOCATION DETAIL



WATER TIGHT MANHOLE RING AND COVER
NOT TO SCALE

SYSTIMED DESIGNED

09/08/99

TIP PROJECT: U-3823A

CONTRACT: C201301

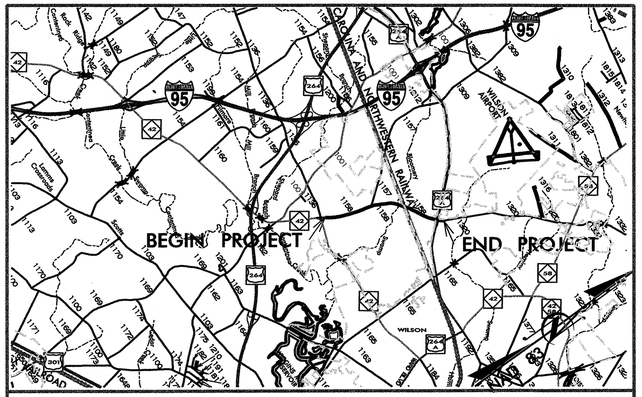
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	U-3823A	UO-1
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

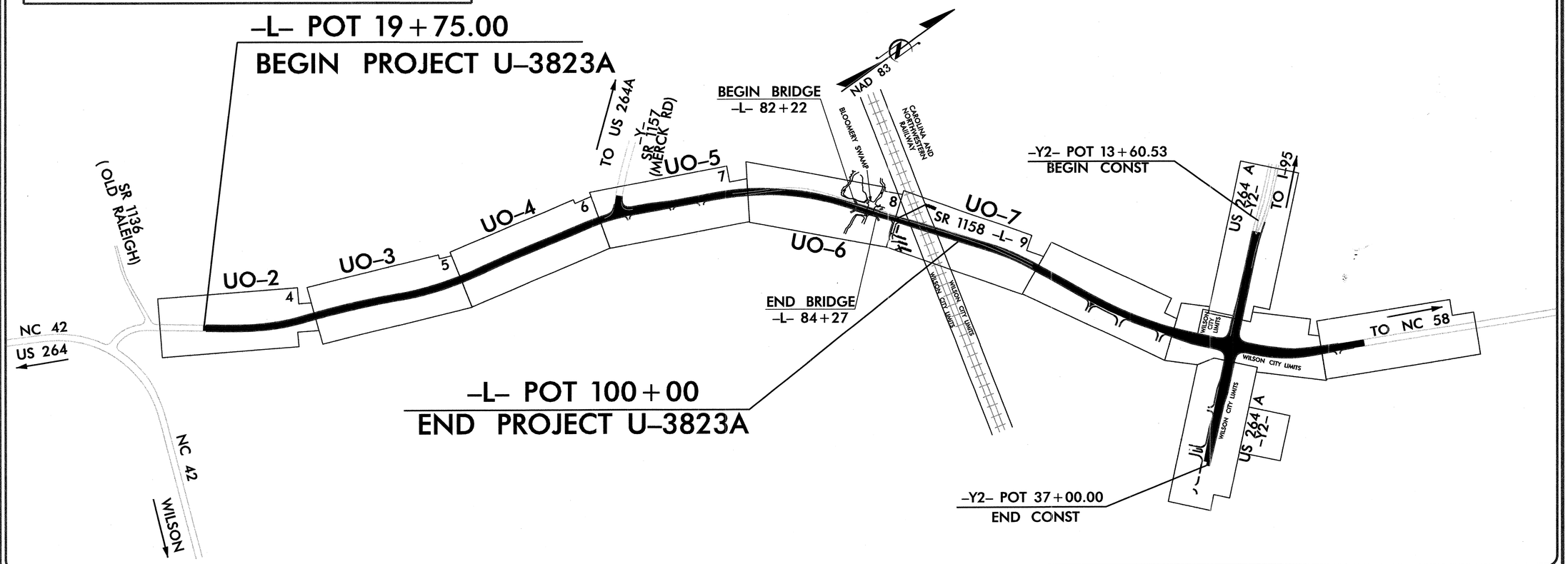
UTILITIES BY OTHERS
WILSON COUNTY

LOCATION: *SR 1158 (AIRPORT BLVD.) FROM EAST OF NC 42 TO EAST OF CAROLINA AND NORTHWESTERN RAILROAD*

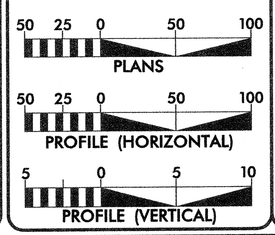
TYPE OF WORK: *UTILITIES RELOCATION*



VICINITY MAP



GRAPHIC SCALES



INDEX OF SHEETS

SHEET No.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-7	UTILITIES BY OTHERS DRAWINGS

