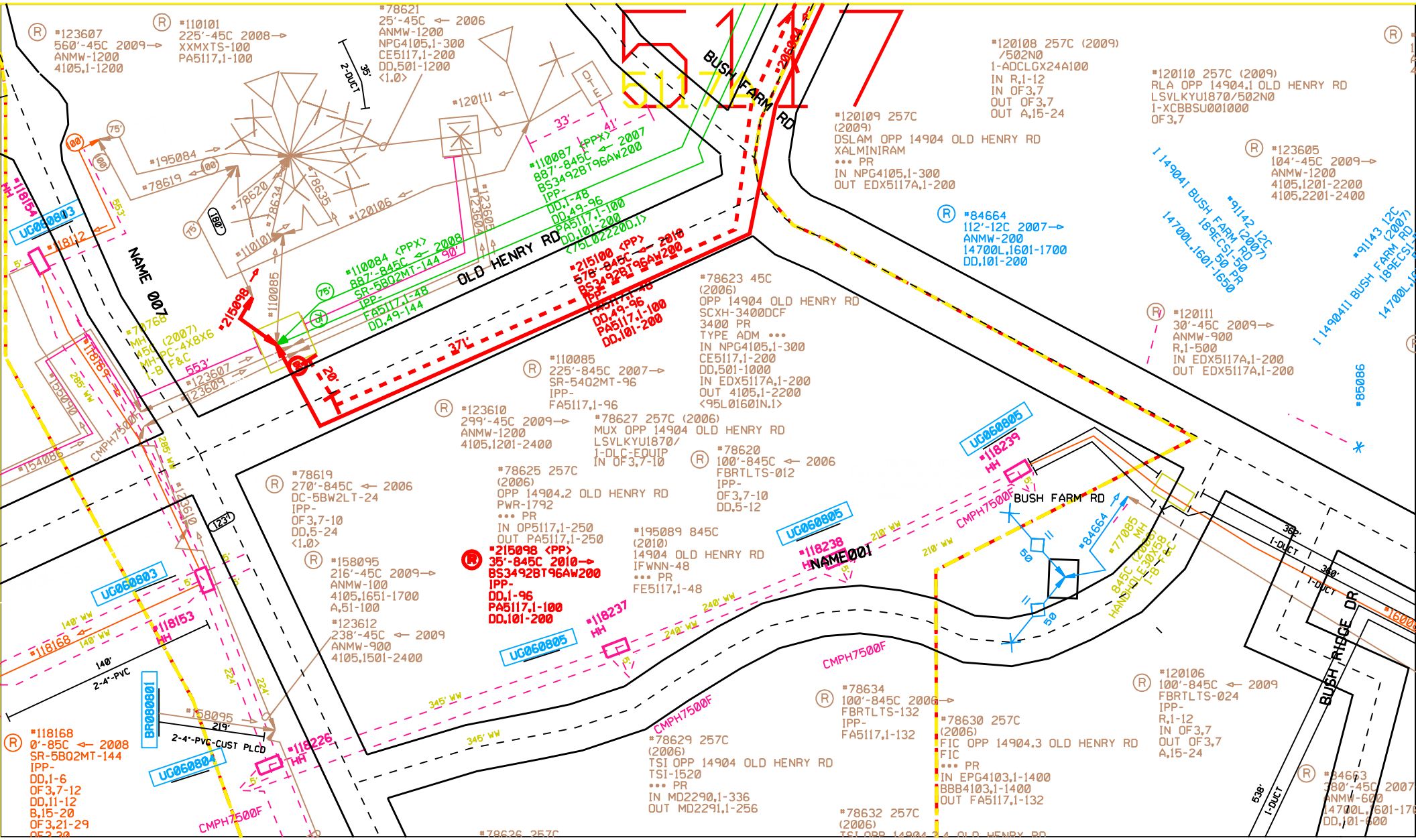
Appendix O1 – AT&T

NOTE FACILITY LOCATE CONTRACTOR:
CAUTION -
ANY BELLSOUTH OWNED BURIED POWER CABLES FEEDING POWER TRANSFER SWITCHES AND DLC CABINETS MUST BE LOCATED

D10608

OLD HENRY TRL
OLD HENRY RD
TERRA VIEW TR
NAME 005
NAME 006
NAME 008
EASTPOINT PKWY
RAMP
I 285 S
I 285 N
239
233


OLD HENRY RD
BUSH FARM RD
BUSH RIDGE DR
NAME 007
NAME001
#215098 <PP>
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BS3492BT96AW200
IPP-
DD,1-96
PA5117,1-100
DD,101-200
#110087 <PPX>
887'-845C 2007
BS3492BT96AW200
IPP-
DD,1-48
DD,49-96
PA5117,1-100
DD,101-200
<75L022200D,1>
#110084 <PPX>
887'-845C 2008
SR-5B02MT-144 90
IPP-
FA5117,1-48
DD,49-144
#78623 45C
(2006)
OPP 14904 OLD HENRY RD
SCXH-3400DCF
3400 PR
TYPE ADM •••
IN NPG4105,1-300
CE5117,1-200
DD,501-1000
IN EDX5117A,1-200
OUT 4105,1-2200
<95L01601N,1>
#78627 257C (2006)
MUX OPP 14904 OLD HENRY RD
LSVLKYU1870/
1-DLC-EQUIP
IN OF3,7-10
#78625 257C
(2006)
OPP 14904.2 OLD HENRY RD
PWR-1792
••• PR
IN OP5117,1-250
OUT PA5117,1-250
#195089 845C
(2010)
14904 OLD HENRY RD
IFWNN-48
••• PR
FE5117,1-48
#78629 257C
(2006)
TSI OPP 14904 OLD HENRY RD
TSI-1520
••• PR
IN MD2290,1-336
OUT MD2291,1-256
#78634
100'-845C 2006
FBRTLTS-132
IPP-
FA5117,1-132
#78630 257C
(2006)
FIC OPP 14904.3 OLD HENRY RD
FIC
••• PR
IN EPG4103,1-1400
BBB4103,1-1400
OUT FA5117,1-132
#78632 257C
(2006)
#120106
100'-845C 2009
FBRTLTS-024
IPP-
R,1-12
IN OF3,7
OUT OF3,7
A,15-24
#84663
380'-45C 2007
ANMW-600
14700L,1601-1700
DD,101-600
#120108 257C (2009)
/502N0
1-ADCLGX24A100
IN R,1-12
IN OF3,7
OUT OF3,7
OUT A,15-24
#120110 257C (2009)
RLA OPP 14904.1 OLD HENRY RD
LSVLKYU1870/502N0
1-XCBBSU001000
OF3,7
#120109 257C
(2009)
DSLAM OPP 14904 OLD HENRY RD
XALMINIRAM
••• PR
IN NPG4105,1-300
OUT EDX5117A,1-200
#84664
112'-12C 2007
ANMW-200
14700L,1601-1700
DD,101-200
#123605
104'-45C 2009
ANMW-1200
4105,1201-2200
4105,2201-2400
#120111
30'-45C 2009
ANMW-900
R,1-500
IN EDX5117A,1-200
OUT EDX5117A,1-200
#110085
225'-845C 2007
SR-5402MT-96
IPP-
FA5117,1-96
#123610
299'-45C 2009
ANMW-1200
4105,1201-2400
#78620
100'-845C 2006
FBRTLTS-012
IPP-
OF3,7-10
DD,5-12
#78619
270'-845C 2006
DC-5BW2LT-24
IPP-
OF3,7-10
DD,5-24
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216'-45C 2009
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A,51-100
#123612
238'-45C 2009
ANMW-900
4105,1501-2400
#118168
0'-85C 2008
SR-5B02MT-144
IPP-
DD,1-6
OF3,7-12
DD,11-12
B,15-20
OF3,21-29
#78621
25'-45C 2006
ANMW-1200
NPG4105,1-300
CE5117,1-200
DD,501-1200
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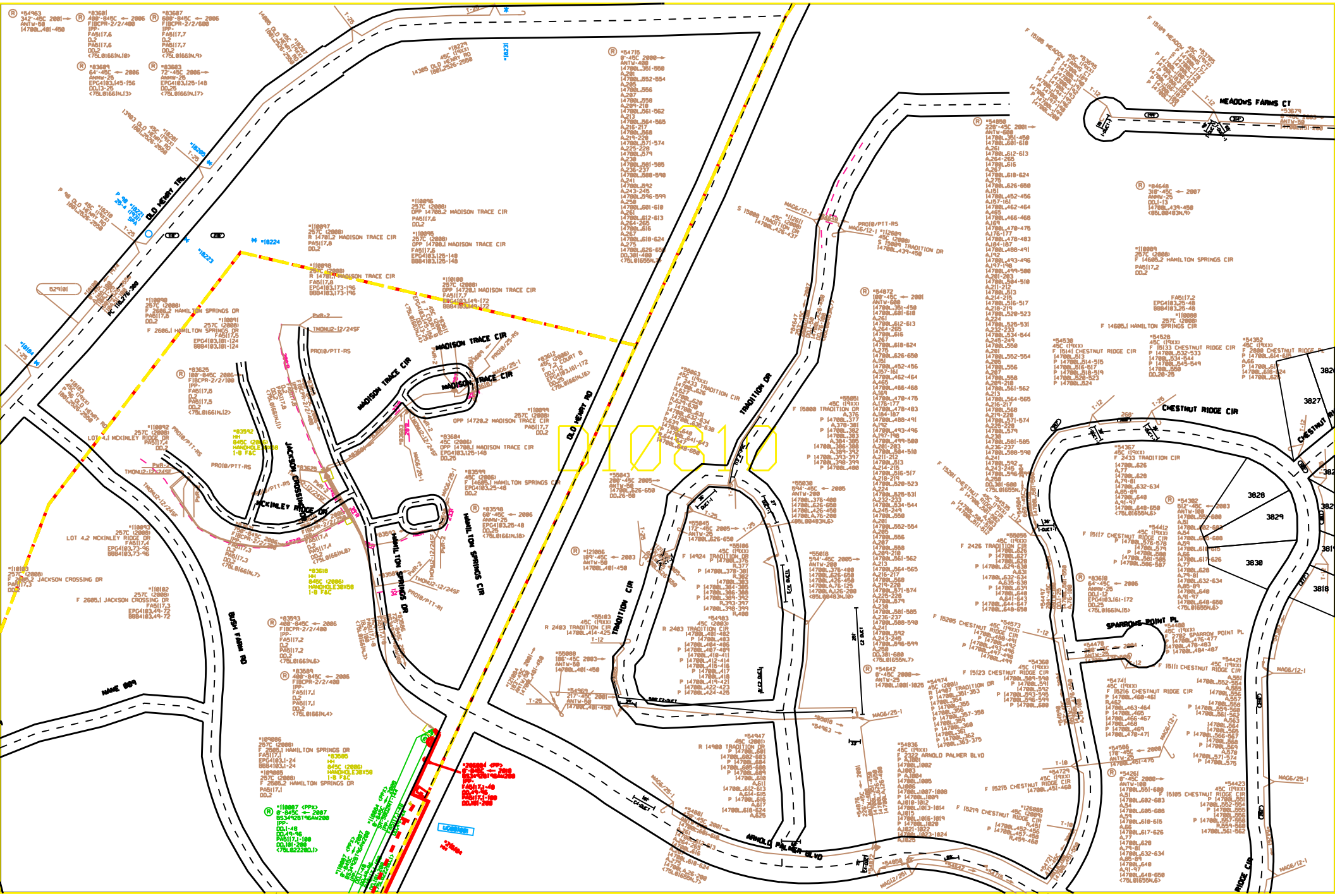
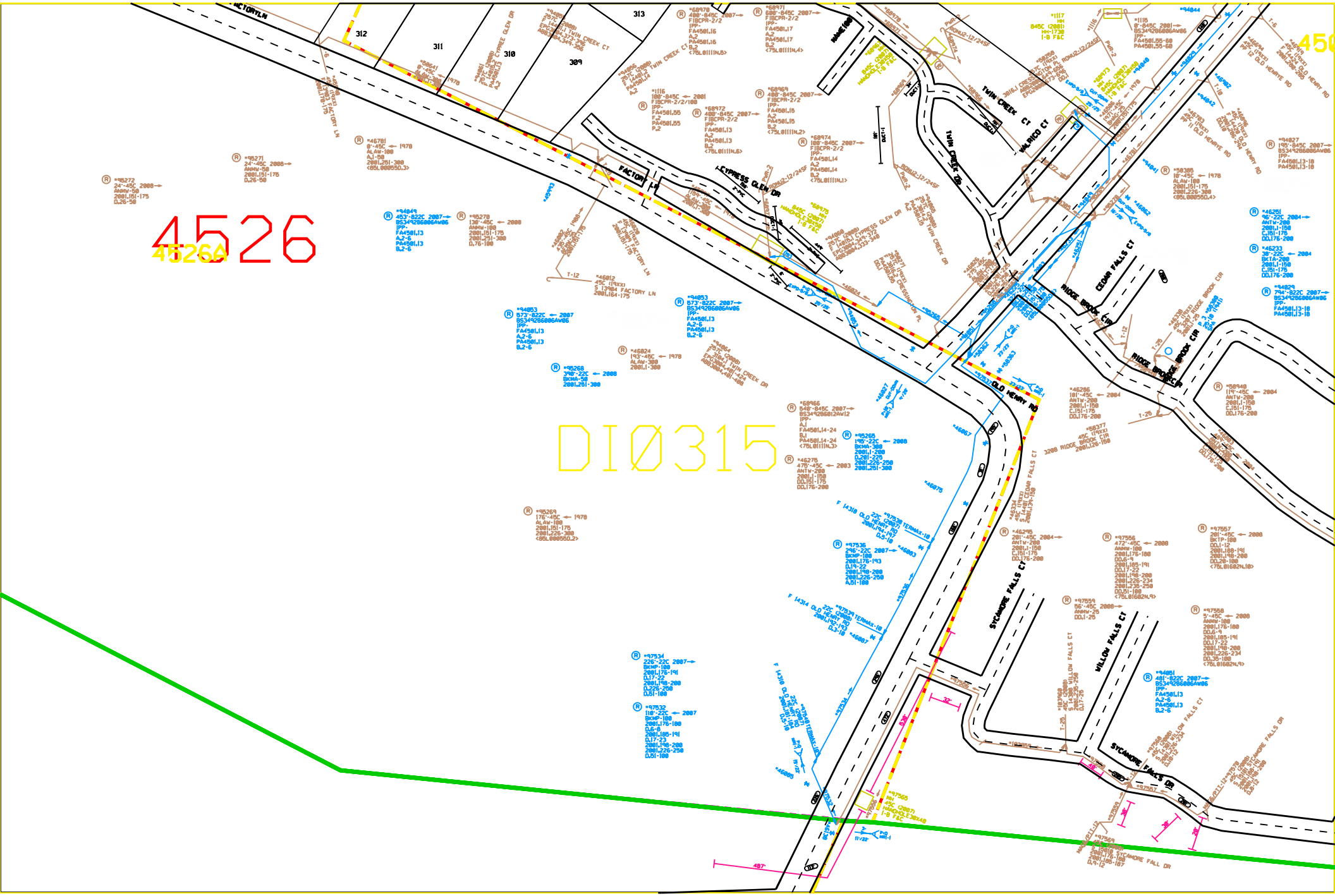
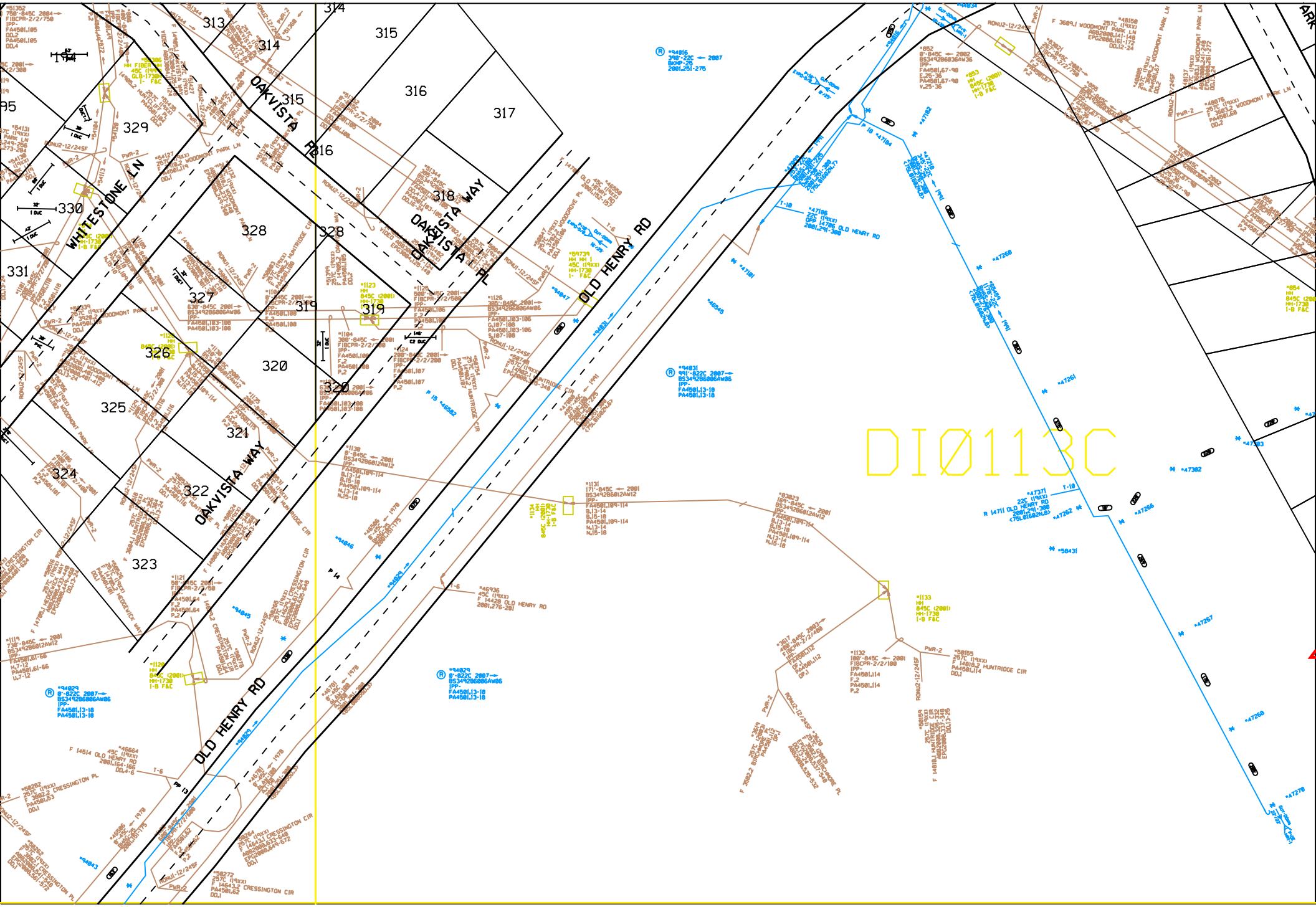
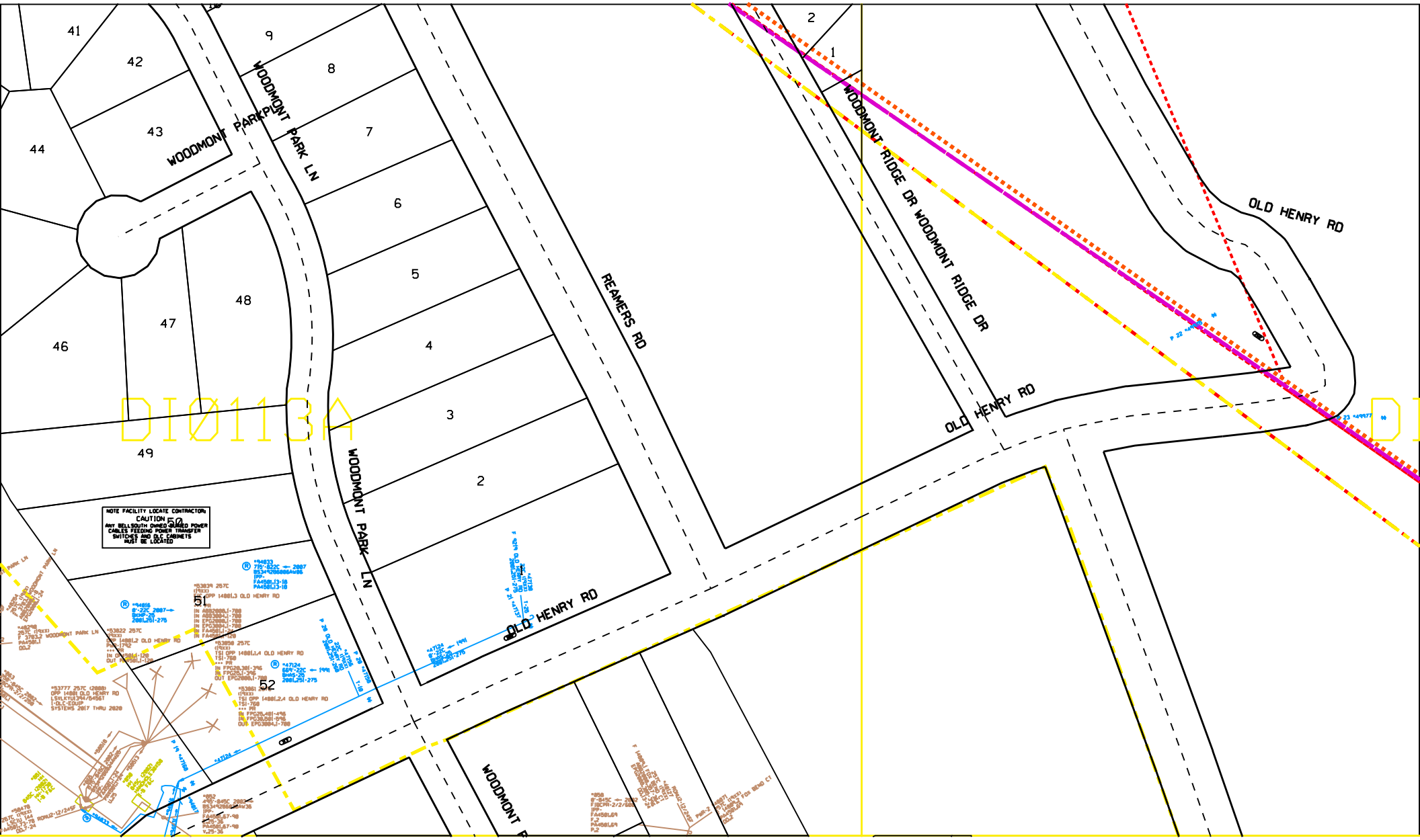
#195084
#78619
#78620
#78634
#78635
#120106
#120111
#110101
#110085
#123605
#123607
#123609
#77768
#118164
#118112
#118169
#155090
#154086
#118610
#118153
#118226
#118237
#118238
#118239
#91142 12C
(2007)
#91143 12C
(2007)
#85086
#77085
#84664
UC060803
UC060804
UC060805
BR090801
CMPH7500F
2-4"-PVC
2-4"-PVC-CUST PLCD
2-DUCT
1-DUCT
140' WW
345' WW
240' WW
210' WW
224'
219'
553'
285' WW
37'
20'
33'
41'
75'
90'
180'
123'
5'
380'
538'

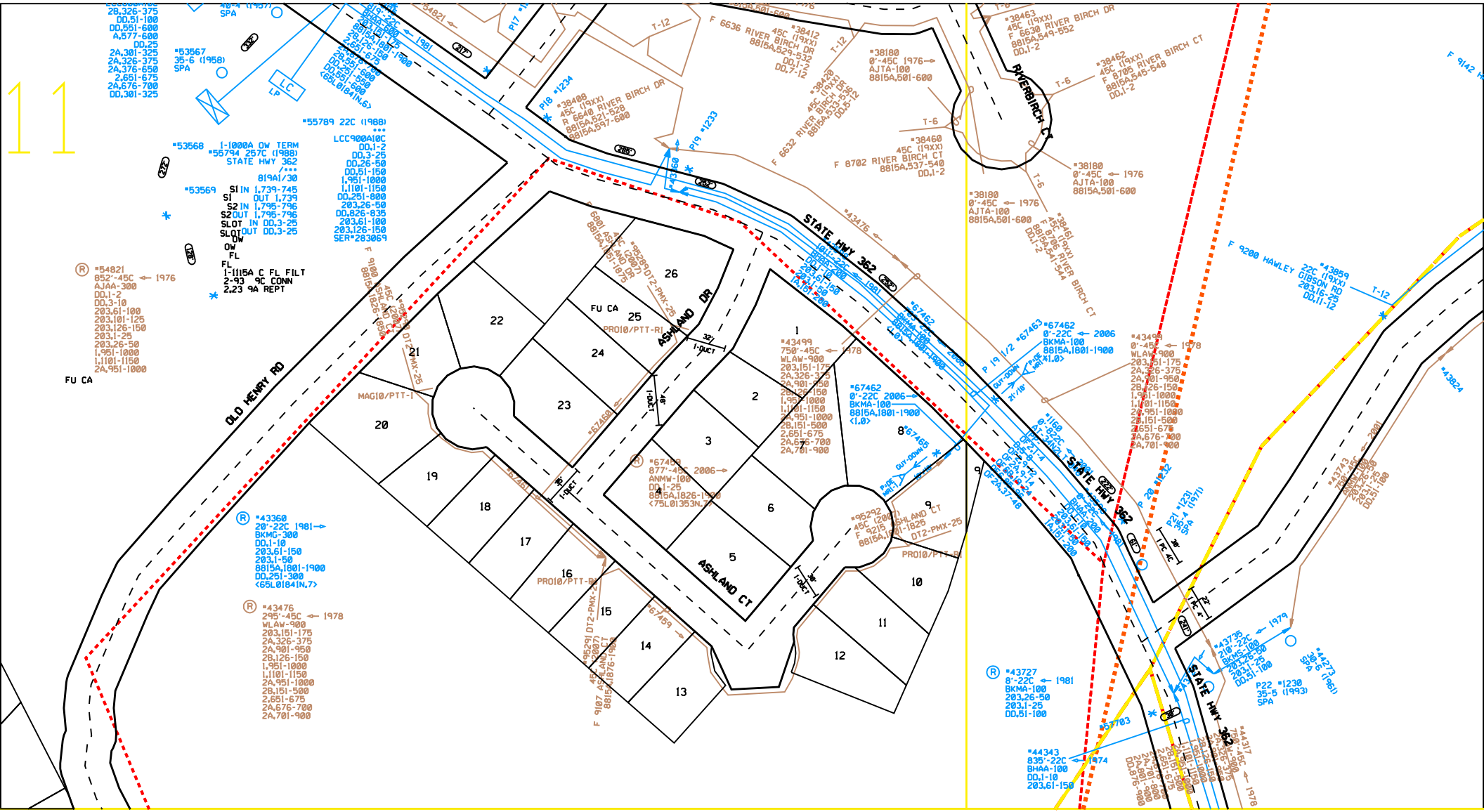

OLD HENRY RD
MADISON TRACE CIR
JACKSON CROSSING DR
MCKINLEY RIDGE DR
HAMILTON SPRINGS DR
HAMILTON SPRINGS CIR
TRADITION DR
TRADITION CIR
ARNOLD PALMER BLVD
MEADOWS FARMS CT
CHESTNUT RIDGE CIR
SPARROWS POINT PL
BUSH FARM RD
NAME 609
KC 116.276-300
3827
3828
3829
3830
3818


4526
4526A
DI0315
FACTORY LN
FACTORY
CYPRESS GLEN DR
TWIN CREEK CT
TWIN CREEK DR
WALRICO CT
OLD HENRY RD
CEDAR FALLS CT
RIDGE BROOK CIR
SYCAMORE FALLS CT
SYCAMORE FALLS DR
WILLOW FALLS CT
312
311
310
309
313


DI0113C
OAKVISTA RD
OAKVISTA PL
OAKVISTA WAY
WHITESTONE LN
OLD HENRY RD
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331


WOODMONT PARK
WOODMONT PARK LN
WOODMONT PARK LN
REAMERS RD
WOODMONT RIDGE DR
WOODMONT RIDGE DR
OLD HENRY RD
OLD HENRY RD
OLD HENRY RD
41
42
43
44
46
47
48
49
9
8
7
6
5
4
3
2
1
2
51
52
NOTE FACILITY LOCATE CONTRACTOR:
CAUTION
ANY BELLSOUTH OWNED BURIED POWER CABLES FEEDING POWER TRANSFER SWITCHES AND OLC CABINETS MUST BE LOCATED
DI0113A

11


OLD HENRY RD
STATE HWY 362
ASHLAND DR
ASHLAND CT
RIVERBIRCH CT
F 9200 HAWLEY
22C (19XX) GIBSON RD 203.16-25 DD.11-12
*43859
*43499
750'-45C ← 1978
WLAW-900
203.151-175
2A,326-375
2A,901-950
28,126-150
1,951-1000
1,101-1150
2A,951-1000
28,151-500
2,651-675
2A,676-700
2A,701-900
*67462
0'-22C ← 2006
BKMA-100
8815A,1801-1900
<1.0>
*67465
*67469
877'-45C 2006→
ANMW-100
DD.1-25
8815A,1826-1900
<75L01353N.7>
*43360
20'-22C 1981→
BKMG-300
DD.1-10
203.61-150
203.1-50
8815A,1801-1900
DD.251-300
<65L0184IN.7>
*43476
295'-45C ← 1978
WLAW-900
203.151-175
2A,326-375
2A,901-950
28,126-150
1,951-1000
1,101-1150
2A,951-1000
28,151-500
2,651-675
2A,676-700
2A,701-900
*43727
8'-22C ← 1981
BKMA-100
203.26-50
203.1-25
DD.51-100
*43343
835'-22C ← 1974
BHAA-100
DD.1-10
203.61-150
*43739
210'-22C ← 1979
BKMS-100
203.26-50
203.16-25
DD.51-100
*43743
*43824
*44317
*53703
*54821
852'-45C ← 1976
AJAA-300
DD.1-2
DD.3-10
203.61-100
203.101-125
203.126-150
203.1-25
203.26-50
1,951-1000
1,101-1150
2A,951-1000
FU CA
*53568
1-1000A OW TERM
*55794 257C (1988)
STATE HWY 362
819A1/30
*53569
SI IN 1,739-745
SI OUT 1,739
S2 IN 1,795-796
S2 OUT 1,795-796
SLOT IN DD.3-25
SLOT OUT DD.3-25
OW
OW
FL
FL
1-1115A C FL FILT
2-93 9C CONN
2,23 9A REPT
*53567
35-6 (1958)
SPA
*55789 22C (1988)
LCC900A10C
DD.1-2
DD.3-25
DD.26-50
DD.51-100
1,951-1000
1,1101-1150
DD.251-800
203.26-50
DD.826-835
203.61-100
203.126-150
SER*283069
*38408
45C (19XX)
R 6640 RIVER BIRCH DR
8815A,521-528
8815A,537-600
*38412
45C (19XX)
F 6636 RIVER BIRCH DR
8815A,529-532
DD.1-2
DD.7-12
*38420
45C (19XX)
F 6632 RIVER BIRCH DR
8815A,533-536
DD.5-12
*38180
0'-45C 1976→
AJTA-100
8815A,501-600
*38460
45C (19XX)
F 8702 RIVER BIRCH CT
8815A,537-540
DD.1-2
*38463
45C (19XX)
F 6630 RIVER BIRCH DR
8815A,549-552
DD.1-2
*38462
45C (19XX)
F 8700 RIVER BIRCH CT
8815A,545-548
DD.1-2
*38461
45C (19XX)
F 8706 RIVER BIRCH CT
8815A,541-544
DD.1-2
*95292
45C (2007)
F 9215 ASHLAND CT
8815A,1801-1826
DT2-PMX-25
*95291
45C (2007)
F 9107 ASHLAND CT
8815A,1876-1900
*95289
45C (2007)
F 9100 ASHLAND CT
8815A,1851-1875
*95290
45C (2007)
F 9108 ASHLAND CT
8815A,1826-1850
*43458
*43476
*43499
*67462
*67465
*67469
*67459
*67460
*67463
*1168
*1231
*1230
*43773
*43824
P17
P18 *1234
P19 *1233
P19 1/2
P20
P21 *1231
P22 *1230
P22 1/2
T-12
T-6
T-5
LC
LP
SPA
FU CA
MAG10/PTT-I
PRO10/PTT-R
DT2-PMX-25
1-DUCT
36"
48"
GUY-DOWN
POLE WHL X1.0
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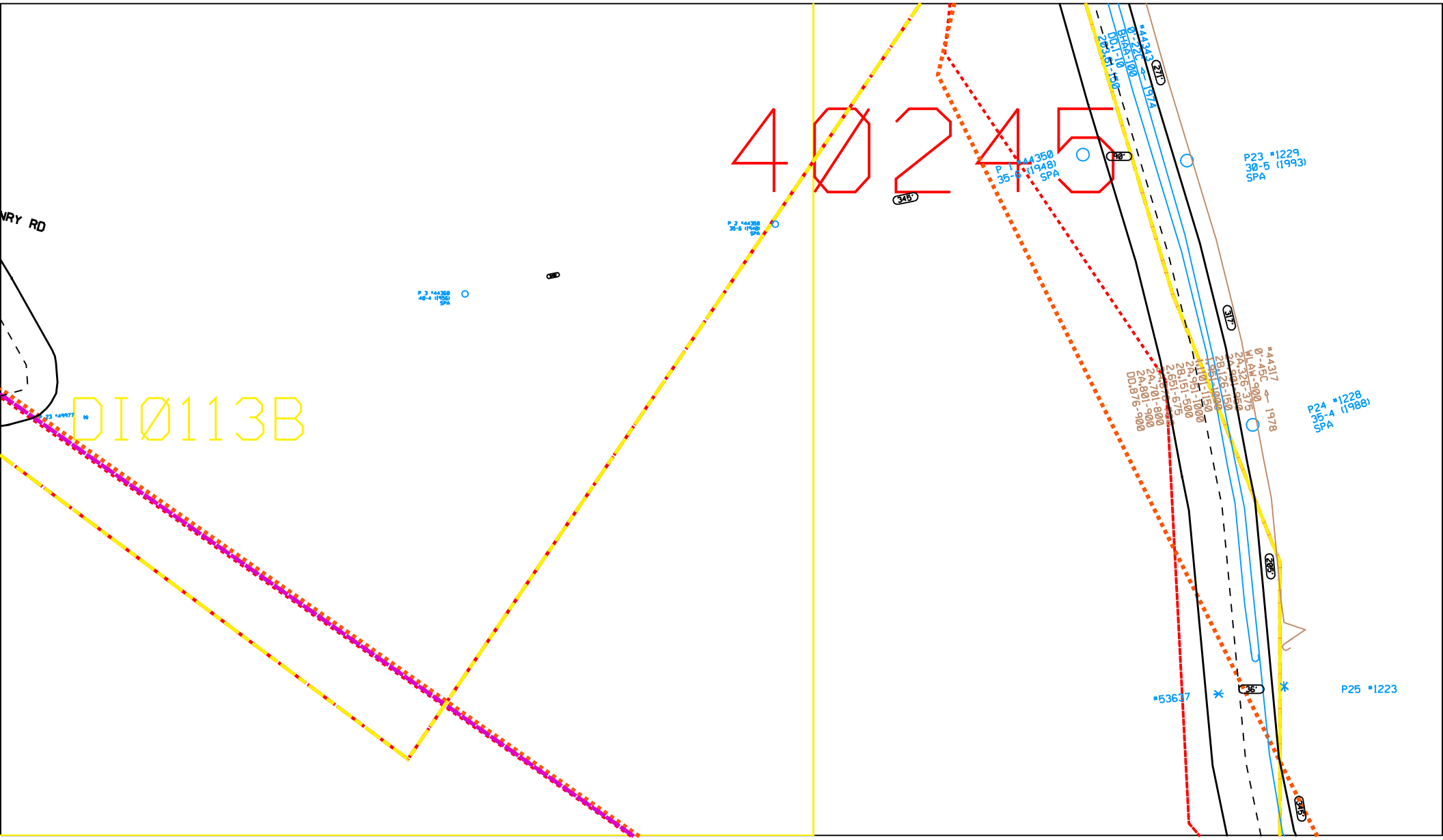
40245
DI0113B
NRY RD
P 2 #44358
35-6 (1948)
SPA
P 3 #44358
48-4 (1948)
SPA
P 1 #44350
35-6 (1948)
SPA
P23 #1229
30-5 (1993)
SPA
P24 #1228
35-4 (1988)
SPA
P25 #1223
#53637
#44317
0-4PC
WLAN5-900
2A.325-375
2A.326-950
2B.126-150
2B.126-1000
2A.951-1150
2A.951-1000
2B.151-500
2B.151-675
2.651-675
2A.701-800
2A.801-900
DD.876-900
#44343
0-2PC
BHAP.100
DD.1-10
2B.51-1-0
1974
1978
345'
90'
31'
27'
30'
36'

