



RECEIVED

JUL 26 2012

PUBLIC SERVICE COMMISSION

LETTER OF TRANSMITTAL

TO

Mr. Jeff Derouen
Executive Director
Public Service Commission Of Kentucky
P.O. Box 615
Frankfort, KY 40602-0615

DATE: 7/24/2012
ATTN: Mr. Jeff Derouen
RE: Case 2012-00254
North McLean Co. Water District

QTY.	DESCRIPTION
1	Phase I – As Builts Plans
1	Phase I – Proposed Construction Plans

THESE ARE TRANSMITTED AS CHECKED BELOW

<input type="checkbox"/>	FOR APPROVAL	<input checked="" type="checkbox"/>	FOR YOUR USE	<input type="checkbox"/>	AS REQUESTED
<input type="checkbox"/>	REVIEWED	<input type="checkbox"/>	NOTE MARKINGS	<input type="checkbox"/>	REVIEW & COMMENT
<input type="checkbox"/>	REJECTED	<input type="checkbox"/>	REVISE AND RESUBMIT	<input type="checkbox"/>	

REMARKS

COPIES TO:

TRANSMITTED BY: Michael Hesse

KY 136 / KY 250 WATER LINE CONSTRUCTION

2012-00254

RECEIVED

JUL 26 2012

PUBLIC SERVICE
COMMISSION

PREPARED for: THE McLEAN COUNTY FISCAL COURT

ASBUILT

McLEAN COUNTY FISCAL COURT

LARRY WHITAKER
MATT HAYDEN
KENNY WILSON
BOBBY JOHNSON
JIMMY IGLEHEART

JUDGE / EXECUTIVE
MAGISTRATE
MAGISTRATE
MAGISTRATE
MAGISTRATE

CALHOUN WATER WORKS

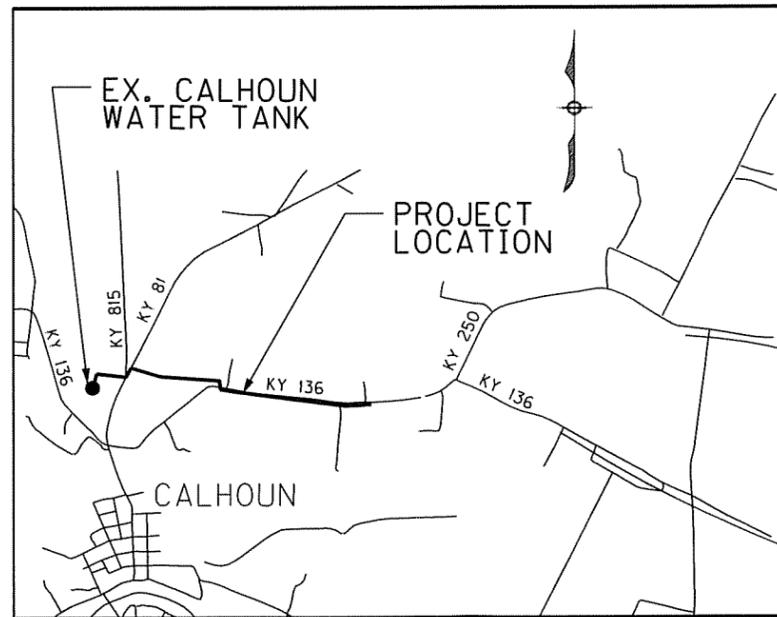
LARENCE HOLMES

MANAGER

NORTH McLEAN WATER DISTRICT

MICHAEL LANTHAM

MANAGER



LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

SHEET	ITEM
1	COVER SHEET
2	TYPICAL SECTION
3	PROJECT SUMMARY
4	PLAN AND PROFILE -STA. 0+50 TO 25+00
5	PLAN AND PROFILE -STA. 25+00 TO 53+00
6	PLAN AND PROFILE -STA. 53+00 TO 78+00
7	PLAN AND PROFILE -STA. 78+00 TO 103+00
8	NOT USED
9	WATER TANK DETAIL
10	KY 815 / KY 81 CROSSING DETAIL
11	MULTIPLE SITE DETAIL SHEET
12	DETAIL SHEET
13	DETAIL SHEET
14	DETAIL SHEET
15	DETAIL SHEET



McLEAN COUNTY FISCAL COURT
210 MAIN ST.
PO BOX 127
CALHOUN, KY 42327
(270) 273-3213

KY 136/ KY 250
WATER LINE CONSTRUCTION
COVER SHEET
ASBUILT

NO.	DATE	DESCRIPTION	BY

DATE:	8/4/2009
SCALE:	N.T.S.
SHEET:	1
DRAWN BY:	RRC
CHECKED BY:	MCH
JOB NO.:	0831000300

UTILITY CONTACTS

GAS

Mr. JIM CAPPS
ATMOS ENERGY CORPORATION
3425 NEW HARTFORD RD.
OWENSBORO, KY. 42303
(270) 685-8103

ELECTRIC

Mr. J.E. NEWLAND
KENERGY
6402 OLD CORYDON RD.
HENDERSON, KY 42420
(270) 826-3991

ELECTRIC

Mr. KEITH MARKS
KENTUCKY UTILITIES
111 W. MAIN STREET
EARLINGTON, KY 42410
(270) 383-6000
(270) 871-8709 (MOBILE)

TRANSPORTATION

Mr. FRANK BACON
KENTUCKY TRANSPORTATION CABINET
KENTUCKY DEPT. OF HIGHWAYS
DISTRICT 2
PO BOX 600
MADISONVILLE, KY 42431-5003
(270) 824-7080
(270) 824-7091 (FAX)

TELEPHONE

Mr. GEOFFERY JOHNSON
AT&T
714 CLAY ST.
HARTFORD, KY 42347
(270) 298-4129

CABLE

Mr. BRENT RASSERTY
TIME WARNER
100 INDUSTRIAL DR.
OWENSBORO, KY 42301
(270) 222-0861

WATER

Mr. LARENCE HOLMES
CALHOUN WATER WORKS
PO BOX 294
CALHOUN, KY 42327
(270) 273-3092
(270) 316-3123 (MOBILE)

WATER

Mr. MICHAEL LANTHAM
NORTH McLEAN COUNTY WATER DISTRICT
217 HILL ST.
PO BOX 68
LIVERMORE, KY 42352
(270) 278-2800
(270) 499-3788 (MOBILE)

McLEAN CO. MIDDLE SCHOOL

PRINCIPAL TRES SETILE
1901 HIGHWAY 136 EAST
CALHOUN, KENTUCKY 42327
(270)273-5191

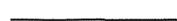
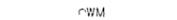
McLEAN CO. HIGH SCHOOL

ASHLEY TROUTMAN
1859 HIGHWAY 136 EAST
CALHOUN KENTUCKY 42327
(270) 273-5278

EXTREME CAUTION

ATMOS GAS REQUIRES 7 DAYS NOTICE PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL. CALL (270) 685-8103 OR (270) 685-8049. A REPRESENTATIVE SHALL BE ON SITE FOR ALL CONSTRUCTION WITHIN 50' OF THE GAS LINE.

LEGEND

-  EX. FENCE
-  EX. WATER MAIN
-  EX. GAS MAIN
-  EX. TELEPHONE LINE
-  EX. STORM DRAIN
-  EX. OVERHEAD UTILITY
-  EX. EDGE OF PAVEMENT
-  EX. RIGHT OF WAY LINE / EX. PROPERTY LINE
-  EX. FLOW LINE
-  PROPOSED EASEMENT LINE
-  PROPOSED WATER MAIN
-  EX. WATER METER
-  EX. TELEPHONE POLE
-  EX. UTILITY POLE
-  EX. GUY WIRE
-  EX. FIRE HYDRANT
-  PROPOSED FIRE HYDRANT
-  PROPOSED GATE VALVE
-  PROPOSED CAP OR END PLUG

CAUTION EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.U.D. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL, CALL 1-800-752-6007.

NOTES:

1. PROPERTY LINES HAVE BEEN OBTAINED FROM PVA OFFICE AND ARE APPROXIMATE LOCATION OF PROPERTY.
2. UTILITY DEPTHS HAVE BEEN ASSUMED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR:
TELEPHONE - 24" DEPTH
GAS - 30" DEPTH
WATER - 36" DEPTH
3. WATER MAIN AND SERVICES SHALL BE INSTALLED WITH A MINIMUM COVER OF 30" (36" PREFERRED).
4. EXISTING WATER MAIN SIZES WERE PROVIDED BY KY. INFRASTRUCTURE AUTHORITY.
5. CONTRACTOR SHALL VERIFY UTILITY LOCATION AND SIZES PRIOR TO ORDERING MATERIALS.
6. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO REMOVAL OF ANY ADDITIONAL TREES NOT NOTED TO BE REMOVED. REMOVAL OF ANY TREES FOR THE CONTRACTOR'S CONVENIENCE WILL NOT BE SUBJECT TO A CHANGE ORDER.
7. ADDITIONAL BENDS MAY BE REQUIRED FOR HORIZONTAL AND VERTICAL CLEARANCE WITH EXISTING UTILITIES AND STRUCTURES THAT ARE NOT SHOWN ON PLAN AND PROFILE SHEETS. THESE COSTS WILL BE CONSIDERED INCIDENTAL TO WATER MAIN INSTALLATION.
8. A THRUST BLOCK IS REQUIRED FOR EVERY BEND, CAP, TEE, VALVE, FIRE HYDRANT, AND FLUSH HYDRANT AS SHOWN IN THE THRUST BLOCK DETAIL.
9. ALL FLUSH HYDRANTS AND FIRE HYDRANTS SHALL BE INSTALLED WITH A 6" GATE VALVE AS SHOWN IN THE FIRE HYDRANT DETAIL, UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL VERIFY PROPERTY SERVICE LOCATION WITH EACH PROPERTY OWNER.

ASBUILT

DLZ KENTUCKY, INC.
201 BRIGHTON PARK BLVD.
FRANKFORT, KY 40601
(502) 695-2300 (Fax) 695-1497



McLEAN COUNTY FISCAL COURT
210 MAIN ST.
PO BOX 127
CALHOUN, KY 42327
(270) 273-3213

KY 136/ KY 250
WATER LINE CONSTRUCTION
TYPICAL SECTION
ASBUILT

DATE: 8/4/2009
SCALE: N.T.S.
SHEET: 2

DRAWN BY: RRC
CHECKED BY: MCH
JOB NO.: 0831000300

NO.	DATE	DESCRIPTION	BY

PROPERTY OWNERS

CI-2-3
Therion & Beatrice Dame
202 KY 136 W, Calhoun, KY 42327
DB 107, PG 220

CI-2-4
Calhoun Cemetary
DB, PG

33-98
William P. Jones
PO Box 9, Calhoun, KY 42327
DB 170, PG 59

33-99
Barbara Spence & Sharon Woosley
209 KY 815, Calhoun, KY 42327
DB 158, PG 279

33-99A
Michael & DeeAnn Muster
PO Box 669, Calhoun, KY 42327
DB 168, PG 618

33-99B
Sharon Woosley
1496 Brooks Schse Rd, Calhoun, KY 42327
DB 175, PG 236

34-6
William P. & Roberta Jones
PO Box 9, Calhoun, KY 42327
DB 170, PG 43

34-7
Mary Frances Porter
884 KY 136 E, Calhoun, KY 42327
DB 116, PG 338

34-7B
Michael G. Howard
1925 Jewell City Rd, Slaughters, KY 42456
DB 158, PG 636

34-7C1
Calhoun Congregation of Jehovah Witness
Calhoun, KY 42327
DB 150, PG 587

34-7C2
Michael & Sherrie Proscia
900 KY 136 E, Calhoun, KY 42327
DB 158, PG 719

34-7F
William F. & Ruth Bassett
880 KY 136 E, Calhoun, KY 42327
DB 147, PG 550

34-7G
William P. Jones
PO Box 9, Calhoun, KY 42327
DB 144, PG 49

34-7J
William P. Jones
PO Box 9, Calhoun, KY 42327
DB 163, PG 262

34-8
William P. Jones
PO Box 9, Calhoun, KY 42327
DB 144, PG 158

34-8A
R & W Development & Logistics, Inc.
410 KY 136 E, Calhoun, KY 42327
DB. 152, PG 1

34-10
Eddie W. Floyd
657 KY 136 E, Calhoun, KY 42327
DB 85, PG 320

42-11
McLean County
DB 101, PG 388

42-12
Mae Kathryn Whittington Estate
c/o Scott Thompson
1486 KY 136 E, Calhoun, KY 42327
DB 94, PG 364

42-13
Ray & Elna Hayden
1868 KY 136 E, Calhoun, KY 42327
DB 109, PG 353

42-13A
Mallie Denise McElwain
1690 KY 136 E, Calhoun, KY 42327
DB 147, PG 241

42-13B
Gerald A. Hayden
7650 KY 1046, Calhoun, KY 42327
DB 147, PG 245

42-14
Ray & Elna Hayden
1868 KY 136 E, Calhoun, KY 42327
DB 109, PG 353

42-16
Ralph B. & Carol A. Hayden
205 KY 250, Calhoun, KY 42327
DB 118, PG 616

42-16B
Ralph B. & Carol A. Hayden
205 KY 250, Calhoun, KY 42327
DB 112, PG 466

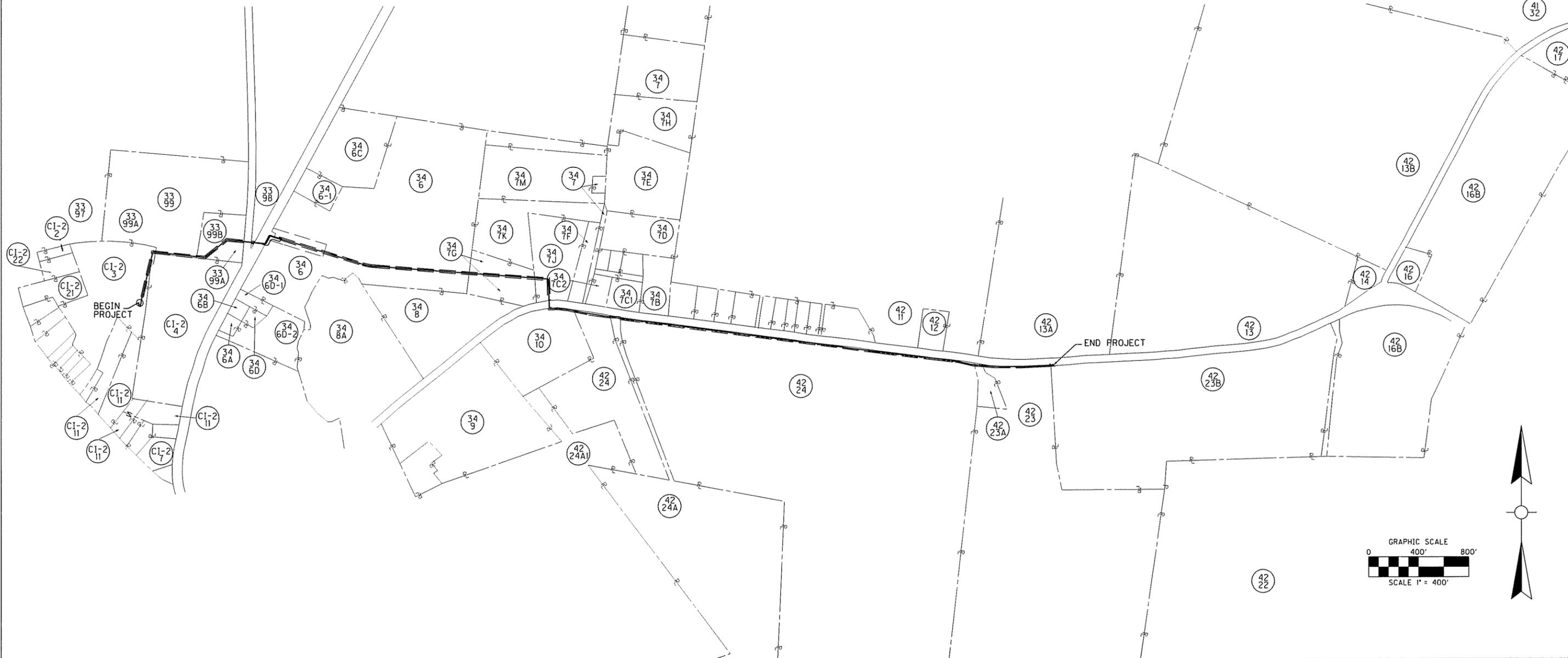
42-23
James C. Bickett
4610 KY 81, Owensboro, KY 42301
DB 104, PG 83

42-23A
Linda & Dewayne Burden
1559 KY 136 E, Calhoun, KY 42327
DB 134, PG 419

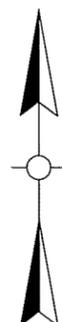
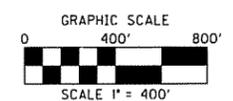
42-23B
McLean Co. Board of Education
DB 68, PG 469