UTILITY OWNERS ON PROJECT

(1) THE CITY OF WILSON (NATURAL GAS)
(2) THE CITY OF WILSON (POWER)
(3) EMBARQ (TELEPHONE)
(4) TIME WARNER (CATV)

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-9481

JIMMY D. WOODIE
UTILITY ENGINEER *DATE*

$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$DGN$$$$

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PROJECT REFERENCE NO.	SHEET NO.
U-3823-A	U0-2

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-9401

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

8/17/99

REVISIONS

NAD '83

NORMAN R. WATSON
DB 1147 PG 333

NORMAN J. WATSON
DB 1366 PG 104

JANICE B. WATSON, et al
DB 1147 PG 333
DB 1280 PG 117

RONALD R. WATSON
DB 1866 PG 886

PATSY W. GARDNER
DB 1867 PG 70

TEMPIE PIERCE
DB 0916 PG 447
PB 13 PG 25

TOMMIE WILLIAMSON
DB 1314 PG. 686

MARGARET W. MORRIS
DB 1314 PG. 696

TOMMIE WILLIAMSON
DB 1314 PG 686

LAURA W. SCHWARTZ
DB 1213 PG 702

MARIE W. TOMLINSON
DB 1314 PG 691

MARGARET MORRIS, et al
DB 1446 PG 244
DB 349 PG 118
DB 1314 PG 696
DB 1139 PG 295
DB 1271 PG 215
DB 150 PG 159

-L- POT 19+75.00
BEGIN PROJECT U-3823

PC 21+76.17

PCC 24+51.71

PRC 28+78.25

BY3-1A PINC 5+00.00
-L- POC 26+65.51 17.59' RT

PI Sta 23+44.03
Δ = 5° 00' 45.3" (LT)
D = 1° 49' 08.9"
L = 275.55'
T = 137.86'
R = 3,149.60'

PI Sta 26+65.80
Δ = 12° 13' 09.9" (LT)
D = 2° 51' 53.2"
L = 426.54'
T = 214.08'
R = 2,000.00'

UTILITIES BY OTHERS

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PROJECT REFERENCE NO.	SHEET NO.
U-3823-A	U0-3

Municipal Services / Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 249 ROXBORO, N.C. 27573 (336) 599-1766
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-9481

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

8/17/99

REVISIONS

MATCH TO SHEET U0-2

MATCH TO SHEET U0-4

PROP. O/H POW TEL & CATV LINES

PROP O/H POW TEL & CATV LINES

PI Sta 33+30.01
Δ = 6° 27' 50.8" (RT)
D = 0° 42' 58.3"
L = 902.56'
T = 451.76'
R = 8,000.00'

PI Sta 41+98.30
Δ = 15° 50' 42.9" (LT)
D = 1° 54' 35.5"
L = 329.66'
T = 417.49'
R = 3,000.00'

NAD 83

TEMPIE PIERCE
DB 09IE PG 447
PB 13 PG 25

RALPH A ELLIS AND WIFE POLLY D ELLIS
DB 1194 PG 605
PB 15 PG 156

DAVID R. ELLIS
DB 1463 PG 134
PB 15 PG 156

LINDA W. DANIEL
DB 1782 PG 462

-BL- GPS JKA-27 PINC 13+12.88
-L- POC 34+78.50 35.83' RT

PRC 37+80.81

SR 1158 AIRPORT BLVD. 2' BST

HAZARDOUS SPILL RETENTION BASIN SEE DETAIL 1 SHEET 2-A

CONCRETE LEVEL SPREADER SEE DETAIL ON SHEET 2-8

SPECIAL LATERAL 'V' DITCH SEE DETAIL 'B' SHEET 2-A

ABANDON

REMOVE

EXISTING R/W

30" CONC C&G

48" WD RAIL

42" BK ELEC

PDE

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$$$$$USERNAME$$$$$DGN$$$$$SYSTIME$$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-3823-A	UO-4

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-5981

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

8/17/99

REVISIONS

PRC 46+10.47

PT 50+60.48

-L- N 13° 34' 01.3" E

-BL- GPS JKA-28 PINC 25+74.52
-L- POC 47+36.78
43.78' RT

-BL-1 PINC 32+41.21
-L- POT 54+05.25
39.89' RT

TS 56+45.50

SC 57+95.50

SPECIAL LATERAL "V" DITCH
SEE DETAIL 'B' ON SHEET 2-A

Pi = Sta 57+45.50
Δs = 2°15'00.0"
Ls = 100.0'
LT = 100.0'
ST = 50.0'