Appendix O2 – LG&E

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County:Jefferson

Centre:(2072228,13900930) usfeet

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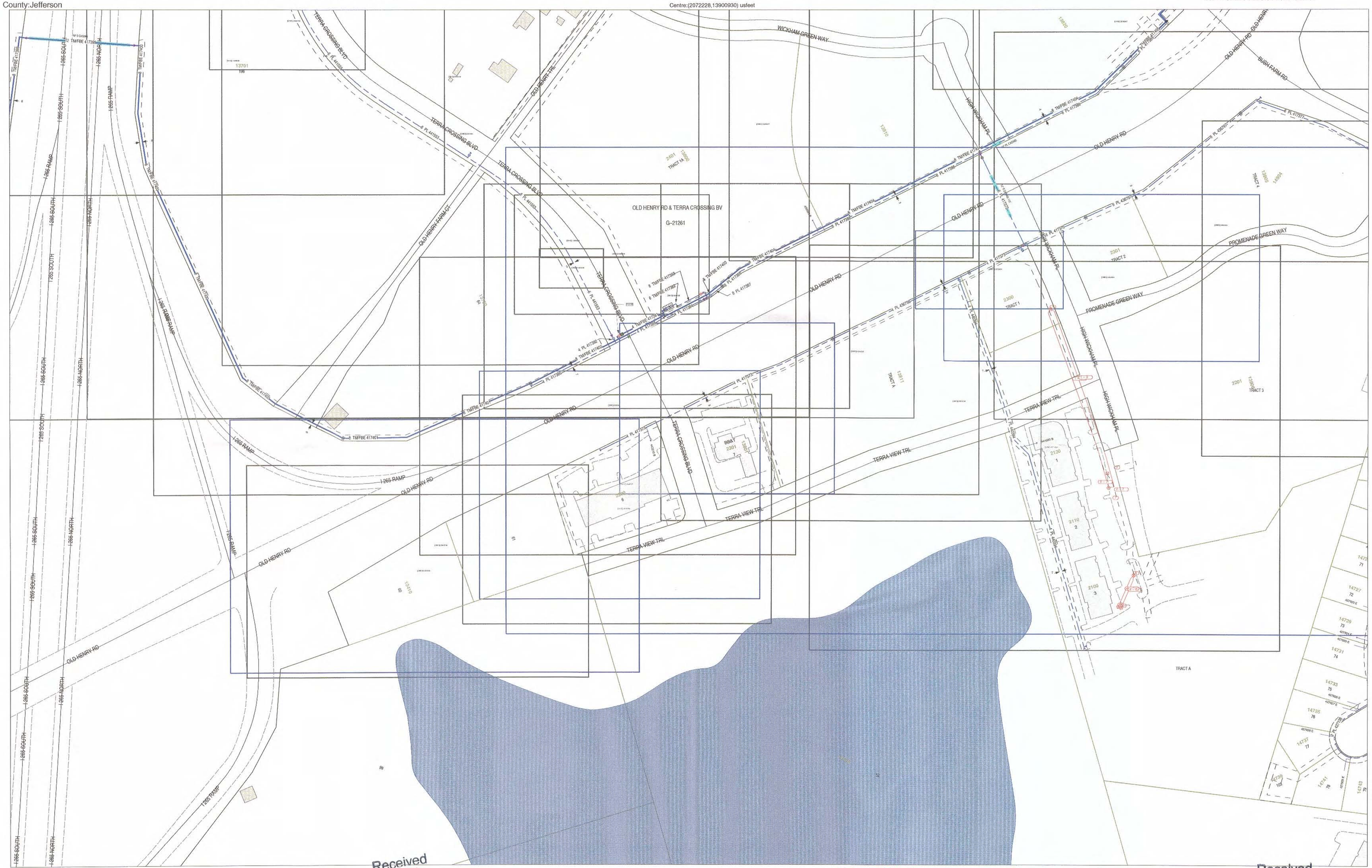

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MAY 20 2011
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0feet 200feet 400feet 600feet 800feet

LG&E KU

Scale 1:1200

Keltee, Frederick

Plot Date: 05/19/2011

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MAY 20 2011
D-5R/W & Utilities

5-367.20
1 of 11

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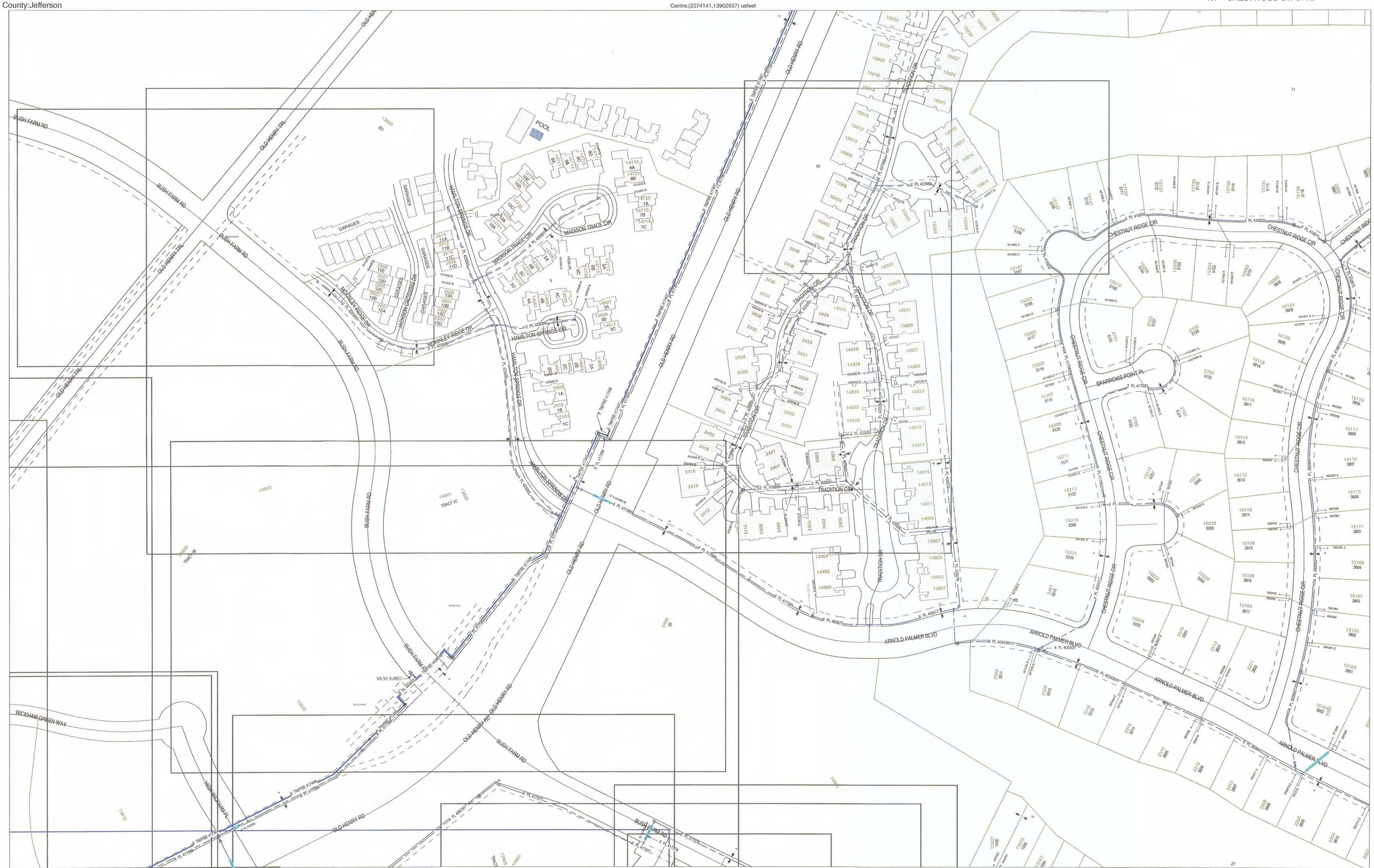
County:Jefferson

Centre:(2074141,13902637) usfeet

KY – CRESTWOOD SW 3 A B



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0feet 200feet 400feet 600feet 800feet

Scale 1:1200

Keltee, Frederick

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MAY 20 2011
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County:Jefferson

Centre:(2075259,13904461) usfeet

KY – CRESTWOOD SW 3 A B

Town:Louisville

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Scale 1:1200

Keltee, Frederick

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County:Jefferson

Centre:(2076200,13906315) usfeet

KY – CRESTWOOD SW 1 D C

Town:Louisville

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0feet 200feet 400feet 600feet 800feet

Scale 1:1200 Keltee, Frederick Plot Date: 05/19/2011

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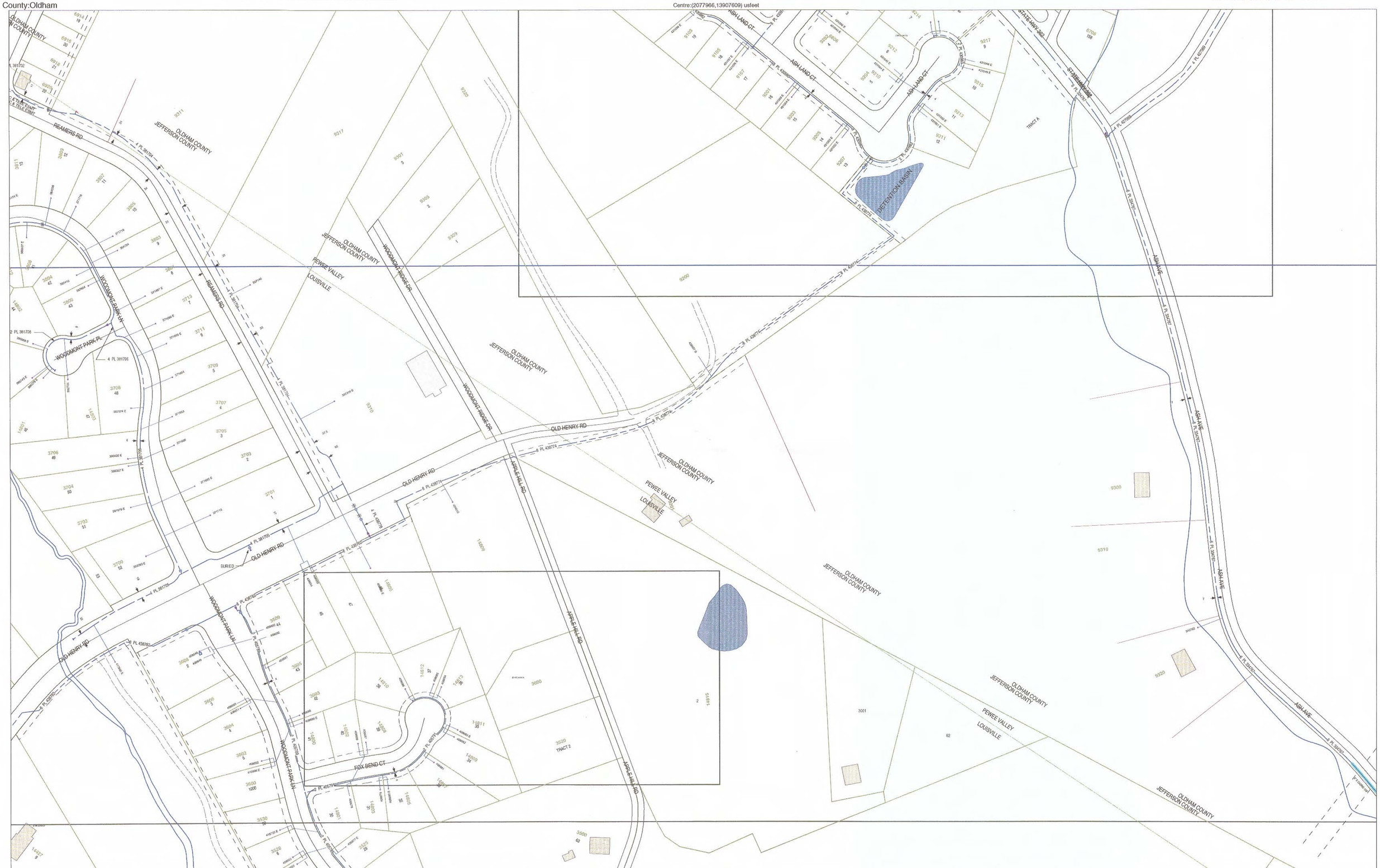
County:Oldham

Centre:(2077966,13907609) usfeet

KY – CRESTWOOD SW 1 D B



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Page: 1

0feet 200feet 400feet 600feet 800feet

LG&E KU

Scale 1:1200

Keltee, Frederick

Plot Date: 05/19/2011

Received
MAY 20 2011
D-5R/W & Utilities

5-367.20
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Town:Pewee Valley

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County:Oldham

Centre:(2079790,13908963) usfeet

KY – CRESTWOOD SW 2 C A

Town:Pewee Valley

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Scale 1:1200 Keltee, Frederick Plot Date: 05/19/2011

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MAY 20 2011
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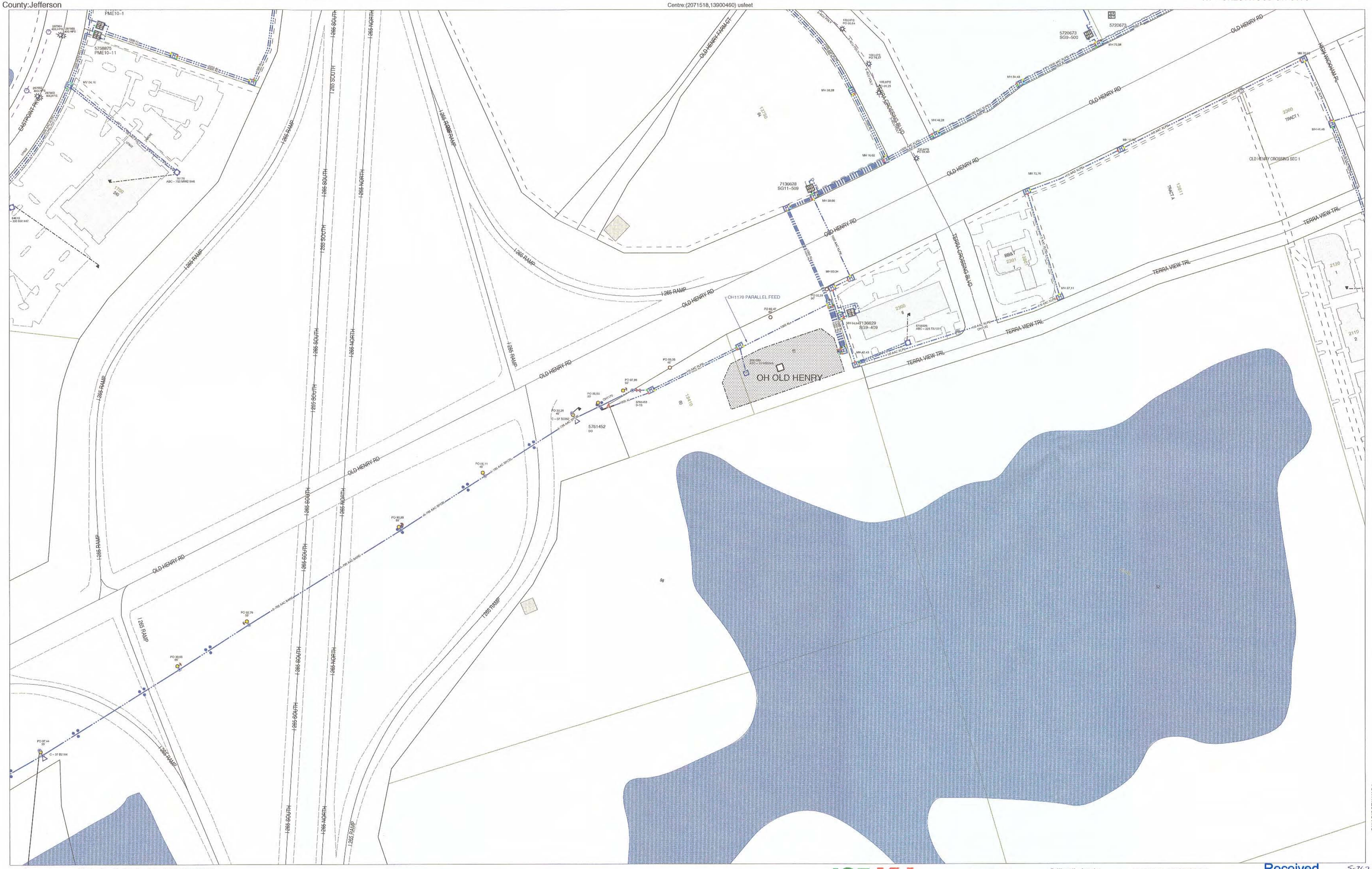
County:Jefferson

Centre:(2071518,13900460) usfeet

KY – CRESTWOOD SW 3 A C



Town:Louisville

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0feet 200feet 400feet 600feet 800feet

Scale 1:1200

Stillwell, Angie

Plot Date: 05/19/2011

Received
MAY 20 2011
D-5R/W & Utilities

S-362.20
7 of 11

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County:Jefferson

Centre:(2073647,13902433) usfeet

KY – CRESTWOOD SW 3 A B

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0feet 200feet 400feet 600feet 800feet

Scale 1:1200

Stillwell, Angie

Plot Date: 05/19/2011

Received
MAY 20 2011
D-SRWW & Utilities

5-367.20
8 of 11

Town:Louisville

Page: 1

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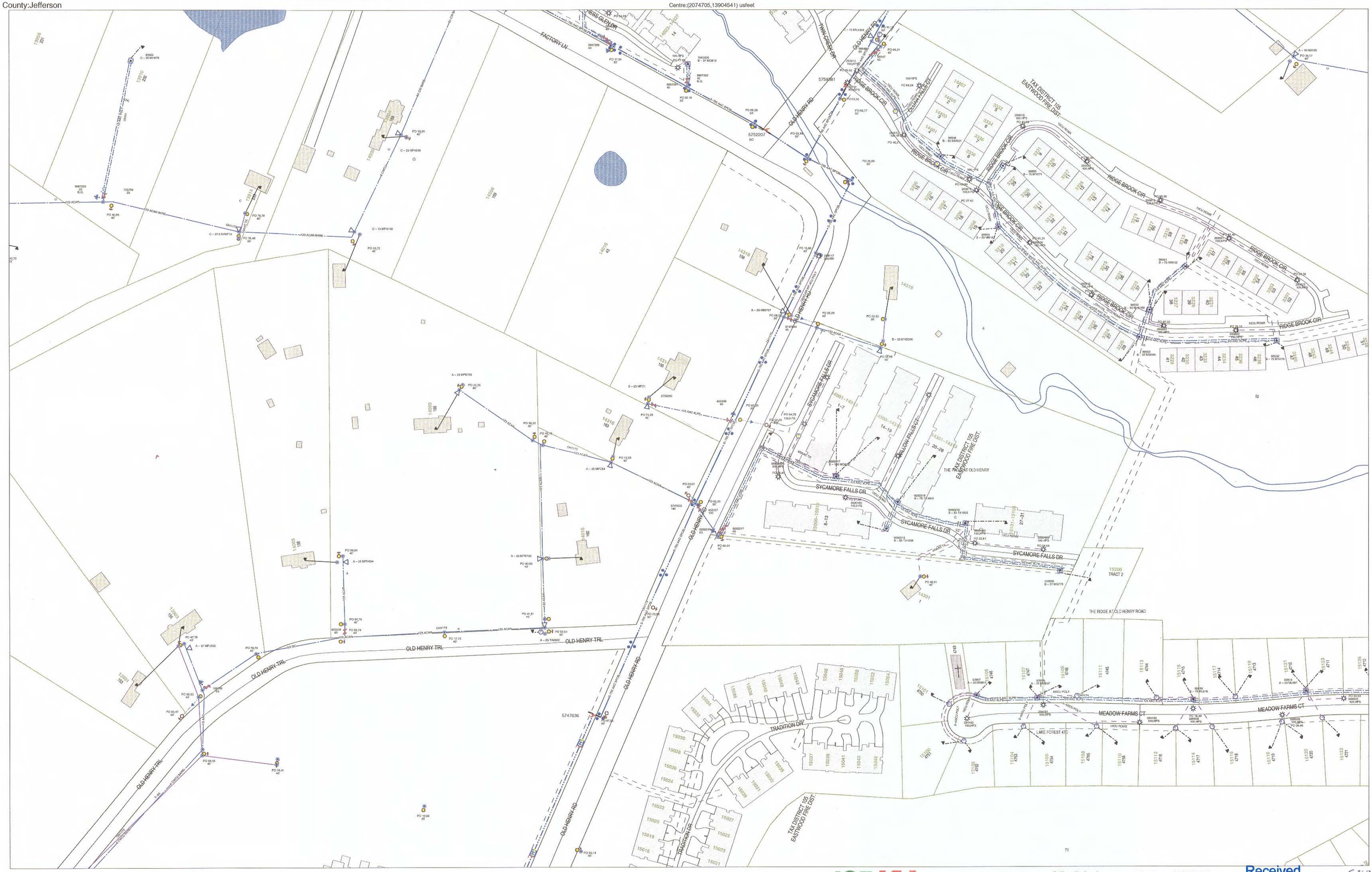
County:Jefferson

Centre:(2074705,13904541) usfeet

KY – CRESTWOOD SW 1 C D



Town:Louisville

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0feet 200feet 400feet 600feet 800feet

Scale 1:1200 Stillwell, Angie Plot Date: 05/19/2011

Received
MAY 20 2011
D-SR/W & Utilities

5-367.20
9 of 11

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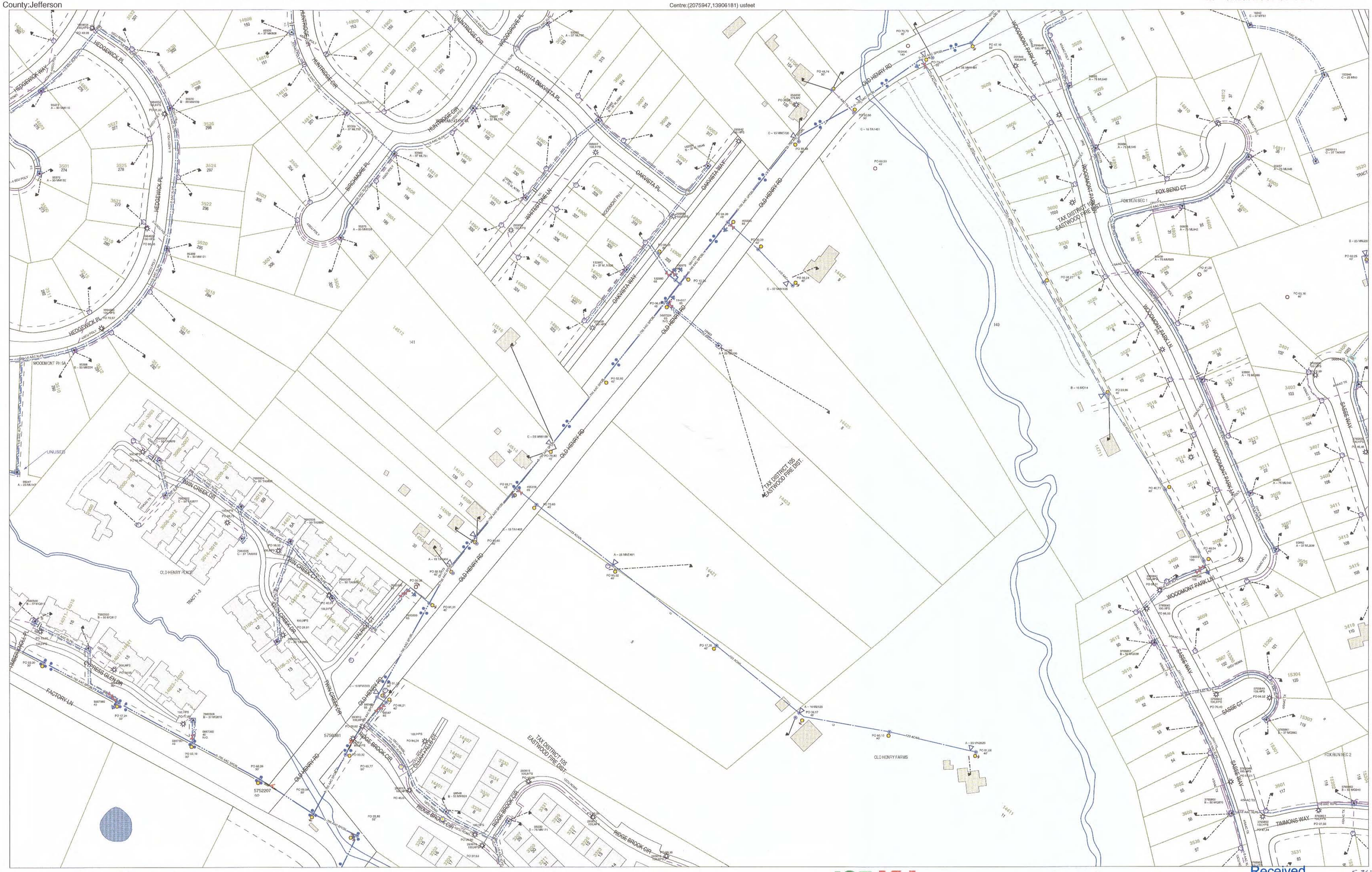
County:Jefferson

Centre:(2075947,13906181) usfeet

KY – CRESTWOOD SW 1 D C



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Page: 1

0feet 200feet 400feet 600feet 800feet

Scale 1:1200

Stillwell, Angie

Plot Date: 05/19/2011

Received
MAY 20 2011
D-Draw & Utilities

5-367.20
10 of 11

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County:Oldham

Centre:(2077856,13908161) usfeet

KY – CRESTWOOD SW 1 D B

Town:Pewee Valley

Page: 1

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0feet 200feet 400feet 600feet 800feet

LG&E KU

Scale 1:1200 Stillwell, Angie Plot Date: 05/19/2011

Received
MAY 20 2011
D-5R/W & Utilities

5-367.20
11 of 11

Geiser, Greg

From:	Cornish, Cathy (KYTC-D05) [Cathy.Cornish@ky.gov]
Sent:	Wednesday, May 18, 2011 3:30 PM
To:	Geiser, Greg; Daniel Tegene; Morgan Herndon (AT&T KY MH0831@ATT.com); Barbour, Deno; Brad SELCH; Steve Emly (MSD); don garr; Scott Logeman (ATT-Legacy); Turner, Tim; jaerwin@marathonoil.com; Barber, Mary R.; iucjrogers@portative.net; Thomas, Joe J [Ericsson Contractor for Sprint]; CALFEE, RICHARD T; Webster, Kevin; Lowrey, Bo C; WCI.maintenance.south@windstream.com; Cornell, Jeremy; Gerald.Long@twtelecom.com; hcompton@taylorsvillewater.org; McElvain, George; Jason; Anderson, Bernie; Phillip Ward (Old Co Water); John Bennett; kevin.gibson@veoliawaterna.com
Cc:	Jenkins, Carl; Davis, Paul (KYTC-D05); Hickerson, Judi (KYTC-D05); Barker, Richard (KYTC-D05)
Subject:	5-367.20 Old Henry Rd - Facility Request
Attachments:	Location map KY3084 5-18-11.JPG; 5 367 20 Overall Location Map 5-18-11.pdf

Utility Representatives,

Please look at the attached maps.

Please let us know if you do OR do not have facilities in the area.

This project has been fast tracked and we really need this information as quickly as possible.

Thanks for your help.