42-24
James C. & Margaret Bickett
4610 KY 81, Owensboro, KY 42301
DB 156, PG 602

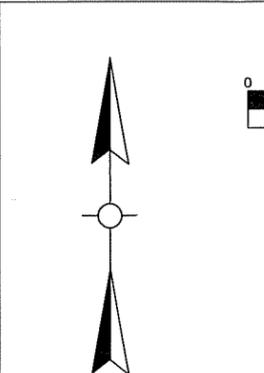
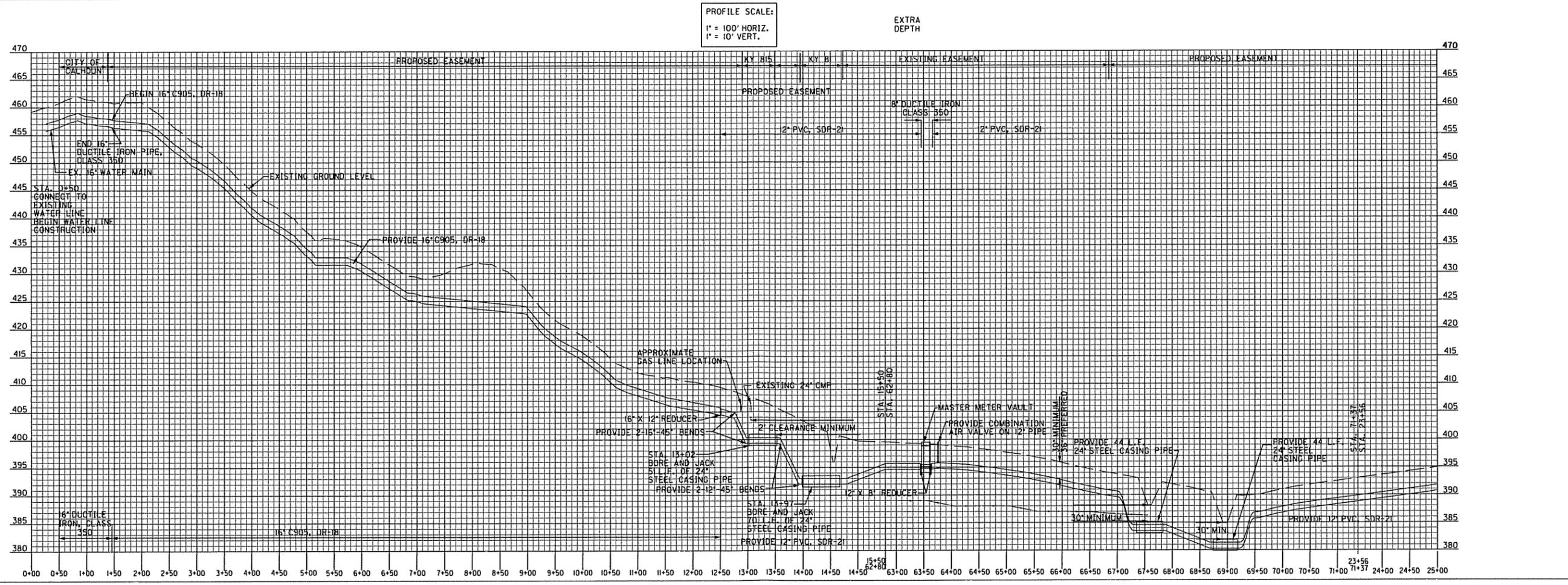
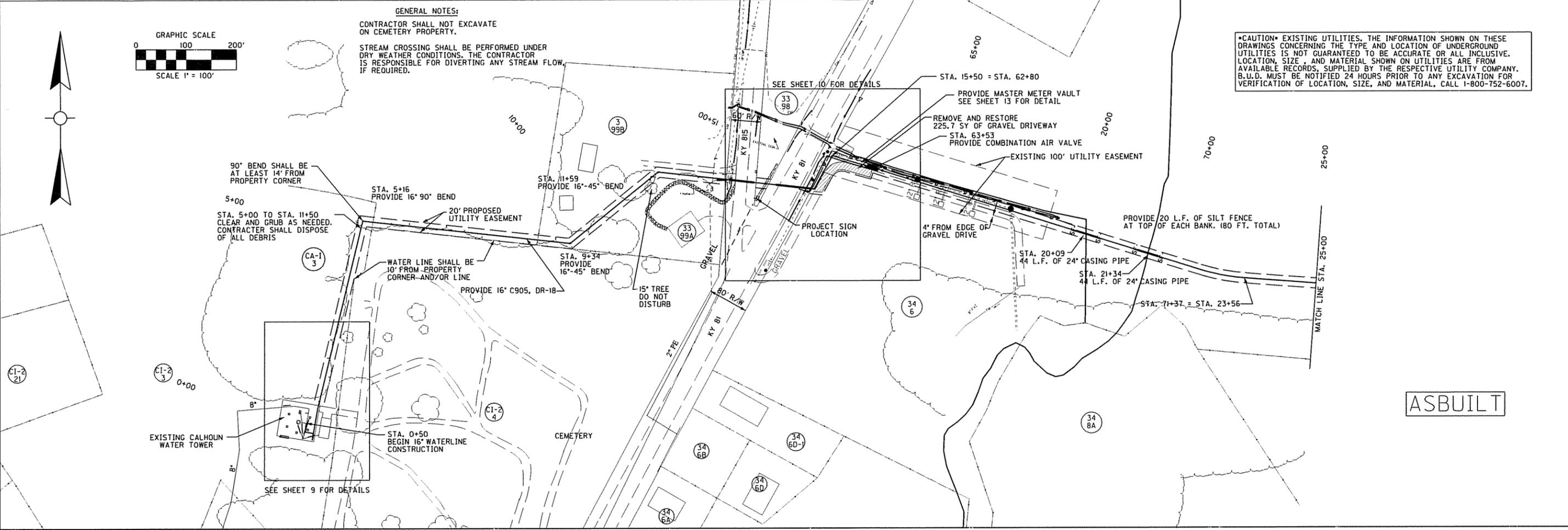
42-24A
McLean Co. & City of Calhoun
DB 169, PG 279



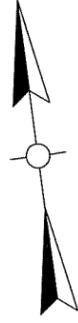
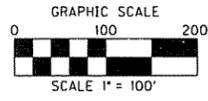
ASBUILT



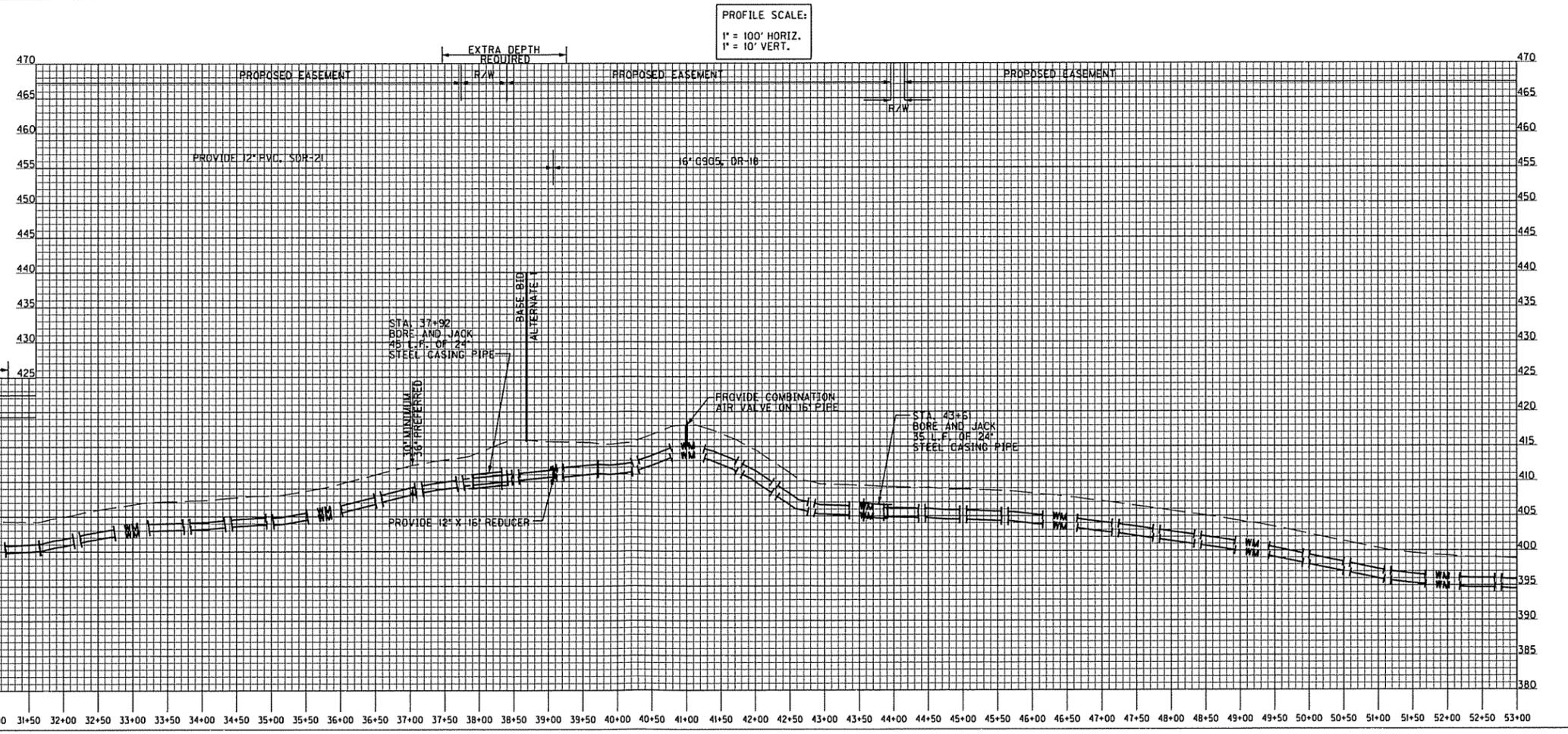
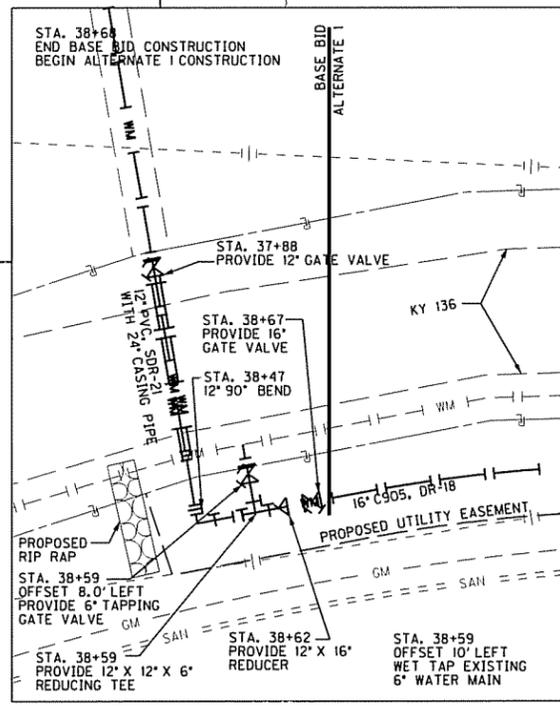
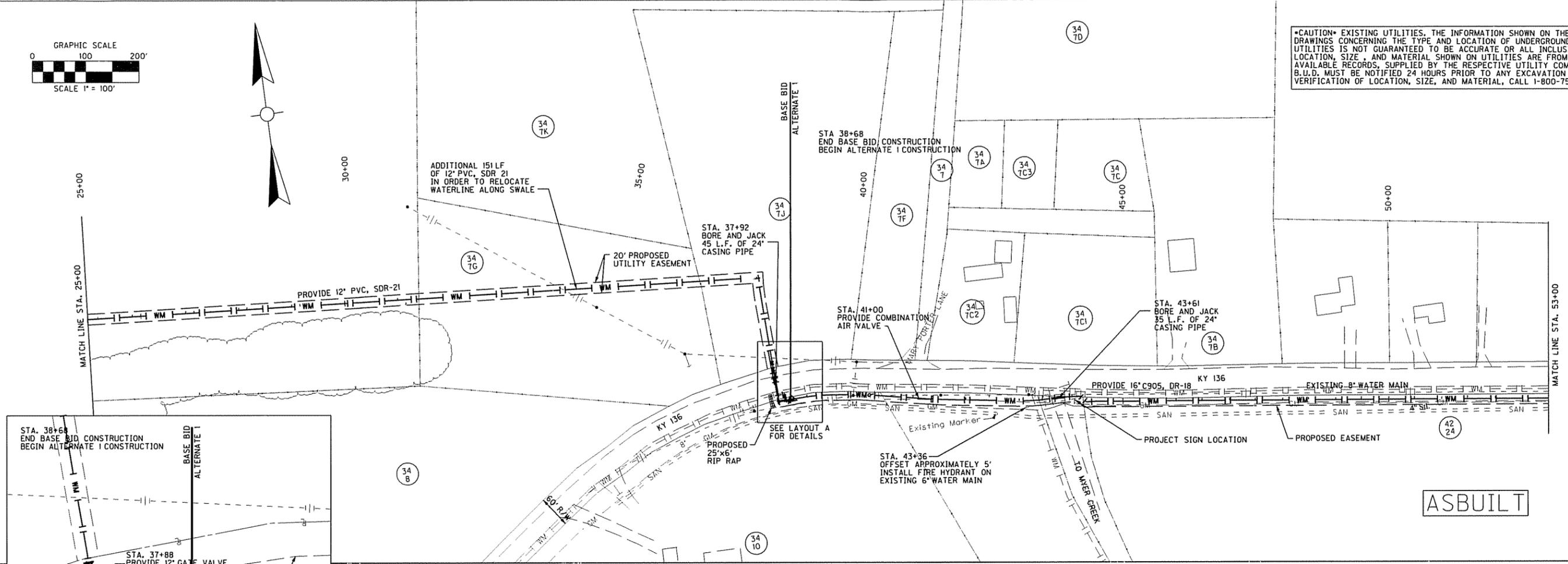
DLZ KENTUCKY, INC. 201 BRIGHTON PARK BLVD. FRANKFORT, KY 40601 (502) 695-2300 (Fax) 695-1497	
MCLEAN COUNTY FISCAL COURT 210 MAIN ST. PO BOX 127 CALHOUN, KY 42327 (270) 273-3213	
KY 136/ KY 250 WATER LINE CONSTRUCTION PROJECT SUMMARY ASBUILT	
DATE: 8/4/2009	SHEET: 3
DRAWN BY: RRC	CHECKED BY: MCH
BY:	JOB NO.: 083100300
DESCRIPTION:	SCALE: 400'
NO.:	
DATE:	



DLZ KENTUCKY, INC. 201 BRIGHTON PARK BLVD. FRANKFORT, KY 40601 (502) 695-2300 (Fax) 695-1497	
McLEAN COUNTY FISCAL COURT 210 MAIN ST. PO BOX 127 CALHOUN, KY 42327 (270) 273-3213	
KY 136/ KY 250 WATER LINE CONSTRUCTION PLAN AND PROFILE SHEET STA. 0+50 TO 25+00 ASBUILT	
DRAWN BY: RRC	DATE: 8/4/2009
CHECKED BY: MCH	SCALE: 1" = 100' SHEET: 4
JOB NO.: 0831000300	
NO. DATE	DESCRIPTION



CAUTION EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.U.D. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL, CALL 1-800-752-6007.



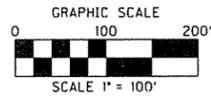
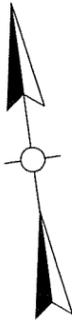
DLZ KENTUCKY, INC.
 201 BRIGHTON PARK BLVD.
 FRANKFORT, KY 40601
 (502) 695-2300 (Fax) 695-1497

MCLEAN COUNTY FISCAL COURT
 210 MAIN ST.
 PO BOX 127
 CALHOUN, KY 42327
 (270) 273-3213

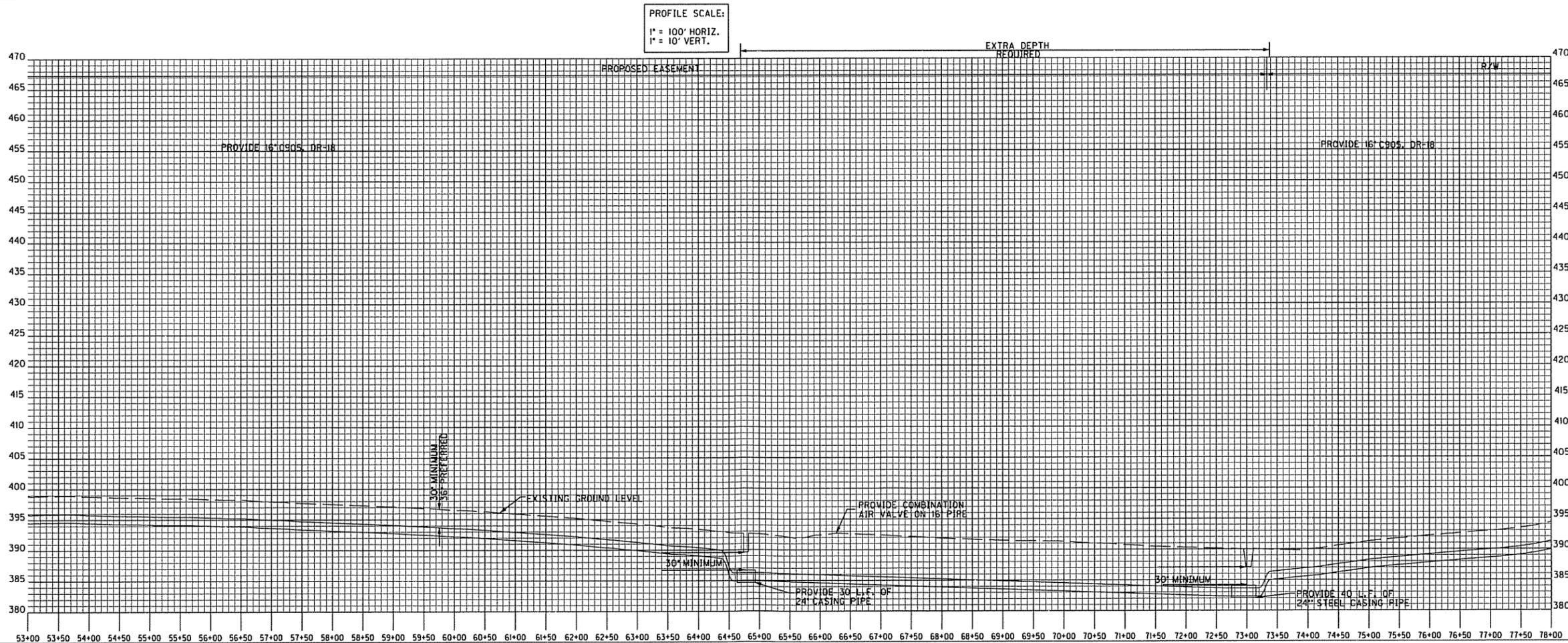
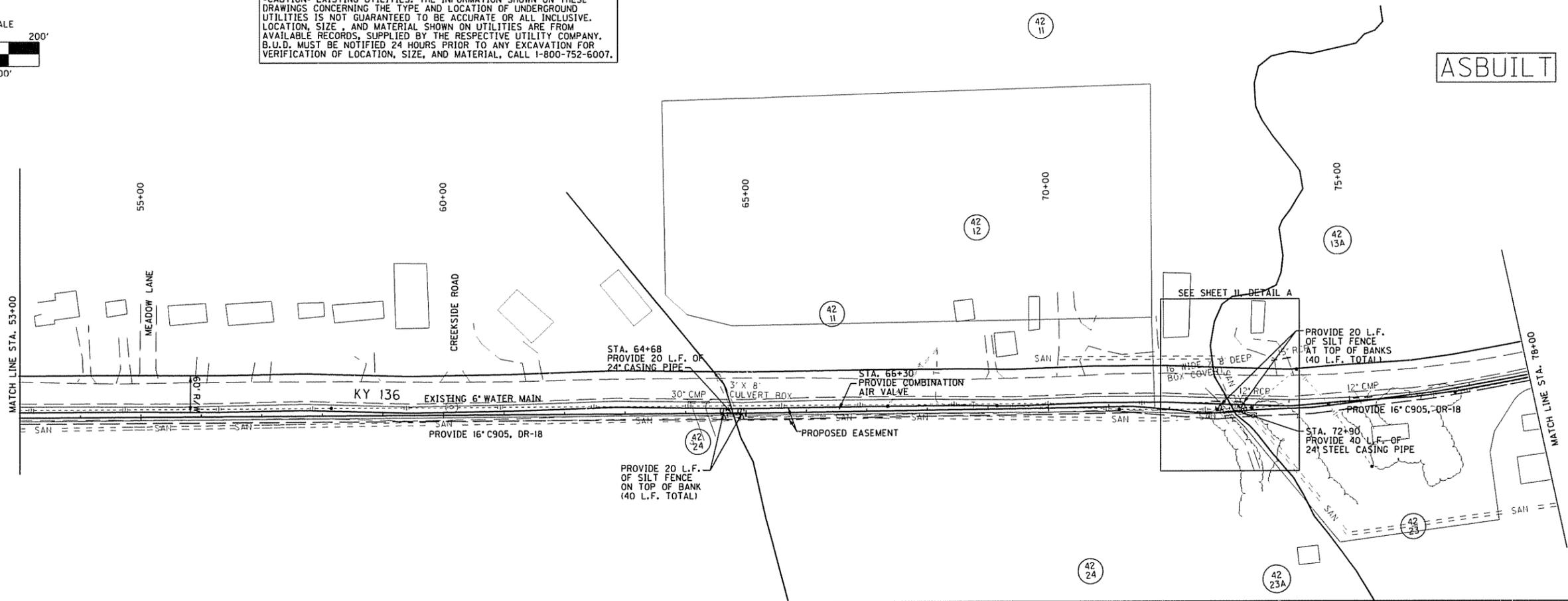
KY 136/ KY 250
 WATER LINE CONSTRUCTION
 PLAN AND PROFILE SHEET
 STA. 25+00 TO 53+00
 ASBUILT

DATE:	8/4/2009
DRAWN BY:	RRC
CHECKED BY:	MCH
JOB NO.:	0831000300
SCALE:	1" = 100'
SHEET:	5

NO.	DATE	DESCRIPTION



CAUTION: EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.U.D. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL, CALL 1-800-752-6007.