MATCH TO SHEET UO-3

MATCH TO SHEET UO-5

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PROJECT REFERENCE NO.	SHEET NO.
U-3823-A	U0-5

Municipal Services Engineering Company, P.A.
P.O. BOX 97, GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 249, BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276, MOREHEAD CITY, N.C. 28557 (252) 726-9481

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

8/17/99

REVISIONS

URAH T. WILLIAMSON, et al

JIM BERRY MORELL DB 1343-PG 52 PB 19 PG 230

BOBBY L ROWE DB 1657 PG 337

GREGORY-THOMAS DEV. CO. INC DB 2006 PG 278 (14)

WILSON CHRISTIAN SCHOOL DB 1584 PG 355 (13)

WILSON CHRISTIAN ACADEMY INC. DB 1824 PG 550 (12)

URAH T. WILLIAMSON, et al (9)

MERCK RD

SR 1158 AIRPORT BLVD. BST

-L- POC 59+60.29 = -Y- PC 15+37.10

ST 61+97.28

CS 60+47.28

TS 68+15.71

SC 69+65.71

N 25° 37' 13.5" E

-BL-2 PINC 37+58.68
-BY- POT 9+18.65
-L- POC 59+27.18
38.36' RT

-BL-3 PINC 44+09.04
-L- POT 65+81.66
34.97' RT

LINE -Y-
PI Sta 12+69.35
Δ = 9° 22' 47" (LT)
D = 1° 44' 47.0"
L = 537.10'
T = 269.15'
R = 3,280.83'

Pls Sta 69+15.71
θs = 1° 41' 15.0"
Ls = 150.00'
LT = 100.00'
ST = 50.00'

NAD 83

SPECIAL LATERAL GRASS SWALE SEE DETAIL 'A' ON SHEET 2-A
USE ROCK SILT CHECK TYPE 'B' STD. 1633.02 EVERY 40 FT. FROM STA. 68+50 -L- TO 70+00 -L-

SPECIAL LATERAL 'V' DITCH SEE DETAIL 'E' ON SHEET 2-A

SPECIAL LATERAL 'V' DITCH SEE DETAIL 'B' ON SHEET 2-A

PROP O/H POW TEL & CATV LINES

DO NOT DISTURB SIGN

FLAGPOLE

ABANDON

REMOVE

MATCH TO SHEET U0-4

MATCH TO SHEET U0-6

SR 1157 (MERCK ROAD)	1500 / 11000
1000 / 5300	500 / 5700
4000 / 22000	
4500 / 21600	SR 1158 AIRPORT BLVD.)
SR 1158 AIRPORT BLVD.)	2000 / 2025

SYSTEM=$$$

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-3823-A	U0-6

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 249 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-5481

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

GREGORY-THOMAS DEV. CO. INC
DB 2006 PG 278

GREGORY-THOMAS DEV. CO. INC

SPECIAL LATERAL GRASS SWALE
SEE DETAIL 'A' ON SHEET 2-A
USE ROCK SILT CHECK TYPE 'B'
STD. 1633.02 EVERY 40 FT.
FROM STA. 73+50 -L- TO 75+00 -L-

-BL-5 PINC 56+64.15
-L- POC 78+42.72
24.80' LT

-BL-6 PINC 61+40.78
-L- POT 83+17.23
8.02' LT

-BL-4 PINC 51+68.08
-L- POC 73+48.50
36.50' RT

WILSON CHRISTIAN SCHOOL
DB 1584 PG 355

HERITAGE PLACE OF WILSON. LLC
DB 1826 PG 743

MATCH TO SHEET UO-5

MATCH TO SHEET UO-7

PROP. O/H POW TEL & CATV LINES

PROP. BURIED POWER
PROP. BURIED TELEPHONE

ST 81+83.53

CS 80+33.53

CONCRETE LEVEL SPREADER
SEE DETAIL ON SHEET 2-B

HAZARDOUS SPILL
RETENTION BASIN
SEE DETAIL '3' SHEET 2-A

HAZARDOUS SPILL
RETENTION BASIN
SEE DETAIL '4' SHEET 2-A

HAZARDOUS SPILL
RETENTION BASIN
SEE DETAIL '5' SHEET 2-A

REMOVE PAVEMENT

ABANDON

CLASS II RIP RAP
TO ELEV.= 111.0'