Cathy L. Cornish
KentuckyTransportation Cabinet, District 5
Utility Relocations
8310 Westport Road
Louisville, KY 40242-3042
Office: (502) 210-5476
Fax: 502-210-5498
Cathy.Cornish@ky.gov

Received
MAY 20 2011
D-5R/W & Utilities

ELECTRIC STYLES - LEGEND

---------- Anchor (Install Dist Location)

----------Anchor (Exist Dist Location)

----------Anchor (Remove Dist Location)

----------Cutout Bank – 2 (Exist Dist Location)

----------Cutout Bank – 2 (Remove Dist Location)

----------Cutout Bank – 2 (Install Dist Location)

----------Deadend (Exist Second Location)

----------Deadend (Install Service Location)

----------Deadend (Remove Second Location)

----------Electric Service Point (Exist Standard Location)

----------Electric Service Point (Install Critical Location)

PB ----------Junction Box (Exist Pullbox Location)

P ----------Junction Box (Install Pedestal Location)

P ----------Junction Box (Exist Pedestal Location)

PB ----------Junction Box (Install Pullbox Location)

----------Light (Exist Location)

----------Light (Install Location)

----------Light (Remove Location)

N.O. ----------Open Point (Install Dist Location)

ELECTRIC STYLES - LEGEND

N.O. ----------Open Point (Exist Dist Location)

N.O. ----------Open Point (Remove Dist Location)

----------Pad (Install Dist Location)

----------Pad (Exist Dist Location)

----------Pad (Remove Dist Location)

----------Pad (Connector Location)

F ----------Pole -2 (Install Dist Location)

----------Pole -1 (Install Dist Location)

F ----------Pole -2 (Exist Dist Location)

----------Pole -1 (Exist Dist Location)

F ----------Pole -2 (Remove Dist Location)

----------Pole -1 (Remove Dist Location)

L ----------Street Light Pole (Remove Location)

L ----------Street Light Pole (Install Location)

L ----------Street Light Pole (Exist Location)

----------Transformer OH Bank (Exist Location)

----------Transformer OH Bank (Install Location)

----------Transformer OH Bank (Remove Location)

----------Transformer OH Bank (Secondary Location)

ELECTRIC STYLES - LEGEND

----------Transformer UG Bank – 3 (Exist Location)

----------Transformer UG Bank – 1 (Exist Location)

----------Transformer UG Bank – 3 (Install Location)

----------Transformer UG Bank – 1 (Install Location)

----------Transformer UG Bank – 3 (Remove Location)

----------Transformer UG Bank – 1 (Remove Location)

----------Arrester (Exist Dist Location)

----------Arrester (Remove Dist Location)

----------Arrester (Install Dist Location)

----------Capacitor Bank (Exist Dist Location)

----------Capacitor Bank (Remove Dist Location)

----------Capacitor Bank (Install Dist Location)

----------Circuit Breaker (Install Sec Location)

----------Circuit Breaker (Exist Sec Location)

----------Circuit Breaker (Remove Sec Location)

----------Network Protector (Exist Dist Location)

----------Primary meter (Exist Dist Location)

----------Recloser Bank (Exist Dist Location)

----------Recloser Bank (Remove Dist Location)

ELECTRIC STYLES - LEGEND

----------Recloser Bank (Install Dist Location)

----------Switch Bank – 4 (Exist Location)

----------Switch Bank - 4 (Install Location)

----------Switch Bank – 4 (Remove Location)

----------Transformer Stepdown Bank(Exist Dist Location)

----------Voltage Regulator Bank (Exist Dist Location)

----------Manhole (Install Dist Location)

----------Manhole (Exist Dist Location)

----------Substation (Exist Location)

----------Tower (Exist Dist Location)

----------Vault (Exist Dist Location)

-----Head Guy (Exist Dist Route)

-----Head Guy (Install Dist Route)

-----Primary OH Segment (Aband Route)

-----Primary OH Segment (Exist 1 Phase Route)

-----Primary OH Segment (Exist 2 Phase Route)

-----Primary OH Segment (Exist 3 Phase Route)

----Primary OH Segment (Exist Unk Phase Route)

----Primary OH Segment (Install 1 Phase Route)

-----Primary OH Segment (Install 2 Phase Rotue)

ELECTRIC STYLES - LEGEND

----Primary OH Segment (Install 3 Phase Route)

-----Primary OH Segment (Install Unk Phase Route)

----Primary OH Segment (Remove 1 Phase Route)

----Primary OH Segment (Remove 2 Phase Route)

----Primary OH Segment (Remove 3 Phase Route)

-----Primary OH Segment (Remove Unk Phase Route)

----Primary UG Segment (Aband Route)

----Primary UG Segment (Exist 1 Phase Route)

----Primary UG Segment (Exist 2 Phase Route)

----Primary UG Segment (Exist 3 Phase Route)

----Primary UG Segment (Exist Unk Phase Route)

----Primary UG Segment (Install 1 Phase Route)

----Primary UG Segment (Install 2 Phase Route)

----Primary UG Segment (Install 3 Phase Route)

----Primary UG Segment (Install Unk Phase Route)

----Primary UG Segment (Remove 1 Phase Route)

----Primary UG Segment (Remove 2 Phase Route)

----Primary UG Segment (Remove 3 Phase Route)

----Primary UG Segment (Remove Unk Phase Route)

----Secondary OH Segment (Remove Second Route)

----Secondary OH Segment (Exist Second Route)

----Secondary OH Segment (Install Second Route)

----Secondary UG Segment (Remove Second Route)

ELECTRIC STYLES - LEGEND

----Secondary UG Segment (Install Service Route)

---Secondary UG Segment (Exist Second Route)

---Secondary UG Segment (Install Second Route)

GAS STYLES - LEGEND

----------Callout Box

----------Compressor (Exist Location)

----------Drip Siphon (Exist Location)

----------Farm Tap (Exist Location)

----------Fitting - Coupling (Exist Location)

----------Fitting - Cross (Exist Location)

----------Fitting – End Cap (Exist Location)

----------Fitting – Reducer (Exist Location)

----------Fitting - Tee (Exist Location)

----------Fitting – Transition (Exist Location)

----------Flange (Exist Sta Location)

----------Gas Generator

----------Gas Light (Exist Location)

----------Gas Service Point (Exist Standard Location)

----------Leak (Active Location)

----------Leak (Inactive Location)

----------Main Maintenance

----------Regulator (Exist Location)

GAS STYLES - LEGEND

----------Tapping Fitting – Line Stopper (Mueller) (Exist Location)

----------Tapping Fitting – Line Stopper Shortstop (TDW) Reduced

----------Tapping Fitting – 3 Way Tee (Exist Location)

----------Valve (Exist Key Location)

----------Valve (Exist Location)

-----Casing (Exist Location)

-----Foreign Pipeline

-----Main (Install HP Route)

-----Main (Install EP Route)

-----Main (Install MP Route)

-----Main (Aband Route)

-----Main (Exist HP Route)

-----Main (Install LP Route)

-----Main (Exist MP Route)

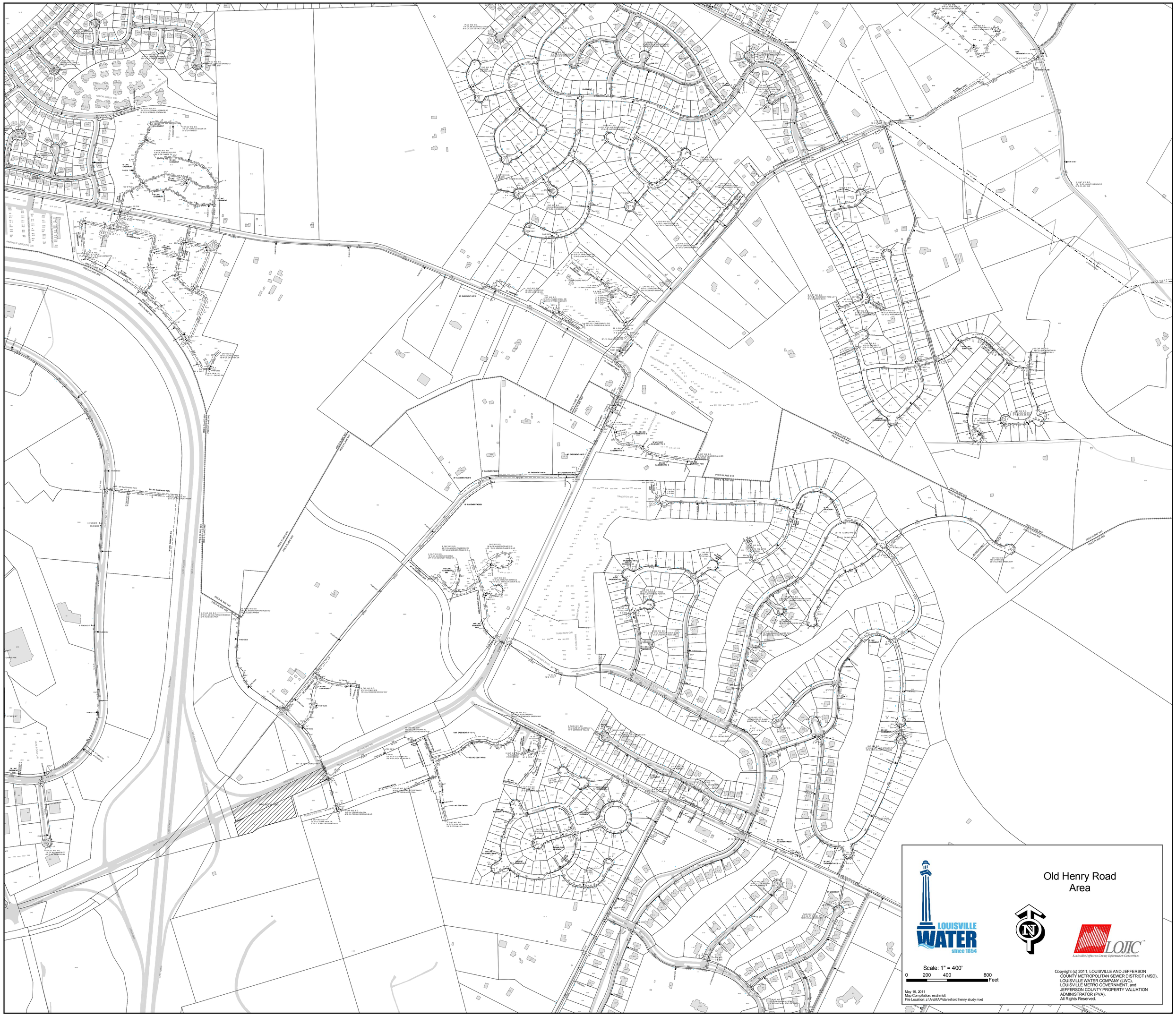
-----Main (Exist LP Route)

-----Main (Exist EP Route)

-----Main (Install EP Route)

-----Service Lateral (Exist Route)

Appendix O3 – Louisville Water Company (LWC)


Old Henry Road
Area
LOUISVILLE WATER
since 1854
LOJIC
Louisville/Jefferson County Information Consortium
Scale: 1" = 400'
0 200 400 800
Feet
May 19, 2011
Map Compilation: eschmidt
File Location: z:\ArcMAP\daniel\old henry study.mxd
Copyright (c) 2011, LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT (MSD), LOUISVILLE WATER COMPANY (LWC), LOUISVILLE METRO GOVERNMENT, and JEFFERSON COUNTY PROPERTY VALUATION ADMINISTRATOR (PVA).
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Appendix O4 – Metropolitan Sewer District (MSD)

CONSTRUCTION PLANS FOR
FOX RUN SUBDIVISION
PRIVATE SANITARY SEWERS

NOTES

1. CONSTRUCT PROPERTY SERVICE CONNECTIONS TO BACK OF ELECTRIC AND TELEPHONE EASEMENTS OR TO THE EDGE OF SANITARY SEWER & DRAINAGE EASEMENTS.
2. WHERE THE TOP OF THE MANHOLE IS THE SAME AS THE PROPOSED STREET GRADE, REFER TO THE CONSTRUCTION PLANS FOR EXACT STREET ELEVATION.
3. ROCK IS TO BE SHATTERED TO 6" BEYOND THE END OF THE P.S.C.
4. M.S.D. STANDARD SPECIFICATIONS ARE TO APPLY.
5. PROPERTY SERVICE CONNECTIONS ARE AT 2% SLOPE UNLESS OTHERWISE NOTED.
6. ALL MANHOLE RIMS SHALL BE AT OR ABOVE FINISHED GRADE, AS SHOWN ON THE DRAWINGS, TO PREVENT THE INFLOW OF STORM WATER.
7. ALL PIPE SHALL BE PVC SDR 35 PER M.S.D. STANDARD SPECS.
8. SEWAGE TO BE TREATED AT THE ASH AVENUE SANITARY COMPANY WASTEWATER TREATMENT PLANT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING HIS OWN CONSTRUCTION STAKES. THE ENGINEER WILL PROVIDE THE INITIAL BASELINES AND BENCHMARKS.
10. NO PORTION OF THIS PROJECT IS IN THE 100 YEAR FLOOD PLAIN PER F.E.M.A. MAP #21110C0180 D.
11. VERTICAL DATUM IS REFERENCED TO (1929) NATIONAL GEODETIC VERTICAL DATUM.
12. MSD SHALL INSPECT ALL SEWER CONSTRUCTION.
13. 4" PROPERTY SERVICE CONNECTION TO BE CONSTRUCTED FROM STACK AT SEWER TO EASEMENT LINE TO A DEPTH OF 5' BELOW GROUND SURFACE.
13. LOT CORNERS AS SHOWN WILL BE STAKED WHEN THE RECORD PLAT IS RECORDED.
14. EPSC PLAN WILL ACCOMPANY CONSTRUCTION PLANS.

MSD DOES NOT WARRANT THE DESIGN OR COMPUTATIONS CONTAINED IN THIS PLAN. THE CORRECTNESS OR ACCURACY OF ALL ENGINEERING COMPUTATIONS REMAINS THE SOLE RESPONSIBILITY OF THE APPLICANT'S DESIGN PROFESSIONAL. MSD'S APPROVAL TO PROCEED WITH CONSTRUCTION IS BASED SOLELY ON THAT DESIGN PROFESSIONAL'S SEAL AND SIGNATURE.

FOR THE PURPOSE OF SUPPLYING RECORD DRAWING INFORMATION, SHEETS 1-4 OF THE RECORD DRAWINGS REPLACES THE APPROVED SHEETS 1-4 OF THE ORIGINAL DRAWINGS. THE MSD DIRECTOR OF ENGINEERING APPROVED THE ORIGINAL DRAWINGS FOR CONSTRUCTION ON 10/1. SHEETS 1-4 OF THE ORIGINAL DRAWINGS HAVE BEEN ARCHIVED.

DAVID WINKLER

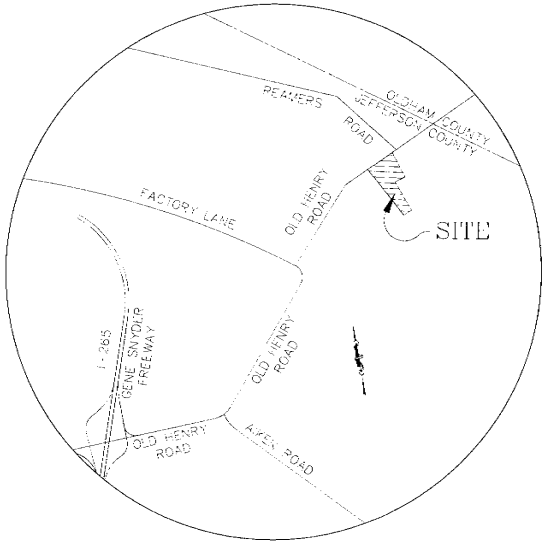
THE FINAL RECORD INFORMATION ON THIS DRAWING WAS PROVIDED BY THE PROFESSIONAL LAND SURVEYOR ~~SCOTT SHUFFLEBARGER~~ ON 8-12-02. THE PROPERTY SERVICE CONNECTION INFORMATION WAS COLLECTED BY THE GENERAL CONTRACTOR KELSEY CONSTRUCTION INC. WITH NO FIELD VERIFICATION BY THE PROFESSIONAL LAND SURVEYOR. THE FINAL RECORD DATA AND PROPERTY SERVICE CONNECTION INFORMATION HAS BEEN ACCEPTED BY MSD INSPECTOR CHRIS BANKS ON 11-11-02.

BACKFILL

TYPE 1 - SAND FLUSHED AND JETTED
TYPE 2 - EXCAVATED WATER JACK FLUSHED AND JETTED
(USE TYPE 2 BACKFILL UNLESS OTHERWISE NOTED)

LEGEND

- MANHOLE & SEWER LINE - SIZE AS INDICATED
- 5' DROP INLET
- EXIST. MANHOLE & SEWER LINE - SIZE AS INDICATED
- STORM DRAIN WITH SIZE AND CURB INLET
- GAS MAIN (PROPOSED)
- WATER MAIN (PROPOSED)
- F.H. FIRE HYDRANT
- ROCK SOUNDING
- NO ROCK (ALL ROCK SOUNDINGS ARE TAKEN EITHER IN THE CENTER OF THE ROAD OR THE CENTER OF THE SEWER LINE)
- 4" PROPERTY SERVICE CONNECTION
- BENCH MARKS



LOCATION MAP
NOT TO SCALE

Sheet Index	
Sht. No.	Description
1	COVER SHEET
2	PLAN SHEET
3	PROFILE SHEET
4	P.S.C. INLET SHEET

STANDARD DRAWINGS:

P.V.C. VERTICAL DROP INLET	SD-01-02
PROPERTY SERVICE CONNECTION	SP-01-03
PRECAST MANHOLE - TYPE 1	SM-01-02
MANHOLE CHANNELIZATION	SM-04-02
STANDARD MANHOLE FRAME AND LID	SM-05-01
PRECAST CONCRETE COLLAR	SM-07-00
CRUSHED STONE BEDDING	CD-02-02
CONCRETE CAP	CD-03-02

800-752-6007
KENTUCKY UNDERGROUND PROTECTION
CALL 2 WORKING DAYS BEFORE YOU DIG

UTILITY NOTE: ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. PRIOR TO ANY EXCAVATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY PROTECTION CENTER, BUD PHONE 1 800 752-6007 (THIS IS A NEW TOLL FREE NUMBER), WHICH WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF BELOW GROUND UTILITIES, I.E. CABLES, ELECTRIC WIRES, AND GAS AND WATER LINES. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

The approved erosion prevention and sediment control (EPSC) plan shall be implemented prior to any land disturbing activity on the construction site. Any modifications to the approved EPSC plan must be reviewed and approved by MSD's Private Development Review office. EPSC BMP's shall be installed per the plan and MSD Standards.

Detention basins, if applicable, shall be constructed first and shall perform as sediment basins during construction until the contributing drainage areas are paved and stabilized.

Actions must be taken to minimize the tracking of mud and silt from construction areas onto public roadways. So tracked onto the roadway shall be removed daily.

Soil stockpiles shall be located away from streams, ponds, swales, and catch basins. Soil stockpiles shall be seeded, mulched, and adequately contained through use of silt fence.

A stream crossings must utilize low crossing structures per MSD Standard Drawing ER-02.

Where construction or land disturbance activity will or has temporarily ceased on any portion of a site, temporary site stabilization measures shall be required as soon as practicable, but no later than 14 calendar days after the activity has ceased.

Sediment laden ground water encountered during the trenching, boring, or other excavation activities shall be pumped to a sediment trapping device prior to being discharged into a stream, pond, swale and or catch basin.

	NAME	DATE
DRAWN BY	REC	08/06
DESIGNED BY	REC	08/06
CHECKED BY	JSG	08/06
AS BUILTS	RBP	08/14

As-Built
THIS SET OF "AS-BUILT" SANITARY SEWER PLANS REPLACES THE SET WHICH WAS APPROVED FOR CONSTRUCTION.

KENTUCKY DAVID E. WINKLER 3492 LICENSED PROFESSIONAL LAND SURVEYOR

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE SURVEY FOR THIS PLAN WAS MADE UNDER MY DIRECT SUPERVISION AND THE BEARING AND DISTANCE MEASUREMENTS SHOWN HEREON ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS SURVEY WAS MADE BY METHOD OF RANDOM TRAVERSE. THE BEARINGS AND DISTANCES SHOWN HEREON HAVE BEEN ADJUSTED FOR CLOSURE. THIS SURVEY AND PLAN MEETS OR EXCEEDS THE MINIMUM STANDARDS OF GOVERNING AUTHORITIES.

David Winkler #3492 11-11-02
SIGNATURE LS No. DATE

BENCHMARK DESCRIPTIONS

T.B.M. #1: PK SPIKE SET IN UTILITY POLE 10' EAST OF ENTRANCE OF WOODMONT SUBDIVISION ON OLD HENRY ROAD ELEV. 678.86 (NGVD '929)

LOUISVILLE & JEFFERSON COUNTY
METROPOLITAN SEWER DISTRICT

DESIGN APPROVED: Roy Flynn 11-13-02

APPROVED FOR CONSTRUCTION: Randy Strodtman/DRH 11/15/02
DIRECTOR OF ENGINEERING DATE

NO.	DATE	REVISION	C-O-D	APPR'S	DATE
3	8/14/02	AS-BUILT REVISIONS			
2	9/25/01	MSD COMMENTS			
1	9/04/01	MSD COMMENTS			

MSD APPROVALS

11-11-02 Land Surveyor's Seal

11-11-02 STATE OF KENTUCKY JAMES S. GONDA 20707 PROFESSIONAL ENGINEER Signature P.E. # 20707 Professional Engineer's Seal

PLANS PREPARED AND SUBMITTED BY:
LD&D
LAND DESIGN & DEVELOPMENT, INC.
ENGINEERING • LAND SURVEYING • LANDSCAPE ARCHITECTURE
9004 VIVE CREST AVENUE, SUITE B LOUISVILLE, KENTUCKY 40223
FAX: 502.416.9779 PHONE: 502.416.9774
WEB SITE: WWW.LDD-INC.COM
Design Consultant

OWNER/DEVELOPER:
GLEN-MAR DEVELOPMENT, INC.
206 OLD HARRODS CREEK ROAD
LOUISVILLE, KENTUCKY 40223
(502) 244-0444

FOX RUN SUBDIVISION
PRIVATE SANITARY SEWERS
COVER SHEET

SCALE: NO SCALE DATE: AUGUST 14, 2001

RECORD NO. 14297 SHEET 1 OF 4

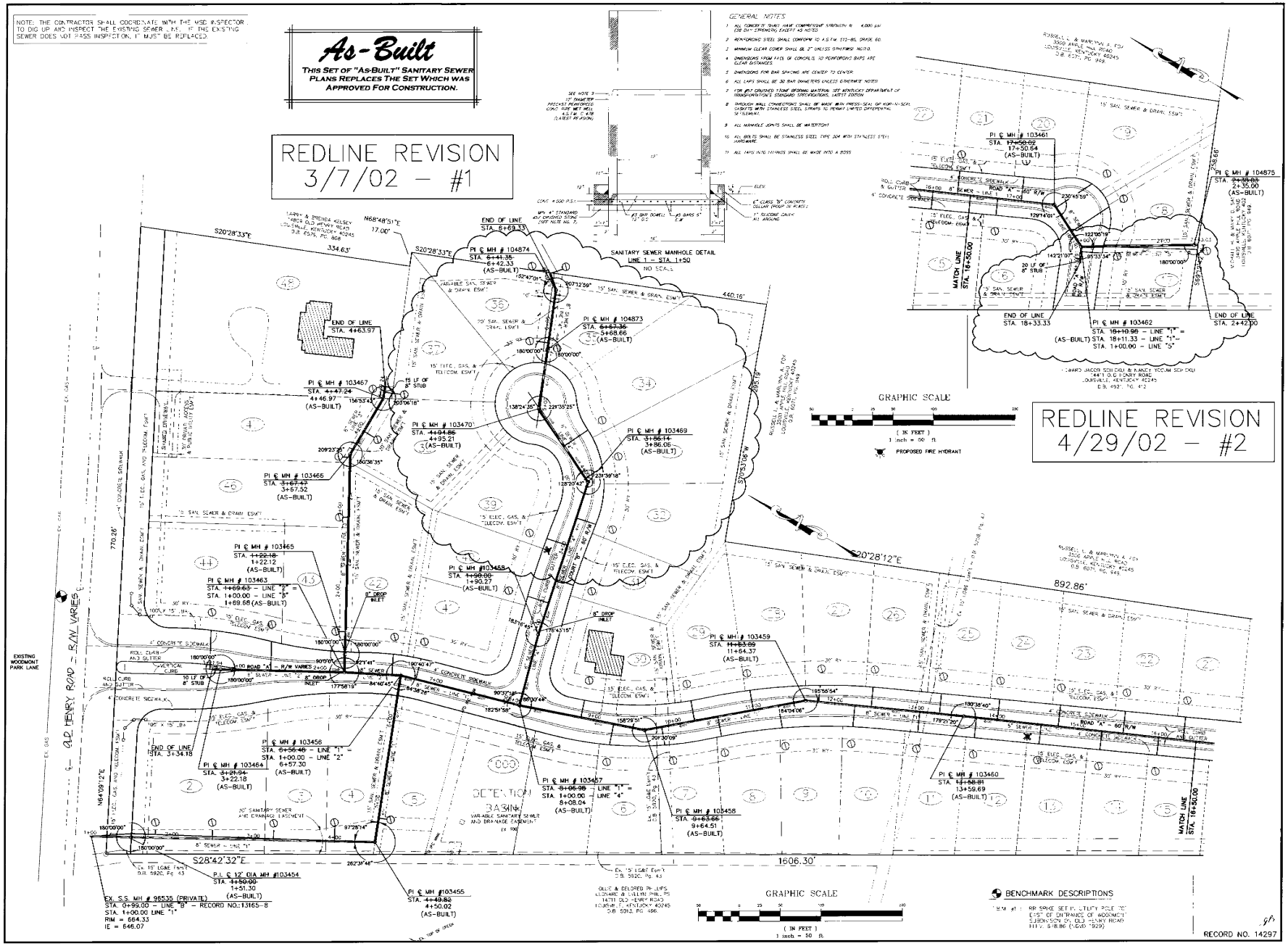
NOTE: THE CONTRACTOR SHALL COORDINATE WITH THE MSD INSPECTOR TO DIG UP AND INSPECT THE EXISTING SEWER. IF THE EXISTING SEWER DOES NOT PASS INSPECTION, IT MUST BE REPLACED.

As-Built

THIS SET OF "AS-BUILT" SANITARY SEWER PLANS REPLACES THE SET WHICH WAS APPROVED FOR CONSTRUCTION.

REDLINE REVISION
3/7/02 – #1

REDLINE REVISION
4/29/02 – #2



REVISIONS

NO.	DATE	DESCRIPTION	BY	PE	STA	INK	PDP
1	6/24/01	MSD COMMENTS					
2	9/25/01	MSD COMMENTS					
3	3/7/02	REV. LINE & STA.					
4	4/29/02	FINAL "AS-BUILT"					
5	8/14/02	AS-BUILT REVISIONS					

PROFESSIONAL ENGINEER DAVID W. WALDEN LICENSED No. 15193 — 11-17-02

STATE OF KENTUCKY JAMES S. GONDA 4707 PROFESSIONAL LAND SURVEYOR — 11-14-02

SURVEYOR'S SEAL

ENGINEER'S SEAL

PROJECT DATA

F.P. NAME: DONNEGAN/CWD	
DATE: 8/17/01	SCALE: 1"=50'
PREPARED BY: RS	DRAWN BY: GC

L&D
LAND DESIGN & DEVELOPMENT, INC.
19300 W. PARKWAY, SUITE B, LOUISVILLE, KENTUCKY 40245
PHONE (502) 244-0444 FAX (502) 244-0447
WEB SITE: WWW.LDDINC.COM

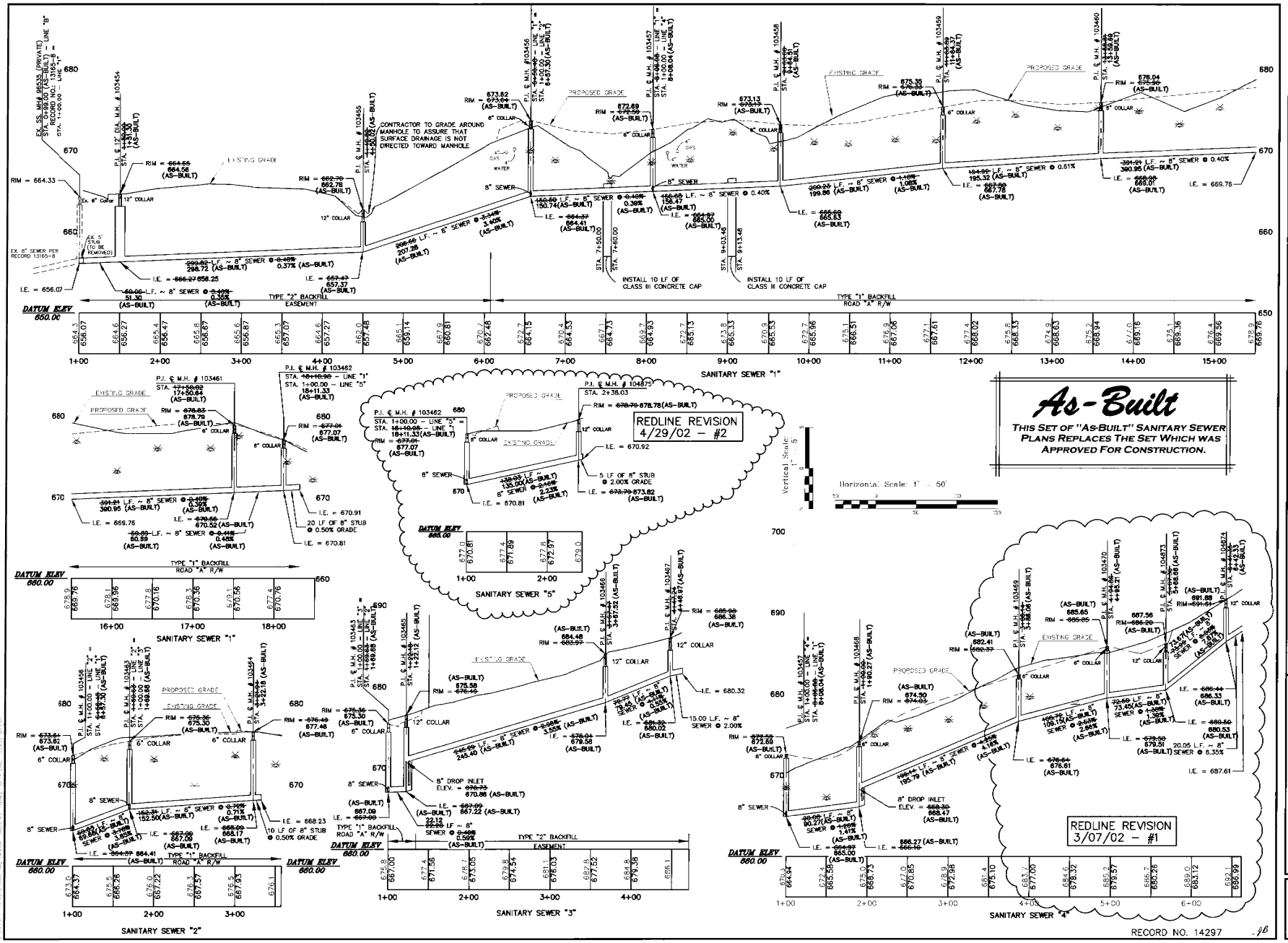
PRELIMINARY SANITARY SEWER PLAN

FOX RUN SUBDIVISION

DEVELOPER:
GLEN-MAR DEVELOPMENT, INC.
208 OLD HARRODS CREEK ROAD
LOUISVILLE, KY. 40223
(502) 244-0442

JOB NO. 00018

SHEET 2 OF 4



NO.	DATE	DESCRIPTION	BY
1	8/13/01	MGD COMMENTS	MGC
2	9/25/01	MGD COMMENTS	MGC
3	3/7/02	REV. LINE "4"	STK
4	4/29/02	INS. "5" ADDITION	JDM
5	8/13/02	NO-WELL INFORMATION	FDP

REVISIONS

11-11-02 SURVEYOR'S SEAL

11-11-02 ENGINEER'S SEAL

PROJECT DATA

FILE NAME: 1001BAU-PROLING | DATE: 8/14/01 | SCALE: AS SHOWN | DRAWN BY: JDC | DESIGNED BY: JDC

L D&D

LAND DESIGN & DEVELOPMENT, INC.
ENGINEERS • SURVEYORS • PLANNERS
8204 WESTPORT ROAD, SUITE 9 LOUISVILLE, KENTUCKY 40228
PHONE: (502) 231-1939 FAX: (502) 231-1949
WEB SITE: WWW.LDD-INC.COM

PRIVATE SANITARY SEWER PROFILES

FOX RUN SUBDIVISION

DEVELOPER

GLEN-MAR DEVELOPMENT, INC.
206 OLD HARRODS CREEK ROAD
LOUISVILLE, KENTUCKY 40223
(502) 244-0444

JOB NO. 00018

SHEET 3 OF 4

MSD

LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT
PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: Fox Run Subdivision — Assm't __ Int __ Lot Ext X — Rec No. 14,297 — Sht No. 1 of 5 — Available Date 11-11-02
Line: 1 Inspector: Chris Banks — Date 11-11-02 — Accepted by MSD Inspector C.J. Banks — Date 11-11-02
Engineer: James Gonda, PE — Phone No. (502)426-9374 — Contractor KELSEY CONSTRUCTION — Phone No. (502) 955-1410

** To Complete the "Location of PSC on lot": RW - Right of Way (Front); EM - Esm't in Open Area; EMF - Esm't Front; EMS - Esm't Side; EMR - Esm't Rear; CU - Cul de sac; AL - Alley Rear; ALS - Alley Side

Tap Station on Sewer / Tap Station on P/L	Size / Location of PSC on Lot **	Side / Elevation	Length / Depth at End	Tax Block/Lot No. / House No.	Street Name	Tap Location – Distance & Direction from MH / End Location – Distance & Direction from PL Corner	MH Number / Upstream/Downstream Node (By MSD)	Description of Location of MH (By MSD) / Line Segment Numbers FROM-TO (By MSD)	Remarks
T 1+80.00	4"	L	6'		ROAD-A	MH 29' S	103,454		
P/L 1+80.00	EMR	656.59	8'	LOT 2		P/L 59'S of N P/L			LAID 10'
T 2+50.00	4"	L	8'		ROAD-A	MH 99' S	103,454		
P/L 2+50.00	EMR	656.87	8'	LOT 2		P/L 11'S of N P/L			LAID 12'
T 3+25.00	4"	L	11'		ROAD-A	MH 125' N	103,455		
P/L 3+25.00	EMR	657.15	8'	LOT 3		P/L 10'S of N P/L			LAID 14'
T 4+00.00	4"	L	18'		ROAD-A	MH 50' N	103,455		
P/L 4+00.00	EMR	657.47	7'	LOT 4		P/L 13'S of N P/L			LAID 18'
T 4+80.00	4"	R	10'		ROAD-A	MH 30' E	103,455		
P/L 4+80.00	EMS	658.70	5'	LOT 5		P/L 45'E of W P/L			LAID 10'
T 9+25.00	4"	R	26'		ROAD-A	MH 39' N	103,458		
P/L 9+25.00	RW	666.60	6'	LOT 6		P/L 13'S of N P/L			LAID 42'
T 9+85.00	4"	R	23'		ROAD-A	MH 21' S	103,458		
P/L 9+85.00	RW	664.59	5'	LOT 7		P/L 10'S of N P/L			LAID 40'
T 10+55.00	4"	R	24'		ROAD-A	MH 91' S	103,458		
P/L 10+55.00	RW	667.69	6'	LOT 8		P/L 6'S of N P/L			LAID 40'
T 11+30.00	4"	R	28'		ROAD-A	MH 34' N	103,459		
P/L 11+30.00	RW	668.62	6.5'	LOT 9		P/L 3'S of N P/L			LAID 45'
T 12+25.00	4"	R	26'		ROAD-A	MH 62' S	103,459		
P/L 12+25.00	RW	669.11	6.5'	LOT 10		P/L 13'S of N P/L			LAID 42'

MSD

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PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: Fox Run Subdivision — Assm't __ Int __ Lot Ext X — Rec No. 14,297 — Sht No. 2 of 5 — Available Date 11-11-02
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T 13+05.00	4"	R	25'		ROAD-A	MH 54' N	103,460		
P/L 13+05.00	RW	669.59	6.5'	LOT 11		P/L 16'S of N P/L			LAID 40'
T 13+75.00	4"	R	25'		ROAD-A	MH 16' S	103,460		
P/L 13+75.00	RW	670.02	6.5'	LOT 12		P/L 10'S of N P/L			LAID 40'
T 14+55.00	4"	R	24'		ROAD-A	MH 96' S	103,460		
P/L 14+55.00	RW	670.32	6.5'	LOT 13		P/L 15'S of N P/L			LAID 38'
T 15+30.00	4"	R	23'		ROAD-A	MH 171' S	103,460		
P/L 15+30.00	RW	670.61	6.5'	LOT 14		P/L 15'S of N P/L			LAID 38'
T 16+00.00	4"	R	22'		ROAD-A	MH 150' N	103,461		
P/L 16+00.00	RW	670.92	6.5'	LOT 15		P/L 10'S of N P/L			LAID 36'
T 16+80.00	4"	R	21'		ROAD-A	MH 70' N	103,461		
P/L 16+80.00	RW	671.22	6.5'	LOT 16		P/L 15'S of N P/L			LAID 35'
T 18+18.00	4"	L	26'		ROAD-A	MH 7' W	103,462		
P/L 18+18.00	RW	671.66	5'	LOT 17		P/L 10'W of E P/L			LAID 40'
T 17+90.00	4"	L	55'		ROAD-A	MH 21' N	103,462		
P/L 17+90.00	RW	672.43	5'	LOT 18		P/L 12'S of N P/L			LAID 70'
T 17+55.00	4"	L	53'		ROAD-A	MH 4' S	103,461		
P/L 17+55.00	RW	670.97	6'	LOT 19		P/L 21'S of N P/L			LAID 70'
T 17+10.00	4"	L	29'		ROAD-A	MH 41' N	103,461		
P/L 17+10.00	RW	671.34	6.5'	LOT 20		P/L 12'S of N P/L			LAID 45'