DLZ KENTUCKY, INC.
201 BRIGHTON PARK BLVD.
FRANKFORT, KY 40601
(502) 695-2300 (Fax) 695-1497

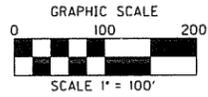
MCLEAN COUNTY FISCAL COURT
210 MAIN ST.
PO BOX 127
CALHOUN, KY 42327
(270) 273-3213

DATE: 8/4/2009
SCALE: 1" = 100'
SHEET: 6

DRAWN BY: RRC
CHECKED BY: MCH
JOB NO.: 0831000300

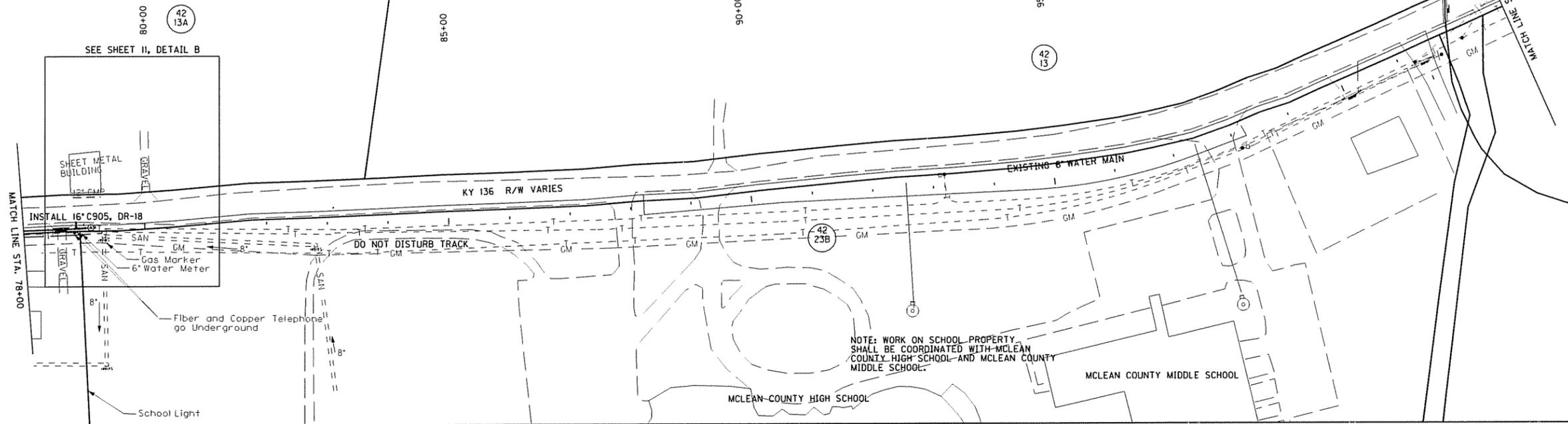
NO.	DATE	DESCRIPTION

KY 136/ KY 250
WATER LINE CONSTRUCTION
PLAN AND PROFILE SHEET
STA. 53+00 TO 78+00
ASBUILT

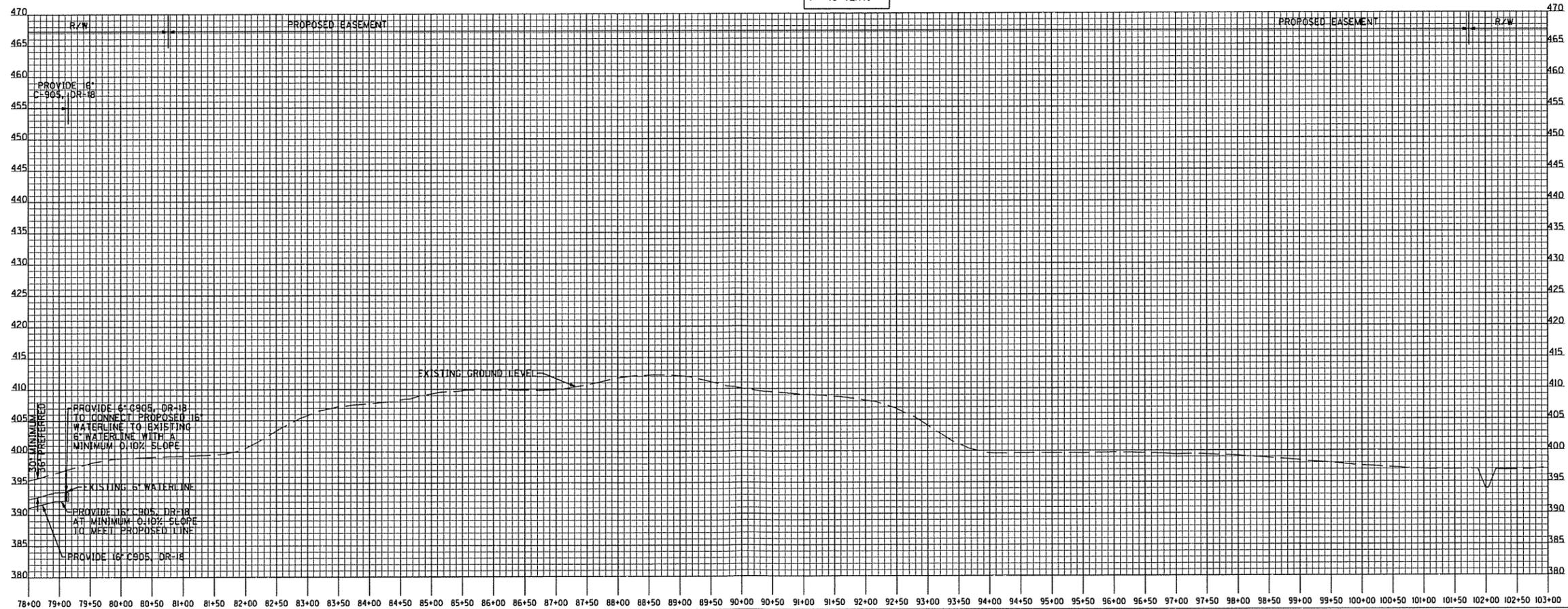


•CAUTION• EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.U.D. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL, CALL 1-800-752-6007.

ASBUILT



PROFILE SCALE:
1" = 100' HORIZ.
1" = 10' VERT.



DLZ KENTUCKY, INC.
201 BRIGHTON PARK BLVD.
FRANKFORT, KY 40601
(502) 695-2300 (Fax) 695-1497

MCLEAN COUNTY FISCAL COURT
210 MAIN ST.
PO BOX 127
CALHOUN, KY 42327
(270) 273-3213

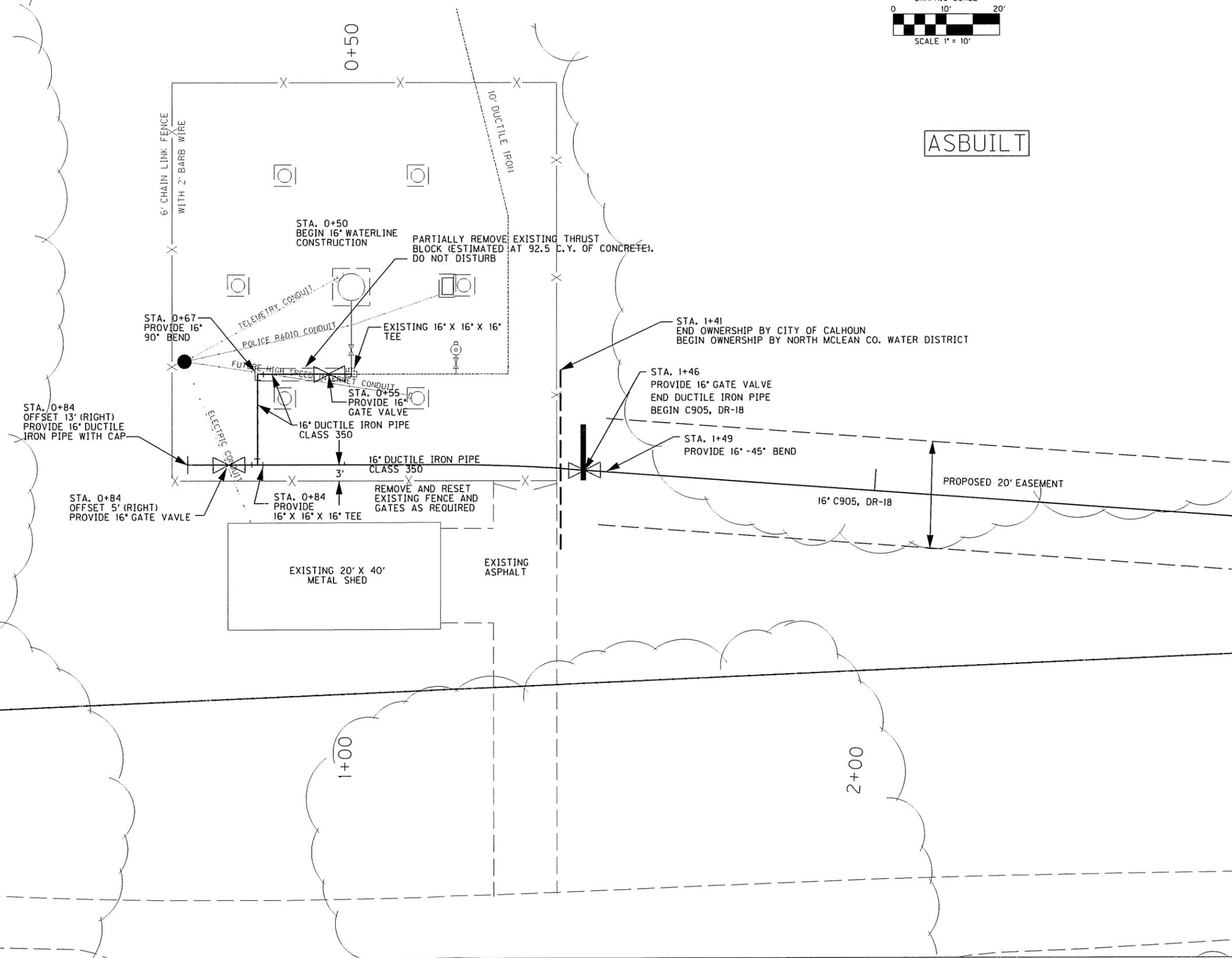
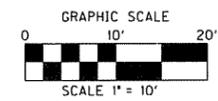
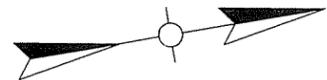
KY 136/ KY 250
WATER LINE CONSTRUCTION
PLAN AND PROFILE SHEET
STA. 78+00 TO 103+00
ASBUILT

DATE: 8/4/2009
SCALE: 1" = 100'
SHEET: 7

DRAWN BY: RRC
CHECKED BY: MCH
JOB NO.: 0831000300

NO.	DATE	DESCRIPTION	BY

•CAUTION• EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.U.D. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL, CALL 1-800-752-6007.



ASBUILT

DLZ KENTUCKY, INC.
 201 BRIGHTON PARK BLVD.
 FRANKFORT, KY 40601
 (502) 685-2500 (Fax) 685-1497



MCLEAN COUNTY FISCAL COURT
 210 MAIN ST.
 PO BOX 127
 CALHOUN, KY 42327
 (270) 273-3213

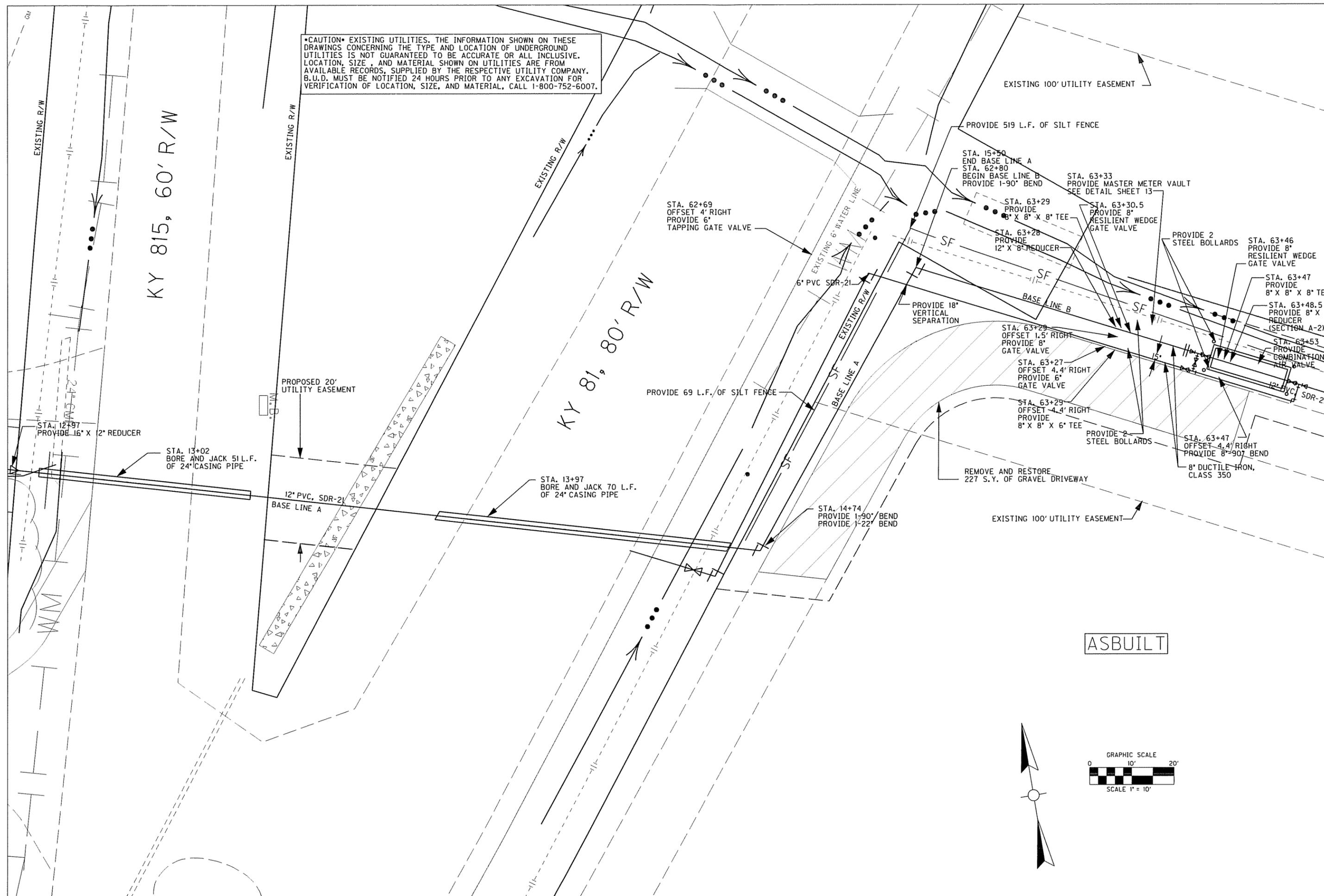
KY 136/ KY 250
 WATER LINE CONSTRUCTION
 WATER TANK DETAIL
 ASBUILT

DATE: 8/4/2009
 SCALE: 1" = 10'
 SHEET: 9

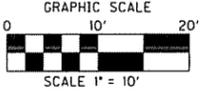
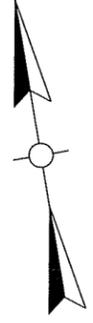
DRAWN BY: RRC
 CHECKED BY: MCH
 JOB NO.: 0831000300

NO.	DATE	DESCRIPTION	BY

•CAUTION• EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.U.D. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL, CALL 1-800-752-6007.