PROPERTY LINE IS THE CL OF STREAM

N 53°01'11.0"E

PI Sta 75+07.58
Δ = 24°01'33.5" (RT)
D = 2°15'00.0"
L = 1,067.82
T = 541.81'
R = 2,546.48'

Pis Sta 80+83.53
es = 0.41'5.0"
Ls = 150.00'
LT = 100.00'
ST = 50.00'

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PROJECT REFERENCE NO.	SHEET NO.
U-3823-A	U0-7

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 249 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-9481

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

8/17/99

REVISIONS

MATCH TO SHEET U0-6

NAD 83

-L- POT 86+06.44 =
-Y3- POT 10+00.00

-L- 87+53.02
65.00' LT

PROP. O/H POW TEL & CATV LINES

NORFOLK AND SOUTHERN RAILROAD

-L- 88+72.34
75.10' LT

88+90.00
BEGIN ISLAND

4' CONC ISLAND

89+90.00
END ISLAND

-L- 90+74.43
76.18' LT

PREFORMED SCOUR HOLE
SEE DETAIL ON SHEET 2-A

150' TAPER

-L- 92+75.73
75.49' LT

N 53° 01' 17.4" E

HERITAGE PLACE OF WILSON, LLC
DB 2080 PG 806

16

-L- 94+00.00
70.90' LT

SPECIAL LATERAL BASE DITCH
SEE DETAIL 'D' ON SHEET 2-A

-L- 97+50.00
80.00' LT

-L- 97+50.00
70.00' LT

-L- 97+50.00
49.70' LT

-L- 99+21.11
48.70' LT

-L- 86+90.58
54.83' LT

-L- 87+61.19
54.83' LT

PROP O/H POW & CATV LINES
EXISTING R/W

PROP O/H POW & CATV LINES

PROP O/H POW & CATV LINES

PROP O/H POW & CATV LINES

REM

RETAIN

TH 19

SR 1158 AIRPORT BLVD. 20' RST.

88+45.80
END ISLAND

4' CONC. ISLAND

RR SIGNAL

30" CONC C&G

REMOVE 40' EXISTING R/W

TH 41

TH 20

12" PVC

8" PVC

CHORD

-L- 88+43.56
50.00' RT

-L- 88+63.24
75.00' RT

-L- 89+95.00
50.00' RT

-L- 90+00.00
62.00' RT

-L- 89+84.22
67.00' RT

-L- 89+70.84
50.00' RT

-L- 91+55.00
50.00' RT

-L- 91+55.60
61.00' RT

-L- 91+61.00
160.00' RT

-L- 91+95.00
125.00' RT

-L- 91+95.00
185.00' RT

-L- 91+75.00
185.00' RT

-L- 93+00.00
50.00' RT

-L- 93+00.00
55.00' RT

-L- 93+00.00
125.00' RT

HAZARDOUS SPILL RETENTION BASIN
SEE DETAIL '6' SHEET 2-A

CONCRETE LEVEL SPREADER
SEE DETAIL ON SHEET 2-B

-L- 94+49.48
50.00' RT

-L- 95+99.48
50.00' RT

-L- 95+99.48
68.00' RT

-L- 97+38.35
50.00' RT

-L- 98+63.40
68.00' RT

-L- 99+22.26
51.30' RT

TS 94+49.48

SC 95+99.48

CS 98+63.40

-BL-9 PINC 77+61.75
-L- POS 99+42.04
23.18' RT

HERITAGE CROSSING, LLC
DB 2075 PG 330

17

-BL-8 PINC 71+81.73
-L- POT 93+58.14
1.04' LT

-BL-7 PINC 66+70.78
-L- POT 88+47.19
1.17' LT

15

S 38° 30' 42" E

-Y3- PC 11+39.31

-Y3- PT 12+17.76

-Y3- POT 13+00.00

S 19° 19' 05" E

PROP. O/H POW & CATV LINES

EXISTING R/W

Pt Sta 11+80.47
Δ = 42° 48' 23.0" (LT)
D = 54° 34' 02.7"
Ls = 78.16'
T = 41.16'
R = 105.00'

Pt Sta 95+49.48
Θs = 2° 15' 00.0"
Ls = 150.00'
LT = 100.01'
ST = 50.01'

Pt Sta 97+31.65
Δ = 7° 35' 04.0" (RT)
D = 3° 00' 00.0"
Ls = 150.00'
T = 132.17'
R = 1909.86'

Pt Sta 99+13.41
Θs = 2° 15' 00.0"
Ls = 150.00'
LT = 100.01'
ST = 50.01'

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