MSD

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T 16+30.00	4"	L	29'		ROAD-A	MH 120' N	103,461		
P/L 16+30.00	RW	671.03	6.5'	LOT 21		P/L 10'S of N P/L			LAID 44'
T 15+55.00	4"	L	27'		ROAD-A	MH 197' S	103,460		
P/L 15+55.00	RW	670.72	6.5'	LOT 22		P/L 13'S of N P/L			LAID 44'
T 14+75.00	4"	L	26'		ROAD-A	MH 117' S	103,460		
P/L 14+75.00	RW	670.41	6.5'	LOT 23		P/L 10'S of N P/L			LAID 42'
T 14+00.00	4"	L	25'		ROAD-A	MH 42' S	103,460		
P/L 14+00.00	RW	670.11	6.5'	LOT 24		P/L 12'S of N P/L			LAID 42'
T 13+30.00	4"	L	25'		ROAD-A	MH 30' N	103,460		
P/L 13+30.00	RW	669.71	6.5'	LOT 25		P/L 17'S of N P/L			LAID 40'
T 12+45.00	4"	L	24'		ROAD-A	MH 82' S	103,459		
P/L 12+45.00	RW	669.24	6.5'	LOT 26		P/L 9'S of N P/L			LAID 40'
T 11+80.00	4"	L	20'		ROAD-A	MH 17' S	103,459		
P/L 11+80.00	RW	668.62	6.5'	LOT 27		P/L 18'S of N P/L			LAID 35'
T 11+00.00	4"	L	24'		ROAD-A	MH 64' N	103,459		
P/L 11+00.00	RW	668.21	6'	LOT 28		P/L 7'S of N P/L			LAID 40'
T 10+25.00	4"	L	25'		ROAD-A	MH 62' S	103,458		
P/L 10+25.00	RW	667.37	6'	LOT 29		P/L 20'S of N P/L			LAID 40'
T 8+85.00	4"	L	21'	LOT 30	ROAD-A	MH 80' N	103,458		
P/L 8+85.00	RW	666.18	6'	14801		P/L 11'N of S P/L			LAID 40'

MSD

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PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: Fox Run Subdivision — Assm't __ Int __ Lot Ext X — Rec No. 14,297 — Sht No. 4 of 5 — Available Date 11-11-02
Line: __ Inspector: Chris Banks — Date 11-11-02 — Accepted by MSD Inspector C.J. Banks — Date 11-11-02
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T 6+75.00	4"	L	26'		ROAD-A	MH 19' S	103,456		
P/L 6+75.00	RW	664.40	9'	LOT 41		P/L 17'S of N P/L			LAID 42'
~~T 12+45.00~~	~~4"~~	~~L~~	~~24'~~		~~ROAD-A~~	~~MH 82' S~~	~~103,459~~		
~~P/L 12+45.00~~			~~6.5'~~	~~LOT 26~~		~~P/L 9'S of N P/L~~			~~LAID 40'~~
T 1+10.00	4"	R	26'		ROAD-A	MH 11' N	103,456		
P/L 1+10.00	RW	667.15	9'	LOT 42		P/L 18'N of S P/L			LAID 42'
T 2+60.00	4"	R	36'		ROAD-A	MH 62' S	103,464		
P/L 2+60.00	RW	668.64	6'	LOT 44		P/L 12'N of S P/L			LAID 52'
T 3+35.00	4"	R	48'		ROAD-A	MH 13' N	103,464		
P/L 3+35.00	RW	669.80	6'	LOT 44		P/L 13'N of S P/L			LAID 65'
T 1+50.00	4"	L	7'		ROAD-A	MH 28' E	103,465		
P/L 1+50.00	RW	667.71	4.5'	LOT 43		P/L 25'E of W P/L			LAID 7'
T 4+55.00	4"	R	20'		COURT-B	MH 7' E	103,467		
P/L 4+55.00	EMR	681.92	5'	LOT 37		P/L 6'E of W P/L			LAID 20'
T 4+00.00	4"	R	15'		COURT-B	MH 33' E	103,466		
P/L 4+00.00	EMR	679.75	5'	LOT 38		P/L 42'E of W P/L			LAID 15'
T 2+90.00	4"	L	7'		OLD HENRY	MH 78' W	103,466		
P/L 2+90.00	EMR	677.21	4.5'	LOT 46	ROAD	P/L 13'E of W P/L			LAID 7'
T 3+64.00	4"	L	8'		OLD HENRY	MH 4' W	103,466		
P/L 3+64.00	EMR	679.51	4.5'	LOT 47	ROAD	P/L 7'E of W P/L			LAID 13'
T 4+57.00	4"	L	4'		OLD HENRY	MH 9' E	103,467		
P/L 4+57.00	EMR	681.82	5'	LOT 48	ROAD	P/L 8'E of W P/L			LAID 10'

MSD

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PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: Fox Run Subdivision — Assm't __ Int __ Lot Ext X — Rec No. 14,297 — Sht No. 5 of 5 — Available Date 11-11-02
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T 2+60.00	4"	R	22'		COURT-B	MH 70' E	103,468		
P/L 2+60.00	RW	671.06	5'	LOT 31		P/L 13'E of W P/L			LAID 40'
T 3+40.00	4"	R	25'		COURT-B	MH 46' W	103,469		
P/L 3+40.00	RW	674.46	5.5	LOT 32		P/L 12'E of W P/L			LAID 41'
T 3+92.00	4"	R	25		COURT-B	MH 6' N	103,469		
P/L 3+92.00	RW	675.68	5'	LOT 33		P/L 21'E of W P/L			LAID 42'
T 4+40.00	4"	R	37'		COURT-B	MH 54' N	103,469		
P/L 4+40.00	RW	677.13	5'	LOT 34		P/L 11'N of S P/L			LAID 50'
T 5+70.00	4"	R	5'		COURT-B	MH 4' E	104,873		
P/L 5+70.00	RW	677.73	5'	LOT 35		P/L 20'E of W P/L			LAID 6'
T 5+75.00	4"	L	15'		COURT-B	MH 9' E	104,873		
P/L 5+75.00	RW	678.15	5'	LOT 36		P/L 25'E of W P/L			LAID 17'
T 3+05.00	4"	L	27'		COURT-B	MH 81' W	103,469		
P/L 3+05.00	RW	672.98	5'	LOT 39		P/L 13'E of W P/L			LAID 43'
T 2+30.00	4"	L	27'		COURT-B	MH 40' E	103,468		
P/L 2+30.00	RW	669.79	5.5'	LOT 40		P/L 12'E of W P/L			LAID 45'
T 6+67.00	4"	L	14'		OLD HENRY RD	MH 25' E	104,874		
P/L 6+67.00			5'	14809		P/L			
T 6+62.00	4"	R	18'		OLD HENRY RD	MH 20' E	104,874		
P/L 6+62.00			5'	14809		P/L			
T 2+40.00	4"	L	5'		APPLE HILL RD	MH 5' S	104,876		REDUCER 8" - 4"
P/L 2+40.00			6'	3500		P/L 3'N of S P/L			LAID 5'

As-Built

THIS SET OF "AS-BUILT" SANITARY SEWER PLANS REPLACES THE SET WHICH WAS APPROVED FOR CONSTRUCTION.

CJB RECORD NO. 14297

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	8/04/01	MSD COMMENTS	HEC
2	8/23/02	AS-BUILT REVISIONS	PDP

11-11-02
STATE OF KENTUCKY DAVID B. WINKLER 3492 LICENSED PROFESSIONAL LAND SURVEYOR
SURVEYOR'S SEAL

11-11-02
STATE OF KENTUCKY JAMES S. GONDA 20707 LICENSED PROFESSIONAL ENGINEER
ENGINEER'S SEAL

PROJECT DATA
FILE NAME: 00018PSC.DWG — SCALE: NONE
DATE: 08/14/01 — DRAWN BY: HY
CHECKED BY:

LD&D
LAND DESIGN & DEVELOPMENT, INC.
ENGINEERING • LAND SURVEYING • LANDSCAPE ARCHITECTURE
503 VINE CREST AVENUE, SUITE B LOUISVILLE, KENTUCKY 40222
FAX 502.426.9375 PHONE 502.426.9374
WEB SITE WWW.LDD-INC.COM

PROPERTY SERVICE CONNECTIONS

FOX RUN SIBDIVISION

DEVELOPER
GLEN-MAR DEVELOPMENT, INC.
206 OLD HARRODS CREEK ROAD
LOUISVILLE, KENTUCKY 40223
(502) 244-0444

JOB NO. 00018

SHEET 4 OF 4

INDEX	
Sht. No.	Title
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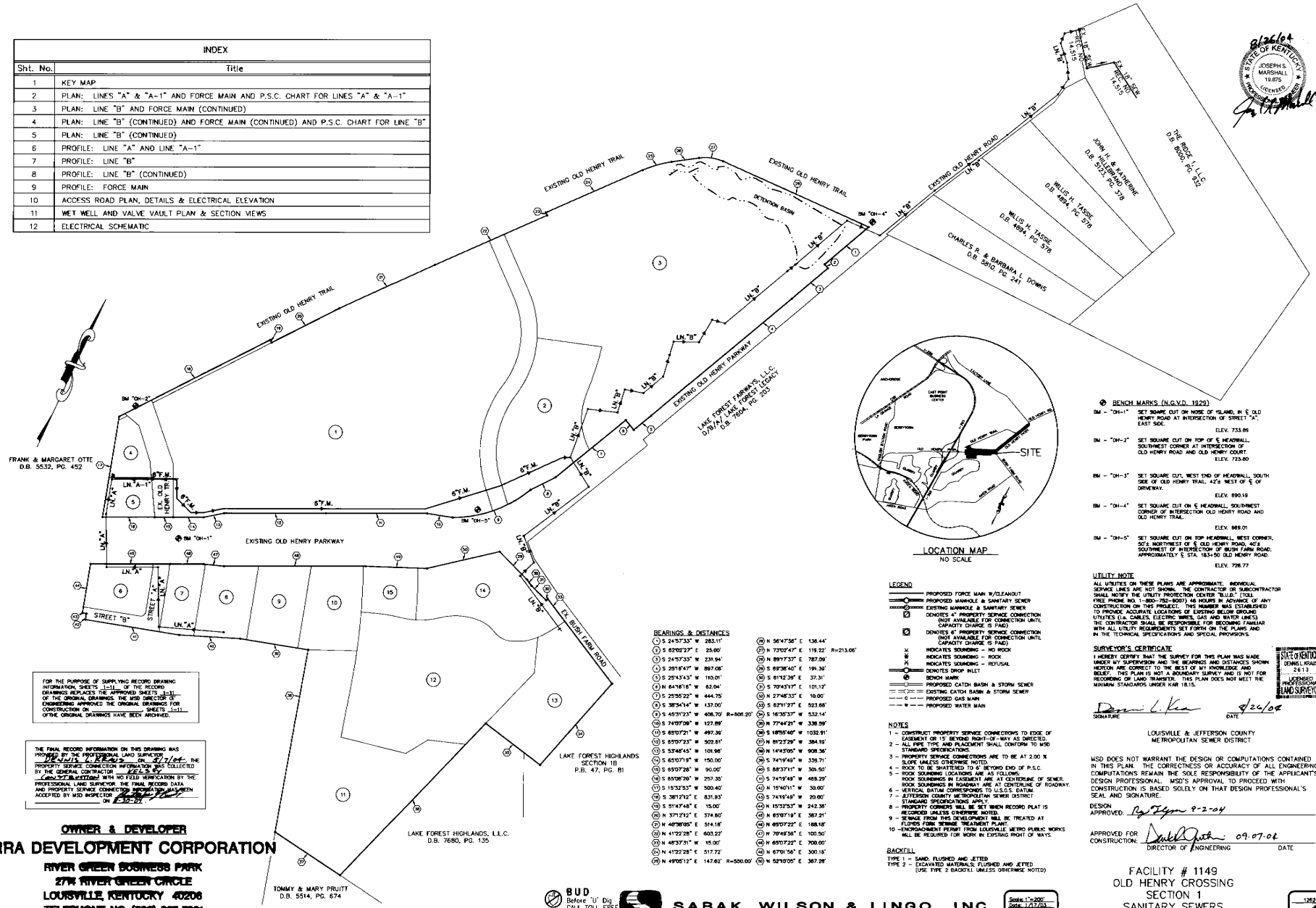
4	PLAN: LINE "B" (CONTINUED) AND FORCE MAIN (CONTINUED) AND P.S.C. CHART FOR LINE "B"
5	PLAN: LINE "B" (CONTINUED)
6	PROFILE: LINE "A" AND LINE "A-1"
7	PROFILE: LINE "B"
8	PROFILE: LINE "B" (CONTINUED)
9	PROFILE: FORCE MAIN
10	ACCESS ROAD PLAN, DETAILS & ELECTRICAL ELEVATION
11	WET WELL AND VALVE VAULT PLAN & SECTION VIEWS
12	ELECTRICAL SCHEMATIC



FOR THE PURPOSE OF SUPPLYING RECORD DRAWING INFORMATION, SHEETS 1-11 OF THE RECORD DRAWINGS REPLACES THE APPROVED SHEETS 1-11 OF THE ORIGINAL DRAWINGS. THE MSD DIRECTOR OF ENGINEERING APPROVED THE ORIGINAL DRAWINGS FOR CONSTRUCTION ON _____ SHEETS 1-11 OF THE ORIGINAL DRAWINGS HAVE BEEN ARCHIVED.

THE FINAL RECORD INFORMATION ON THIS DRAWING WAS PROVIDED BY THE PROFESSIONAL LAND SURVEYOR DENNIS L. KEARNS ON 8/3/04. THE PROPERTY SERVICE CONNECTION INFORMATION WAS COLLECTED BY THE GENERAL CONTRACTOR LEL'S SEWER CONSTRUCTION WITH NO FIELD VERIFICATION BY THE PROFESSIONAL LAND SURVEYOR. THE FINAL RECORD DATA AND PROPERTY SERVICE CONNECTION INFORMATION HAS BEEN ACCEPTED BY MSD INSPECTOR _____ ON 8-20-04.

OWNER & DEVELOPER

TERRA DEVELOPMENT CORPORATION

RIVER GREEN BUSINESS PARK
2714 RIVER GREEN CIRCLE
LOUISVILLE, KENTUCKY 40206
TELEPHONE NO. (502) 897-7091

GRAPHIC SCALE
0 25 50 100 200

BUD Before 'U' Dig CALL TOLL FREE 1-800-752-6007 For Buried Line/Cable Locations

SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
375 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 6271

Scale: 1"=200'
Date: 1/17/03
Rev: 4/10/03
Rev: 4/23/03
Rev: 5/22/03
Rev: 7/8/03
Rev: 9/3/03 (SHT. 5 DETAIL)

BEARINGS & DISTANCES

(1) S 24°57'33" W	283.11'	(26) N 56°47'56" E	136.44'
(2) S 82°02'27" E	25.00'	(27) N 73°02'47" E	119.22' R=213.06'
(3) S 24°57'33" W	231.94'	(28) N 89°17'37" E	787.09'
(4) S 29°16'47" W	897.06'	(29) S 69°38'40" E	199.39'
(5) S 25°43'43" W	110.01'	(30) S 81°12'36" E	37.31'
(6) N 64°16'18" W	62.04'	(31) S 70°43'17" E	101.12'
(7) S 25°55'22" W	444.75'	(32) N 27°48'33" E	18.00'
(8) S 38°34'14" W	137.00'	(33) S 62°11'27" E	523.68'
(9) S 45°31'23" W	406.70' R=506.20'	(34) S 16°35'37" W	532.14'
(10) S 74°07'09" W	127.89'	(35) N 77°44'24" W	338.59'
(11) S 85°07'21" W	497.39'	(36) S 18°55'46" W	1032.91'
(12) S 85°07'23" W	502.81'	(37) N 81°23'29" W	384.19'
(13) S 53°48'45" W	101.98'	(38) N 14°43'05" W	908.36'
(14) S 85°07'19" W	150.00'	(39) S 74°19'49" W	339.71'
(15) S 85°07'28" W	90.00'	(40) S 88°33'11" W	305.50'
(16) S 85°06'20" W	257.35'	(41) S 74°19'49" W	468.29'
(17) S 15°32'53" W	500.40'	(42) N 15°40'11" W	30.00'
(18) S 38°12'42" E	831.93'	(43) S 74°19'49" W	20.00'
(19) S 51°47'48" E	15.00'	(44) N 15°32'53" W	242.38'
(20) N 37°12'12" E	374.60'	(45) N 65°07'18" E	387.21'
(21) N 40°36'05" E	514.18'	(46) N 65°07'22" E	188.48'
(22) N 41°22'28" E	603.22'	(47) N 70°49'56" E	100.50'
(23) N 48°37'31" W	15.00'	(48) N 65°07'22" E	700.00'
(24) N 41°22'28" E	517.72'	(49) N 67°01'56" E	300.18'
(25) N 49°05'12" E	147.62' R=550.00'	(50) N 52°10'05" E	367.28'

LEGEND

- PROPOSED FORCE MAIN W/CLEANOUT
- PROPOSED MANHOLE & SANITARY SEWER
- EXISTING MANHOLE & SANITARY SEWER
- DENOTES 4" PROPERTY SERVICE CONNECTION (NOT AVAILABLE FOR CONNECTION UNTIL CAPACITY CHARGE IS PAID)
- DENOTES 6" PROPERTY SERVICE CONNECTION (NOT AVAILABLE FOR CONNECTION UNTIL CAPACITY CHARGE IS PAID)
- INDICATES SOUNDING - NO ROCK
- INDICATES SOUNDING - ROCK
- INDICATES SOUNDING - REFUSAL
- DENOTES DROP INLET
- BENCH MARK
- PROPOSED CATCH BASIN & STORM SEWER
- EXISTING CATCH BASIN & STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED WATER MAIN

NOTES

1 - CONSTRUCT PROPERTY SERVICE CONNECTIONS TO EDGE OF EASEMENT OR 15' BEYOND RIGHT-OF-WAY AS DIRECTED.
2 - ALL PIPE TYPE AND PLACEMENT SHALL CONFORM TO MSD STANDARD SPECIFICATIONS.
3 - PROPERTY SERVICE CONNECTIONS ARE TO BE AT 2.00 % SLOPE UNLESS OTHERWISE NOTED.
4 - ROCK TO BE SHATTERED TO 6" BEYOND END OF P.S.C.
5 - ROCK SOUNDING LOCATIONS ARE AS FOLLOWS:
ROCK SOUNDINGS IN EASEMENT ARE AT CENTERLINE OF SEWER.
ROCK SOUNDINGS IN ROADWAY ARE AT CENTERLINE OF ROADWAY.
6 - VERTICAL DATUM CORRESPONDS TO U.S.G.S. DATUM.
7 - JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT STANDARD SPECIFICATIONS APPLY.
8 - PROPERTY CORNERS WILL BE SET WHEN RECORD PLAT IS RECORDED UNLESS OTHERWISE NOTED.
9 - SEWAGE FROM THIS DEVELOPMENT WILL BE TREATED AT FLOYDS FORK SEWAGE TREATMENT PLANT.
10 - ENCROACHMENT PERMIT FROM LOUISVILLE METRO PUBLIC WORKS WILL BE REQUIRED FOR WORK IN EXISTING RIGHT OF WAYS.

BACKFILL

TYPE 1 - SAND, FLUSHED AND JETTED
TYPE 2 - EXCAVATED MATERIALS; FLUSHED AND JETTED
(USE TYPE 2 BACKFILL UNLESS OTHERWISE NOTED)

BENCH MARKS (N.G.V.D. 1929)

BM - "OH-1" SET SQUARE CUT ON NOSE OF ISLAND, IN ℄ OLD HENRY ROAD AT INTERSECTION OF STREET "A", EAST SIDE.
ELEV. 733.86

BM - "OH-2" SET SQUARE CUT ON TOP OF ℄ HEADWALL, SOUTHWEST CORNER AT INTERSECTION OF OLD HENRY ROAD AND OLD HENRY COURT.
ELEV. 723.80

BM - "OH-3" SET SQUARE CUT, WEST END OF HEADWALL, SOUTH SIDE OF OLD HENRY TRAIL, 42'± WEST OF ℄ OF DRIVEWAY.
ELEV. 690.19

BM - "OH-4" SET SQUARE CUT ON ℄ HEADWALL, SOUTHWEST CORNER OF INTERSECTION OLD HENRY ROAD AND OLD HENRY TRAIL.
ELEV. 669.01

BM - "OH-5" SET SQUARE CUT ON TOP HEADWALL, WEST CORNER, 50'± NORTHWEST OF ℄ OLD HENRY ROAD, 40'± SOUTHWEST OF INTERSECTION OF BUSH FARM ROAD, APPROXIMATELY ℄ STA. 183+50 OLD HENRY ROAD.
ELEV. 728.77

UTILITY NOTE

ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "BLUE-A" TOLL FREE PHONE NO. 1-800-752-6007) 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (i.e. CABLES, ELECTRIC WIRES, GAS AND WATER LINES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE SURVEY FOR THIS PLAN WAS MADE UNDER MY SUPERVISION AND THE BEARINGS AND DISTANCES SHOWN HEREON ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT FOR RECORDING OR LAND TRANSFER. THIS PLAN DOES NOT MEET THE MINIMUM STANDARDS UNDER KAR 18.15.

STATE OF KENTUCKY DENNIS L. KEARNS 2613 LICENSED PROFESSIONAL LAND SURVEYOR

SIGNATURE _____ DATE 8/26/04

LOUISVILLE & JEFFERSON COUNTY
METROPOLITAN SEWER DISTRICT

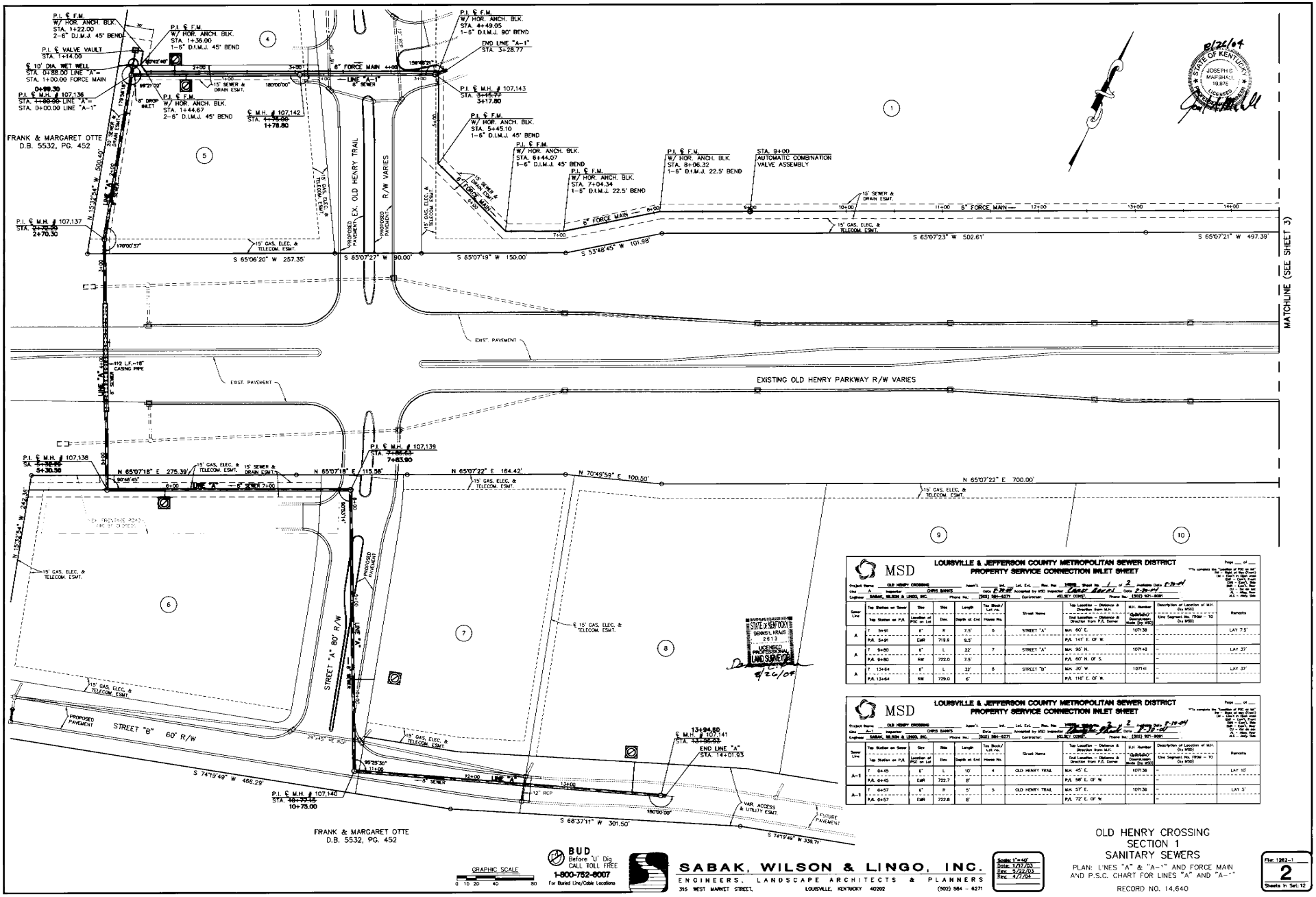
MSD DOES NOT WARRANT THE DESIGN OR COMPUTATIONS CONTAINED IN THIS PLAN. THE CORRECTNESS OR ACCURACY OF ALL ENGINEERING COMPUTATIONS REMAIN THE SOLE RESPONSIBILITY OF THE APPLICANT'S DESIGN PROFESSIONAL. MSD'S APPROVAL TO PROCEED WITH CONSTRUCTION IS BASED SOLELY ON THAT DESIGN PROFESSIONAL'S SEAL AND SIGNATURE.

DESIGN APPROVED: _____ 9-2-04

APPROVED FOR CONSTRUCTION: _____ 09-07-04
DIRECTOR OF ENGINEERING DATE

FACILITY # 1149
OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
KEY MAP
RECORD NO. 14,640

1262-1
1
Sheets in Set: 12



MSD — LOUISVILLE & JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT
PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: OLD HENRY CROSSING — Asset's: ___ — Lot. Ext. ___ — Rec. No. ___ — Sheet No. 1 of 2 — Inspection Date 7-19-04
Line: A — Inspector: CHRIS BAKER — Date: 7-19-04 — Accepted by MSD Inspector: [signature] — Date: 7-19-04
Engineer: SABAK, WILSON & LINGO, INC. — Phone No.: (502) 584-6271 — Contractor: BELMET CORP. — Phone No.: (502) 921-9081

Page ___ of ___
Line complete line "Location of PSC on Lot": Right or Wrong (Correct) (W - Error in Sewer name; Right - Error in Right side; Left - Error in Left side; Both - Error in Both sides; Left - Error in Left side; Right - Error in Right side; Both - Error in Both sides; W - Wrong Side; R - Right Side; L - Left Side; Both - Both Sides)

Sewer Line	Top Station on Sewer / Top Station on P.A.	Size / Location of PSC on Lot	Slope / Dev.	Length / Depth at End	Tap Block / Lot no. / House No.	Street Name	Top Location – Distance & Direction from M.H. / End Location – Distance & Direction from P.A. Corner	M.H. Number / Quadrant / Downstream Made (by MSD)	Description of Location of M.H. (by MSD) / Line Segment No. (TROW – TO (by MSD))	Remarks
A	T 5+91 / P.A. 5+91	6" / EMR	8 / 719.8	7.5' / 9.5'	6	STREET "A"	M.H. 60' E. / P.A. 141' E. OF W.	107138	-	LAY 7.5'
A	T 6+80 / P.A. 6+80	- / R/W	L / 722.0	22' / 7.5'	7	STREET "A"	M.H. 95' N. / P.A. 60' N. OF S.	107142	-	LAY 37'
A	T 13+64 / P.A. 13+64	6" / R/W	L / 729.0	32' / 6'	8	STREET "B"	M.H. 30' W. / P.A. 110' E. OF W.	107141	-	LAY 37'

MSD — LOUISVILLE & JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT
PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: OLD HENRY CROSSING — Asset's: ___ — Lot. Ext. ___ — Rec. No. ___ — Sheet No. 2 of 2 — Inspection Date 7-19-04
Line: A-1 — Inspector: CHRIS BAKER — Date: 7-19-04 — Accepted by MSD Inspector: [signature] — Date: 7-19-04
Engineer: SABAK, WILSON & LINGO, INC. — Phone No.: (502) 584-6271 — Contractor: BELMET CORP. — Phone No.: (502) 921-9081

Page ___ of ___
Line complete line "Location of PSC on Lot": Right or Wrong (Correct) (W - Error in Sewer name; Right - Error in Right side; Left - Error in Left side; Both - Error in Both sides; Left - Error in Left side; Right - Error in Right side; Both - Error in Both sides; W - Wrong Side; R - Right Side; L - Left Side; Both - Both Sides)

Sewer Line	Top Station on Sewer / Top Station on P.A.	Size / Location of PSC on Lot	Slope / Dev.	Length / Depth at End	Tap Block / Lot no. / House No.	Street Name	Top Location – Distance & Direction from M.H. / End Location – Distance & Direction from P.A. Corner	M.H. Number / Quadrant / Downstream Made (by MSD)	Description of Location of M.H. (by MSD) / Line Segment No. (TROW – TO (by MSD))	Remarks
A-1	T 0+45 / P.A. 0+45	6" / EMR	L / 722.7	10' / 8'	4	OLD HENRY TRAIL	M.H. 45' E. / P.A. 58' E. OF W.	107136	-	LAY 10'
A-1	T 0+57 / P.A. 0+57	6" / EMR	R / 722.8	5' / 8'	5	OLD HENRY TRAIL	M.H. 57' E. / P.A. 72' E. OF W.	107136	-	LAY 5'

GRAPHIC SCALE: 0 10 20 40 80

BUD Before 'U' Dig CALL TOLL FREE 1-800-752-6007 For Buried Line/Cable Locations

SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 6271

Scale: 1"=40'
Date: 1/07/03
Rev. 5/22/03
Rev. 4/7/04

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PLAN: LINES "A" & "A-1" AND FORCE MAIN AND P.S.C. CHART FOR LINES "A" AND "A-1"
RECORD NO. 14,640

File: 1262-1
2
Sheets in Set: 12

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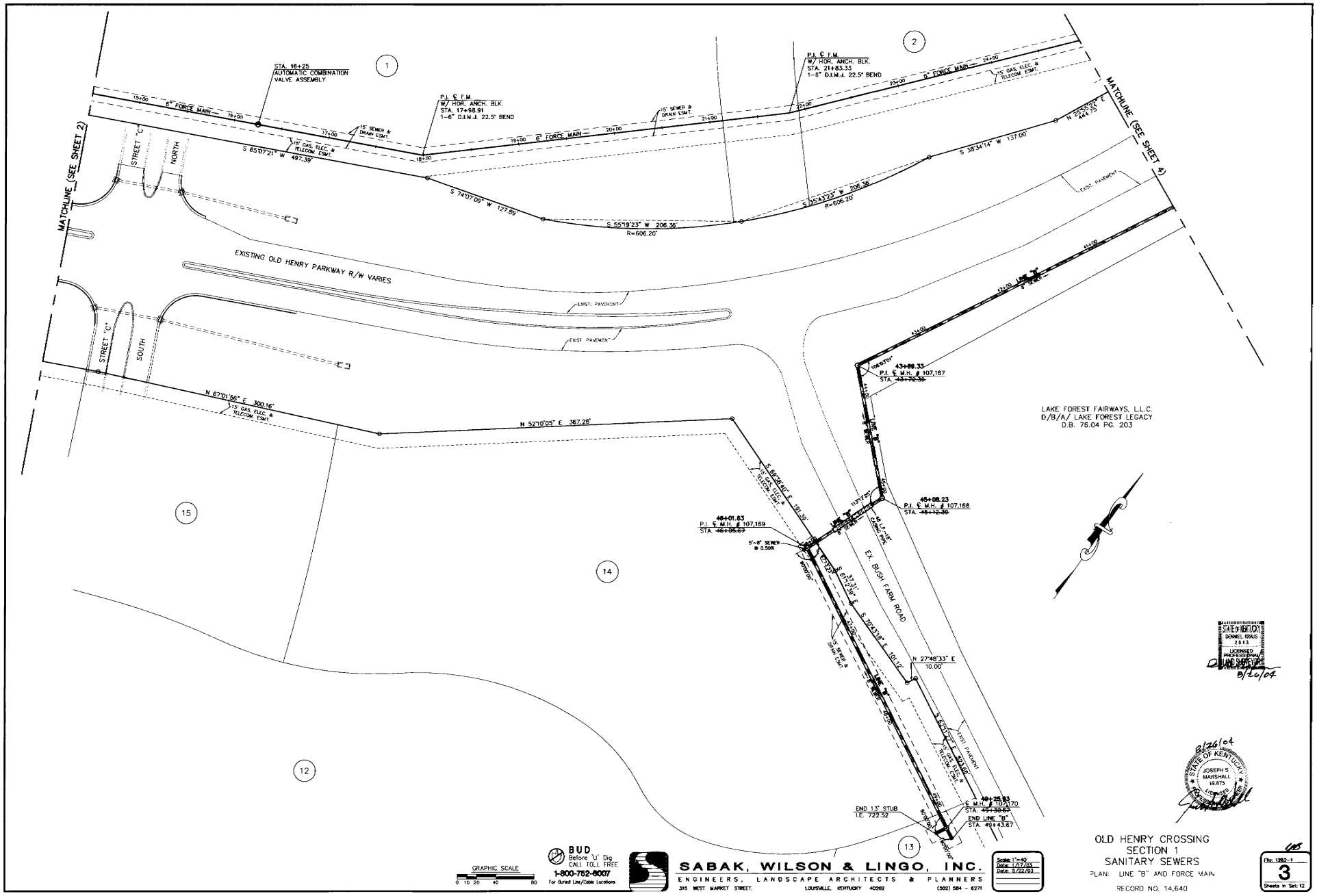
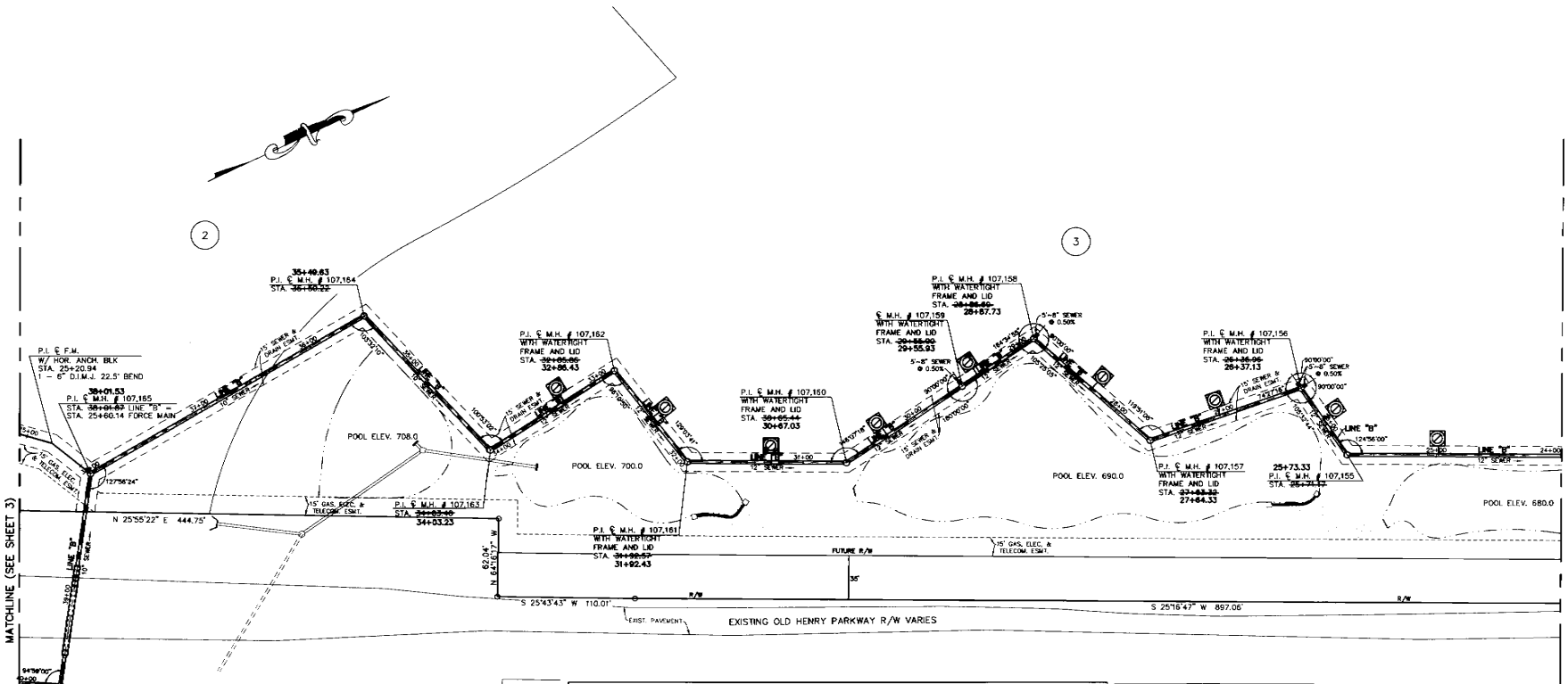