ASBUILT



MCLEAN COUNTY FISCAL COURT
210 MAIN ST.
PO BOX 127
CALHOUN, KY 42327
(270) 273-3213

KY 136/ KY 250
WATER LINE CONSTRUCTION
KY 815 / KY 81 CROSSING DETAIL
ASBUILT

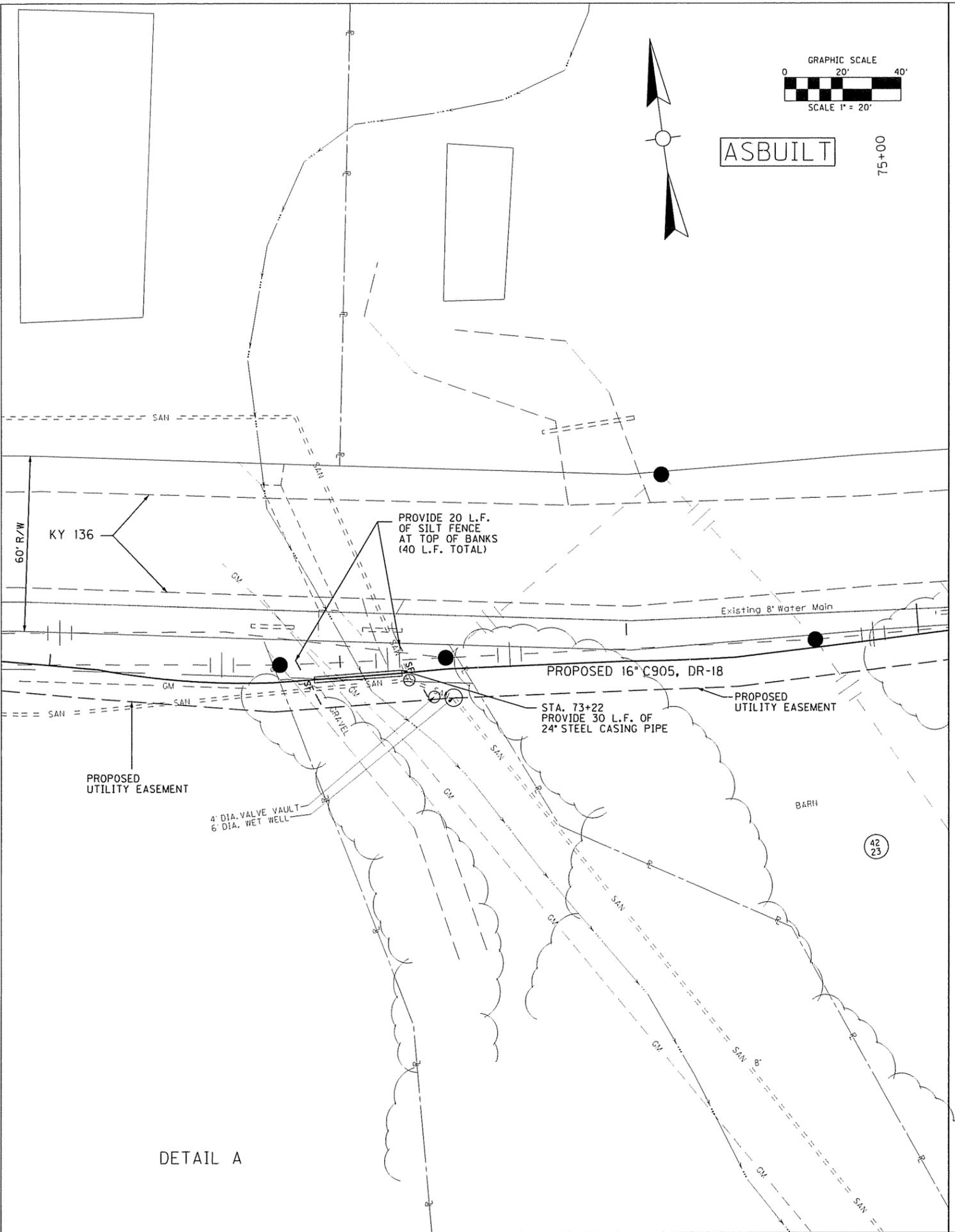
DATE: 8/4/2009
DRAWN BY: RRC
CHECKED BY: MCH
JOB NO.: 0831000300

NO.	DATE	DESCRIPTION

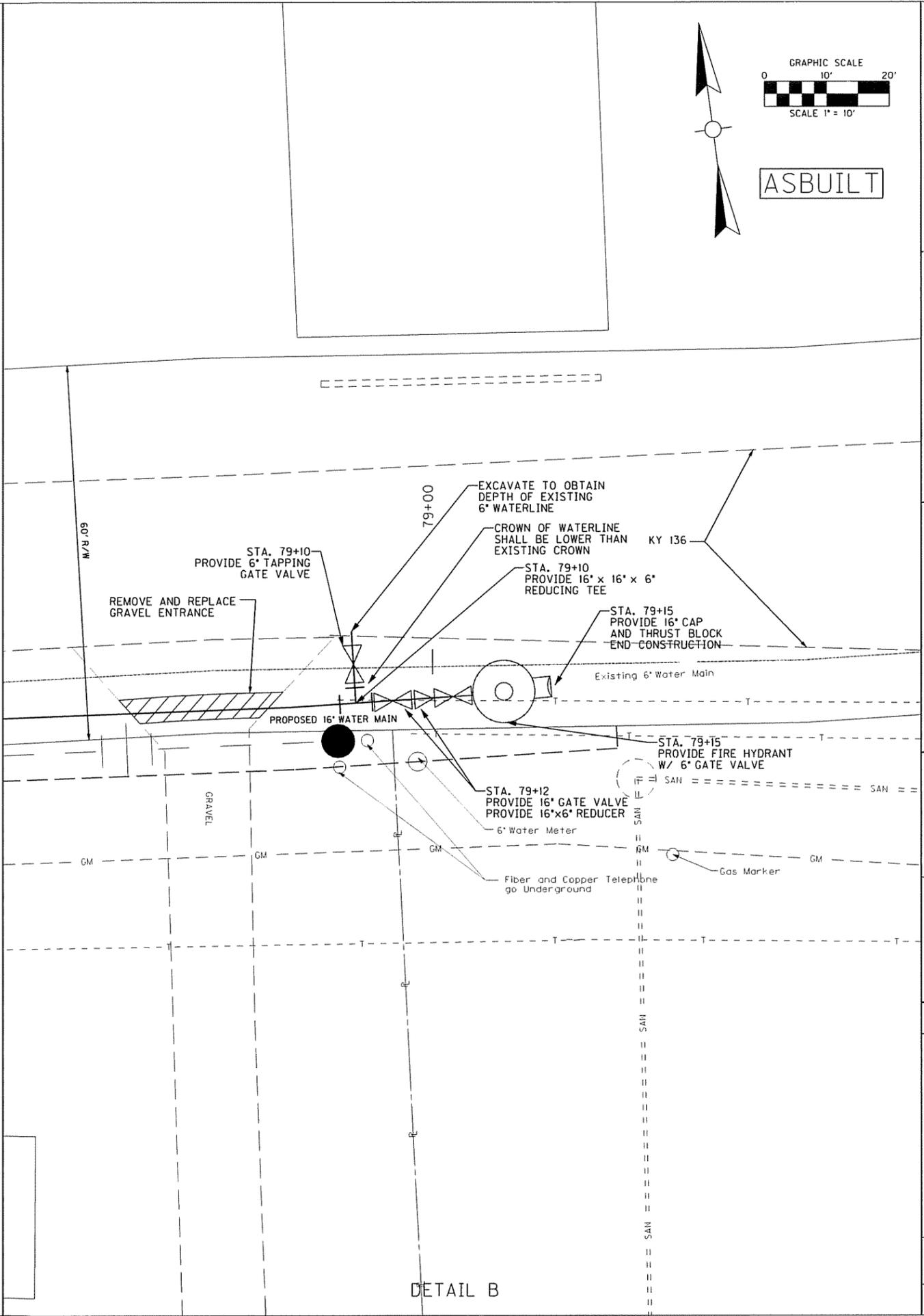
SHEET: 10

SCALE: 1" = 20'

DATE: 8/4/2009

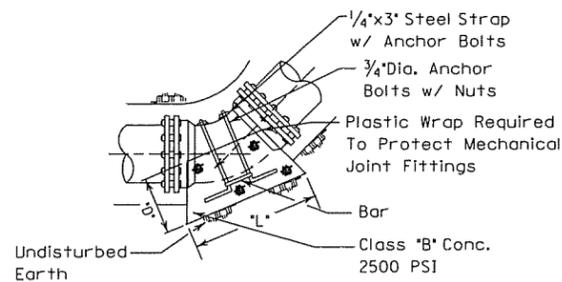


DETAIL A

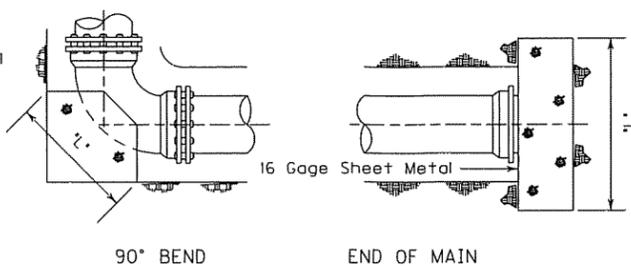
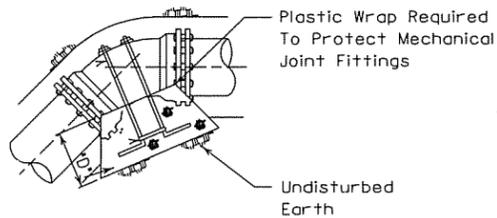


DETAIL B

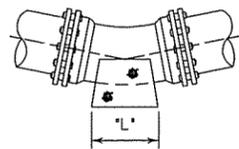
DLZ KENTUCKY, INC. 201 BRIGHTON PARK BLVD. FRANKFORT, KY 40601 (502) 695-2500 (Fax) 695-1497	McLEAN COUNTY FISCAL COURT 210 MAIN ST. PO BOX 127 CALHOUN, KY 42327 (270) 273-3213	DATE: 8/4/2009	SCALE: AS SHOWN	SHEET: II
KY 136/ KY 250 WATER LINE CONSTRUCTION		DRAWN BY: RRC	CHECKED BY: MCH	JOB NO.: 083000300
MULTIPLE SITE DETAIL SHEET ASBUILT		BY:	DESCRIPTION:	NO.:



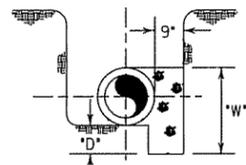
VERTICAL BEND



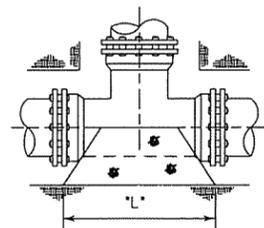
NOTE: Megalugs Are Required



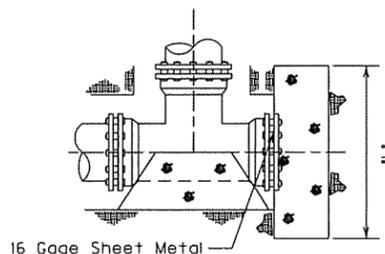
HORIZONTAL BEND
11 1/4", 22 1/2" AND 45° BEND



SECTION (TYP.)



TEE



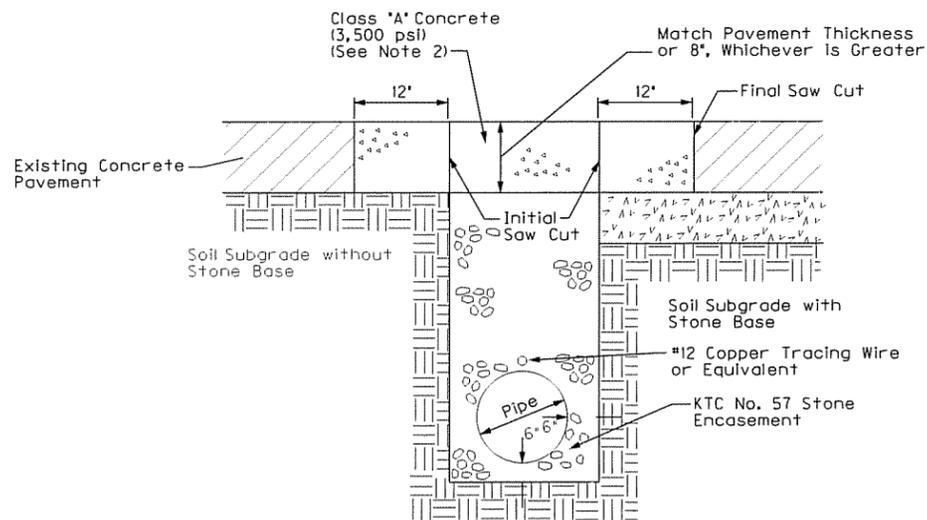
PLUGGED TEE

ASBUILT

- Notes:
- Concrete Shall Rest On Undisturbed Earth And Cured In Place.
 - The Use Of Precast Concrete Blocks May Be Used, But Must Be Encased In At Least 4" Of Concrete Cured In Place.

WATER MAIN THRUST BLOCKS

PIPE SIZE	90° BEND			45° BEND			22 1/2° BEND			11 1/4° BEND			TEE, CAP. & VALVES		
	D	W	L	D	W	L	D	W	L	D	W	L	D	W	L
2"	6"	10"	4"	4"	7"	3"	4"	7"	3"	4"	7"	3"	6"	10"	4"
3"	6"	10"	8"	4"	8"	6"	4"	8"	3"	4"	8"	3"	6"	10"	6"
4"	6"	11"	9"	6"	11"	7"	4"	9"	5"	4"	9"	3"	6"	11"	8"
6"	8"	15"	13"	6"	13"	12"	4"	11"	8"	4"	11"	4"	8"	15"	10"
8"	10"	21"	19"	8"	17"	17"	6"	15"	10"	4"	13"	6"	10"	21"	21"
10"	10"	23"	29"	8"	20"	22"	6"	17"	13"	6"	17"	7"	10"	23"	30"
12"	12"	27"	31"	10"	24"	27"	10"	23"	14"	6"	19"	9"	12"	27"	36"
14"	14"	31"	38"	13"	29"	31"	12"	27"	17"	6"	21"	12"	14"	31"	42"
16"	15"	34"	44"	15"	33"	36"	14"	31"	19"	8"	25"	13"	17"	36"	48"
18"	21"	42"	45"	18"	38"	39"	17"	36"	21"	10"	29"	14"	21"	41"	54"
20"	22"	45"	53"	21"	43"	42"	18"	39"	24"	10"	31"	16"	22"	44"	60"

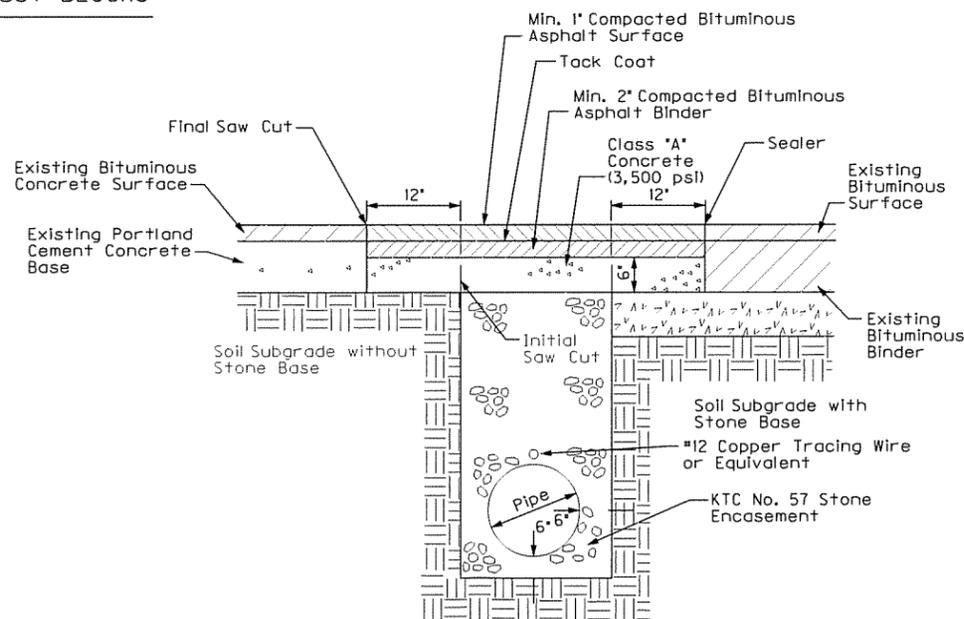


The final saw cut shall be made a distance of 12 inches beyond the trench, after trench excavation and backfill are complete, and immediately prior to placing concrete. If the distance from the edge of the trench to an existing break or joint is less than 4 feet, the final saw cut shall be located at the existing break or joint.

Concrete cap to be 8 inches or greater. If the existing pavement section is less than 8 inches thick, excavation of underlying stone base or soil subgrade will be required to provide the specific thickness.

The contractor shall be responsible during the ensuing five years for proper backfilling and replacement of the surface. During the five year period any pavement settlement shall be immediately replaced by the contractor at the expense of the contractor.

STREET CROSSING
CONCRETE PAVEMENT RESTORATION



The final saw cut shall be made a distance of 12 inches beyond the trench, after trench excavation and backfill are complete, and immediately prior to placing concrete.

Tack material consisting of emulsified asphalt SS-1h shall be placed on the surface of the bituminous base at the rate of 0.1 gallon per square yard.

Pavement joints shall be sealed with an approved joint sealant after placement of bituminous concrete surface.

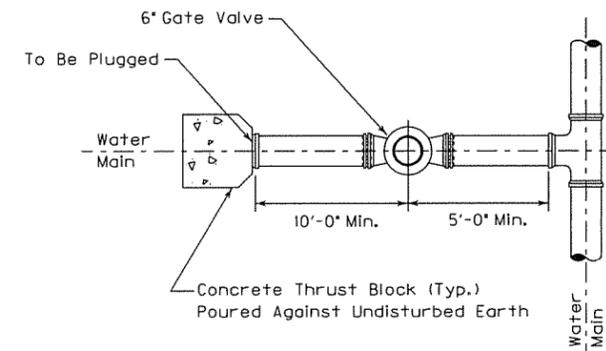
The contractor shall be responsible during the ensuing five years for proper backfilling and replacement of the surface. During the five year period any pavement settlement shall be immediately replaced by the contractor at the expense of the contractor. Match existing pavement structure or a minimum of:

- Asphalt surface - 1"
- Asphalt base - 2"
- Base - 6"

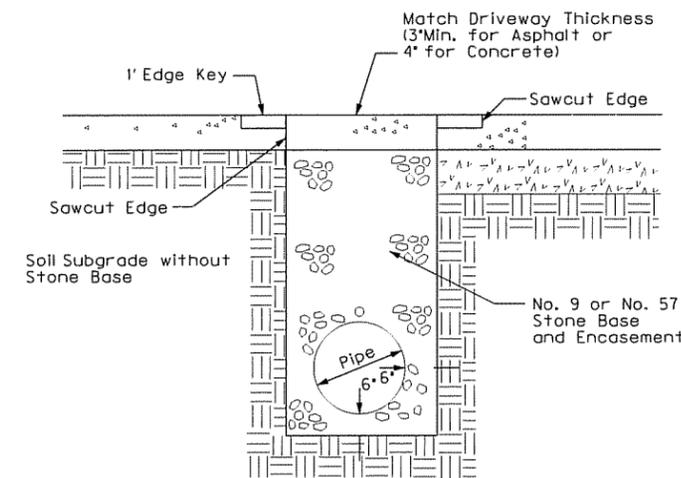
STREET CROSSING
BITUMINOUS CONCRETE PAVEMENT RESTORATION

NOTES

- Water main pipe to be P.V.C SDR-21 and approved for potable water systems by the National Sanitation Foundation and bearing the NSF stamp unless other material is called for on the plans. P.V.C. pipe is to be joined by a rubber gasket bell joint except at fittings. Fitting and pipe joints are to be megalugs as are pipe and valve joints.
- Fittings used with P.V.C. mains shall be ductile iron conforming to the requirements of AWWA C-110 with megalug joints. Fittings shall have a minimum pressure rating of 150 psi and shall be provided with cement linings complying with AWWA C-104 or latest revision. Fittings shall be tar-coated outside. Where valves are fitted directly to a mainline tee, the tee is to be a megalug joint anchoring tee.
- GATE VALVES - 4" AND LARGER: Mueller (or approved alternative) resilient wedge gate valve, modified wedge disc. type, suitable for direct earth burial, suitable for mechanical joint and to comply with AWWA Specifications.
- GATE VALVES - UNDER 4": Bronze Body 150 p.s.i. working pressure Wedge Disc.
- All valves of each size classification must be of the same manufacture and contractor is to furnish owner with one T-handle socket wrench for each size of operating nut on valves and hydrants installed.
- MINIMUM COVER: All mains to have 30" minimum cover and all service lines to have 24" minimum cover.
- All water mains of non-ferrous material shall have a 2 inch wide metallic backed tape (suitable for elec/mag. tracing of mains) or #12 copper tracing wire.