MATCHLINE (SEE SHEET 2)
MATCHLINE (SEE SHEET 4)
STA. 16+25
AUTOMATIC COMBINATION
VALVE ASSEMBLY
P.I. ℄ F.M.
W/ HOR. ANCH. BLK.
STA. 17+98.91
1-6" D.I.M.J. 22.5° BEND
P.I. ℄ F.M.
W/ HOR. ANCH. BLK.
STA. 21+83.33
1-8" D.I.M.J. 22.5° BEND
8" FORCE MAIN
6" FORCE MAIN
15' GAS, ELEC. & TELECOM. ESMT.
15' SEWER & DRAIN ESMT.
S 65°07'21" W 497.39'
S 74°07'09" W 127.89'
S 55°19'23" W 206.36'
R=606.20'
S 35°43'23" W 206.36'
R=606.20'
S 38°34'14" W 137.00'
N 23°50'25" W 444.70'
EXIST. PAVEMENT
EXISTING OLD HENRY PARKWAY R/W VARIES
STREET "C"
NORTH
SOUTH
N 67°01'56" E 300.16'
N 52°10'05" E 367.28'
S 69°28'40" E 101.39'
43+00.33
P.I. ℄ M.H. # 107,167
45+08.23
P.I. ℄ M.H. # 107,168
46+01.83
P.I. ℄ M.H. # 107,169
5'-8" SEWER @ 0.50%
Ex. BUSH FARM ROAD
N 27°48'33" E
10.00'
S 62°11'27" E 52.68'
S 27°43'18" E 101.17'
49+25.83
℄ M.H. # 107,170
END LINE "B"
STA. 49+43.67
END 13' STUB
I.E. 722.52
LINE "B"
LAKE FOREST FAIRWAYS, L.L.C.
D/B/A/ LAKE FOREST LEGACY
D.B. 76.04 PG. 203
15
14
13
12
1
2
GRAPHIC SCALE
0 10 20 40 80
BUD
Before 'U' Dig
CALL TOLL FREE
1-800-752-6007
For Buried Line/Cable Locations
SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 6271
Scale: 1"=40'
Date: 1/17/03
Date: 5/22/03
STATE OF KENTUCKY
DONNEL EDALS
2513
LICENSED PROFESSIONAL ENGINEER
8/26/04
STATE OF KENTUCKY
JOSEPH S. MARSHALL
19,875
LICENSED PROFESSIONAL ENGINEER
8/26/04
OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PLAN: LINE "B" AND FORCE MAIN
RECORD NO. 14,640
File: 1262-1
3
Sheets in Set: 12



MSD

LOUISVILLE & JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT
PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: OLD HENRY CROSSING — Assn'l: — Lot, Est. & Rec. No: — Page ___ of ___
Line: B — Inspector: JAMES BANKS — Date: 7-14-03 — Accepted by MSD Inspector: [signature] — Address Date: 7-14-03
Engineer: SABAK, WILSON & LINGO, INC. — Phone No.: (502) 584-6271 — Contractor: KELSEY CORBETT — Phone No.: (502) 921-9091

Sewer Line	Top Station on Sewer / Top Station on P.A.	Size / Location of PSC on Lot	Slope / Dim.	Length / Depth at End	Tax Block/ Lot no. / House No.	Street Name	Top Location - Distance & Direction from M.H. / Lot Location - Distance & Direction from P.A. Corner	M.H. Number / Elevation of Top of Manhole (by MSD)	Description of Location of M.H. (by MSD) / Line Segment No. FROM - TO (by MSD)	Remarks
B	T 5+13	4"	L	13'	1899 / *	OLD HENRY ROAD	N.A. 17' S.	107148	-	LAY 15'
	P.A. 5+13	RW	658.6	6'			P.A. -	-		
B	T 21+85	8"	R	7.5'	3	OLD HENRY ROAD	N.A. 12' S.	107154	-	LAY 7.5'
	P.A. 21+85	EMF	675.2	6.5'			P.A. -	-		
B	T 23+60	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 187' S.	107154	-	LAY 7.5'
	P.A 23+60	EMF	675.8	6'			P.A. -	-		
B	T 25+90	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 73' N.	107155	-	LAY 7.5'
	P.A 25+90	EMF	675.8	5.5'			P.A. -	-		
B	T 26+06	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 31' E.	107156	-	LAY 7.5'
	P.A 26+06	EMF	681.0	11.5'			P.A. -	-		
B	T 27+05	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 59' N.	107157	-	LAY 7.5'
	P.A 27+05	EMF	685.4	6'			P.A. -	-		
B	T 28+26	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 61' E.	107158	-	LAY 7.5'
	P.A 28+26	EMF	685.7	6'			P.A. -	-		
B	T 29+41	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 15' N.	107159	-	LAY 7.5'
	P.A. 29+41	EMF	685.9	5.5'			P.A. -	-		
B	T 30+28	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 36' N.	107160	-	LAY 7.5'
	P.A. 30+28	EMF	686.1	5'			P.A. -	-		
B	T 31+27	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 60' S.	107160	-	LAY 7.5'
	P.A. 31+27	EMF	690.9	7'			P.A. -	-		
B	T 32+37	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 45' W.	107161	-	LAY 7.5'
	P.A. 32+37	EMF	690.8	5.5'			P.A. -	-		
B	T 33+33	6"	R	7.5'	3	OLD HENRY ROAD	N.A. 47' S.	107162	-	LAY 7.5'
	P.A. 33+33	EMF	696.1	5.5'			P.A. -	-		

Page ___ of ___
*To contact the Inspector of the MSD at 587-0160 Ext. 1 Enter the Project Name, Line Letter, Station Number
Ex = Exist. R = Rock
Ex. = Exist. Sa = Sanitary
EMF = Exist. Mat
Ex. = Exist. Mat
G = Gal pipe
R = Rock
A.S. = Alum. Sh
A.R. = Alum. Rd

LAKE FOREST FAIRWAYS, L.L.C.
D/B/A LAKE FOREST LEGACY
D.B. 7604, PG. 203

STATE OF KENTUCKY
DUANE L. HOGUE
2613
LICENSED PROFESSIONAL ENGINEER AND SURVEYOR
8/26/04

8/26/04
STATE OF KENTUCKY
JOSEPH S. MARSHALL
19875
LICENSED

BUD
Before 'U' Dig
CALL TOLL FREE
1-800-752-8007
For Buried Line/Cable Locations

GRAPHIC SCALE
0 10 20 40 80

SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 6271

Scale: 1"=40'
Date: 1/17/03
Rev: 7/22/03
Rev: 7/8/03

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS

PLAN: LINE "B"
AND P.S.C. CHART FOR LINE "B"

RECORD NO. 14,640

File: 1282-1
4
Sheets in Set: 12

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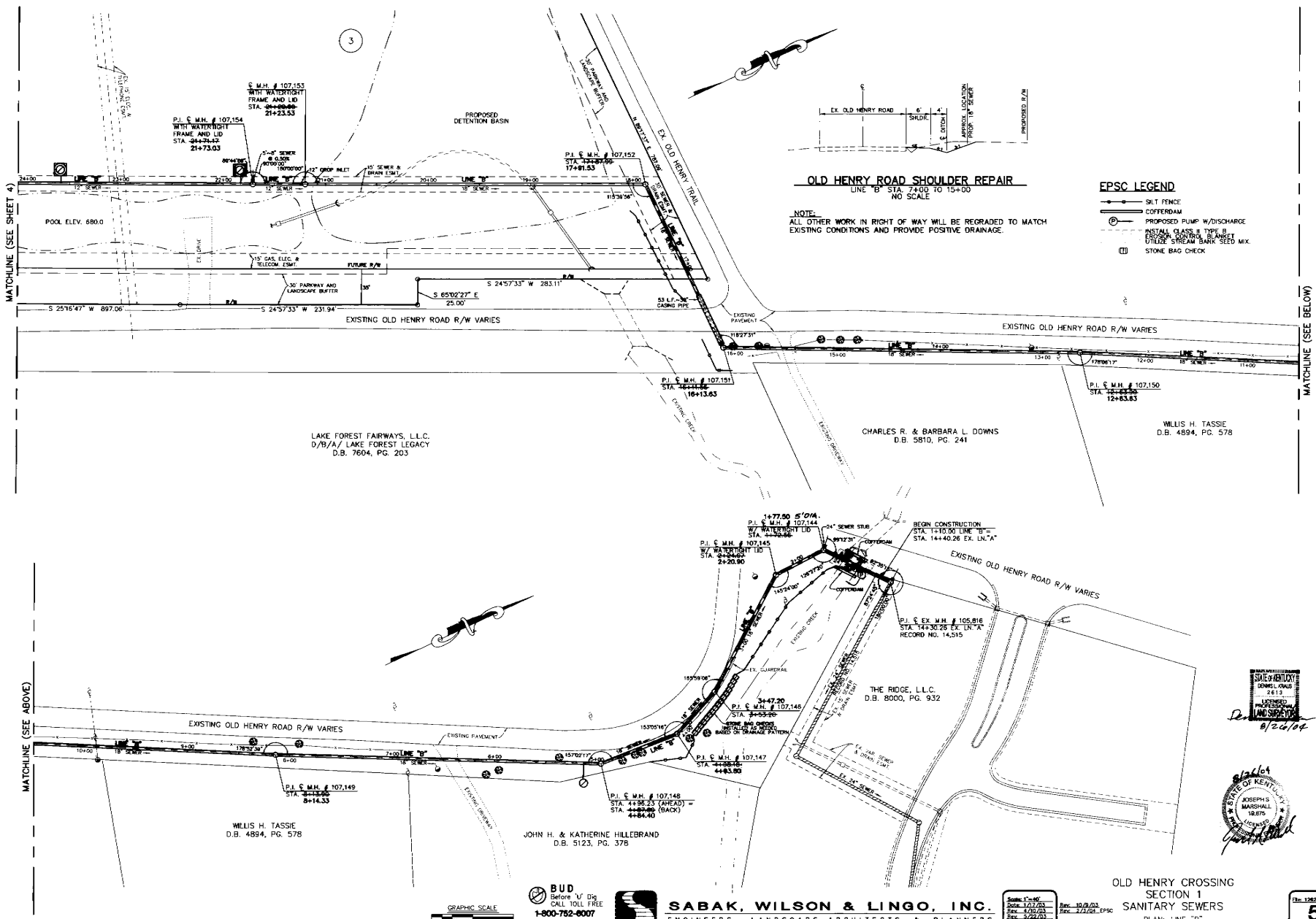
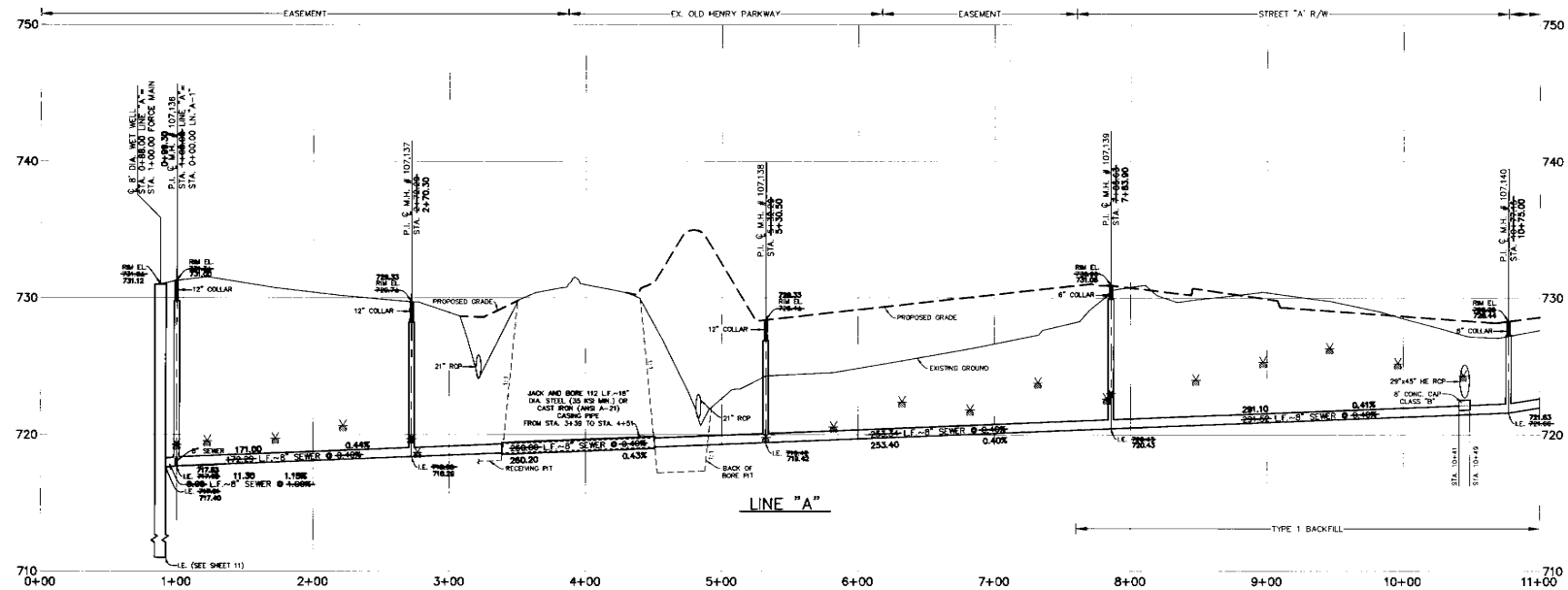
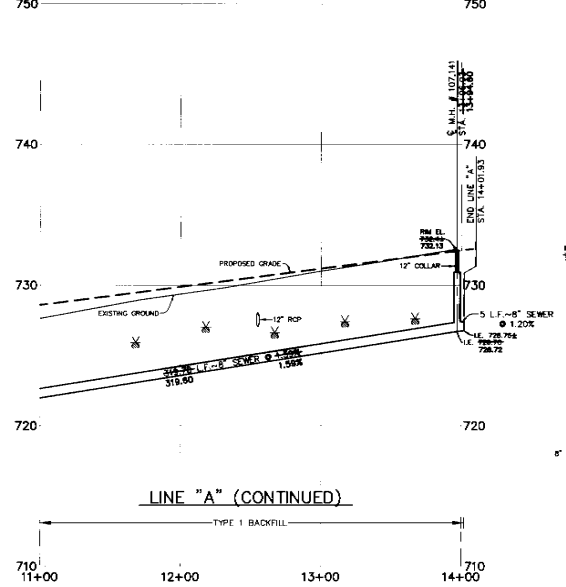
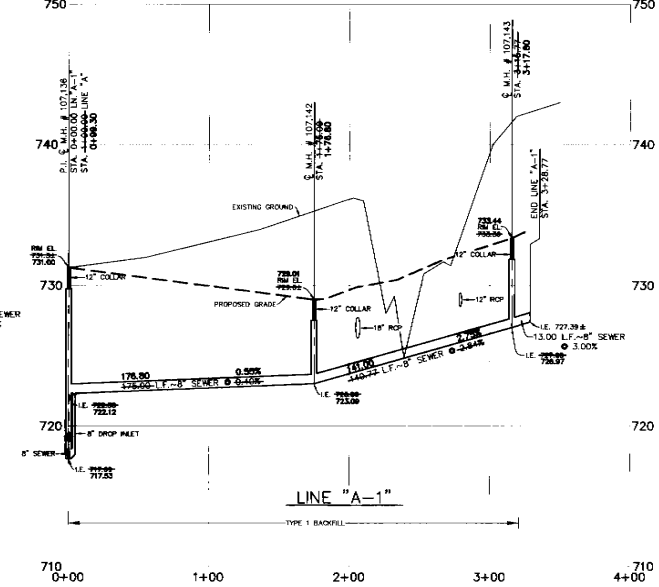

MATCHLINE (SEE SHEET 4)
MATCHLINE (SEE BELOW)
MATCHLINE (SEE ABOVE)
PROPOSED DETENTION BASIN
POOL ELEV. 680.0
EX. OLD HENRY TRAIL
EXISTING OLD HENRY ROAD R/W VARIES
LAKE FOREST FAIRWAYS, L.L.C.
D/B/A/ LAKE FOREST LEGACY
D.B. 7604, PG. 203
CHARLES R. & BARBARA L. DOWNS
D.B. 5810, PG. 241
WILLIS H. TASSIE
D.B. 4894, PG. 578
THE RIDGE, L.L.C.
D.B. 8000, PG. 932
JOHN H. & KATHERINE HILLEBRAND
D.B. 5123, PG. 378
OLD HENRY ROAD SHOULDER REPAIR
LINE "B" STA. 7+00 TO 15+00
NO SCALE
NOTE:
ALL OTHER WORK IN RIGHT OF WAY WILL BE REGRADED TO MATCH EXISTING CONDITIONS AND PROVIDE POSITIVE DRAINAGE.
EPSC LEGEND
SILT FENCE
COFFERDAM
PROPOSED PUMP W/DISCHARGE
INSTALL CLASS II TYPE B EROSION CONTROL BLANKET W/TIDE STREAM BANK SEED MIX.
STONE BAG CHECK
BEGIN CONSTRUCTION
STA. 1+10.90 LINE "B" =
STA. 14+40.26 EX. LN."A"
P.I. ℄ EX. M.H. # 105,816
STA. 14+30.26 EX. LN."A"
RECORD NO. 14,515
P.I. ℄ M.H. # 107,144
W/ WATERTIGHT LID
P.I. ℄ M.H. # 107,145
W/ WATERTIGHT LID
2+20.90
P.I. ℄ M.H. # 107,146
3+47.20
P.I. ℄ M.H. # 107,147
4+83.80
P.I. ℄ M.H. # 107,148
STA. 4+96.23 (AHEAD) =
4+84.40 (BACK)
P.I. ℄ M.H. # 107,149
8+14.33
P.I. ℄ M.H. # 107,150
12+63.63
P.I. ℄ M.H. # 107,151
16+13.63
P.I. ℄ M.H. # 107,152
17+91.53
P.I. ℄ M.H. # 107,153
WITH WATERTIGHT FRAME AND LID
21+23.53
P.I. ℄ M.H. # 107,154
WITH WATERTIGHT FRAME AND LID
21+73.03
EX. OLD HENRY ROAD
SHLDR.
DITCH
PROPOSED R/W
EXISTING PAVEMENT
EXISTING DRIVEWAY
EXISTING CREEK
EX. GUARDRAIL
EXISTING PAVEMENT
EXISTING DRIVEWAY
EXISTING DRIVEWAY
EXISTING CREEK
EXISTING DRIVEWAY
EXISTING PAVEMENT







STATE OF KENTUCKY
DENNIS L. KRAUS
2613
LICENSED PROFESSIONAL LAND SURVEYOR
8/26/04

8/26/04
STATE OF KENTUCKY
JOSEPH S. MARSHALL
19,875
LICENSED PROFESSIONAL ENGINEER

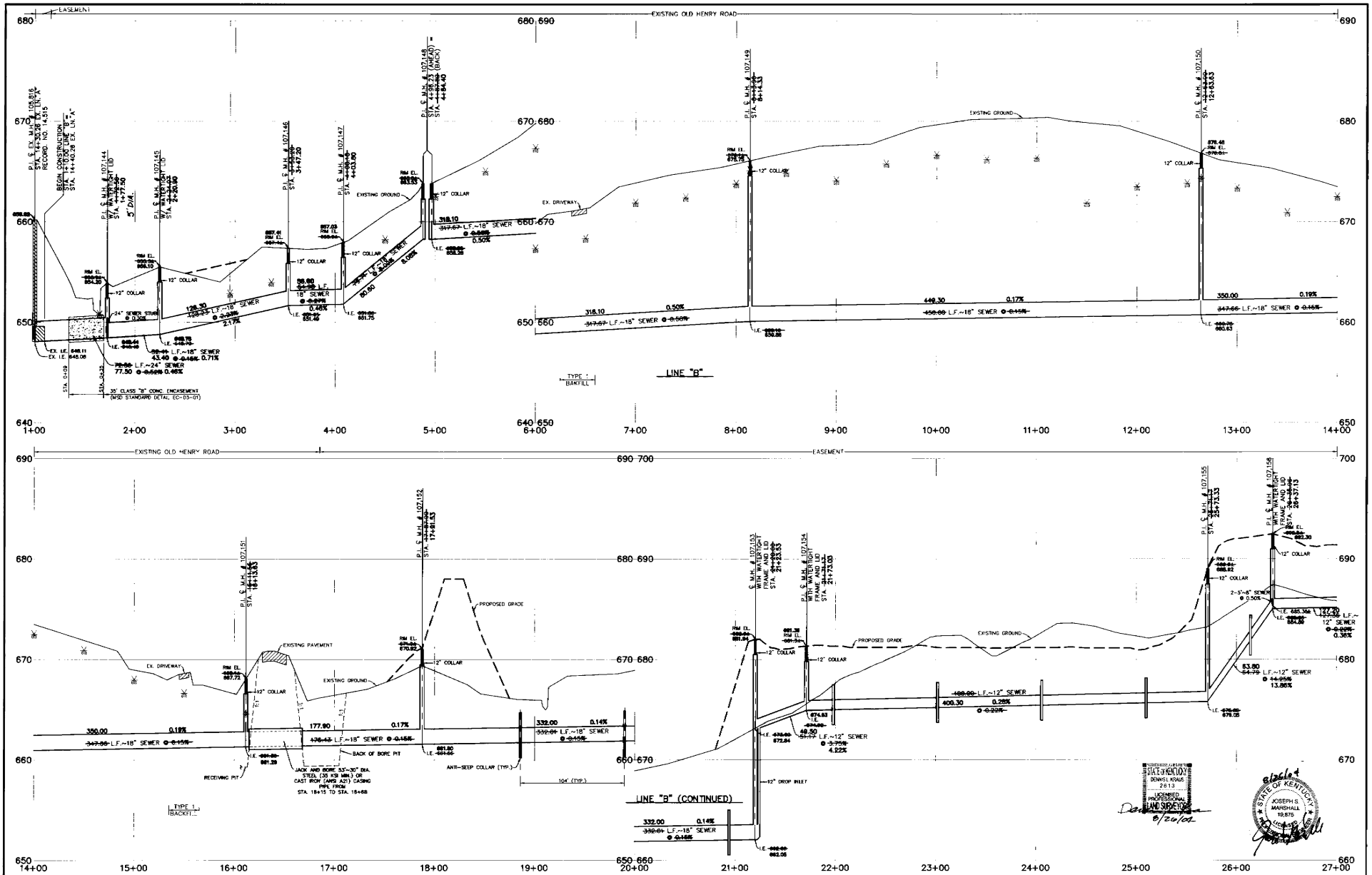
BUD
Before 'U' Dig
CALL TOLL FREE
1-800-752-6007
For Buried Line/Cable Locations

SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 5271

Scale:	1"=4' VERT. 1"=40' HOR.
Date:	1/17/03
Rev.	4/23/03
Rev.	5/22/03
Rev.	7/8/03

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PROFILE: LINE "A" AND LINE "A-1"
RECORD NO. 14,640

File: 1282-1
6
Sheets in Set: 12



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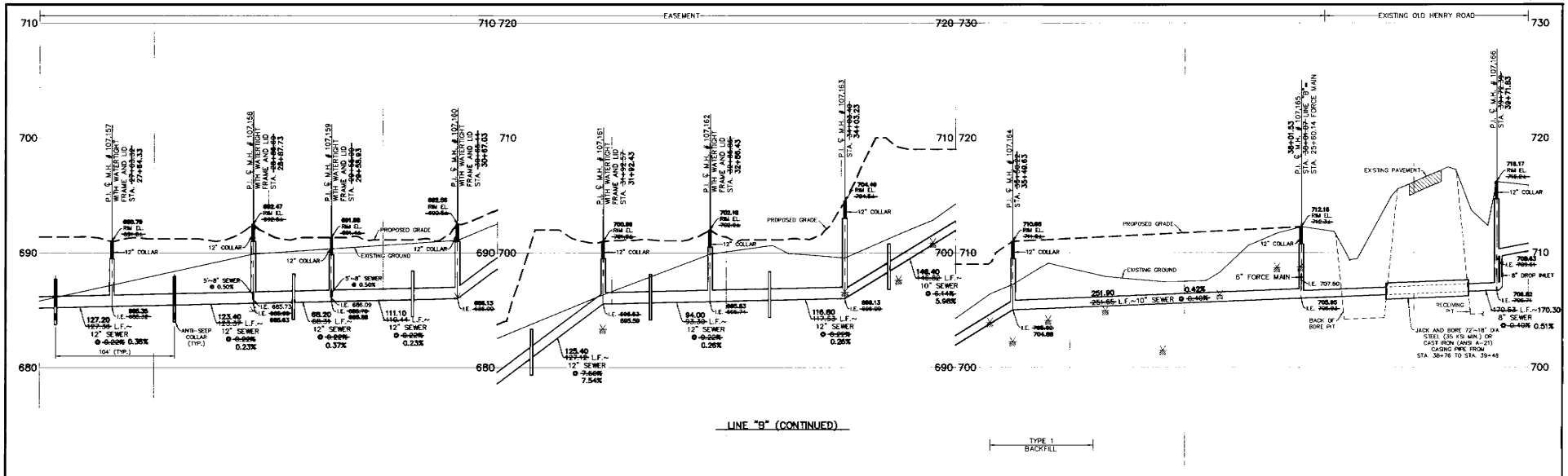
SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 6271

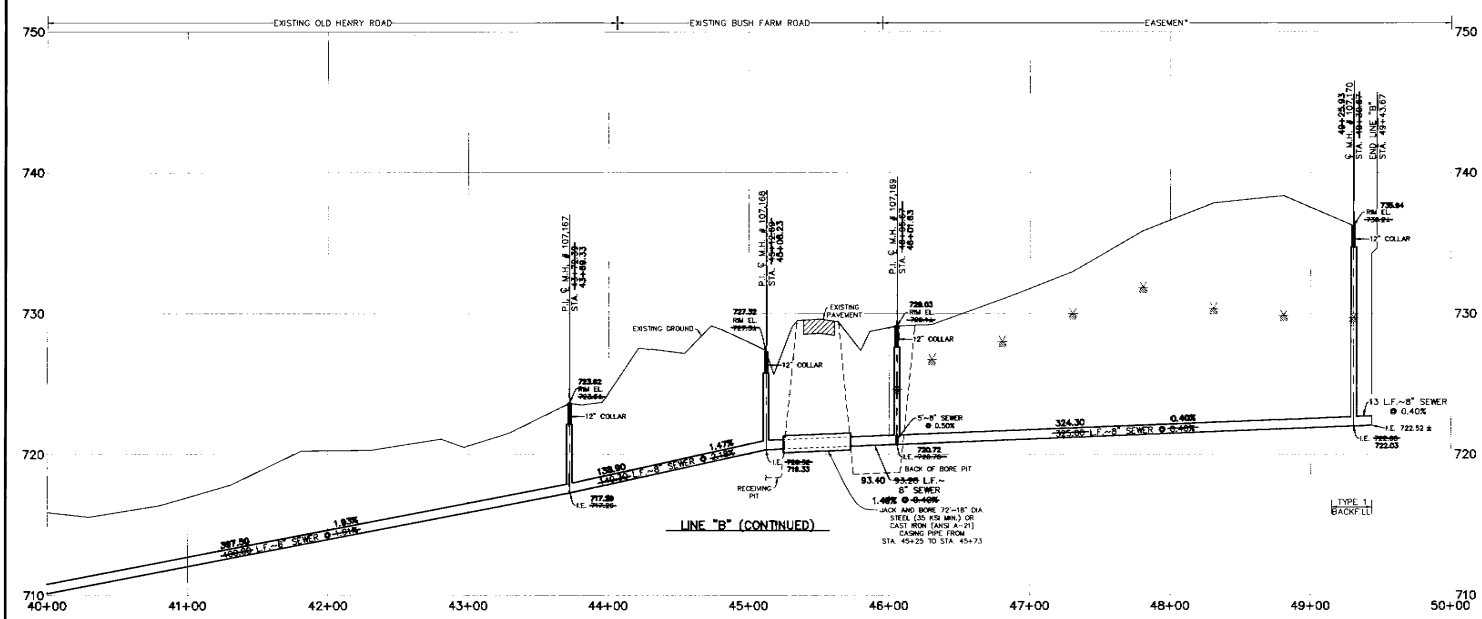
Scale:	1"=4' VERT. 1"=50' HOR.
Date:	1/17/03
Rev.	1/30/03
Rev.	2/03/03
Rev.	3/27/03
Rev.	7/8/03
Rev.	10/9/03

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PROFILE: LINE "B"
RECORD NO. 14,640

File: 1282-1
7
Sheets in Set: 12



LINE "B" (CONTINUED)



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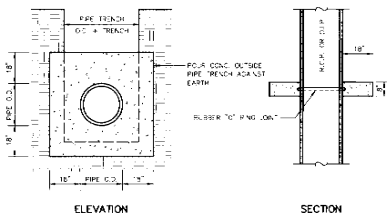
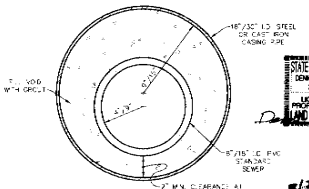


NOTE: PIPE SHALL BE BACKFILLED WITH APPROVED CLAY MATERIAL TO PREVENT SEEPAGE. BACKFILL SHALL BE COMPACTED MECHANICALLY IN 8 INCH LAYERS.