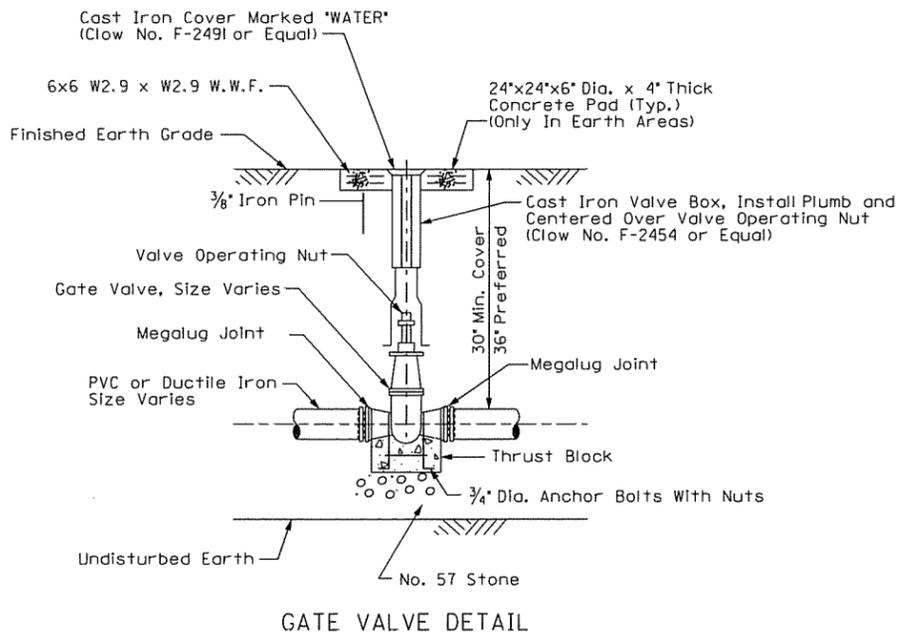


TYPICAL STUBOUT DETAIL

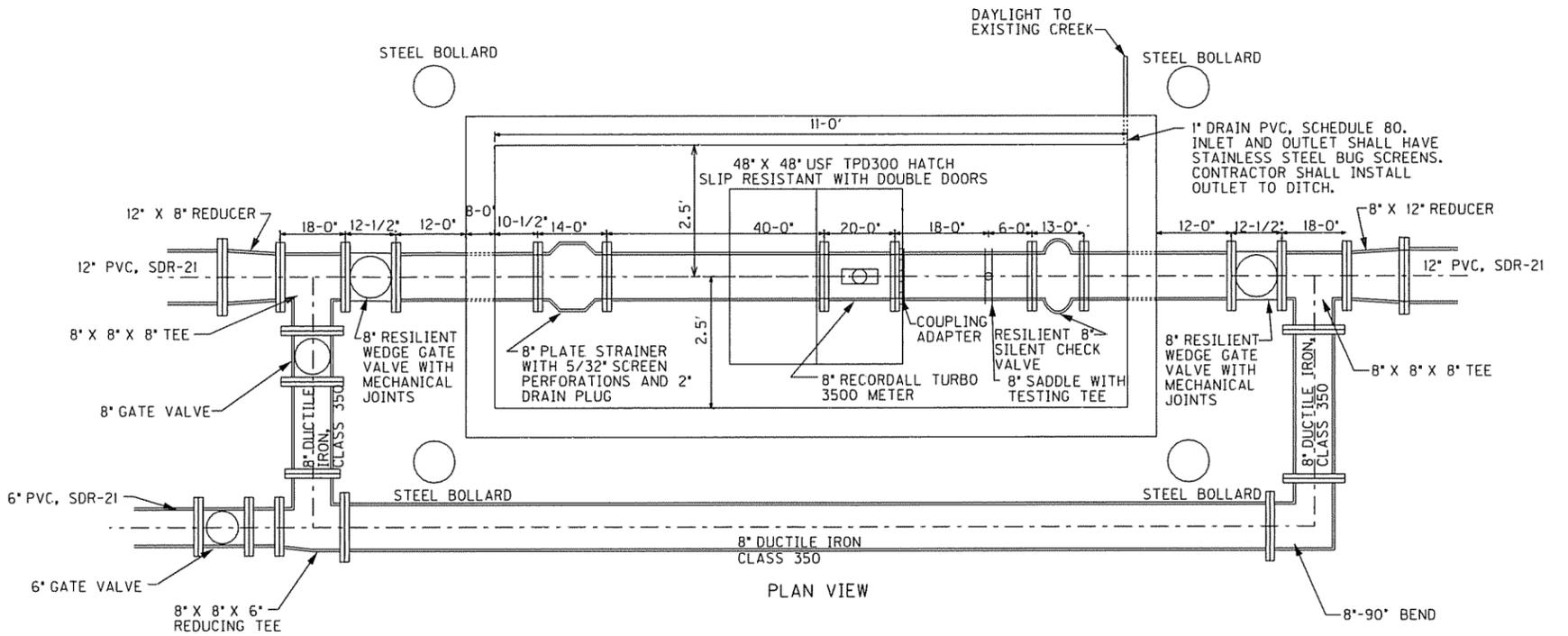


DRIVEWAY PAVEMENT RESTORATION

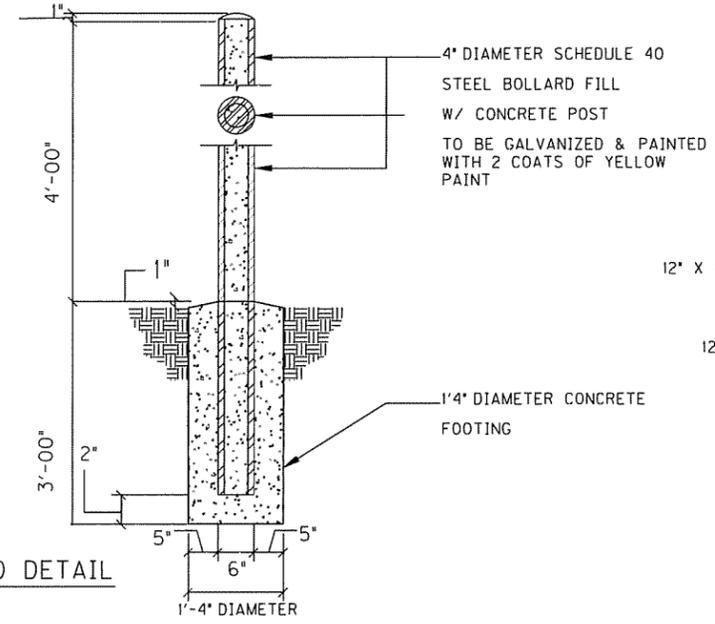
NO.	DATE	DESCRIPTION



GATE VALVE DETAIL

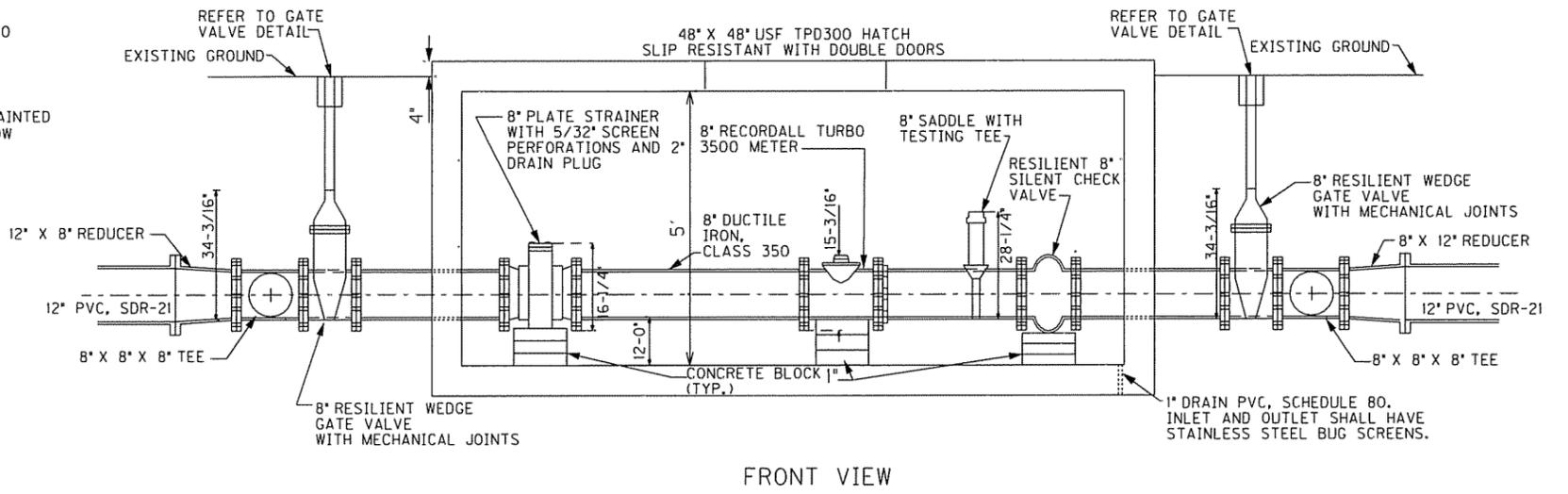


PLAN VIEW



STEEL BOLLARD DETAIL

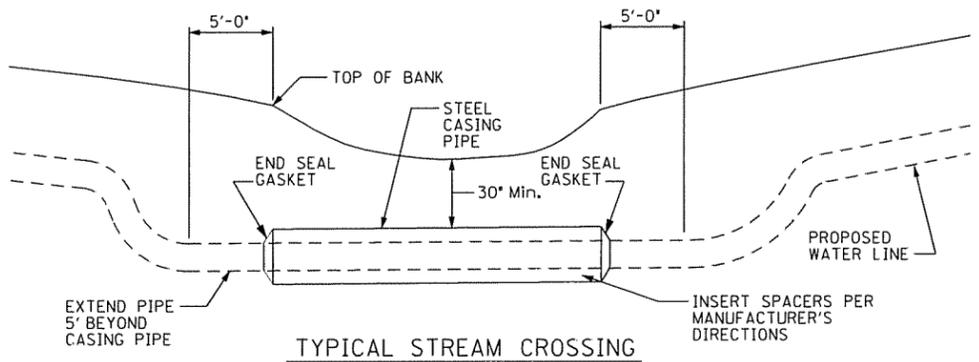
ASBUILT



FRONT VIEW

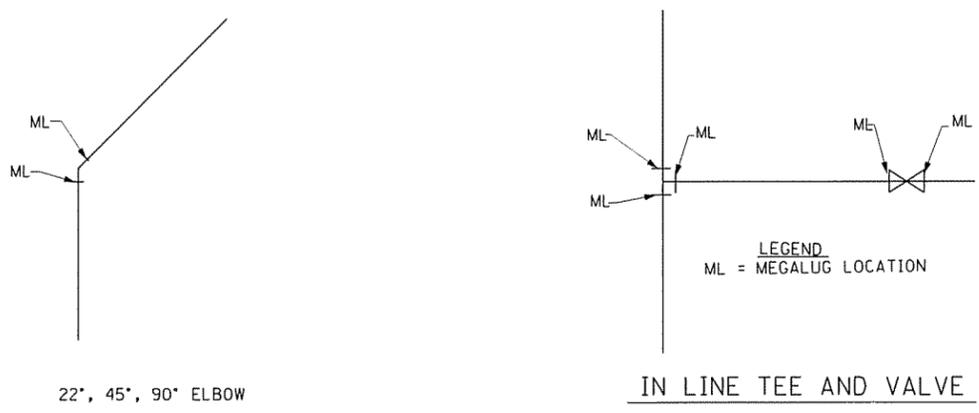
NOTE: ALL PIPES INSIDE THE MASTER METER VAULT SHALL BE DUCTILE IRON PIPE.

MASTER METER VAULT DETAIL



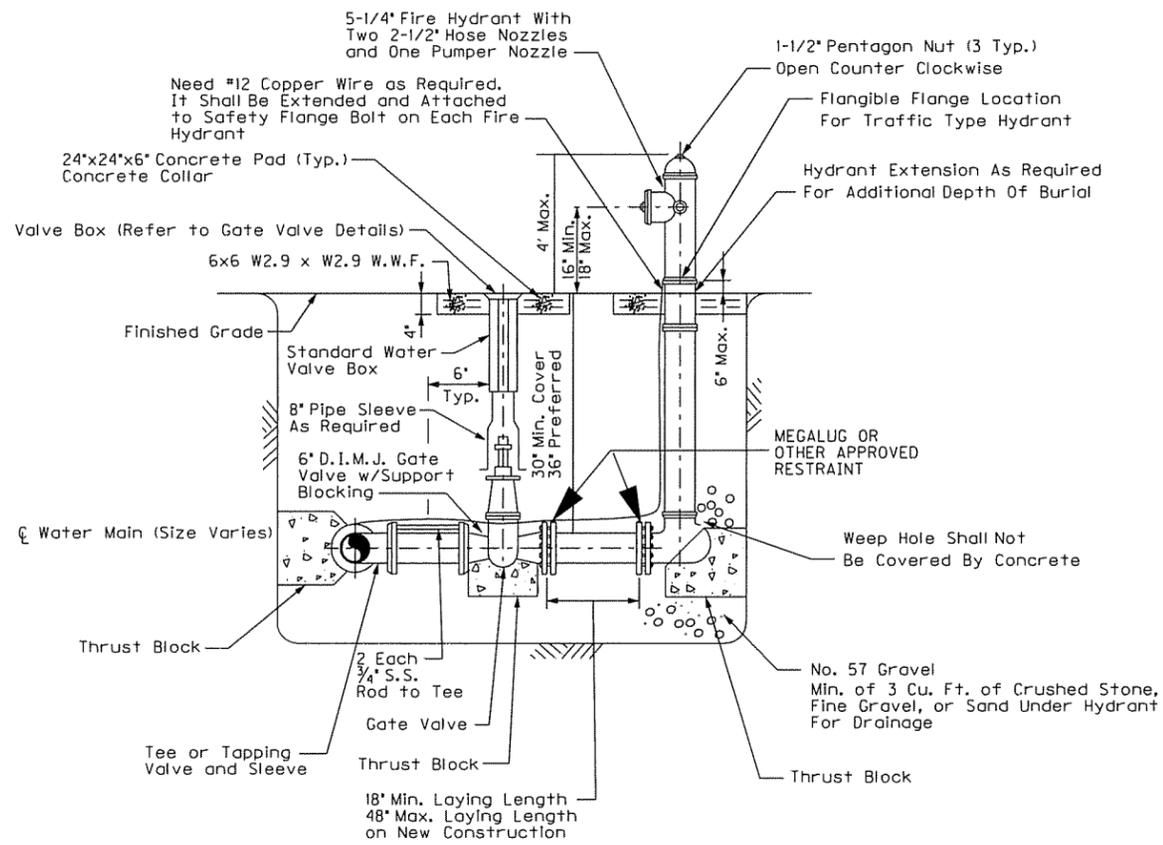
TYPICAL STREAM CROSSING

PIPE SIZE	ALLOWABLE DEFLECTION RISE : RUN (IN : FT)

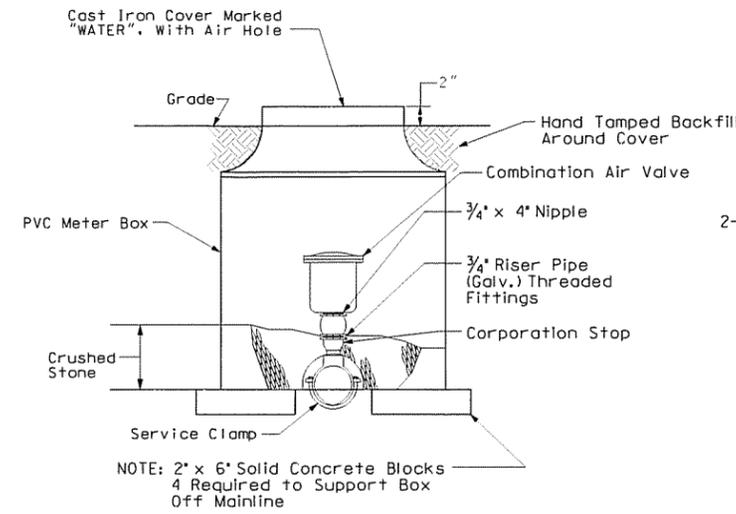


MEGALUG LOCATION DETAIL

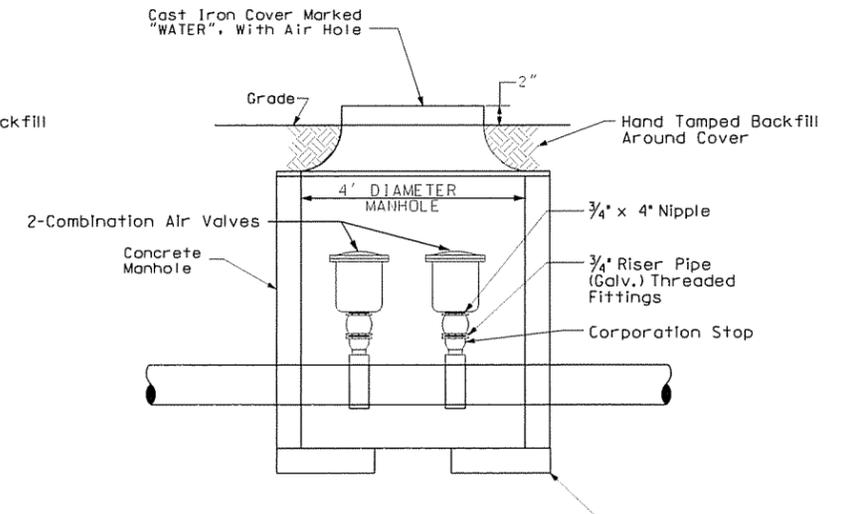
NO.	DATE	DESCRIPTION



FIRE HYDRANT ASSEMBLY

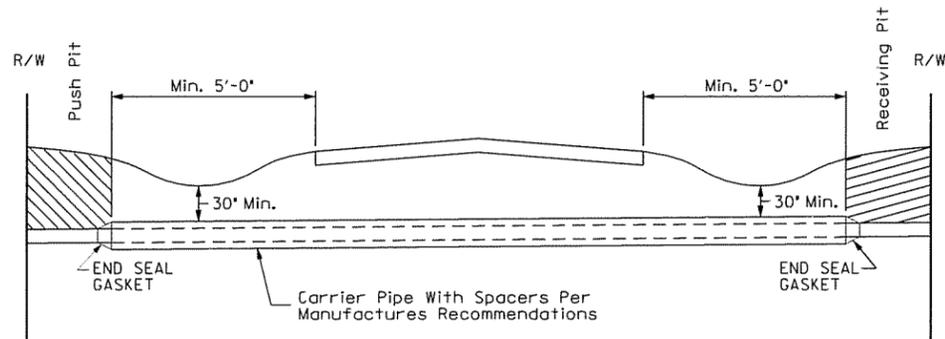


**AIR COMBINATION VALVE
FOR 8" AND SMALLER WATER LINES**



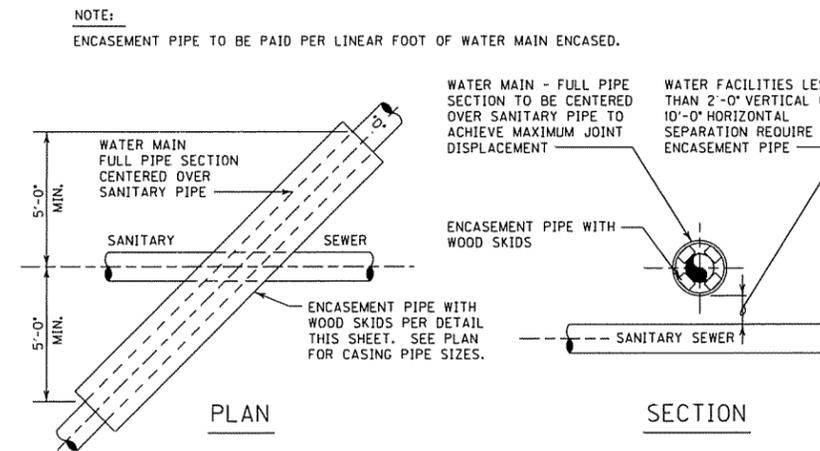
**AIR RELEASE VALVE
FOR 10" AND LARGER WATER LINES**

ASBUILT



1. Push pit and receiving pit to be backfilled and thoroughly compacted.
2. All ditch lines to be left open.
3. Seed and straw all areas disturbed by this work.

TYPICAL HIGHWAY BORING CROSSING



**WATER / SANITARY SEWER
CROSSING - ENCASEMENT**

NO.	DATE	DESCRIPTION

McLEAN COUNTY FISCAL COURT

JUDGE EXECUTIVE: LARRY WHITAKER

MAGISTRATE: MATT HAYDEN

MAGISTRATE: KENNY WILSON

MAGISTRATE: BOBBY JOHNSON

MAGISTRATE: JIMMY IGLEHEART



KY136 / KY250 WATER LINE

COST: \$00,000

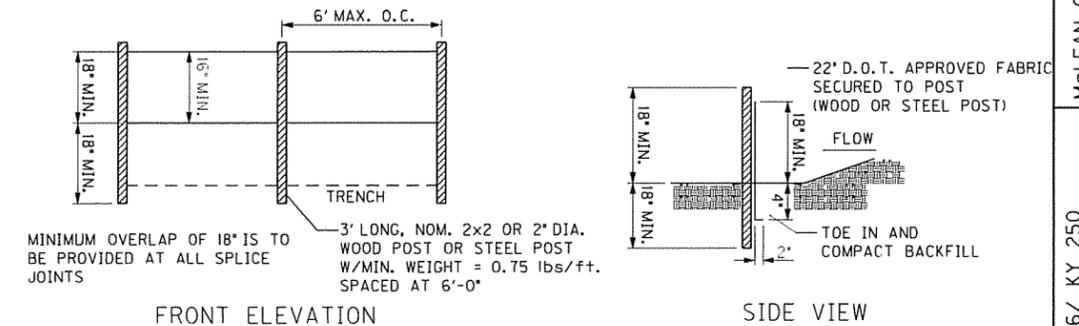
**PAID FOR BY COAL SEVERANCE FUNDS
AND TOBACCO SEVERANCE FUNDS**

NOTES:

1. Sign will be good quality plywood - 3/4" MDO or equal.
2. Border and letters shall be blue (925 Federal Safety Blue), high gloss.
3. Background board shall be white, (2766 high gloss white).
4. Letters may be painted or vinyl die-cut.
5. Letter type will be Helvetica light italic and Helvetica compact.
6. Mount sign on two 4"x4" wooden posts painted same white.

ASBUILT

WATER PROJECT ADVERTISEMENT SIGN



Silt Fence Detail

Installation:

The fence should be placed across the slope along a line of uniform elevation (perpendicular to the direction of flow). The fence should be located at least 10- feet from the slopes to provide sediment storage and access for maintenance and cleanout.

A flat-bottom trench approximately 4- inches wide and 8- inches deep, or a v- shaped trench 8- inches deep should be excavated. On the downslope side of the trench, drive the 2- inch, X 2- inch posts at least 18- inches into the ground, spacing them no further than 6- feet apart.

Posts should be installed, with 1- to 2- inches of the posts protruding above the top of the fabric and no more than 3- feet of the post should protrude above the ground. The minimum fence height (height of filter fabric above ground) shall be 18- inches. The maximum fence height (height of filter above ground) shall be 24- inches.

The filter fabric should be purchased in a continuous roll and cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth should be wrapped together only at a support post with ends securely fastened to the post, with a minimum 6- inch overlap.

Extra- strength filter cloth (50 pounds/ linear inch minimum tensile strength) should be used. A 2- inch wide (at least) shall be stapled over the filter fabric to securely fasten it to the upslope side of the posts. The staples used should be 1.5- inch heavy- duty wire staples spaced a maximum of 8- inches apart.

Place the bottom 12- inches of the filter fabric into the 8- inch deep trench, extending the remaining 4- inches towards the up- slope side of the trench and backfill the trench with soil or gravel and compact.

Inspection and Maintenance

Inspect silt fence every seven (7) calendar days and within 24- hours after each rainfall event that produces .5- inches or more of precipitation. Check for areas where runoff has eroded a channel beneath the fence, or where the fence was caused to sag or collapse by runoff overtopping the fence.

If the fence fabric tears, begins to decompose, or any way becomes ineffective, replace the affected section of the fence immediately.

Sediment must be removed when it reaches approximately 1/3 the height of the fence, especially if heavy rains are expected.

Silt fence should be removed within 30 days after final site stabilization is achieved or after temporary BMPs are no longer needed. Trapped sediment should be removed or stabilized on site. Disturbed areas resulting from fence removal shall be permanently stabilized.

SILT FENCE

N.T.S.



DLZ KENTUCKY, INC.
201 BRIGHTON PARK BLVD.
FRANKFORT, KY 40601
(502) 695-2300 (Fax) 695-1497

McLEAN COUNTY FISCAL COURT
210 MAIN ST.
PO BOX 127
CALHOUN, KY 42327
(270) 273-3213

KY 136/ KY 250
WATER LINE CONSTRUCTION

DETAIL SHEET
ASBUILT

DATE: 8/4/2009

DRAWN BY: RRC

BY:

DESCRIPTION

NO. DATE

SCALE: N.T.S.

CHECKED BY: MCH

BY:

DESCRIPTION

NO. DATE

SHEET: 15

JOB NO.: 0831000300

BY:

DESCRIPTION

NO. DATE

KY 136 / KY 250 WATER LINE CONSTRUCTION PHASE II

2012-00254
RECEIVED

JUL 26 2012

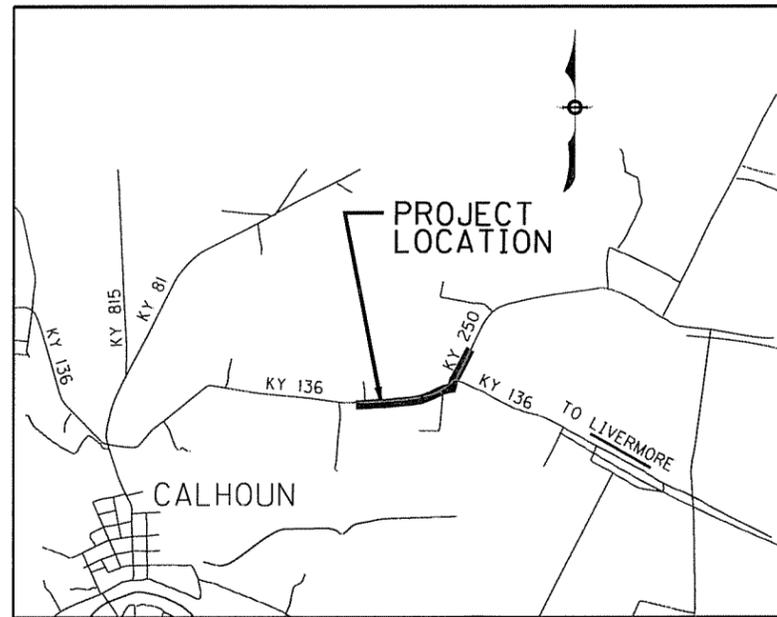
PUBLIC SERVICE
COMMISSION

PREPARED for: North McLean County Water District

NORTH McLEAN WATER DISTRICT

MICHAEL LANTHAM

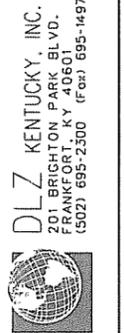
SUPERINTENDENT



LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

SHEET	ITEM
1	COVER SHEET
2	PROJECT SUMMARY / TYPICAL SECTION
3	PLAN AND PROFILE -STA. 79+15 TO 103+00
4	PLAN AND PROFILE -STA. 103+00 TO 116+68
5	DETAIL A AND B
6	DETAIL SHEET
7	DETAIL SHEET
8	DETAIL SHEET



NORTH McLEAN COUNTY
 WATER DISTRICT
 P.O. BOX 68
 217 HILL STREET
 LIVERMORE, KY 42352
 (270) 278-2800

KY 136/ KY 250
 WATER LINE CONSTRUCTION
 PHASE II
 COVER SHEET

DATE:	09/07/2011
SCALE:	N.T.S.
SHEET:	1
DRAWN BY:	RRC
CHECKED BY:	MCH
JOB NO.:	1131003690

NO.	DATE	DESCRIPTION	BY

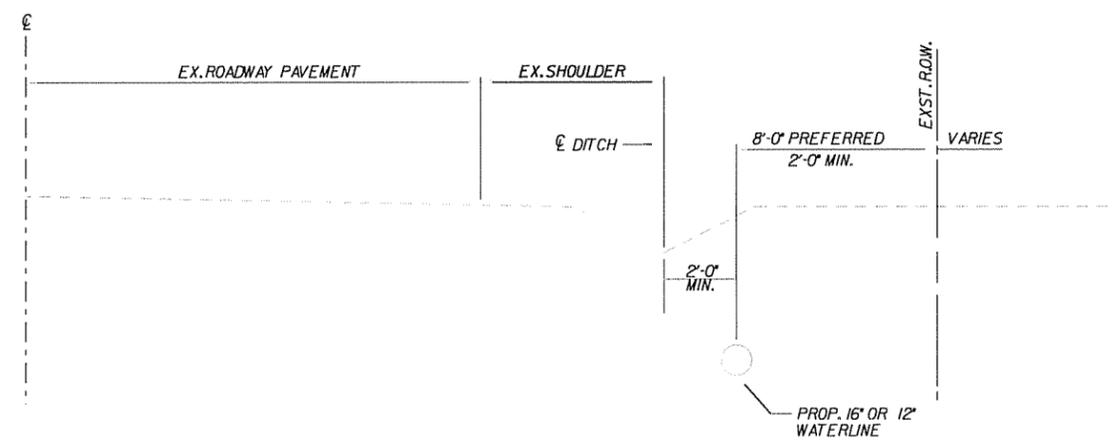
NOTES:

- PROPERTY LINES HAVE BEEN OBTAINED FROM PVA OFFICE AND ARE APPROXIMATE LOCATION OF PROPERTY.
- UTILITY DEPTHS HAVE BEEN ASSUMED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR:
TELEPHONE - 24" DEPTH
GAS - 30" DEPTH
WATER - 36" DEPTH
- WATER MAIN AND SERVICES SHALL BE INSTALLED WITH A MINIMUM COVER OF 30" (36" PREFERRED).
- EXISTING WATER MAIN SIZES WERE PROVIDED BY KY. INFRASTRUCTURE AUTHORITY.
- CONTRACTOR SHALL VERIFY UTILITY LOCATION AND SIZES PRIOR TO ORDERING MATERIALS.
- CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO REMOVAL OF ANY ADDITIONAL TREES NOT NOTED TO BE REMOVED. REMOVAL OF ANY TREES FOR THE CONTRACTOR'S CONVENIENCE WILL NOT BE SUBJECT TO A CHANGE ORDER.
- ADDITIONAL BENDS MAY BE REQUIRED FOR HORIZONTAL AND VERTICAL CLEARANCE WITH EXISTING UTILITIES AND STRUCTURES THAT ARE NOT SHOWN ON PLAN AND PROFILE SHEETS. THESE COSTS WILL BE CONSIDERED INCIDENTAL TO WATER MAIN INSTALLATION.
- A THRUST BLOCK IS REQUIRED FOR EVERY BEND, CAP, TEE, VALVE, FIRE HYDRANT, AND FLUSH HYDRANT AS SHOWN IN THE THRUST BLOCK DETAIL. THESE COSTS WILL BE CONSIDERED INCIDENTAL TO WATER MAIN INSTALLATION.
- ALL FIRE HYDRANTS SHALL BE INSTALLED WITH A 6" GATE VALVE AS SHOWN IN THE FIRE HYDRANT DETAIL, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY PROPERTY SERVICE LOCATION AND SIZES PRIOR TO ORDERING MATERIALS.

LEGEND

	EX. FENCE
	EX. WATER MAIN
	EX. GAS MAIN
	EX. TELEPHONE LINE
	EX. STORM DRAIN
	EX. OVERHEAD UTILITY
	EX. EDGE OF PAVEMENT
	EX. RIGHT OF WAY LINE / EX. PROPERTY LINE
	EX. FLOW LINE
	PROPOSED EASEMENT LINE
	PROPOSED WATER MAIN
	EX. WATER METER
	EX. TELEPHONE POLE
	EX. UTILITY POLE
	EX. GUY WIRE
	EX. FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED CAP OR END PLUG

***CAUTION* EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.U.D. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL. CALL 1-800-752-6007.**



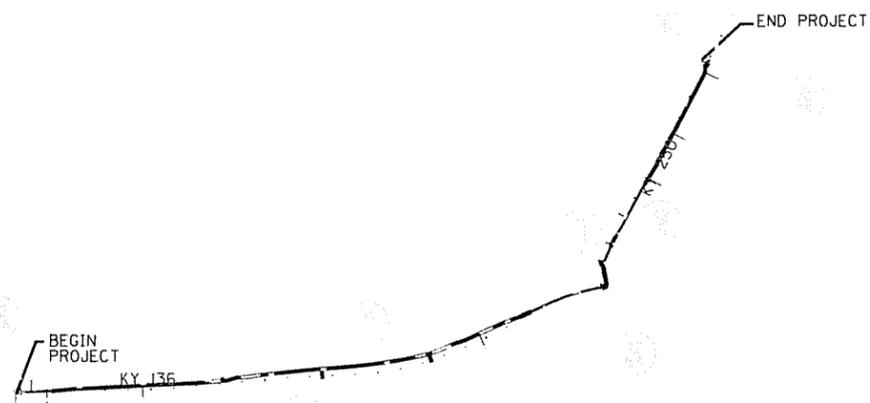
TYPICAL SECTION WATERLINE PLACEMENT

EXTREME CAUTION

ATMOS GAS REQUIRES 7 DAYS NOTICE PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL. CALL (270) 685-8103 OR (270) 685-8049. A REPRESENTATIVE SHALL BE ON SITE FOR ALL CONSTRUCTION WITHIN 50' OF THE GAS LINE.