ANTI-SEEP COLLAR DETAIL

NO SCALE



JACK AND BORE DETAIL

NO SCALE

STATE OF KENTUCKY DENNIS KRAUS 2613 LICENSED PROFESSIONAL LAND SURVEYOR 8/26/04

STATE OF KENTUCKY JOSEPH S. MARSHALL 19,875 LICENSED PROFESSIONAL ENGINEER 8/26/04

BUD Before 'U' Dig CALL TOLL FREE 1-800-752-6007 For Buried Line/Cable Locations

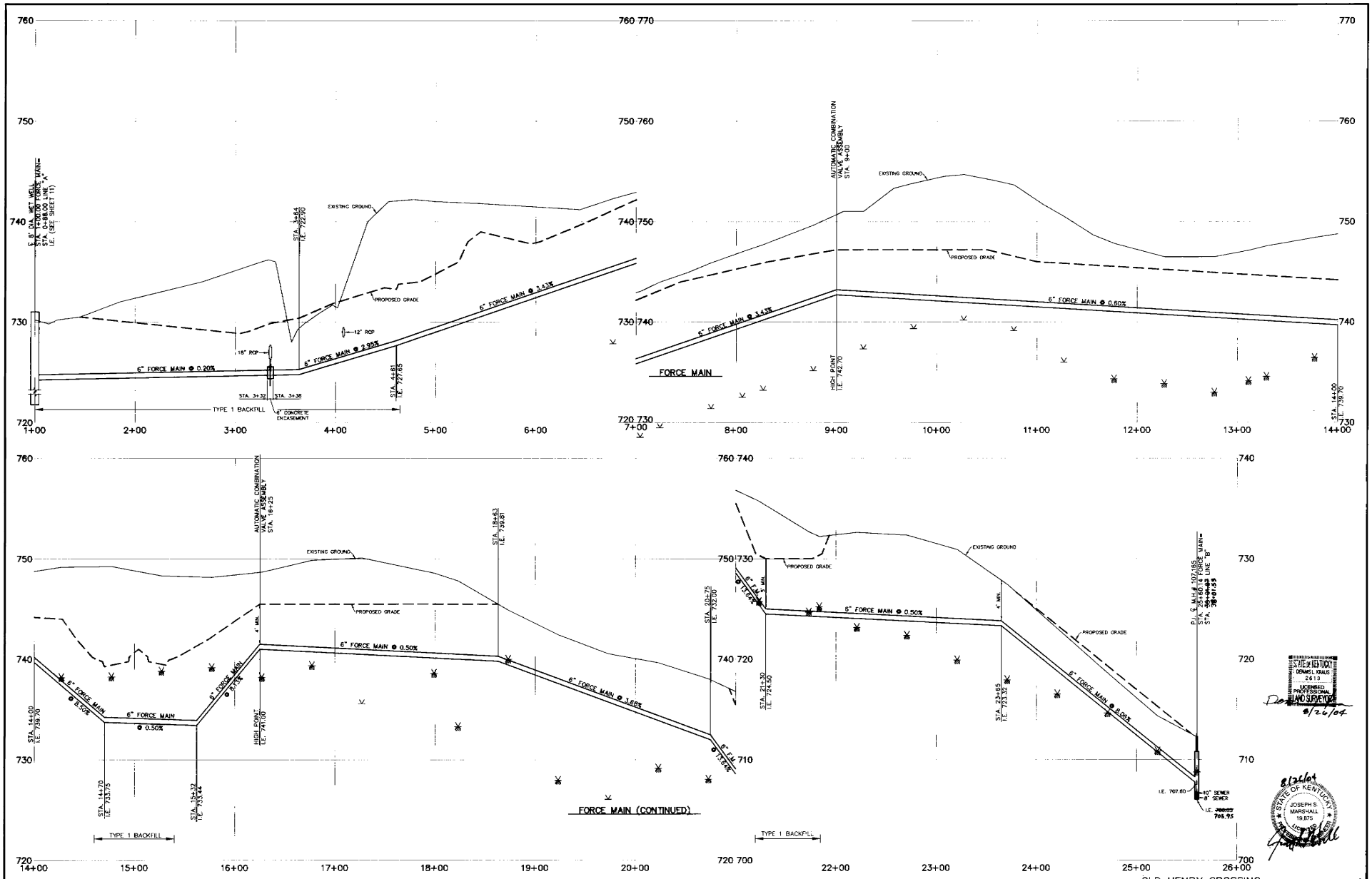
SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 8271

Scale:	1"=40' HORZ. 1"=10' VERT.
Date:	1/17/03
Rev.	4/23/03
Rev.	5/22/03
Rev.	7/8/03

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PROFILE: LINE "B" (CONTINUED)

RECORD NO. 14,640

File: 1262-1
8
Sheets in Set: 12



STATE OF KENTUCKY
DENNIS L. KRAUS
2613
LICENSED PROFESSIONAL LAND SURVEYOR
8/26/04

STATE OF KENTUCKY
JOSEPH S. MARSHALL
19,875
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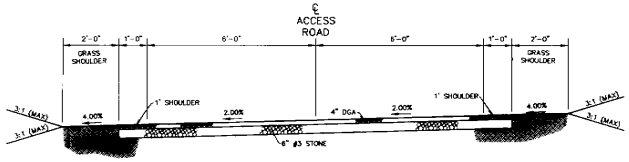
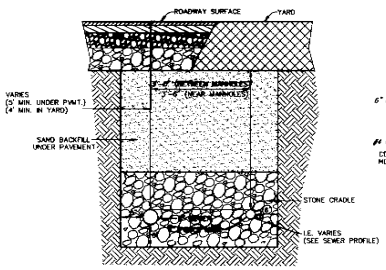
Scale:	1"=4' VERT. 1"=40' HOR.
Date:	1/27/03
Rev.	2/21/03
Rev.	3/28/03
Rev.	7/8/03

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PROFILE: FORCE MAIN
RECORD NO. 14,640

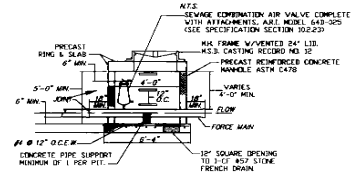
File: 1282-1
9
Sheets in Set: 12



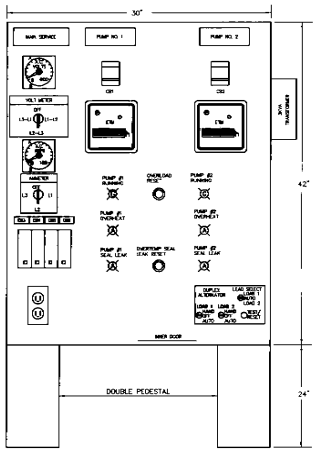
TEMPORARY ACCESS ROAD TYPICAL SECTION
SCALE: 1"=2'



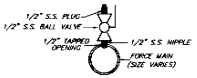
JOINT TRENCH DETAIL
NO SCALE



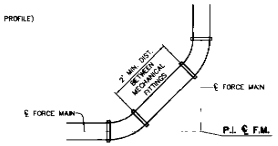
AIR RELEASE VALVE PIT
NO SCALE



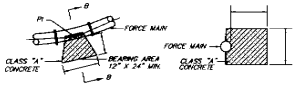
MAIN ENCLOSURE
CONTROL PANEL



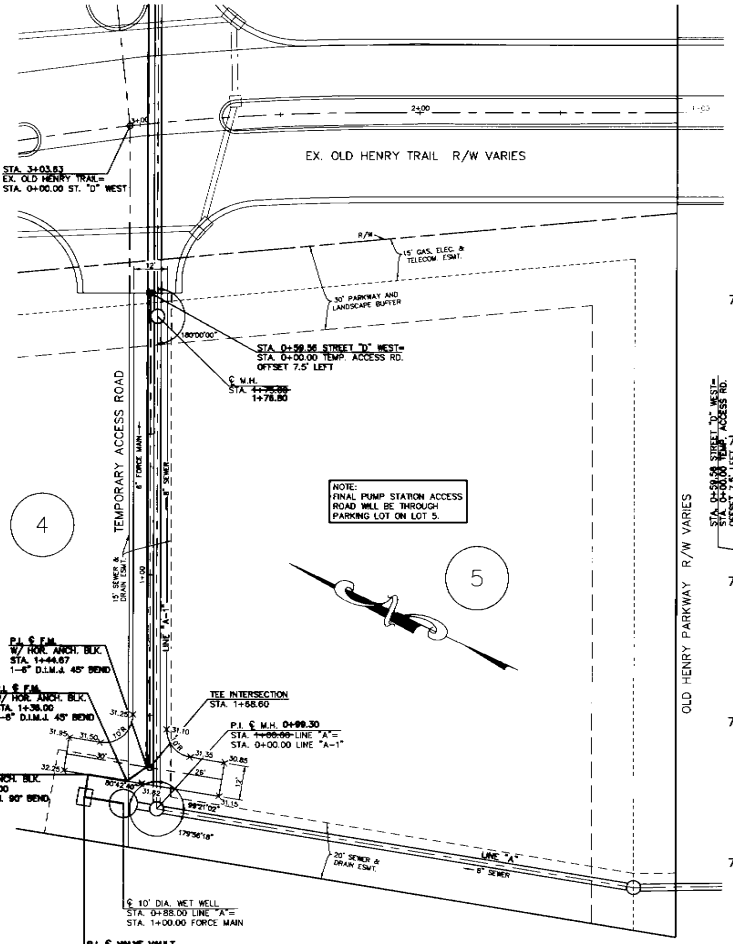
PRESSURE GUAGE TAP
NO SCALE
NOTE: A STANDARD IN-LINE TEE SHALL BE USED INSTEAD OF A TAP ON PIPE 4 INCHES AND SMALLER. USE BUSHINGS AND REDUCERS AS REQUIRED



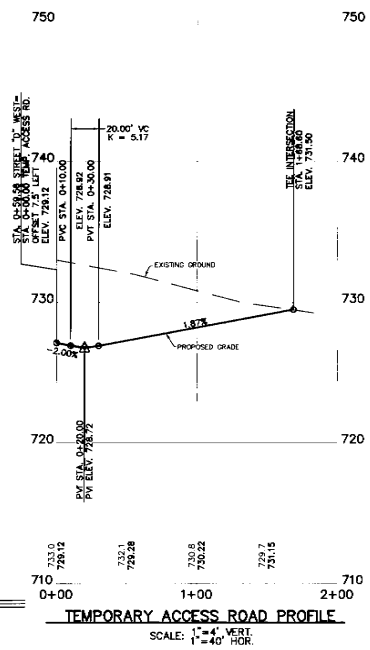
BACK TO BACK MECHANICAL BENDS
NO SCALE
(TYP. FOR 90° BENDS)



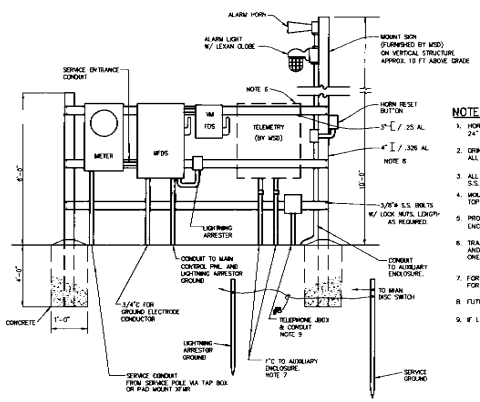
HORIZONTAL ANCHOR BLOCK
NO SCALE



TEMPORARY ACCESS ROAD PLAN
SCALE: 1"=20'



TEMPORARY ACCESS ROAD PROFILE
SCALE: 1"=4' VERT. 1"=40' HOR.



SERVICE SWITCH RACK ARRANGEMENT
NO SCALE

NOTES

1. HORIZONTAL RUN OF CONDUIT UNDERGROUND SHALL HAVE A MINIMUM OF 24" COVER.
2. GRIND SMOOTH THE CUT EDGES OF THE ALUMINUM STRUCTURAL MEMBERS. ALL MOUNTING HARDWARE SHALL BE ALUMINUM OR STAINLESS STEEL.
3. ALL EQUIPMENT TO BE BOLTED TO RACK WITH 1/4" DIA. S.S. BOLTS WITH S.S. LOCK WASHERS. DAMAGE THREADS SO NUTS CANNOT BE REMOVED.
4. MOUNT SERVICE RACK NEAR SERVICE POLE. INSTALL WEATHERHEAD NEAR TOP OF SERVICE POLE.
5. PROVIDE SPACE ON RACK FOR MOUNTING TELEMETRY ENCLOSURE BY MSD. ENCLOSURE DIMENSIONS ARE 24"Wx36"Hx10"D.
6. TRANSITION FROM BELOW GRADE PVC TO ALUMINUM ABOVE GRADE. STUB AND CAP ABOVE GRADE. STRAP TO BOTTOM HORIZONTAL MEMBER OF RACK. ONE CONDUIT FOR 120 VAC SIGNALS, ONE FOR INTRINSICALLY SAFE CIRCUITS.
7. FOR OVERHEAD ELECTRICAL SERVICE, A SERVICE POLE MAY BE SUBSTITUTED FOR THE ALUMINUM I-BEAM.
8. FUTURE CONNECTION TO INCOMING TELEPHONE SERVICE BY MSD.
9. IF LG & E CAN PROVIDE A TAP BOX, A POLE WILL NOT BE REQUIRED.

STATE OF KENTUCKY
BERNEIL KRAUS
2813
LICENSED PROFESSIONAL LAND SURVEYOR
8/26/04

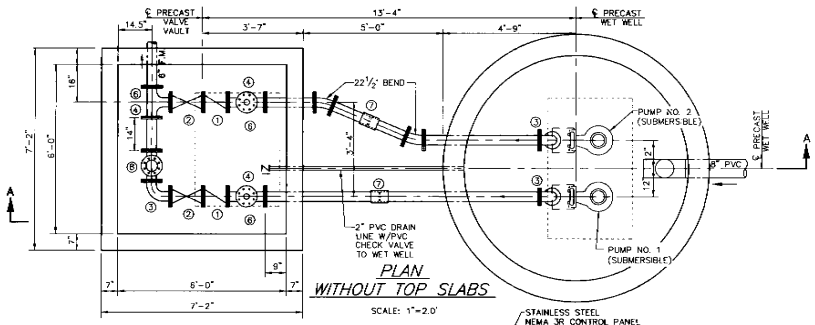
STATE OF KENTUCKY
MICHAEL J. MEYER
9-26-04

SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 8271

Scale: N/A
Date: 1/17/03

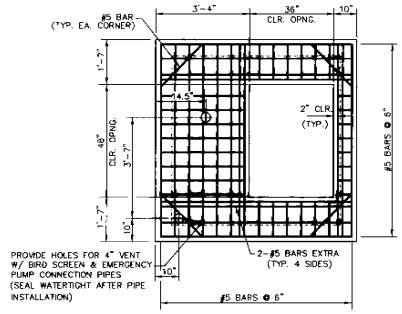
OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PUMP STATION AND FORCE MAIN
ACCESS ROAD PLAN, DETAILS, AND ELECTRIC ELEVATION
RECORD NO. 14,640

File: 1262-1
10
Sheets in Set: 12



PLAN WITHOUT TOP SLABS

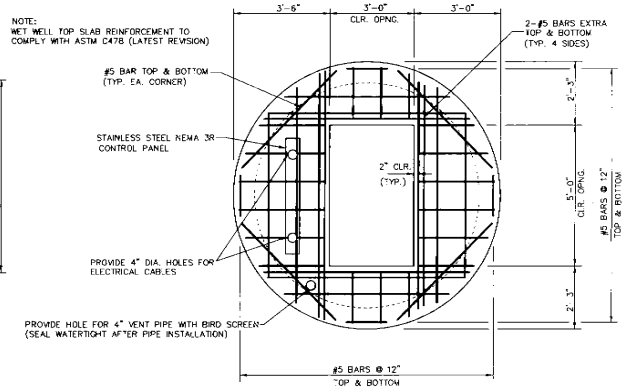
SCALE: 1"=2.0'



VALVE VAULT TOP SLAB REINFORCING

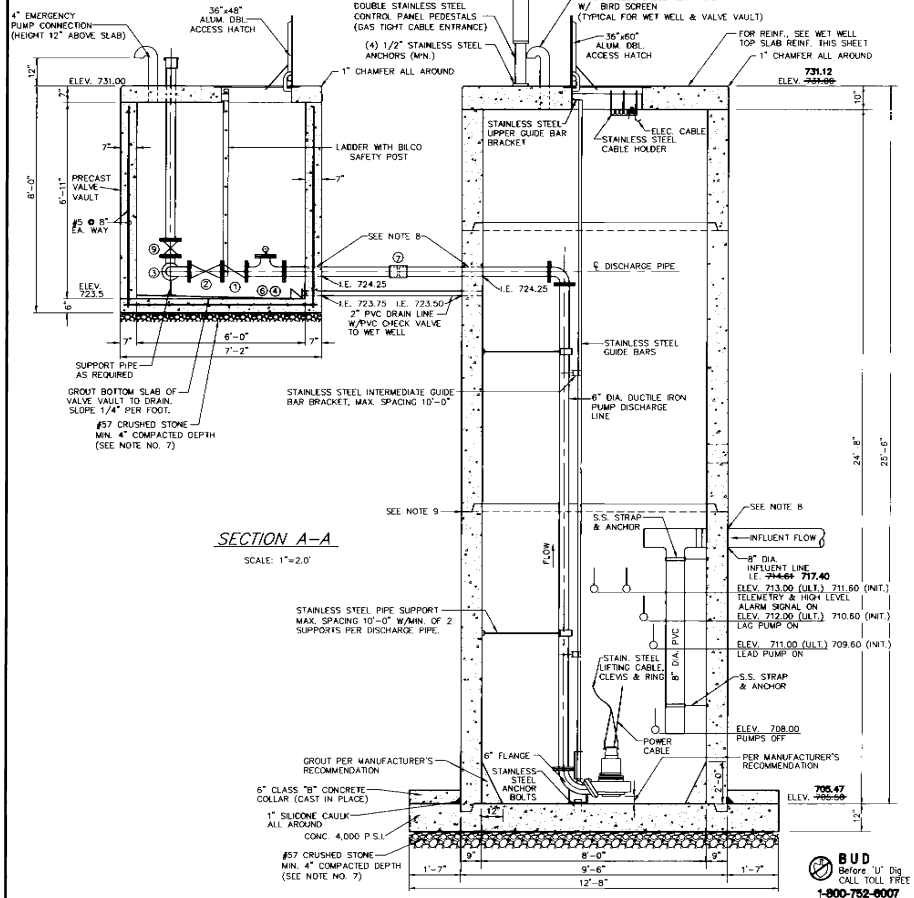
SCALE: 1"=2.0'

NOTE:
WET WELL TOP SLAB REINFORCEMENT TO COMPLY WITH ASTM C478 (LATEST REVISION)



WET WELL TOP SLAB REINFORCING

SCALE: 1"=2.0'



SECTION A-A

SCALE: 1"=2.0'

GENERAL NOTES

1. ALL CONCRETE SHALL HAVE COMPRESSIVE STRENGTH FC = 4,000 PSI (28 DAY STRENGTH) EXCEPT AS NOTED.
2. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. 615-80, GRADE 60.
3. MINIMUM CLEAR COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
4. DIMENSIONS FROM FACE OF CONCRETE TO REINFORCING BARS ARE CLEAR DISTANCES.
5. DIMENSIONS FOR BAR SPACING ARE CENTER TO CENTER.
6. ALL LAPS SHALL BE 30 BAR DIAMETERS UNLESS OTHERWISE NOTED.
7. FOR #57 CRUSHED STONE BEDDING MATERIAL SEE KENTUCKY DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, LATEST EDITION.
8. THROUGH WALL CONNECTIONS SHALL BE MADE WITH PRESS-SEAL OR KOR-N-SEAL GASKETS WITH STAINLESS STEEL STRAPS TO PERMIT LIMITED DIFFERENTIAL SETTLEMENT.
9. ALL WET WELL JOINTS SHALL BE WATERTIGHT.
10. ALL BOLTS SHALL BE STAINLESS STEEL TYPE 304L WITH STAINLESS STEEL HARDWARE.
11. ALL TAPS INTO FITTINGS SHALL BE MADE INTO A BOSS.
12. VALVE VAULT SHALL BE LOCATED FIVE (5) FEET FROM THE WET WELL. IF VALVE VAULT IS PLACED ON EXCAVATED MATERIALS, BACKFILL SHALL BE COMPACTED IN 8" LOOSE LIFTS TO 95% STANDARD PROCTOR DENSITY.
13. BACKFILL SHALL BE DONE IN ACCORDANCE WITH MSD'S STANDARD SPECIFICATION 3.3.6.2.

NOTES

THE ACTUAL CLEAR OPENING OF THE WET WELL ACCESS HATCH FRAME SHALL PROVIDE A MINIMUM OF 3 1/2 INCHES CLEARANCE BEHIND THE PUMP OPPOSITE THE DISCHARGE AND A MINIMUM OF 2 1/2 INCHES CLEARANCE ON THE SIDE OF THE PUMP.

EQUIPMENT REFERENCE

1. 6" SWING CHECK VALVE WITH LEVER AND WEIGHT LOCATED INWARD
2. 6" GATE VALVE (RESILIENT SEAT, RISING STEM)
3. 6" 90° ELBOW
4. 6" TEE
5. 2" SEWAGE COMBINATION AIR VALVE COMPLETE W/ATTACHMENTS, A.R.I. MODEL 640-025 (SEE SPECIFICATION SECTION 10.2.23)
6. SEE PRESSURE GAUGE TAP DETAIL (MIN. 6" CLEARANCE BETWEEN TAP AND EDGE OF WALL)
7. 6" COATED MECHANICAL COUPLING (DRESSER STYLE 38 OR 138 OR APPROVED EQUAL)
8. 4"x6" TEE (FOR EMERGENCY PUMP CONNECTION. SIZE EQUIVALENT TO DISCHARGE PIPE.)
9. 4" GATE VALVE (RESILIENT SEAT, RISING STEM FOR EMERGENCY PUMP CONNECTION. SIZE EQUIVALENT TO DISCHARGE PIPE.)
10. 4" STAINLESS STEEL CAM-LOCKING ADAPTER WITH STAINLESS STEEL LOCKING DUST CAP (SEE SPECIFICATION SECTION 10.2.21)

INITIAL PUMP STATION DESIGN DATA

AVG. DAILY SEWAGE FLOW: 143.3 EQUIV. LOTS x 400 G.P.D.	= 57,322 G.P.D.
AVG. FLOW: 57,322 G.P.D./1,440	= 39.8 G.P.M.
PEAK DESIGN FLOW: 3.94 P.F. x 39.8 G.P.M. (BASED ON POPULATION)	= 157.0 G.P.M.
MIN. PUMPING RATE PER PUMP: 3.2 F.P.S. x 0.202 S.F. x 448.8 G.P.M. (BASED ON FORCE MAIN SCOUR VELOCITY)	= 290.1 G.P.M.
STORAGE CAPACITY: 3.75 MIN. x 157.0 G.P.M.	= 588.6 GALLONS
TWO HRS. EMERGENCY STORAGE: 120 MIN. x 39.8 G.P.M.	= 4,776 GALLONS
STATIC HEAD	= 33 FEET
FORCE MAIN SIZE: 6" ; MATERIAL: PVC (C=120)	
DYNAMIC HEADLOSS @ 18" 2 G.P.M. (PUMPING RATE)	= 6.3 FEET
TOTAL DYNAMIC HEAD (T.D.H.)	= 39.3 FEET

ULTIMATE PUMP STATION DESIGN DATA

AVG. DAILY SEWAGE FLOW: 279.3 EQUIV. LOTS x 400 G.P.D.	= 111,722 G.P.D.
AVG. FLOW: 111,722 G.P.D./1,440	= 77.6 G.P.M.
PEAK DESIGN FLOW: 3.77 P.F. x 77.6 G.P.M. (BASED ON POPULATION)	= 292.5 G.P.M.
MIN. PUMPING RATE PER PUMP: 3.2 F.P.S. x 0.202 S.F. x 448.8 G.P.M. (BASED ON FORCE MAIN SCOUR VELOCITY)	= 290.1 G.P.M.
STORAGE CAPACITY: 3.75 MIN. x 292.5 G.P.M.	= 1,096.9 GALLONS
TWO HRS. EMERGENCY STORAGE: 120 MIN. x 77.6 G.P.M.	= 9,312 GALLONS
STATIC HEAD	= 33 FEET
FORCE MAIN SIZE: 6" ; MATERIAL: PVC (C=120)	
DYNAMIC HEADLOSS @ 29 G.P.M. (PUMPING RATE)	= 15.3 FEET
TOTAL DYNAMIC HEAD (T.D.H.)	= 48.3 FEET

PUMP STATION EQUIPMENT DATA

- TWO (2) 10.0 HP (MIN.) PUMPS
- CAPACITY (OPERATING POINT): 292.4 G.P.M. @ 48.3' T.D.H.
- PUMP TYPE & MANUFACTURER: MYERS 4VHX100M4-43
- DISCHARGE SIZE: 6" (INCREASE FROM 4")
- PUMP CONTROL: AUTOMATIC
- SOLIDS PASSING SIZE: 3"
- FORCE MAIN PRESSURE RATING & TYPE: 160 PSI, SDR26
- CYCLE TIME: 19.8 MIN.
- ODOR CONTROL: N/A
- IMPELLER: 7.875 INCHES

EMERGENCY STORAGE

- EMERGENCY STORAGE CONTROL ELEVATION = 726.0

STATE OF KENTUCKY
DENNIS L. KRAUS
2613
LICENSED PROFESSIONAL LAND SURVEYOR
9/26/04

STATE OF KENTUCKY
MICHAEL J. MEYER
13,184
9-28-04

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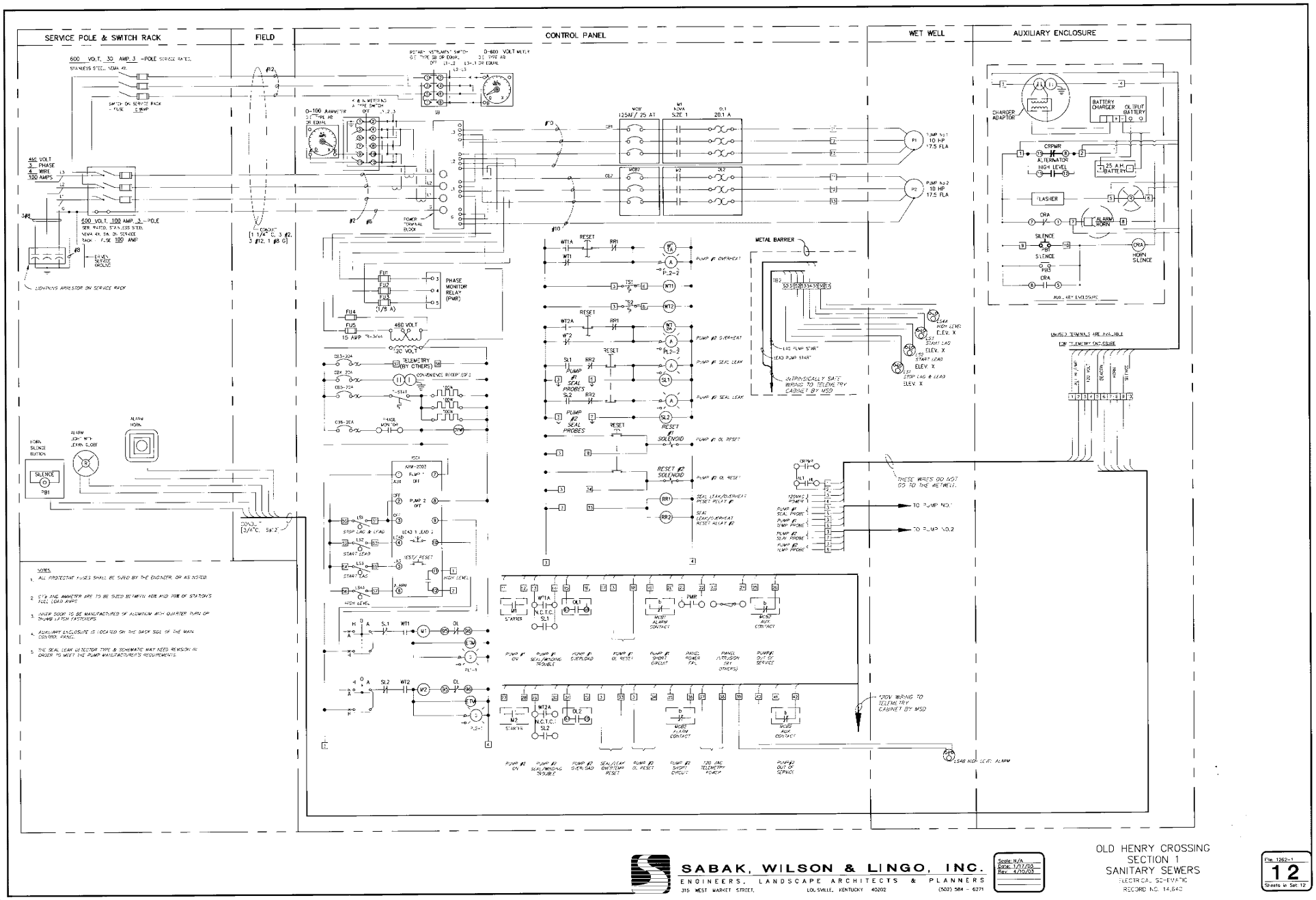
For Buried Line/Cable Locations

SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 5271

Scale: 1"=2'
Date: 1/17/03
Rev. 4/10/03
Rev. 7/8/03
Rev. 10/8/03

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
PUMP STATION AND FORCE MAIN
WET WELL AND VALVE VAULT PLAN AND SECTION VIEWS
RECORD NO. 14,640

File: 1262-1
11
Sheets in Set: 12



NOTES:

1. ALL PROTECTIVE FUSES SHALL BE SIZED BY THE ENGINEER, OR AS NOTED.
2. CT'S AND AMMETER ARE TO BE SIZED BETWEEN 40% AND 70% OF STATION'S FULL LOAD AMPS.
3. INNER DOOR TO BE MANUFACTURED OF ALUMINUM WITH QUARTER TURN OR THUMB LATCH FASTENERS.
4. AUXILIARY ENCLOSURE IS LOCATED ON THE BACK SIDE OF THE MAIN CONTROL PANEL.
5. THE SEAL LEAK DETECTOR TYPE & SCHEMATIC MAY NEED REVISION IN ORDER TO MEET THE PUMP MANUFACTURER'S REQUIREMENTS.

SABAK, WILSON & LINGO, INC.
ENGINEERS, LANDSCAPE ARCHITECTS & PLANNERS
315 WEST MARKET STREET, LOUISVILLE, KENTUCKY 40202 (502) 584 - 6271

Scale: N/A
Date: 1/17/03
Rev: 4/10/03

OLD HENRY CROSSING
SECTION 1
SANITARY SEWERS
ELECTRICAL SCHEMATIC
RECORD NO. 14,640

File: 1262-1
12
Sheets in Set: 12

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EROSION PREVENTION AND SEDIMENT CONTROL NOTE:

THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND– DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EPSC PLAN MUST BE REVIEWED AND APPROVED BY MSD'S PRIVATE DEVELOPMENT REVIEW OFFICE. EPSC BMP'S (BEST MANAGEMENT PRACTICES) SHALL BE INSTALLED PER THE PLAN AND MSD STANDARDS.

DETENTION BASINS, IF APPLICABLE, SHALL BE CONSTRUCTED FIRST AND SHALL PERFORM AS SEDIMENT BASINS DURING CONSTRUCTION UNTIL THE CONTRIBUTING DRAINAGE AREAS ARE SEEDED AND STABILIZED.

ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

ALL STREAM CROSSINGS MUST UTILIZE LOW–WATER CROSSING STRUCTURES PER MSD STANDARD DRAWING ER–02.

SEDIMENT–LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.

WHERE CONSTRUCTION OR LAND DISTURBING ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 DAYS AFTER THE ACTIVITY HAS CEASED.

UTILITY NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "B.U.D." (TOLL FREE PHONE NO. 1–800–752–6007) FORTY EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS, AND WATERLINES). WHEN CONTACTING THE "B.U.D." CALL CENTER, PLEASE STATE THAT THE WORK TO BE DONE IS FOR A PROPOSED MSD SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS IN THE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL UTILITY RELOCATIONS & ADJUSTMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER.

THE FINAL RECORD INFORMATION ON THIS DRAWING WAS PROVIDED BY THE PROFESSIONAL LAND SURVEYOR________ON ________.
THE PROPERTY SERVICE CONNECTION INFORMATION WAS COLLECTED BY THE GENERAL CONTRACTOR________
WITH NO FIELD VERIFICATION BY THE PROFESSIONAL LAND SURVEYOR.
THE FINAL RECORD DATA AND PROPERTY SERVICE CONNECTION INFORMATION HAS BEEN ACCEPTED BY MSD INSPECTOR________ON________

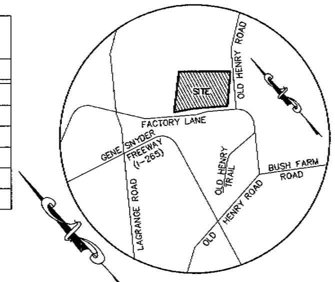
FOR THE PURPOSE OF SUPPLYING RECORD DRAWING INFORMATION, SHEETS ________OF ORIGINAL DRAWINGS REPLACES THE APPROVED SHEETS ________OF CONSTRUCTION DRAWINGS. DRAWINGS HAD BEEN DESIGN APPROVED BY________ON________AND APPROVED FOR CONSTRUCTION BY________ON________.
THE ORIGINAL DRAWINGS HAVE BEEN ARCHIVED.