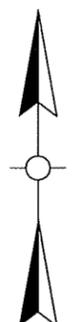
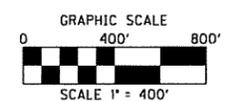
UTILITY CONTACTS

GAS Mr. JIM CAPPS ATMOS ENERGY CORPORATION 3425 NEW HARTFORD RD. OWENSBORO, KY. 42303 (270) 685-8103	TELEPHONE Mr. GEOFFERY JOHNSON AT&T 714 CLAY ST. HARTFORD, KY 42347 (270) 298-4129
ELECTRIC Mr. J.E. NEWLAND KENERGY 6402 OLD CORYDON RD. HENDERSON, KY 42420 (270) 826-3991	CABLE Mr. BRENT RASSERTY TIME WARNER 100 INDUSTRIAL DR. OWENSBORO, KY 42301 (270) 222-0861
ELECTRIC Mr. KEITH MARKS KENTUCKY UTILITIES 111 W. MAIN STREET EARLINGTON, KY 42410 (270) 383-6000 (270) 871-8709 (MOBILE)	WATER Mr. MICHAEL LANTHAM NORTH McLEAN COUNTY WATER DISTRICT 217 HILL ST. PO BOX 68 LIVERMORE, KY 42352 (270) 278-2800 (270) 499-3788 (MOBILE)
TRANSPORTATION Mr. FRANK BACON KENTUCKY TRANSPORTATION CABINET KENTUCKY DEPT. OF HIGHWAYS DISTRICT 2 PO BOX 600 MADISONVILLE, KY 42431-5003 (270) 824-7080 (270) 824-7091 (FAX)	McLEAN CO. MIDDLE SCHOOL PRINCIPAL TRES SETILE 1901 HIGHWAY 136 EAST CALHOUN, KENTUCKY 42327 (270) 273-5191
	McLEAN CO. HIGH SCHOOL ASHLEY TROUTMAN 1859 HIGHWAY 136 EAST CALHOUN KENTUCKY 42327 (270) 273-5278



PROPERTY OWNERS

42-13 Ray & Elna Hayden 1868 KY 136 E, Calhoun, KY 42327 DB 109, PG 353	42-16A Gerald & Judy Hayden 7650 KY 1046, Calhoun, KY 42327 DB 112, PG 461
42-13A Mallie Denise McElwain 1690 KY 136 E, Calhoun, KY 42327 DB 147, PG 241	42-16B Ralph B. & Carol A. Hayden 205 KY 250, Calhoun, KY 42327 DB 112, PG 466
42-13B Gerald A. Hayden 7650 KY 1046, Calhoun, KY 42327 DB 147, PG 245	42-23 James C. Bickett 4610 KY 81, Owensboro, KY 42301 DB 104, PG 83
42-14 Ray & Elna Hayden 1868 KY 136 E, Calhoun, KY 42327 DB 109, PG 353	42-23A Linda & Dewayne Burden 1559 KY 136 E, Calhoun, KY 42327 DB 134, PG 419
42-16 Ralph B. & Carol A. Hayden 2204 KY 136 E, Calhoun, KY 42327 DB 118, PG 616	42-23B McLean Co. Board of Education DB 68, PG 469

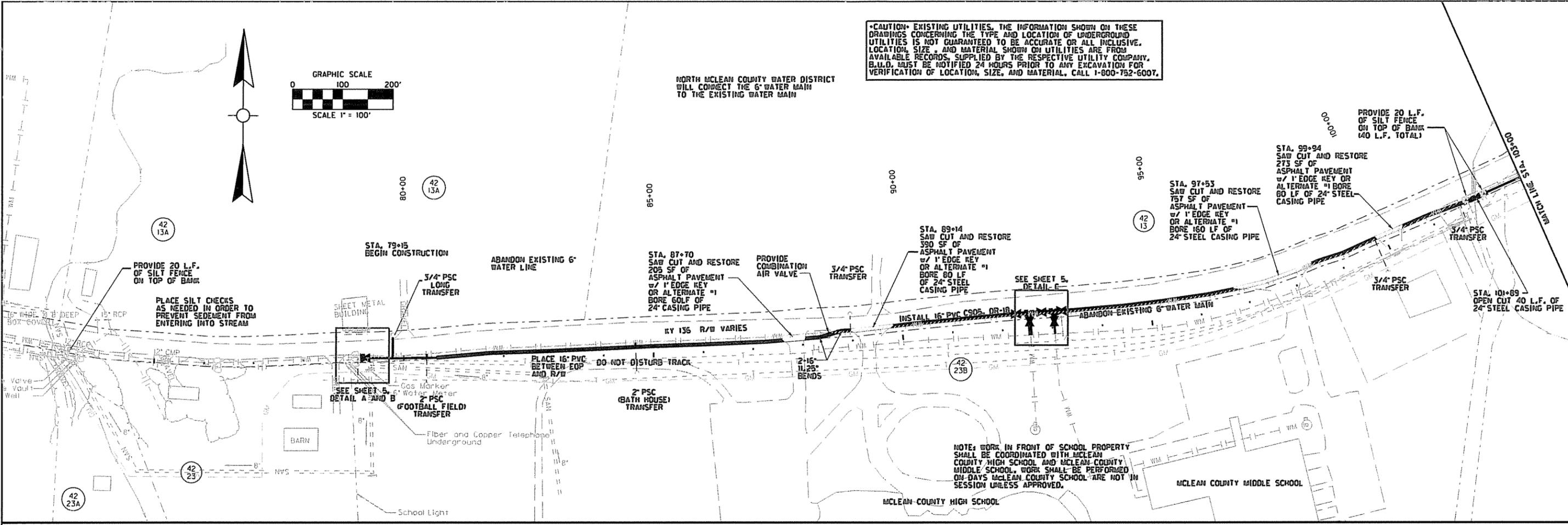


DLZ KENTUCKY, INC.
201 BRIGHTON PARK BLVD.
FRANKFORT, KY 40601
(502) 695-2300 (Fax) 695-1497

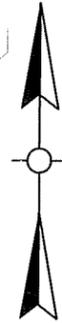
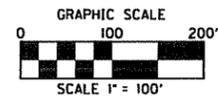
NORTH McLEAN COUNTY
WATER DISTRICT
P.O. BOX 68
217 HILL STREET
LIVERMORE, KY 42352
(270) 278-2800

KY 136/ KY 250
WATER LINE CONSTRUCTION
PHASE II
PROJECT SUMMARY/
TYPICAL SECTION

DATE:	09/07/2011
DRAWN BY:	RRC
CHECKED BY:	MCH
JOB NO.:	1131003690
SCALE:	1" = 400'
SHEET:	2



CAUTION: EXISTING UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. LOCATION, SIZE, AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. B.L.O. MUST BE NOTIFIED 24 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE, AND MATERIAL. CALL 1-800-752-6007.



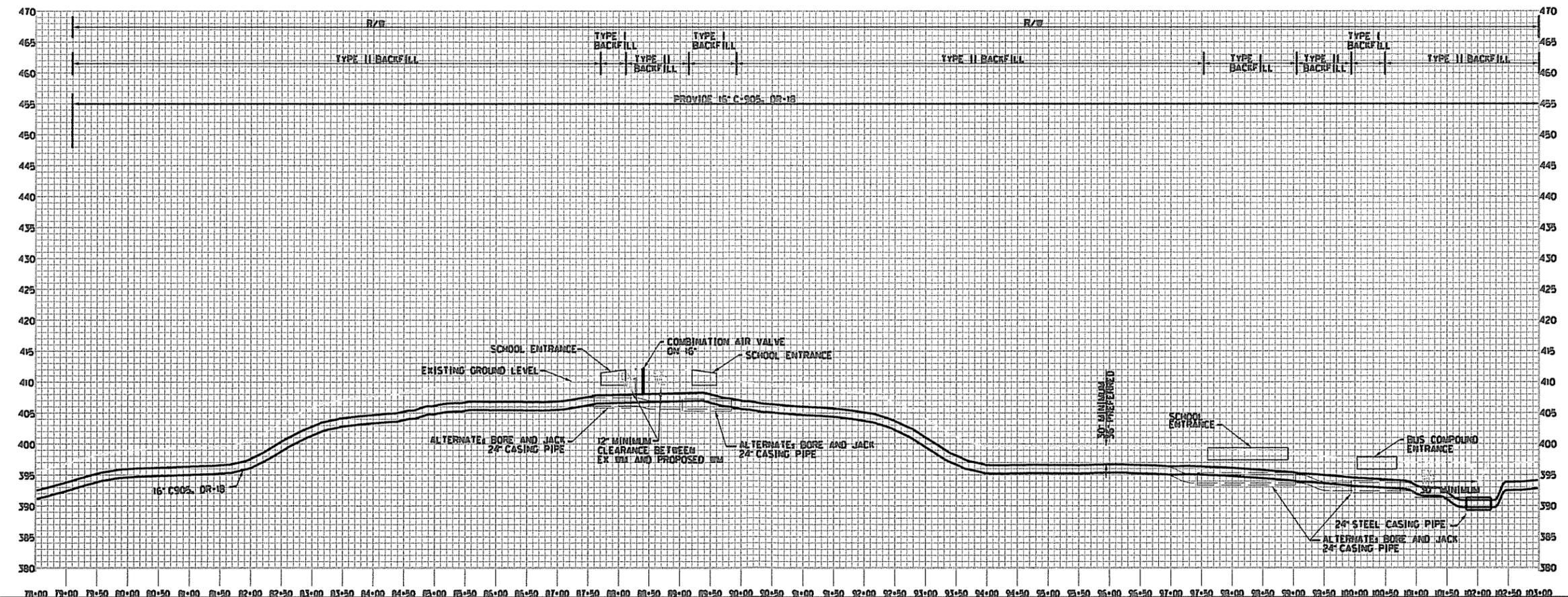
DLZ KENTUCKY, INC.
 201 BRIGHTON PARK BLVD.
 FRANKFORT, KY 40601
 (502) 695-2300 (FAX) 695-1497

NORTH MCLEAN COUNTY WATER DISTRICT
 P.O. BOX 68
 217 HILL STREET
 LIVERMORE, KY 42352
 (270) 278-2800

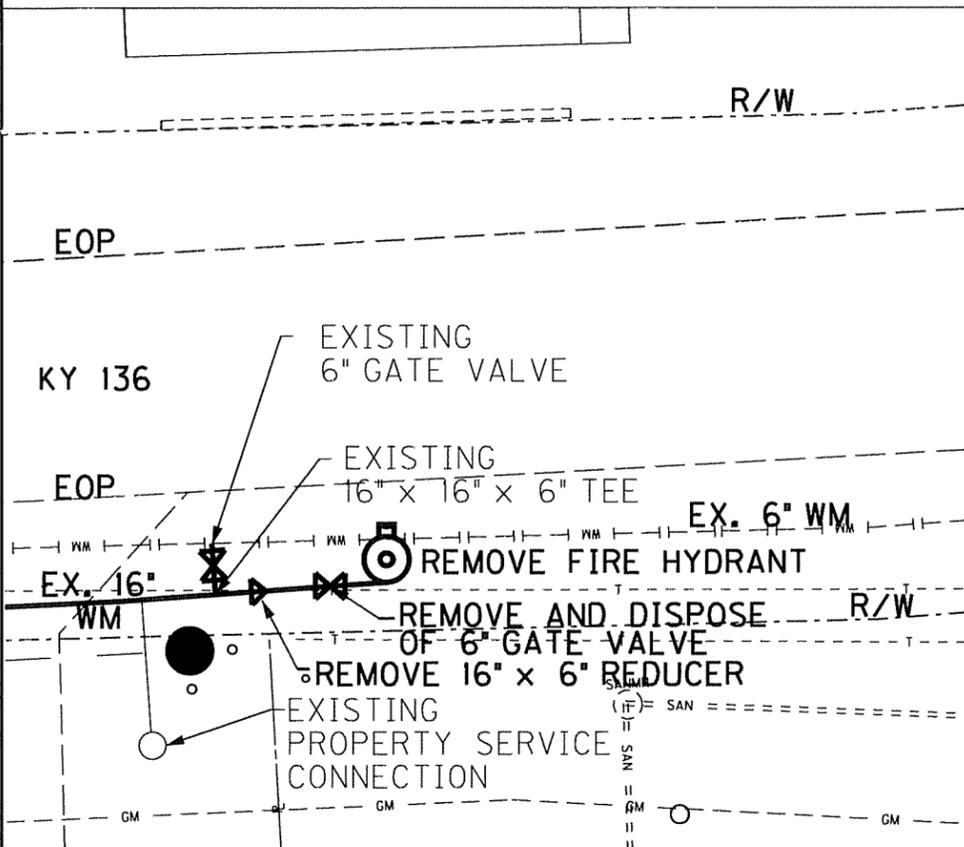
KY 136/ KY 250 WATER LINE CONSTRUCTION PHASE II
 PLAN AND PROFILE SHEET
 STA. 79+15 TO 103+00

NO.	DATE	DESCRIPTION	BY

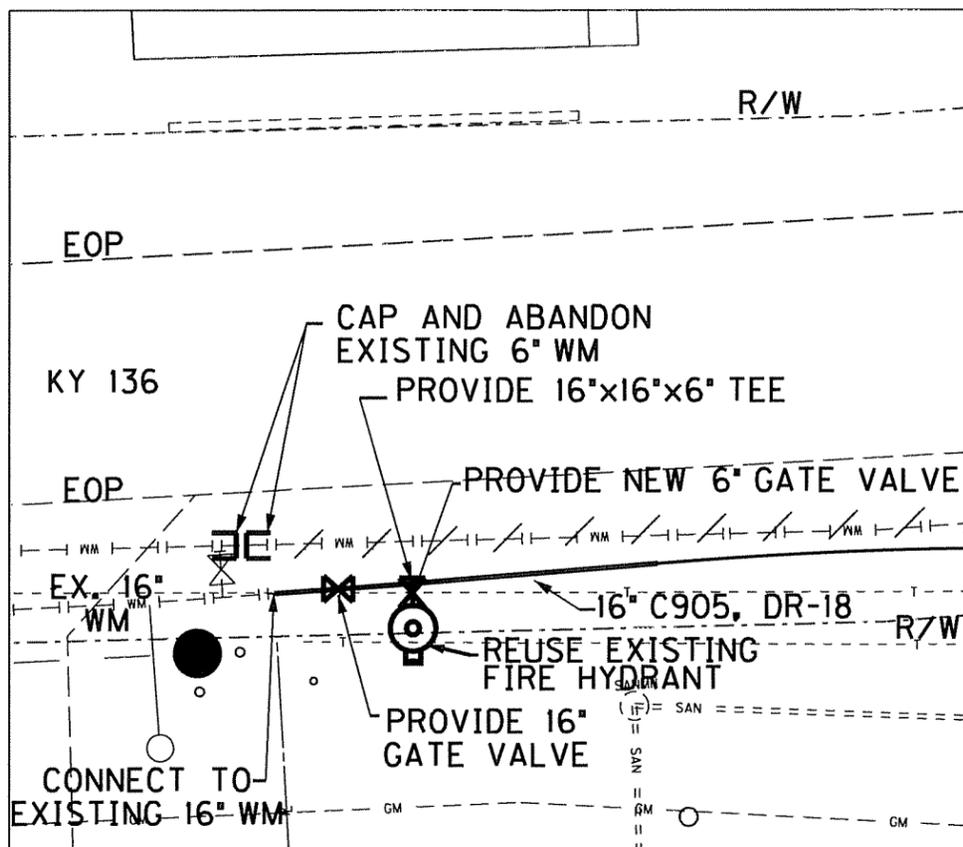
DRAWN BY:	RRC	DATE:	09/07/2011
CHECKED BY:	MCH	SCALE:	1" = 100'
JOB NO.:	1131003690	SHEET:	3



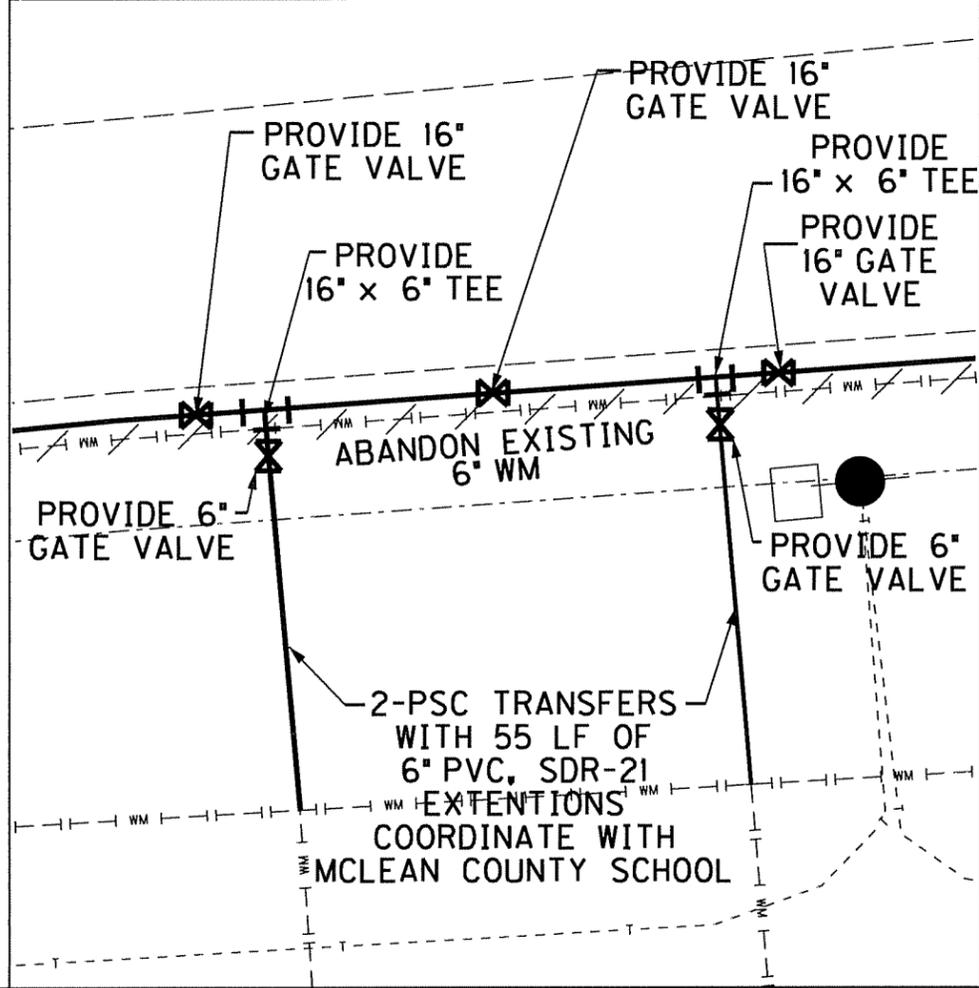
PROFILE SCALE:
 1" = 100' HORIZ.
 1" = 10' VERT.