INDEX

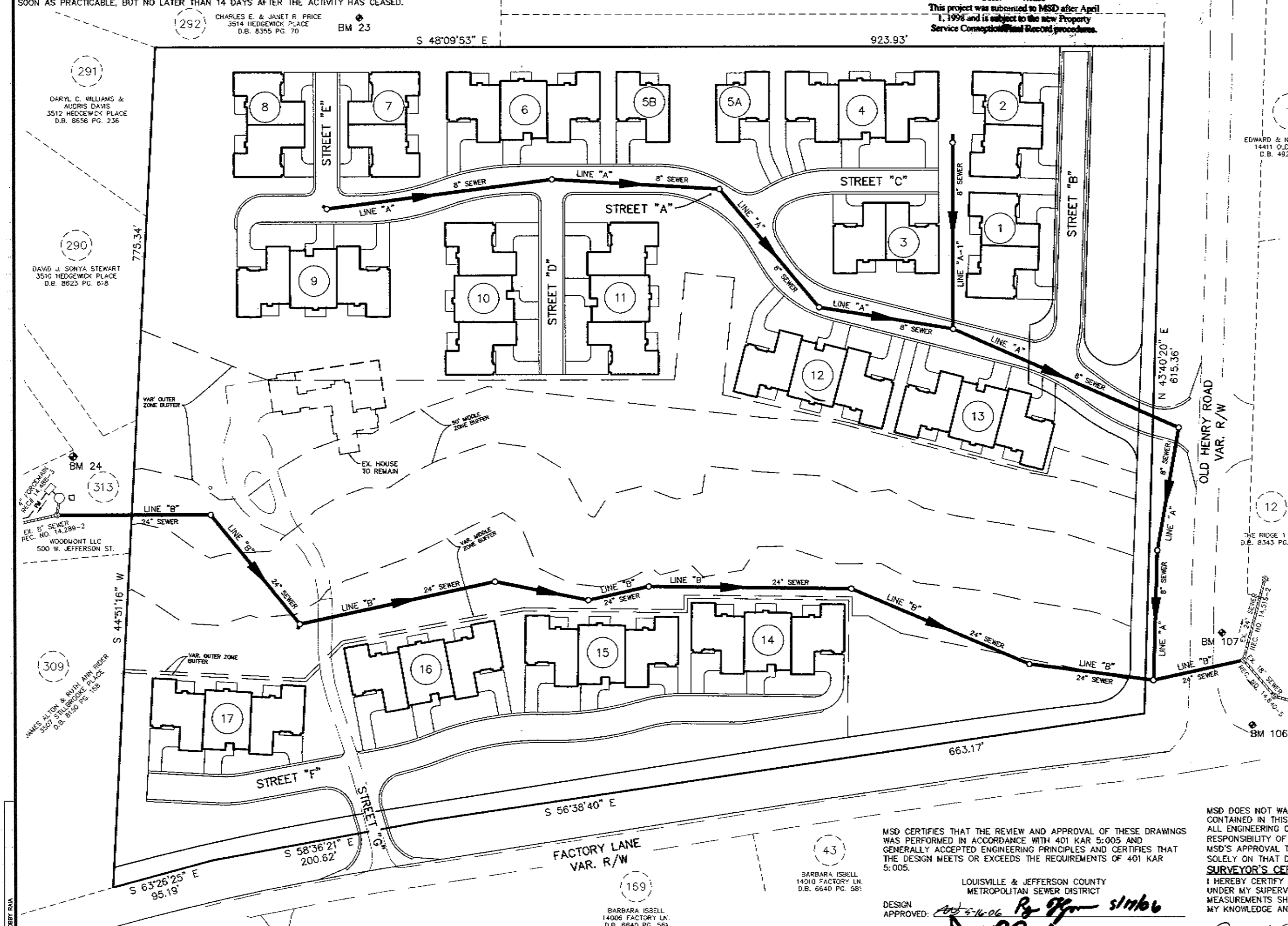
SHT. NO.	DESCRIPTION
1	COVER SHEET
2	SANITARY SEWER PLAN; LINE "A, "A–1" & "B"
3	SANITARY SEWER PROFILES; LINE "A" & "A–1"
4	SANITARY SEWER PROFILE; LINE "B"
5	STANDARD DETAILS & P.S.C INLET CHART
6	SERVICE AREA MAP

MSD

Approved Final Record Drawings Required Prior [illegible] Release
This project was submitted to MSD after April 1, 1998 and is subject to the new Property Service Connection/Final Record procedures.



LOCATION MAP
NO SCALE



LEGEND

- PROPOSED MANHOLE & SANITARY SEWER
- EXISTING MANHOLE & SANITARY SEWER
- DROP INLET
- DENOTES 6" PROPERTY SERVICE CONNECTION (SEE NOTES)
- DENOTES 6" PROPERTY SERVICE CONNECTION W/ STACK (SEE NOTE 5)
- DENOTES 6" "Y" BRANCH W/STOPPER FOR FUTURE PROPERTY SERVICE CONNECTION
- DENOTES 6" SIAMESE CONNECTION
- DENOTES 6" PROPERTY SERVICE CONNECTION TO BE CONSTRUCTED (SEE NOTE 6)
- INDICATES SOUNDINGS – ROCK
- INDICATES SOUNDINGS – NO ROCK
- BENCH MARK
- EX. 0" EXISTING STORM SEWER (W/SIZE) & CATCH BASIN
- G EXISTING GAS MAIN (W/SIZE)
- W EXISTING WATER MAIN (W/SIZE)
- 0" PROPOSED STORM SEWER (W/SIZE) & CATCH BASIN
- G PROPOSED GAS MAIN (W/SIZE)
- W PROPOSED WATER MAIN (W/SIZE)

NOTES

1 – SEWAGE FROM THIS DEVELOPMENT SHALL BE TREATED AT THE FLOYD'S FORK SEWAGE TREATMENT PLANT.
2 – ALL PIPE TO BE P.V.C. D–3034, OR P.V.C. CORRUGATED PIPE, ASTM F–949. CONSTRUCT
3 – PROPERTY SERVICE CONNECTIONS TO EDGE OF EASEMENT OR 15' BEYOND RIGHT–OF–WAY AS DIRECTED.
4 – PROPERTY SERVICE CONNECTIONS ARE TO BE 1.00% SLOPE UNLESS OTHERWISE NOTED.
5 – PROPERTY SERVICE CONNECTION TO BE CONSTRUCTED FROM STACK AT SEWER TO PROPERTY OR EASEMENT LINE AS DIRECTED. ALL STACKS TO BE CONSTRUCTED TO A POINT 12 FEET BELOW THE GROUND SURFACE UNLESS OTHERWISE DIRECTED. PROPERTY SERVICE CONNECTION IS NOT AVAILABLE FOR CONNECTION UNTIL RECORD PLAT FOR THE LOTS SERVED IS RECORDED AND THE CAPACITY CHARGE FEES APPLICABLE AT THAT TIME ARE PAID.
6 – ROCK TO BE SHATTERED TO 6' BEYOND END OF P.S.C. ROCK SOUNDING LOCATIONS ARE AS FOLLOWS:
7 – ROCK SOUNDINGS IN EASEMENT ARE AT CENTERLINE OF SEWER.
8 – ROCK SOUNDINGS IN ROADWAY ARE AT CENTERLINE OF R.O.W.
9 – VERTICAL DATUM CORRESPONDS TO NAVD 88 DATUM
10 – JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT STANDARD SPECIFICATIONS ARE TO APPLY.
11 – PROPERTY CORNERS WILL BE SET WHEN RECORD PLAT IS RECORDED UNLESS OTHERWISE NOTED.
12 – EPSC PLAN WILL BE SUBMITTED WITH STORM CONSTRUCTION PLANS.
13 – MSD SHALL INSPECT ALL SANITARY SEWER CONSTRUCTION.
14 – ALL MANHOLES MUST INCLUDE CHIMNEY SEALS. THE MANHOLE CHIMNEY SECTION SHALL BE SEALED AND MADE WATERTIGHT USING EITHER A MECHANICALLY LOCKING INTERNAL BUTYL RUBBER CHIMNEY SEAL OF A CHEMICALLY BONDING CHIMNEY SEAL AS IDENTIFIED ON THE PLANS. INSTALLATION OF THE CHIMNEY SEAL SHALL BE PERFORMED BY MANUFACTURER CERTIFIED PERSONNEL. THE CHIMNEY–SEALING PRODUCT SHALL BE ON THE MSD PRE–APPROVED PRODUCT LIST AND THE PRODUCT USED SHALL BE IDENTIFIED ON AS–BUILT DRAWINGS.
15 – A REQUEST FOR SANITARY SEWER CAPACITY WILL BE SUBMITTED AND APPROVED BY METROPOLITAN SEWER DISTRICT.
16 – CONTRACTOR SHOULD VERIFY EXISTING ELEVATIONS BEFORE CONSTRUCTION AND NOTIFY ENGINEER WITH ANY DISCREPENCIES.
17 – PUMP–AROUND FLOW DIVERSION TO BE USED WHEN CROSSING ANY BLUE LINE STREAM.

BACKFILL

TYPE 1 – SAND; FLUSHED AND JETTED.
TYPE 2 – EXCAVATED MATERIALS; FLUSHED AND JETTED.
(USE TYPE 2 BACKFILL UNLESS OTHERWISE NOTED)

BENCHMARKS (NAVD 88 DATUM)

SOURCE BENCHMARK GPS–#47–AZ NAVD 88 ELEV.= 744.84'
DISK SET IN CONCRETE 57' NORTH OF THE EDGE OF THE SHOULDER OF THE GENE SNYDER FREEWAY. STATION IS 0.8 MILES SOUTHEAST OF THE GENE SNYDER FREEWAY / LAGRANGE ROAD INTERCHANGE. STATION IS ADJACENT TO THE NORTHERN EDGE OF THE GREEN OF HOLE # 3 OF A PAR THREE GOLF COURSE.

BM 23 NAVD88 ELEV.=691.80'
RAILROAD SPIKE IN A 12" TREE, 27 FEET NORTH OF THE SUBJECT PROPERTY LINE, APPROXIMATELY 790 FEET WEST OF THE CENTERLINE OF OLD HENRY ROAD.

BM #24 NAVD88 ELEV.=670.38'
CHISELED SQUARE CUT ON THE SOUTHWEST CORNER OF A SIDEWALK NEAR A PUMP STATION. APPROXIMATELY 441 FEET NORTH OF THE CENTERLINE OF FACTORY LANE.

BM #106 NAVD88 ELEV.=657.61'
SQUARE CUT ON CONCRETE HEADWALL CONTAINING 18" PIPE, APPROXIMATELY 45' NORTHEAST OF THE INTERSECTION OF FACTORY LANE AND OLD HENRY ROAD

BM #107 NAVD88 ELEV.=660.03'
SQUARE CUT ON CONCRETE HEADWALL ON EAST SIDE OF 5' X 10' BOX CULVERT, LOCATED APPROXIMATELY 110' NORTHEAST OF THE INTERSECTION OF FACTORY LANE AND OLD HENRY ROAD.

MSD CERTIFIES THAT THE REVIEW AND APPROVAL OF THESE DRAWINGS WAS PERFORMED IN ACCORDANCE WITH 401 KAR 5:005 AND GENERALLY ACCEPTED ENGINEERING PRINCIPLES AND CERTIFIES THAT THE DESIGN MEETS OR EXCEEDS THE REQUIREMENTS OF 401 KAR 5:005.

LOUISVILLE & JEFFERSON COUNTY
METROPOLITAN SEWER DISTRICT

DESIGN APPROVED: [signature] 5-16-06 [signature] 5/17/06
APPROVED FOR CONSTRUCTION: [signature] 05.17.06
DIRECTOR OF ENGINEERING DATE

GRAPHIC SCALE 1"=50'
0 25 50 100

MSD DOES NOT WARRANT THE DESIGN OR COMPUTATIONS CONTAINED IN THIS PLAN. THE CORRECTNESS OR ACCURACY OF ALL ENGINEERING COMPUTATIONS REMAIN THE SOLE RESPONSIBILITY OF THE APPLICANT'S DESIGN PROFESSIONAL. MSD'S APPROVAL TO PROCEED WITH CONSTRUCTION IS BASED SOLELY ON THAT DESIGN PROFESSIONAL'S SEAL AND SIGNATURE.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE SURVEY FOR THIS PLAN WAS MADE UNDER MY SUPERVISION AND THE BEARINGS AND DISTANCE MEASUREMENTS SHOWN HEREON ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[signature] 5/2/06
TRAVIS K. BENTLEY, PLS NO. 3,697 DATE

RECORD NO. 15,197

B.U.D. BEFORE "U" DIG — FOR BURIED LINES & CABLE LOCATIONS — CALL TOLL FREE 1–800–752–6007

Mindel, Scott & Associates, Inc.
Planning · Engineering · Surveying · Landscape Architecture
Utility Consulting · Property Management
4545 Bishop Lane, Suite 200, Louisville, KY 40218
Phone: (502) 485-1508 · Fax: (502) 485-1606 · EMail: msa@mindelscott.com

OWNER/DEVELOPER
LV CAPITAL, LLC
239 S. FIFTH STREET
SUITE 1700
LOUISVILLE, KY. 40202
(502) 569–7527

SANITARY SEWER PLANS
OLD HENRY PLACE
COVER SHEET

Revisions: 03/16/06 REVISED PER MSD

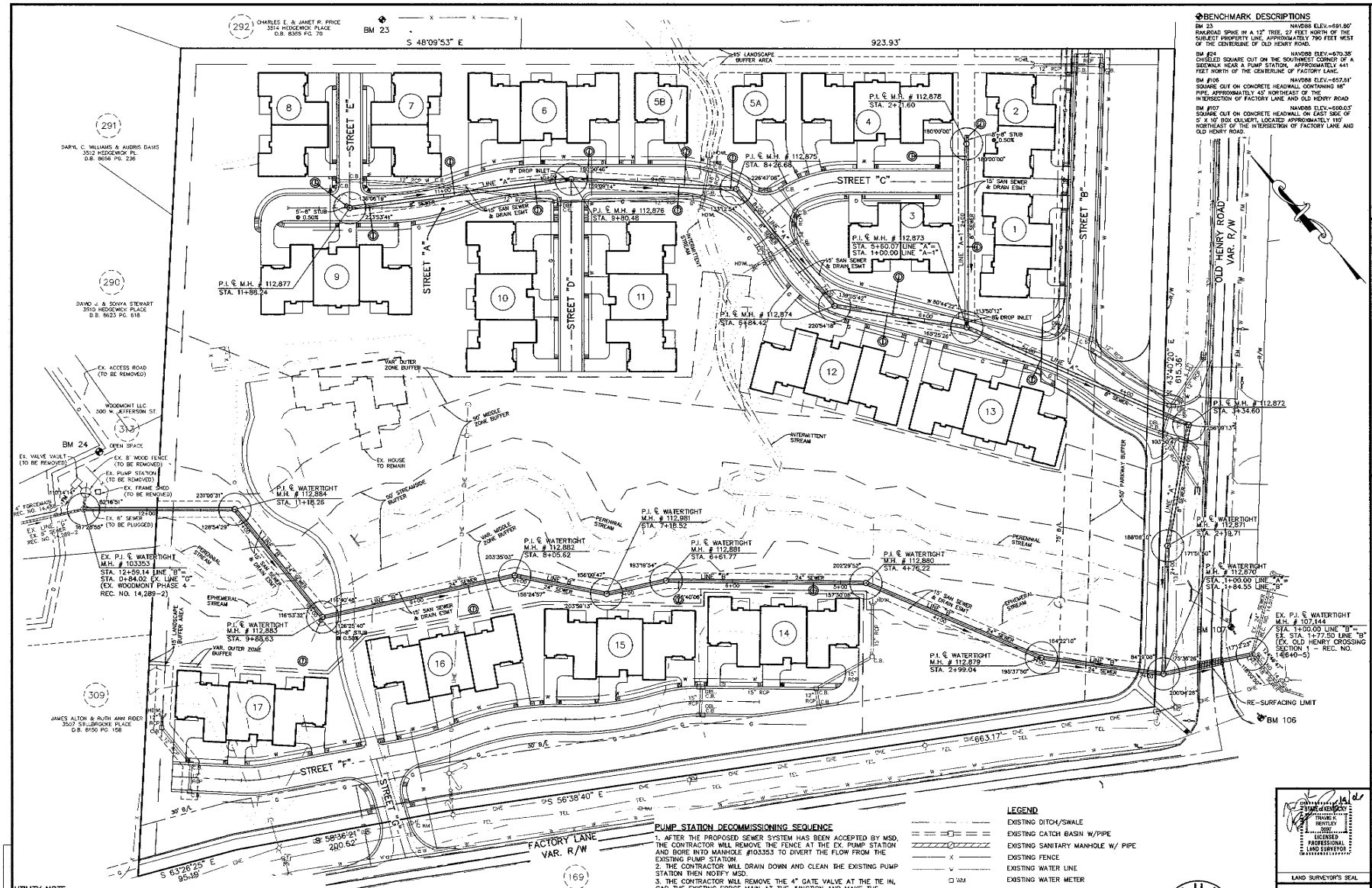
STATE OF KENTUCKY — TRAVIS K. BENTLEY — 3697 — LICENSED PROFESSIONAL LAND SURVEYOR — 5-2-06
LAND SURVEYOR'S SEAL

STATE OF KENTUCKY — MARK A. SITES — 15339 — LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER'S SEAL

Vertical Scale: N/A
Horizontal Scale: 1"=50'
Date: 1/27/06
Job Number: 2337–S01

Sheet 1 of 6

ENGINEER: BOBBY RAIA



BENCHMARK DESCRIPTIONS

BM 23 NAVD88 ELEV.=691.80'
RAILROAD SPIKE IN A 12" TREE, 27 FEET NORTH OF THE SUBJECT PROPERTY LINE, APPROXIMATELY 790 FEET WEST OF THE CENTERLINE OF OLD HENRY ROAD.

BM #24 NAVD88 ELEV.=670.38'
CHISELED SQUARE CUT ON THE SOUTHWEST CORNER OF A SIDEWALK NEAR A PUMP STATION, APPROXIMATELY 441 FEET NORTH OF THE CENTERLINE OF FACTORY LANE.

BM #106 NAVD88 ELEV.=657.51'
SQUARE CUT ON CONCRETE HEADWALL CONTAINING 18" PIPE, APPROXIMATELY 43' NORTHEAST OF THE INTERSECTION OF FACTORY LANE AND OLD HENRY ROAD

BM #107 NAVD88 ELEV.=660.03'
SQUARE CUT ON CONCRETE HEADWALL ON EAST SIDE OF 5' X 10' BOX CULVERT, LOCATED APPROXIMATELY 110' NORTHEAST OF THE INTERSECTION OF FACTORY LANE AND OLD HENRY ROAD.

UTILITY NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER "B.U.D." (TOLL FREE PHONE NO. 1-800-752-5007) FORTY EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS, AND WATERLINES). WHEN CONTACTING THE "B.U.D." CALL CENTER, PLEASE STATE THAT THE WORK TO BE DONE IS FOR A PROPOSED MSD SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS IN THE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL UTILITY RELOCATIONS & ADJUSTMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER.

PUMP STATION DECOMMISSIONING SEQUENCE

1. AFTER THE PROPOSED SEWER SYSTEM HAS BEEN ACCEPTED BY MSD, THE CONTRACTOR WILL REMOVE THE FENCE AT THE EX. PUMP STATION AND BORE INTO MANHOLE #103353 TO DIVERT THE FLOW FROM THE EXISTING PUMP STATION.
2. THE CONTRACTOR WILL DRAIN DOWN AND CLEAN THE EXISTING PUMP STATION THEN NOTIFY MSD.
3. THE CONTRACTOR WILL REMOVE THE 4" GATE VALVE AT THE TIE IN, CAP THE EXISTING FORCE MAIN AT THE JUNCTION AND MAKE THE FINAL GRAVITY SEWER CONNECTION.
4. MSD WILL SALVAGE ANY USABLE MATERIALS FROM THE EXISTING PUMP STATION.
5. THE CONTRACTOR WILL REMOVE ALL MATERIALS AND STRUCTURES WITHIN 4' OF THE GROUND SURFACE.
6. THE CONTRACTOR WILL BREAK THE BASE SLABS OF THE WET WELL AND VALVE VAULT TO ALLOW THE FREE FLOW OF GROUNDWATER.
7. THE CONTRACTOR WILL FILL THE ABANDONED STRUCTURES WITH A GRANULAR MATERIAL.
8. THE CONTRACTOR WILL FINISH GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE AND STABILIZE WITH VEGETATION.

LEGEND

- EXISTING DITCH/SWALE
- EXISTING CATCH BASIN W/PIPE
- EXISTING SANITARY MANHOLE W/ PIPE
- EXISTING FENCE
- EXISTING WATER LINE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UTILITY POLE
- PROPOSED DITCH/SWALE
- PROPOSED DOUBLE CATCH BASIN W/PIPE
- PROPOSED CATCH BASIN W/PIPE
- PROPOSED CREEKSTONE HEADWALL W/PIPE
- PROPOSED SANITARY MANHOLE W/ PIPE

B.U.D. BEFORE "U" DIG FOR BURIED LINES & CABLE LOCATIONS CALL TOLL FREE 1-800-752-5007

RECORD NO. 15,197

STATE OF KENTUCKY TRAVIS K. BENTLEY 2002 LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S SEAL

STATE OF KENTUCKY MARK A. SITES 14336 PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S SEAL

Mindel, Scott & Associates, Inc.
Planning • Engineering • Surveying • Landscape Architecture
Environmental Services • Transportation
4665 Bishop Lane, Suite 200, Louisville, KY 40218
Phone: (502) 491-1154 Fax: (502) 491-1158 E-Mail: msa@msa-inc.com

OWNER/DEVELOPER
LV CAPITAL, LLC
239 S. FIFTH STREET
SUITE 1700
LOUISVILLE, KY. 40202
(502) 589-7527

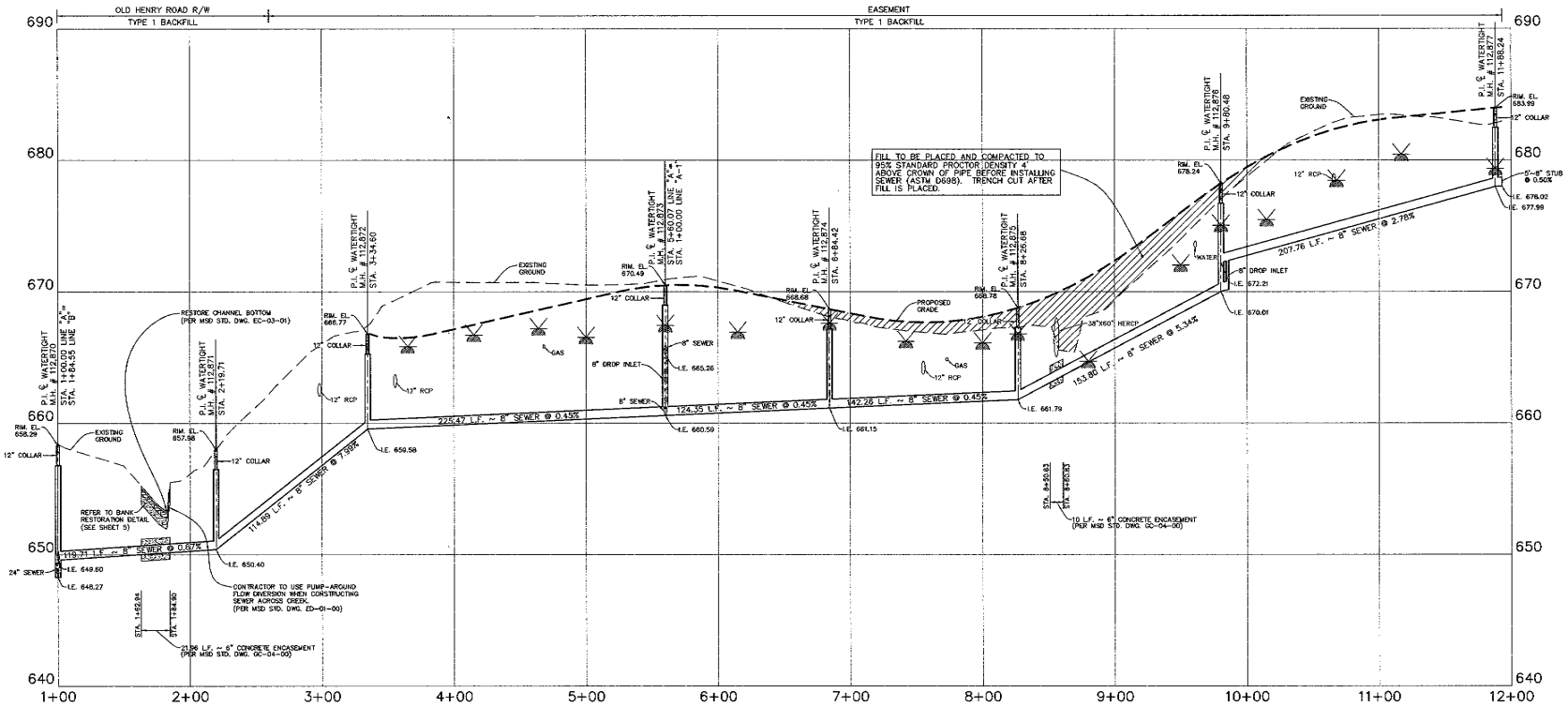
SANITARY SEWER PLANS
OLD HENRY PLACE
PLAN;
LINE "A", "A-1" & "B"

Revisions	
05/16/06	REVISED PER MSD

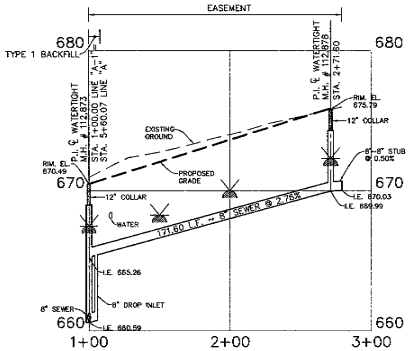
Vertical Scale: N/A
Horizontal Scale: 1"=40'
Date: 1/27/06
Job Number: 2337-S02

Sheet 2 of 6

SUBMITTED: KORY BAIR



LINE "A"



LINE "A-1"

B.U.D. BEFORE "U" DIG FOR BURIED LINES & CABLE LOCATIONS CALL TOLL FREE 1-800-752-6007

RECORD NO. 15,197

STATE OF KENTUCKY MARK A. SITES 15338 LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S SEAL

Mindel, Scott & Associates, Inc.
Planning • Engineering • Surveying • Landscape Architecture
Water Resource Management • Environmental Services
4350 Brownsboro Road, Suite 100, Louisville, KY 40207
Phone: (502) 893-1821 Fax: (502) 893-1644 E-Mail: mail@mindelscott.com

OWNER/DEVELOPER
LV CAPITAL, LLC
239 S. FIFTH STREET
SUITE 1700
LOUISVILLE, KY. 40202
(502) 569-7527

SANITARY SEWER PLANS
OLD HENRY PLACE
PROFILES:
LINE "A" & "A-1"

Revisions	
02/06/06	REVISED PER MSD

Vertical Scale: 1"=4'

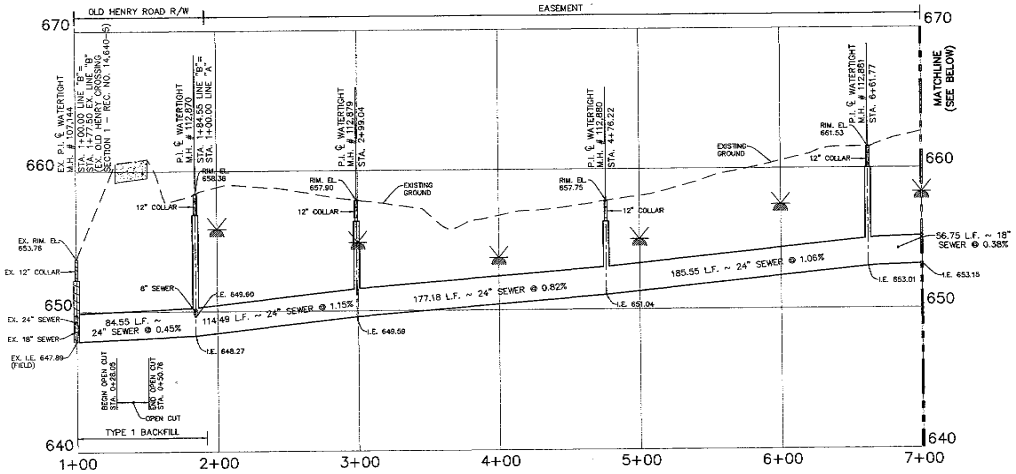
Horizontal Scale: 1"=40'

Date: 1/27/06

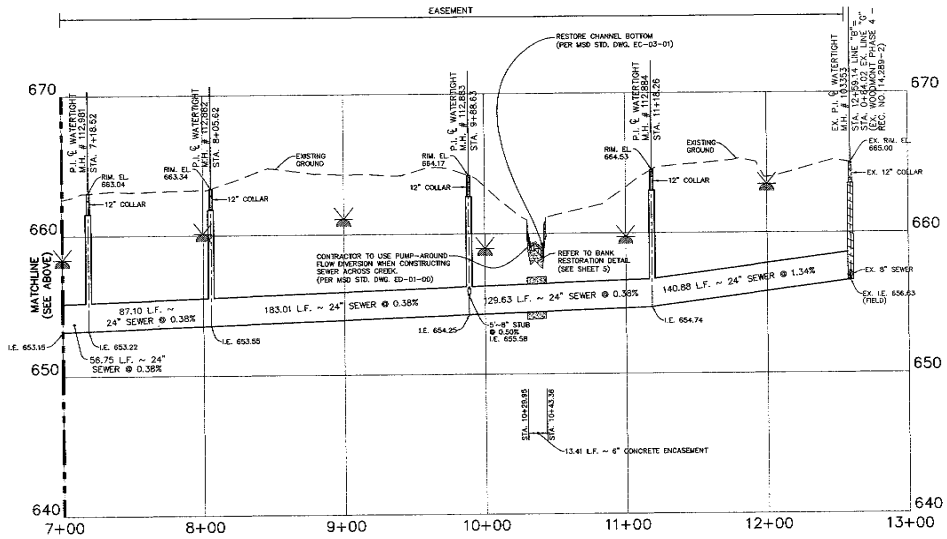
Job Number: 2337-S03

Sheet 3 of 6

DRAWING 2337-S03A



LINE "B"



LINE "B" (CONT'D)

B.U.D. BEFORE YOU DIG FOR BURIED LINES & CABLE LOCATIONS CALL TOLL FREE 1-800-752-6007

RECORD NO. 15,197

STATE OF KENTUCKY MARK A. SITES 15338 LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S SEAL

Mindel, Scott & Associates, Inc.
Planning • Engineering • Surveying • Land Development
Utility Consulting • Property Management
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Phone: (502) 491-1928 Fax: (502) 491-1929 E-Mail: info@mindelscott.com

OWNER/DEVELOPER
LV CAPITAL, LLC
239 S. FIFTH STREET
SUITE 1700
LOUISVILLE, KY. 40202
(502) 569-7527

SANITARY SEWER PLANS
OLD HENRY PLACE
PROFILE:
LINE "B"

Revisions	
02/15/06	REVISED PER MSD

Vertical Scale: 1"=4'

Horizontal Scale: 1"=40'

Date: 1/27/06

Job Number: 2337-S04

Sheet 4 of 6

DESIGNED: BOBBY RAIA

LOUISVILLE & JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT
PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: OLD HENRY PLACE Assm't.___ Int.___ Lot Ext. X Rec No.______ Sht No. 1 of 1 Available Data______
Line: A Inspector: – Date: – Accepted by MSD Inspector______ Date______
Engineer: MINDEL, SCOTT & ASSOC. Phone No.: 485–1508 Contractor:______ Phone No.:______

Tap Station on Sewer / Tap Station on P/L		Size / Location of PSC on lot **	Side / Elev.	Length / Depth at End	Tax Block/Lot No. / House No.	Street Name	Tap Location – Distance & Direction from MH / End Location – Distance & Direction from PL Corner	MH Number / Upstream/Downstream Node (By MSD)	Description of Location of MH (By MSD) / Line Segment Numbers FROM – TO (By MSD)	Remarks
T	4+85	6"	L	7.5'	13	STREET "A"	MH			TOTAL LENGTH 20'
P/L	4+85	EMF	660.48	–	–	–	P/L			
T	6+30	6"	R	7.5'	3	STREET "A"	MH			TOTAL LENGTH 37'
P/L	6+30	EMR	661.13	–	–	–	P/L			
T	6+35	6"	L	7.5'	12	STREET "A"	MH			TOTAL LENGTH 26'
P/L	6+35	EMF	661.16	–	–	–	P/L			
T	8+32	6"	R	7.5'	5A	STREET "A"	MH			TOTAL LENGTH 29'
P/L	8+32	EMF	662.30	–	–	–	P/L			
T	8+75	6"	R	7.5'	5B	STREET "A"	MH			TOTAL LENGTH 32'
P/L	8+75	EMF	664.60	–	–	–	P/L			
T	8+80	6"	L	7.5'	11	STREET "A"	MH			TOTAL LENGTH 23'
P/L	8+80	EMS	664.87	–	–	–	P/L			
T	9+65	6"	R	7.5'	6	STREET "A"	MH			TOTAL LENGTH 27'
P/L	9+65	EMF	669.41	–	–	–	P/L			
T	10+15	6"	L	7.5'	10	STREET "A"	MH			TOTAL LENGTH 25'
P/L	10+15	EMS	673.40	–	–	–	P/L			
T	10+99	6"	R	7.5'	7	STREET "A"	MH			TOTAL LENGTH 31'
P/L	10+99	EMR	675.74	–	–	–	P/L			
T	11+70	6"	L	7.5'	9	STREET "A"	MH			TOTAL LENGTH 28'
P/L	11+70	EMF	677.71	–	–	–	P/L			
T	12+28	6"	R	7.5'	8	STREET "A"	MH			TOTAL LENGTH 35'
P/L	12+28	EMS	678.46	–	–	–	P/L			REDUCER

LOUISVILLE & JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT
PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: OLD HENRY PLACE Assm't.___ Int.___ Lot Ext. X Rec No.______ Sht No. 1 of 1 Available Data______
Line: A–1 Inspector: – Date: – Accepted by MSD Inspector______ Date______
Engineer: MINDEL, SCOTT & ASSOC. Phone No.: 485–1508 Contractor:______ Phone No.:______

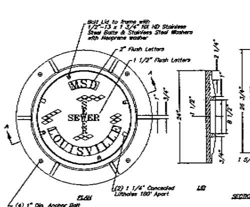
Tap Station on Sewer / Tap Station on P/L		Size / Location of PSC on lot **	Side / Elev.	Length / Depth at End	Tax Block/Lot No. / House No.	Street Name	Tap Location – Distance & Direction from MH / End Location – Distance & Direction from PL Corner	MH Number / Upstream/Downstream Node (By MSD)	Description of Location of MH (By MSD) / Line Segment Numbers FROM – TO (By MSD)	Remarks
T	1+75	6"	R	7.5'	1	–	MH			TOTAL LENGTH 10'
P/L	1+75	EMR	667.56	–	–	–	P/L			
T	2+60	6"	R	7.5'	4	–	MH			TOTAL LENGTH 51'
P/L	2+60	EMF	669.90	–	–	–	P/L			
T	2+91	6"	L	7.0'	2	–	MH			TOTAL LENGTH 19'
P/L	2+91	EMR	670.32	–	–	–	P/L			WYE

LOUISVILLE & JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT
PROPERTY SERVICE CONNECTION INLET SHEET

Project Name: OLD HENRY PLACE Assm't.___ Int.___ Lot Ext. X Rec No.______ Sht No. 1 of 1 Available Data______
Line: B Inspector: – Date: – Accepted by MSD Inspector______ Date______
Engineer: MINDEL, SCOTT & ASSOC. Phone No.: 485–1508 Contractor:______ Phone No.:______

Tap Station on Sewer / Tap Station on P/L		Size / Location of PSC on lot **	Side / Elev.	Length / Depth at End	Tax Block/Lot No. / House No.	Street Name	Tap Location – Distance & Direction from MH / End Location – Distance & Direction from PL Corner	MH Number / Upstream/Downstream Node (By MSD)	Description of Location of MH (By MSD) / Line Segment Numbers FROM – TO (By MSD)	Remarks
T	5+25	6"	L	7.5'	14	–	MH			TOTAL LENGTH 12'
P/L	5+25	EMR	652.61	–	–	–	P/L			
T	6+50	6"	L	7.5'	15	–	MH			TOTAL LENGTH 25'
P/L	6+50	EMR	654.13	–	–	–	P/L			
T	8+50	6"	L	7.5'	16	–	MH			TOTAL LENGTH 25'
P/L	8+50	EMR	655.81	–	–	–	P/L			
T	0+05	6"	L	40'	17	–	MH			TOTAL LENGTH 40'
P/L	0+05	EMR	656.58	–	–	–	P/L			REDUCER

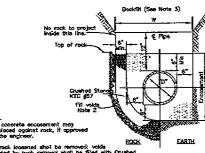
STUB @ STA. 9+88.63



NOTE:
1. Designed for H25 loading.
2. Material: Cast gray iron ASTM A-48 Class 35B.
3. Minimum Weights: Fr. 200 LBS. Lid 134 LBS.
4. Neenah R-1916-D or HOE-345 WL or Approved Equal.

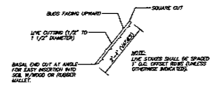
WATERTIGHT MANHOLE FRAME AND LID
GM-06-00

Maximum Allowable Trench Width 12" Above Outside Top of Pipe "W"	Inside Diameter of Pipe "D"
2'-6"	4"
2'-8"	6"
2'-10"	8"
3'-0"	10"
3'-5"	12"
3'-9"	15"
4'-1"	18"
4'-4"	21"
4'-8"	24"
5'-1"	27"
5'-5"	30"
5'-10"	33"
6'-2"	36"
6'-8"	39"
6'-11"	42"
7'-6"	48"
D+2t+2'-8"	OVER 48"



NOTES:
1. The concrete encasement may be placed against rock, if approved by the engineer.
2. All rock loosened shall be removed; voids created by such removal shall be filled with Crushed Stone KTC #57.
3. Backfill shall be as noted on the drawings.
4. Contractor shall encase pipe a minimum of 6-inches above the pipe or to existing rock line, as shown on drawings.
5. Contractor shall keep pipe from floating during the placement of concrete.
6. If concrete is placed against sheeting, tarred or other suitable paper shall be first attached to the sheeting. The sheeting will not be allowed to be removed until the concrete has sufficiently cured.
7. Class "B" concrete shall be used.

CONCRETE ENCASEMENT
GC-04-00

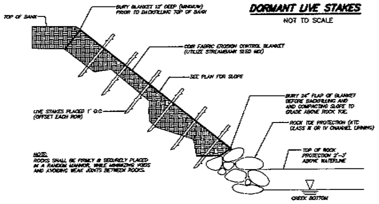


LIVE STAKE PLANT LIST:

SCIENTIFIC NAME	COMMON NAME
CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH
CORNUS AMOMUM	SILKY DOGWOOD
CORNUS STOLONIFERA	RED-OSIER DOGWOOD
CORNUS RACEMOSA	GRAY DOGWOOD
POPULUS DELTOIDES	EASTERN COTTONWOOD
SALIX NIGRA	BLACK WILLOW
SALIX PURPUREA	PURPLE OSIER WILLOW
SALIX INTERIOR	SANDBAR WILLOW

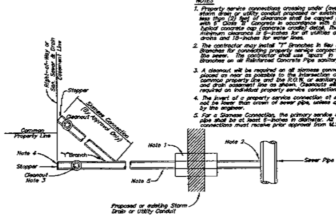
NOTE: LIVE STAKES SHALL BE SPACED 1' O.C. OFFSET ROWS (UNLESS OTHERWISE INDICATED).

DORMANT LIVE STAKES
NOT TO SCALE



NOTE: ROCKS SHALL BE FIRMLY & SECURELY PLACED IN A RANDOM MANNER, WHILE MINIMIZING VOIDS AND AVOIDING WEAK JOINTS BETWEEN ROCKS.

BANK RESTORATION DETAIL
NOT TO SCALE

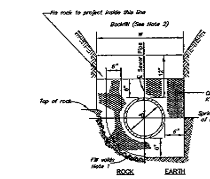


NOTES
1. Property service connections crossing under (over) the storm drain or utility conduit proposed or existing with less than (2) feet of clearance shall be capped (cradled) with 6" Class "B" Concrete in accordance with the typical concrete cap (concrete cradle) detail. The minimum clearance is 6-inches for all utilities and storm drains and 18-inches for water lines.
2. The contractor may install "T" Branches in lieu of "Y" Branches for connecting property service connections to the sewer. The contractor shall use "spurs" in the "T" Branches on all Reinforced Concrete Pipe sanitary sewers.
3. A cleanout will be required on all siamese connections placed as near as possible to the intersection of the common property line and the R.O.W. or sanitary sewer and drain easement line as shown. Cleanouts will not be required on individual property service connections.
4. The invert of a property service connection at end shall not be lower than crown of sewer pipe, unless approved by the engineer.
5. For a Siamese Connection, the primary service connection pipe shall be at least 6-inches in diameter. All Siamese connections must receive prior approval from M.S.D.

PROPERTY SERVICE CONNECTION
SP-01-00

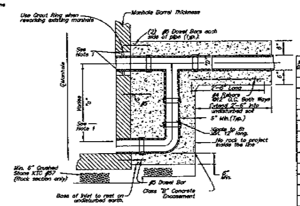
Maximum Allowable Trench Width 12" Above Outside Top of Pipe "W"	Inside Diameter of Pipe "D"
2'-6"	4"
2'-8"	6"
2'-10"	8"
3'-0"	10"
3'-5"	12"
3'-9"	15"
4'-1"	18"
4'-4"	21"
4'-8"	24"
5'-1"	27"
5'-5"	30"
5'-10"	33"
6'-2"	36"
6'-8"	39"
6'-11"	42"
7'-6"	48"
D+2t+2'-8"	OVER 48"

If "W" is exceeded, a Concrete Cradle shall be placed at such locations at the Contractor's expense. Applies to excavations in rock or earth.



NOTES:
1. All rock loosened shall be removed; voids created by such removal shall be refilled with Crushed Stone KTC #57.
2. Backfill shall be noted on the drawings.
3. Remove stone for pipe bells to provide full contact of bedding.

CRUSHED STONE ENCASEMENT
GC-02-00

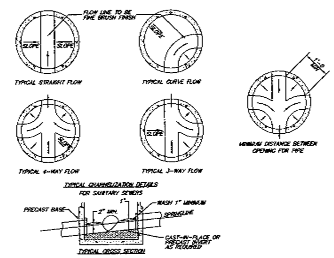


P.V.C. DROP INLET CHART

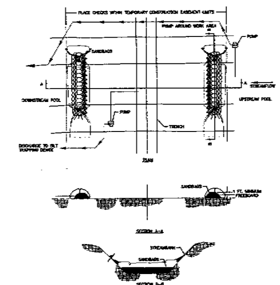
Minimum Dimensions ℄ To ℄ "a"	"D" I.D. of Drop Inlet
16"	4"
20"	6"
24"	8"
26"	9"
27"	10"
31"	12"
37"	15"
47"	18"
51"	21"
64"	24"
73"	27"

NOTE:
1. Sewer pipe connection to precast manhole with Positive Seal Gasketing System (A.S.T.M. C-923). Gasket shall be as manufactured by the Press Seal Gasket Co., A-Lok or Kor-N-Seal Manhole pipe connectors or approved equal for sanitary sewers.

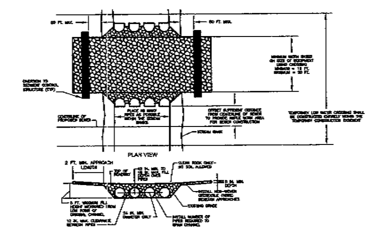
P.V.C. VERTICAL DROP INLET
SD-01-00



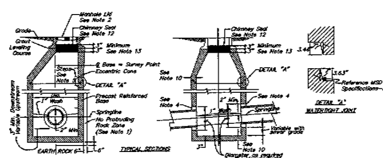
MANHOLE CHANNELIZATION
GM-04-00



PUMP-AROUND FLOW DIVERSION
ED-01-00

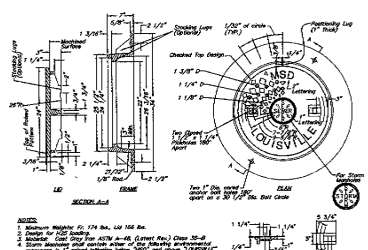


CONSTRUCTION ROAD STABILIZATION TEMPORARY LOW WATER CROSSING
ER-02-01



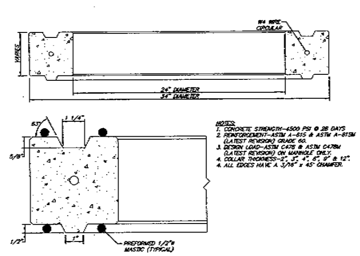
NOTES
1. All rock loosened, shall be removed. Voids created by such removal shall be refilled with Crushed Stone KTC #57.
2. Manhole frame and lid shall be MSD Standard unless otherwise noted. Reference Std. Drawings GM-05, GM-06.
3. In lieu of poured Class "A" concrete inverts, precast inverts may be substituted.
4. Sewer pipe connection to precast manhole with positive seal gasketing system (A.S.T.M. C-923). Gasket shall be as manufactured by the Press Seal Gasket Co., A-lok, Kor-N-Seal or equal with stainless steel banded manhole pipe connectors for sanitary sewers.
5. Reference MSD Standard Specifications–Section 5.2.9. Steps shall not be placed above pipe larger than 18" diameter.
6. No rock fragments will be allowed within 6-inches of structure.
7. Manhole shall meet all of the requirements of A.S.T.M. C478, C913.
8. Backfill according to M.S.D. standard specification.
9. Total height of all collars shall not exceed 12 inches.
10. 5" for 48" diameter, 6" for 60" diameter and 7" for 72" diameter.
11. Manhole inverts on 8" pipe shall have a constant grade of 0.40% through the structure unless any line exceeds 10% at which point the "variable with sewer grade" note applies.
12. Chimney seals, either internally mechanical of chemical, will be required on all new MSD manholes. At a minimum, the seal will extend from a point 3 inches above the base of the manhole frame, to a point 3 inches below the top of the concrete cone or top slab. If grade adjustments collars are used, the seal height will increase proportionally to the collar height. All material and installation procedures for mechanical and chemical seals will conform to section 5 of MSD's Standard Specifications.
13. The top of the concrete cone of top slab must have a minimum 3 inch vertical surface that is smooth and free of any form offsets or excessive honeycomb.

PRECAST MANHOLE–TYPE 1
GM-01-03



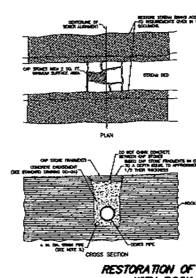
NOTES:
1. Minimum Weights: Fr. 174 lbs., Lid 166 lbs.
2. Design for H25 loading.
3. Material: Cast Grey Iron ASTM A-48, (Latest Rev.) Class 35-B
4. Storm Manholes shall contain either of the following environmental messages in 1" raised lettering below "MSD" and above "LOUISVILLE" on a radius to the center point of the lid:
(A) DUMP NO WASTE ... DRAINS TO STREAM
(A) NO DUMPING ... DRAINS TO STREAM
5. A fish or other environmental logo may be included on the Storm Manhole Lid at the option of the manufacturer.

STANDARD MANHOLE FRAME AND LID
GM-05-02



NOTES:
1. CONCRETE STRENGTH–4500 PSI @ 28 DAYS
2. REINFORCEMENT–ASTM A-615 & ASTM A-615M (LATEST REVISION) GRADE 60.
3. DESIGN LOAD–ASTM C478 & ASTM C478M (LATEST REVISION) ON MANHOLE ONLY.
4. COLLAR THICKNESS–2", 3", 4", 6", 9" & 12".
4. ALL EDGES HAVE A 3/16" x 45° CHAMFER.

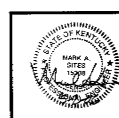
PRECAST CONCRETE COLLAR
GM-07-00



NOTES
1. USE THIS RESTORATION METHOD ON EXPOSED MONOLITHIC ROCK BEDS AND THOSE WITH LESS THAN 4 INCHES OF UNCONSOLIDATED BED MATERIAL DEPOSITED OVER A MONOLITHIC ROCK BED.
2. MINIMUM THICKNESS OF CAP STONE SHALL BE 3 INCHES.
3. EXTEND EACH END OF DRAIN PIPE A MINIMUM OF 24 INCHES INTO CRUSHED STONE ENCASEMENT.
4. 4" DRAIN IS OPTIONAL BASED ON SITE CONDITIONS.

RESTORATION OF CHANNELS WITH ROCK BEDS
EC-03-01

RECORD NO. 15,197



PROFESSIONAL ENGINEER'S SEAL

ENGINEER: BOBBY RAIA

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OWNER/DEVELOPER
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239 S. FIFTH STREET
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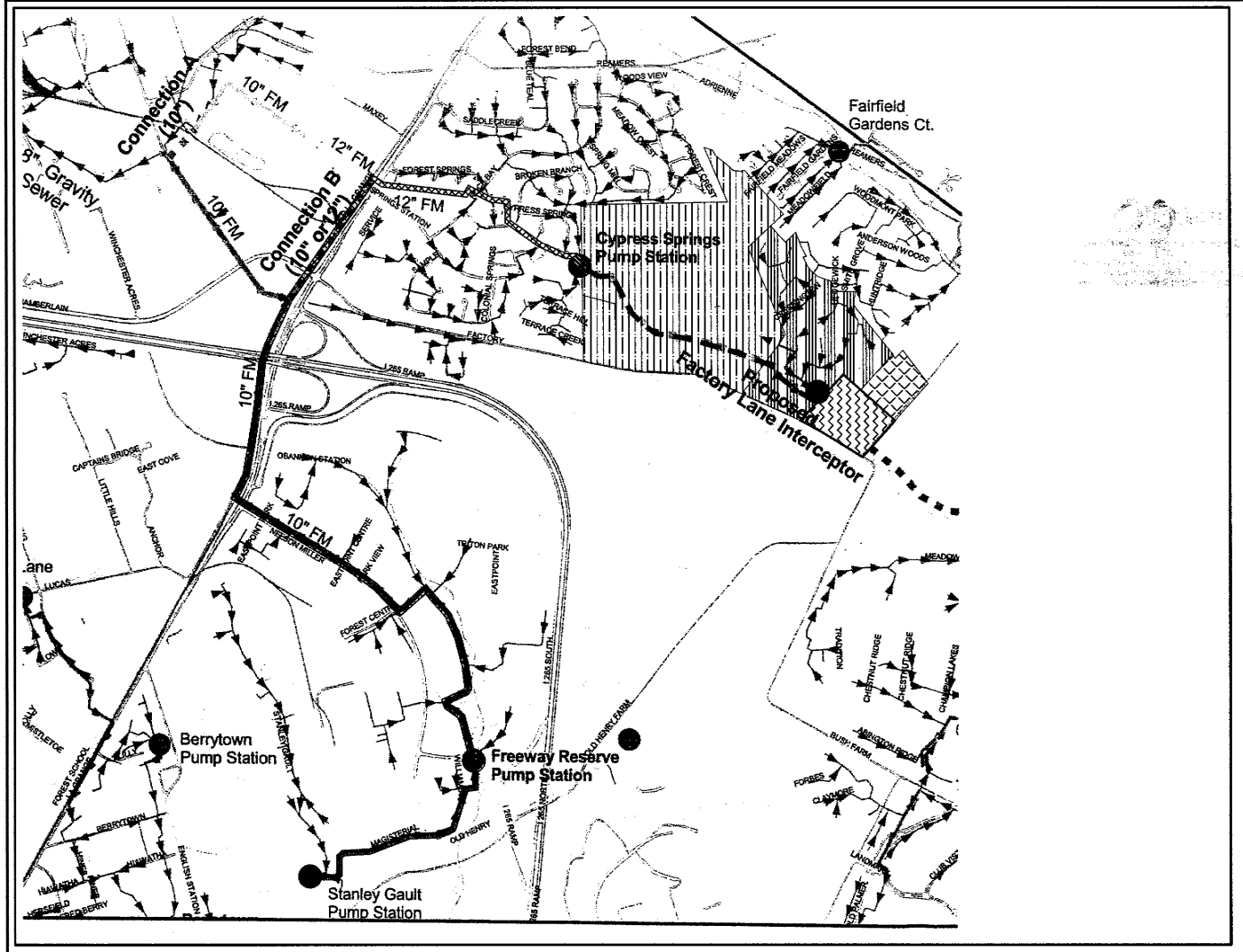
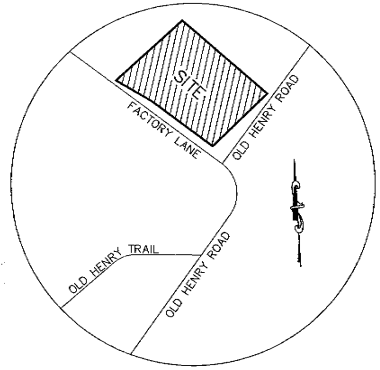
SANITARY SEWER PLANS
OLD HENRY PLACE
STANDARD DETAILS & P.S.C INLET CHART

Revisions	
03/16/06	REVISED PER MSD

Vertical Scale: N/A
Horizontal Scale: N/A
Date: 1/27/06
Job Number: 2337-S05





LOCATION MAP

NO SCALE

SANITARY SEWER DRAINAGE AREA CHART

DRAINAGE AREA	COLOR DESIGNATION	AREA/LOTS (ACRES/LOTS)	USE/ZONING	EQUIVALENT POPULATION	TOTAL FLOW (GPD)
OLD HENRY PLACE		45	R-5A	135	13,500
CYPRESS SPRINGS P.S.		1,513*	VAR.	6,052*	206,088**
FREEWAY RESERVE P.S.		SEE REPORT	VAR.	SEE REPORT	1,050,971**
STANLEY GAULT P.S.		SEE REPORT	VAR.	SEE REPORT	431,637**
WOODMONT, P.4 P.S.		104	R-5	416	41,600
DA-1		9.50 / 36	R-4	143	14,300
DA-2		126.18 / 473	R-4	1,892	189,200

* FROM SABAK, WILSON, & LINGO STUDY (FLOYDS FORK AREA-REC.NO. 14,612)
** FROM TETRA TECH STUDY (FACTORY LANE SOUTH AND FREEWAY RESERVE P.S.)

GRAPHIC SCALE 1"=200'
0 100 200 400

B.U.D. BEFORE "U" DIG.
FOR BURIED LINES & CABLE LOCATIONS
CALL TOLL FREE
1-800-752-6007

RECORD NO. 15,197

PROFESSIONAL ENGINEER'S SEAL

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SANITARY SEWER PLANS
OLD HENRY PLACE
SERVICE AREA MAP

Revisions	
02/06/06	REVISED FOR USE

Vertical Scale: N/A

Horizontal Scale: 1"=200'

Date: 1/27/06

Job Number: 2337-S06

Sheet 6 of 6

DRAWN BY: ROBERT BUCK

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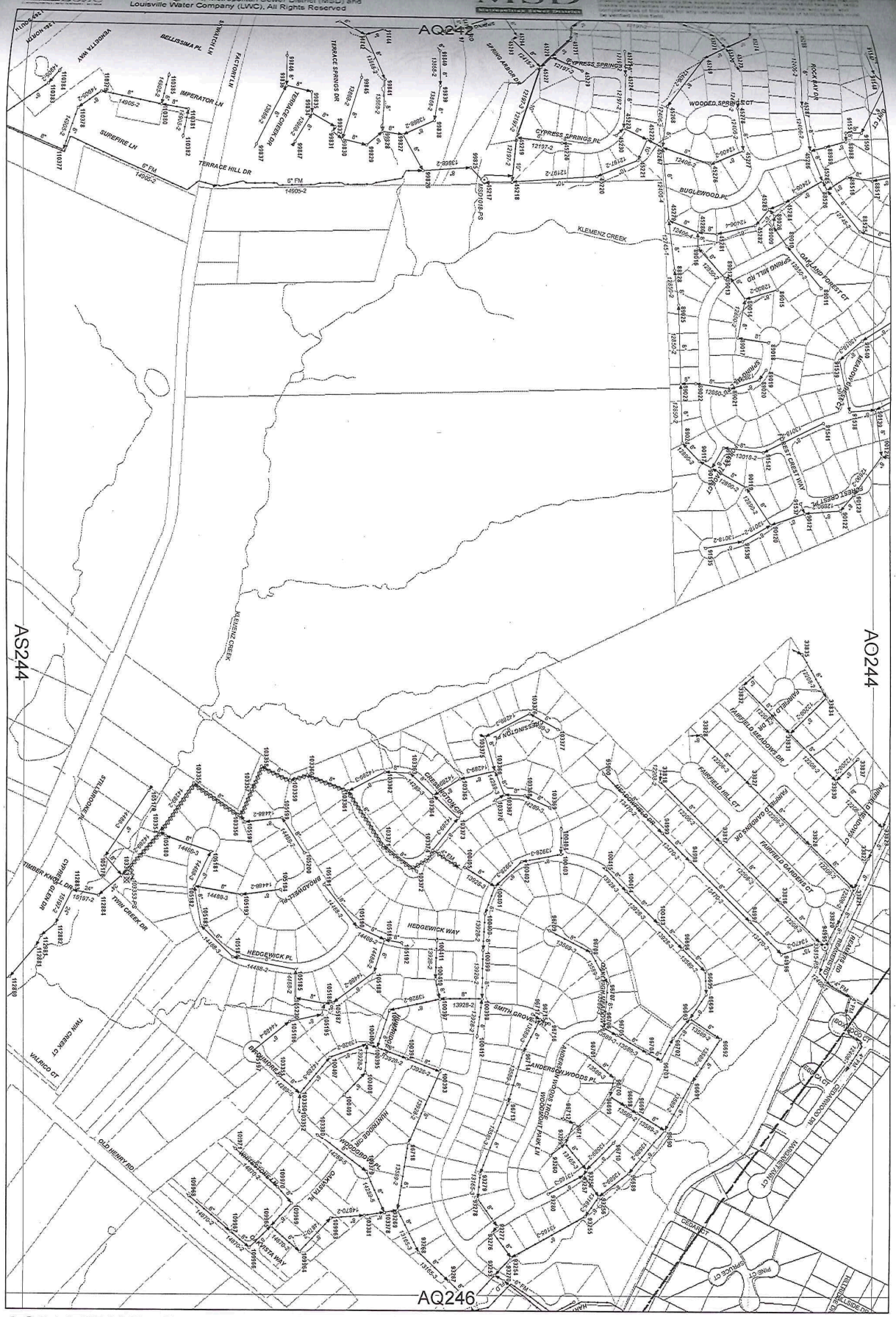

AQ244 (MAK25C) Printed: 11/17/2010 Scale: 1" = 400' 0 400' Feet

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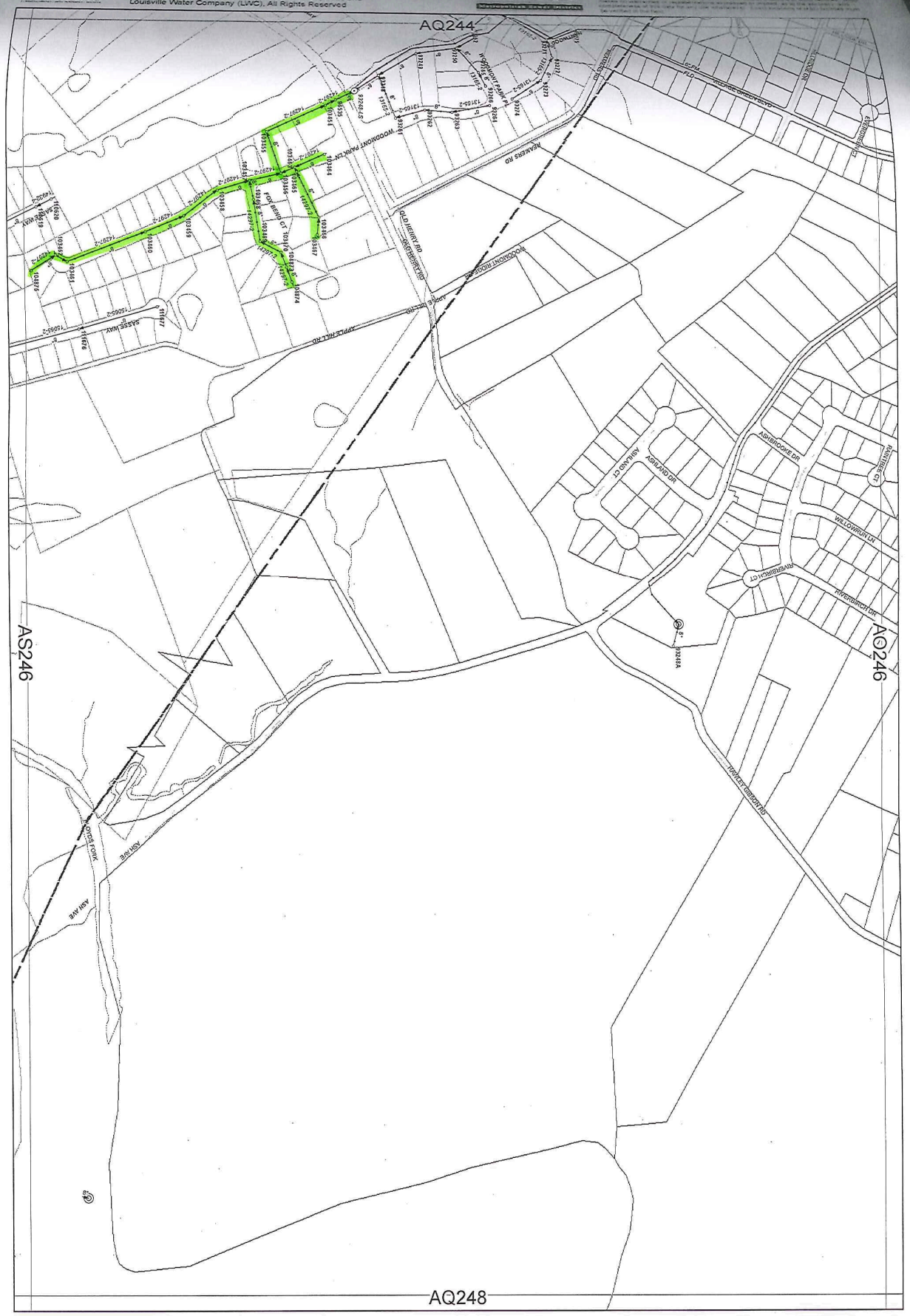

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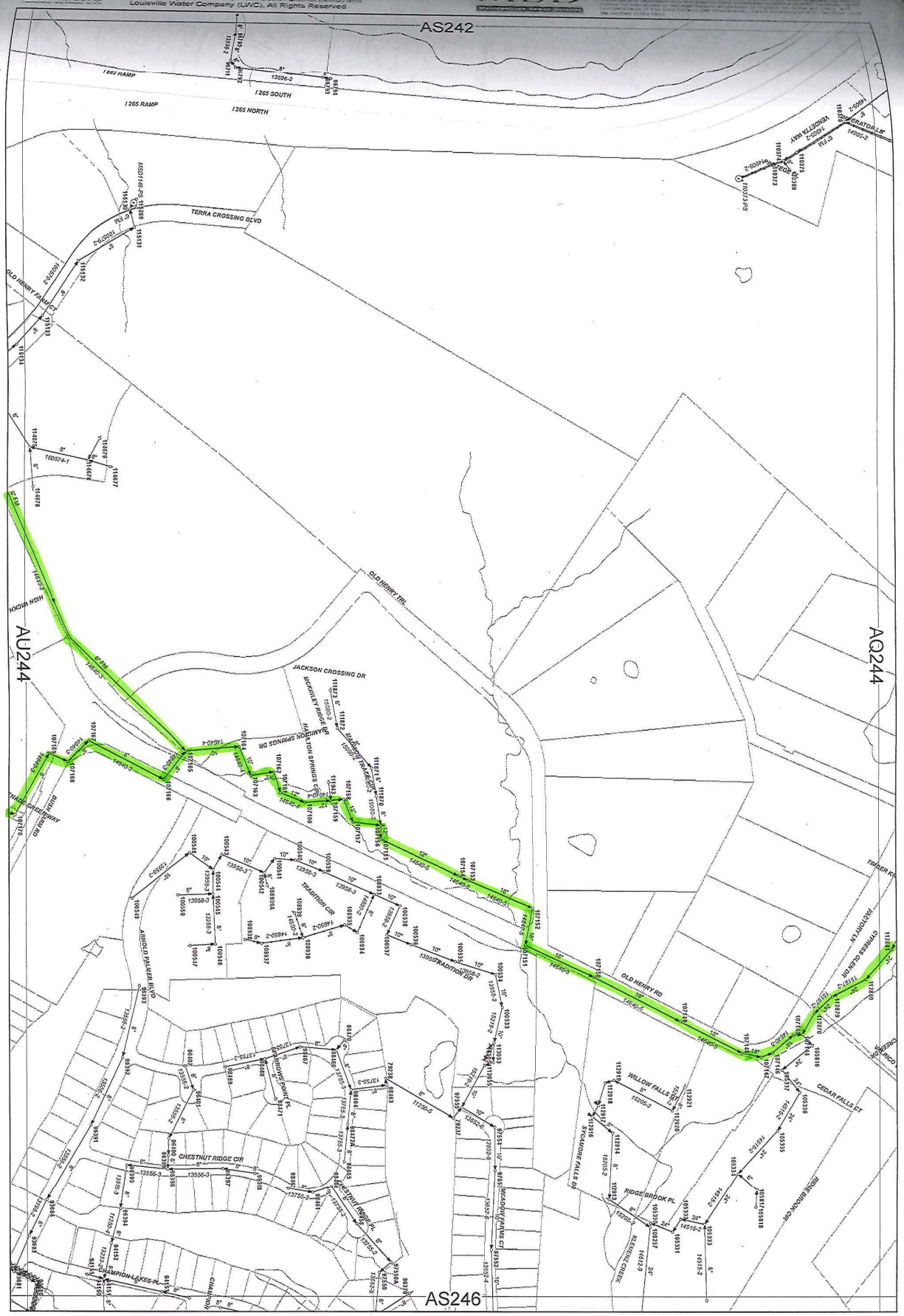

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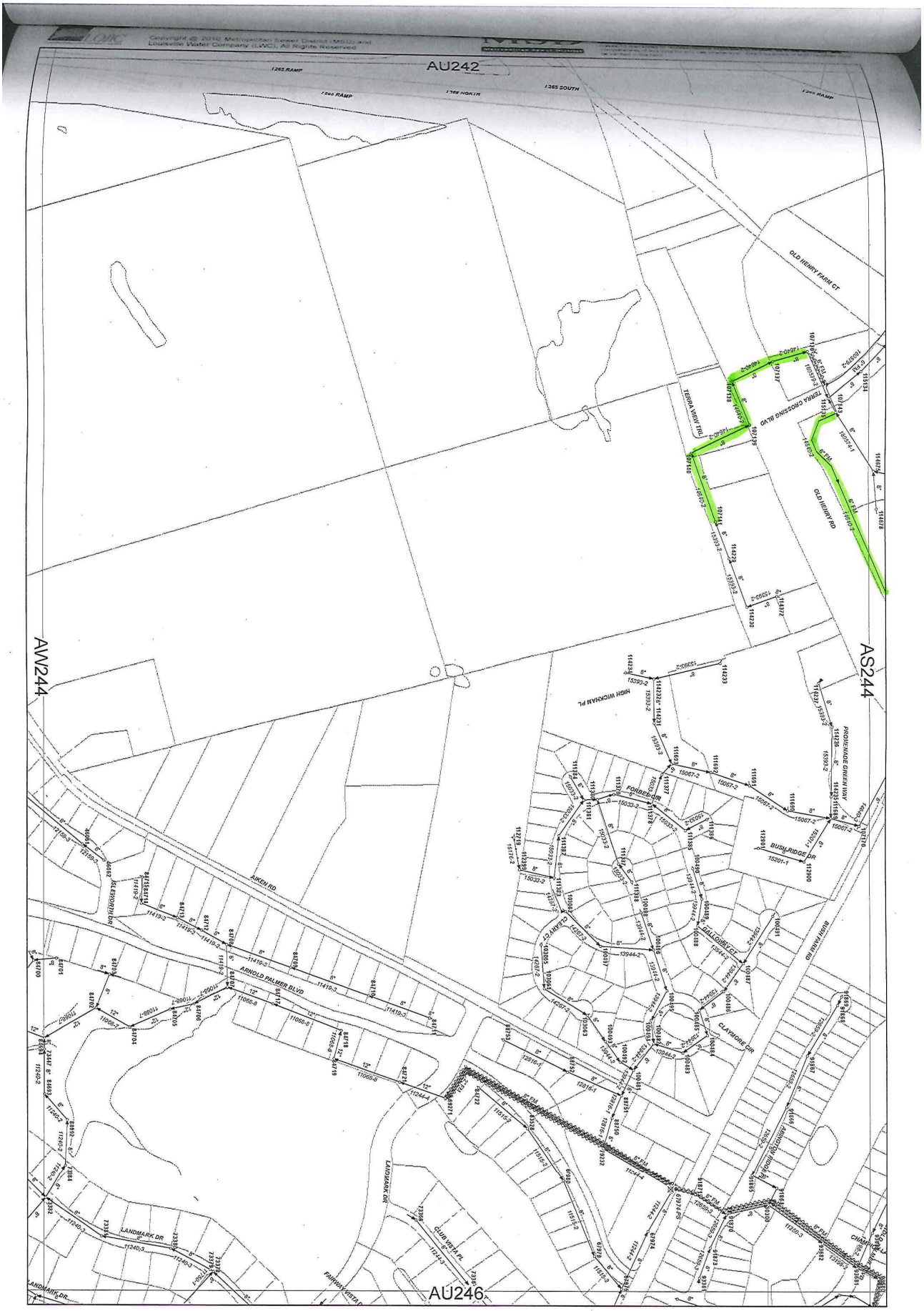

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