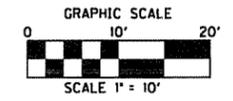
DETAIL A
DEMO EXISTING WATERLINE



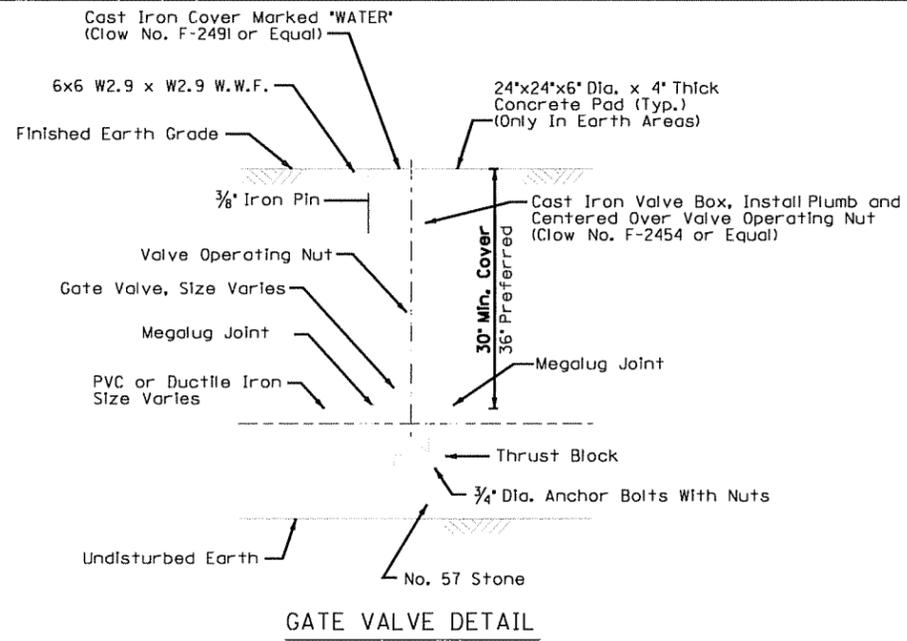
DETAIL B
PROPOSED CONNECTION TO
EXISTING WATERLINE



DETAIL C
PROPOSED 6" PROPERTY
SERVICE TRANSFERS



<p>DLZ KENTUCKY, INC. 201 BRIGHTON PARK BLVD. FRANKFORT, KY 40601 (502) 695-2800 (Fax) 695-1497</p>											
<p>NORTH MCLEAN COUNTY WATER DISTRICT P.O. BOX 68 217 HILL STREET LIVERMORE, KY 42352 (270) 278-2800</p>											
<p>KY 136/ KY 250 WATER LINE CONSTRUCTION PHASE II DETAIL A AND B</p>											
NO.	DATE	DESCRIPTION	BY	DATE	RRC	CHECKED BY	MCH	JOB NO.	1131003690	SHEET	5
				09/07/2011							

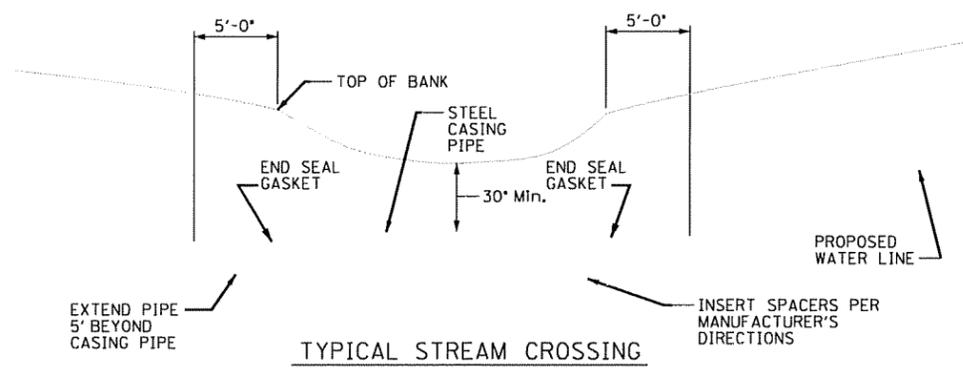


GENERAL NOTES

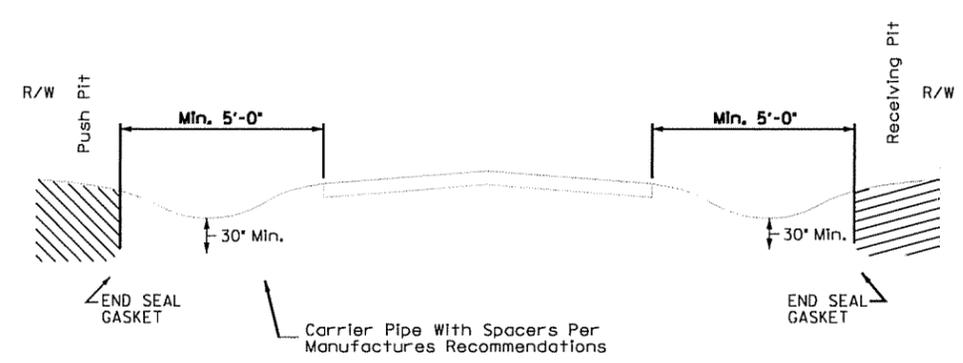
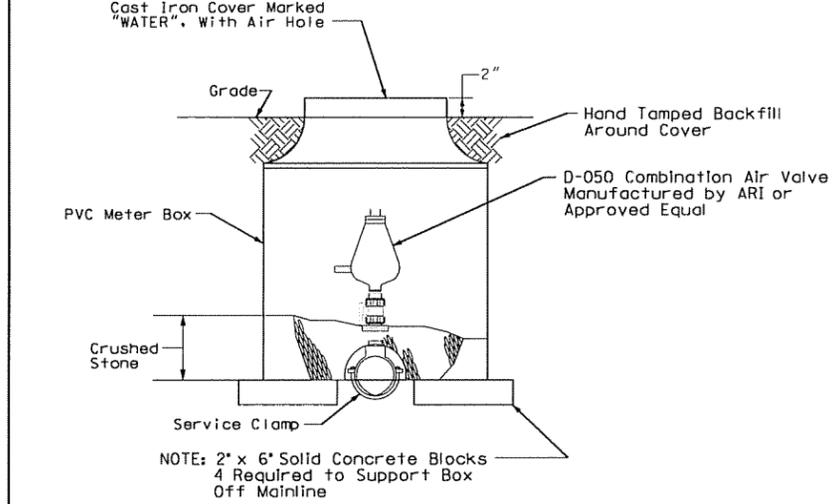
- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.
- EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC WILL BE PAID AT THE LUMP SUM BID PRICE TO "MAINTAIN AND CONTROL TRAFFIC" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:
 - ALL GRADING AND NECESSARY DRAINAGE (UNLESS A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED) FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF, WHEN IT IS NO LONGER NEEDED. IF A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED, GRADING AND DRAINAGE WILL BE PAID FOR IN THE BID ITEM "DETOUR CONSTRUCTION".
 - ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.
 - ALL FLAGPERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, SIGNS, BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.
- ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.
- THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVELED WAY WITH A MINIMUM LANE WIDTH OF 11 FEET. HOWEVER, DURING WORKING HOURS, ONE-WAY TRAFFIC MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER, PROVIDED ADEQUATE SIGNING AND A FLAGPERSON ARE AT THE LOCATION.
- THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.
- IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.
- THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.
- IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS AND THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE DIVISIONS OF TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.
- IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE OR AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.
- ALL SIGNS NECESSARY FOR A MARKED DETOUR WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MUTCD. SIGNS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR BY THE SQUARE FOOT. THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.



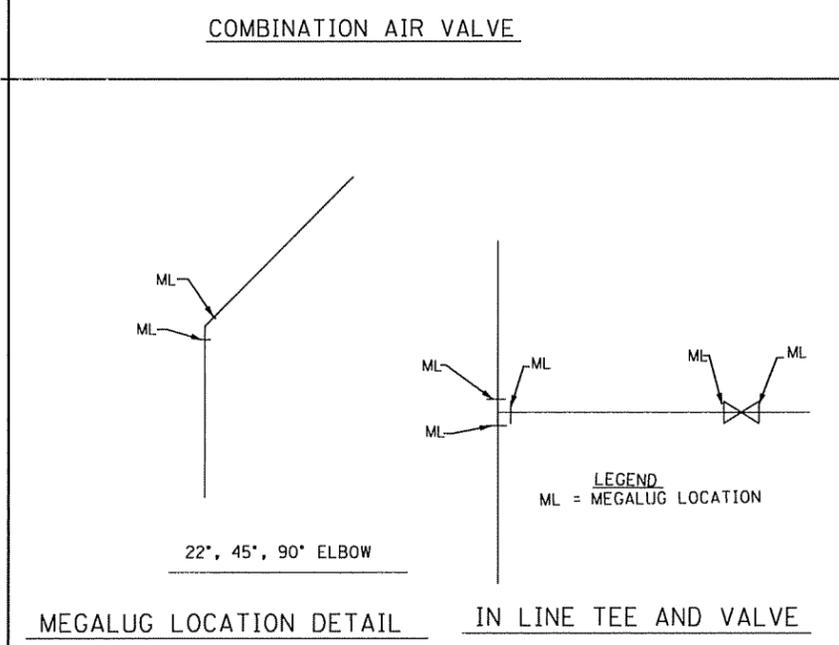
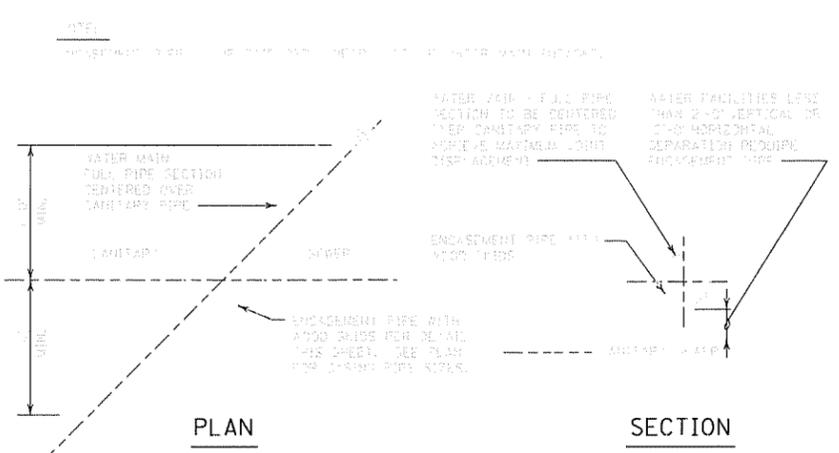
"ROAD WORK AHEAD" SIGN TO BE PLACED ALONG US 42 THROUGHOUT THE DURATION OF THE CONSTRUCTION WITHIN US 42 RIGHT OF WAY, AT APPROPRIATE LOCATIONS TO WARN THE PUBLIC AHEAD OF THE CONSTRUCTION ACTIVITY AREA.



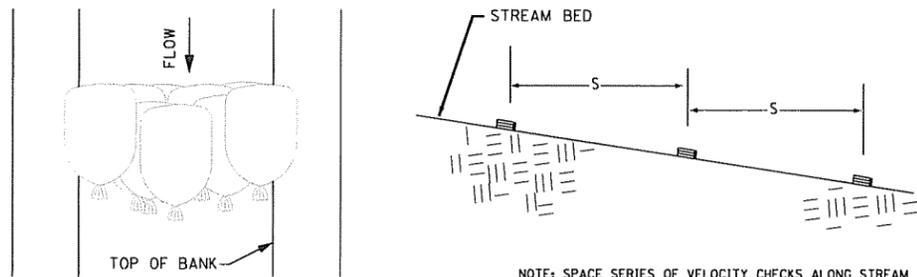
MAINTENANCE OF TRAFFIC



- Push pit and receiving pit to be backfilled and thoroughly compacted.
- All ditch lines to be left open.
- Seed and straw all areas disturbed by this work.

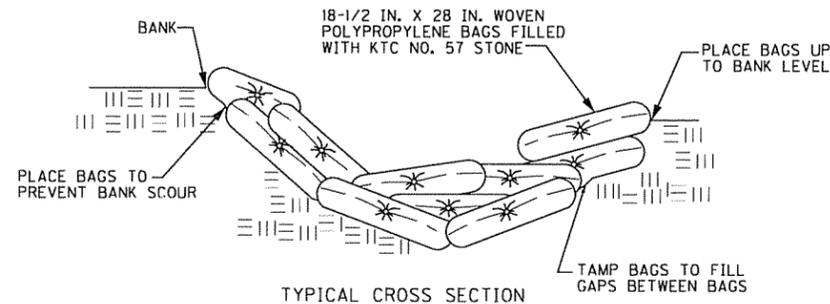


DLZ KENTUCKY, INC. 201 BRIGHTON PARK BLVD. FRANKFORT, KY 40601 (502) 695-2300 (Fax) 695-1497	
NORTH MCLAN COUNTY WATER DISTRICT P.O. BOX 68 217 HILL STREET LIVERMORE, KY 42352 (270) 278-2800	
KY 136/ KY 250 WATER LINE CONSTRUCTION PHASE II DETAIL SHEET	
DRAWN BY: RRC	DATE: 09/07/2011
CHECKED BY: MCH	SCALE: N.T.S.
JOB NO.: 1131003690	SHEET: 7
NO. DATE	DESCRIPTION



TYPICAL PLAN

NOTE: SPACE SERIES OF VELOCITY CHECKS ALONG STREAM REACH. USE SPACING 'S' SUCH THAT THE CRESTS OF DOWN STREAM CHECKS ARE THE SAME ELEVATION AS THE TOE OF UPSTREAM CHECKS.



TYPICAL CROSS SECTION

STONE BAG CHECK DAM IN SMALL DITCH

When and Where to Use It:

Stone bag checks are to be placed in man-made swales and ditches only. Stone bag check dams should not be built in wetlands, any active or live streams, and in waters of Commonwealth.

Stone bag check dams are applicable in situations where flow velocities are too high causing channel scour. They should not be used as a primary sediment-trapping device. They should be used as velocity checks only as a short-term temporary solution.

Specific conditions for use include new diversion ditches that will not or cannot be stabilized for several days, and temporary diversion channels that are eroding due to high flow rates or steep slopes.

Installation:

Stone fill bags shall be woven polypropylene bags with approximate dimensions of 18-1/2 inches by 28 inches. The bags shall be filled with KYC No. 57 stone. Tie the ends of filled bags using either drawstrings or wire ties.

Stone bag check dams shall span the banks of the ditch or swale.

The height of the dam at the stream centerline shall equal the height noted on the plans, or equal the approximate stage for normal storm flows.

Place bags at the banks to a height at least 6 inches above the center of the check.

Space stone bag ditch checks as shown on the plans, or such that the crest of the downstream check is at the same elevation as the toe of the check located immediately upstream.

Inspection and Maintenance:

Inspect checks every seven (7) calendar days and within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation. Check for structural damage, channel erosion and sediment deposition. If sediment accumulates, remove it from the upstream face of the check before it accumulates to a height equal to 1/3 the structure height. Make all necessary repairs immediately.

Split the spacing between existing checks with an additional check if stream erosion problems persist with a reach.

Reinforce checks with additional stone bags as required to maintain integrity. Remove and replace any damaged bags and dispose of them properly. Do not leave damaged or empty bags in the ditch at any time.

Remove checks as soon as they are no longer required to control flow velocities and the ditch can be stabilized according to the appropriate stabilization schedule or is taken out of service.

Slit Fence Detail

Installation:

The fence should be placed across the slope along a line of uniform elevation (perpendicular to the direction of flow). The fence should be located at least 10-feet from the slopes to provide sediment storage and access for maintenance and cleanout.

A flat-bottom trench approximately 4-inches wide and 8-inches deep, or a v-shaped trench 8-inches deep should be excavated. On the downslope side of the trench, drive the 2-inch X 2-inch posts at least 18-inches into the ground, spacing them no further than 6-feet apart.

Posts should be installed, with 1- to 2-inches of the posts protruding above the top of the fabric and no more than 3-feet of the post should protrude above the ground. The minimum fence height (height of filter fabric above ground) shall be 18-inches. The maximum fence height (height of filter above ground) shall be 24-inches.

The filter fabric should be purchased in a continuous roll and cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth should be wrapped together only at a support post with ends securely fastened to the post, with a minimum 6-inch overlap.

Extra-strength filter cloth (50 pounds/linear inch minimum tensile strength) should be used. A 2-inch wide (at least) shall be stapled over the filter fabric to securely fasten it to the upslope side of the posts. The staples used should be 1.5-inch heavy-duty wire staples spaced a maximum of 8-inches apart.

Place the bottom 12-inches of the filter fabric into the 8-inch deep trench, extending the remaining 4-inches towards the up-slope side of the trench and backfill the trench with soil or gravel and compact.

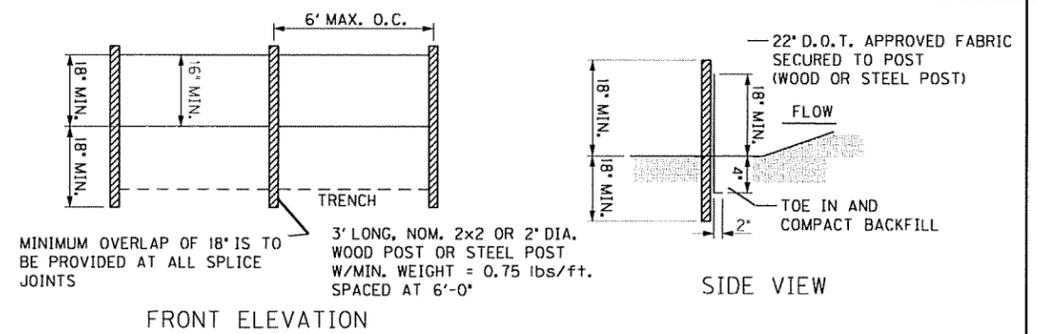
Inspection and Maintenance:

Inspect slit fence every seven (7) calendar days and within 24-hours after each rainfall event that produces .5-inches or more of precipitation. Check for areas where runoff has eroded a channel beneath the fence, or where the fence was caused to sag or collapse by runoff overtopping the fence.

If the fence fabric tears, begins to decompose, or any way becomes ineffective, replace the affected section of the fence immediately.

Sediment must be removed when it reaches approximately 1/3 the height of the fence, especially if heavy rains are expected.

Slit fence should be removed within 30 days after final site stabilization is achieved or after temporary BMPs are no longer needed. Trapped sediment should be removed or stabilized on site. Disturbed areas resulting from fence removal shall be permanently stabilized.



FRONT ELEVATION

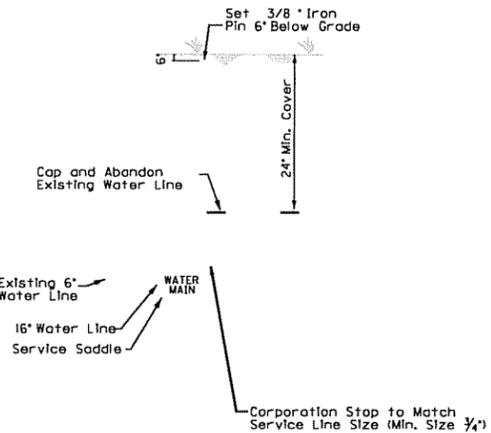
SIDE VIEW

MINIMUM OVERLAP OF 18" IS TO BE PROVIDED AT ALL SPLICE JOINTS

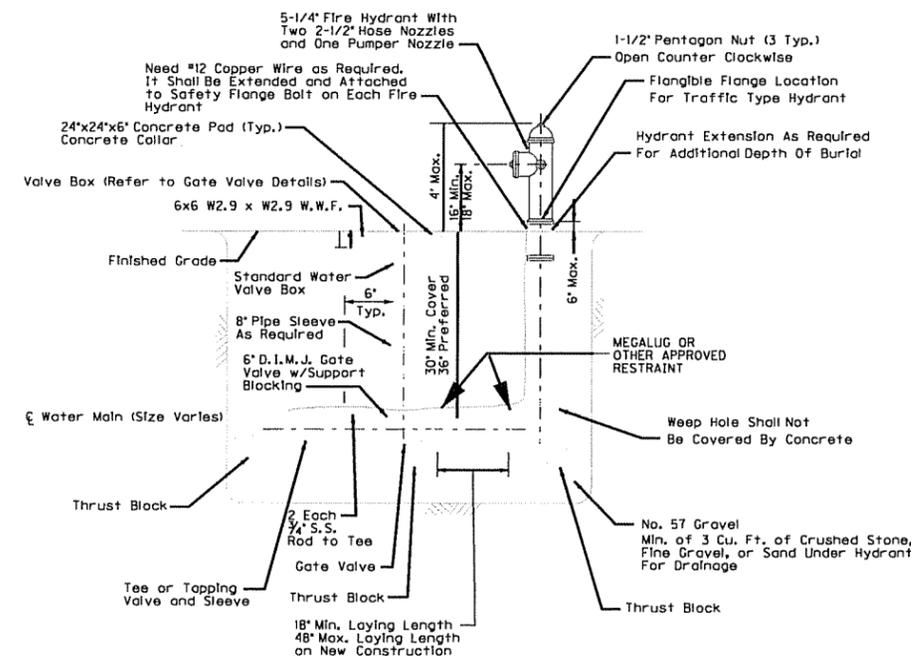
3' LONG, NOM. 2x2 OR 2" DIA. WOOD POST OR STEEL POST W/MIN. WEIGHT = 0.75 lbs/ft. SPACED AT 6'-0"

22" D.O.T. APPROVED FABRIC SECURED TO POST (WOOD OR STEEL POST)

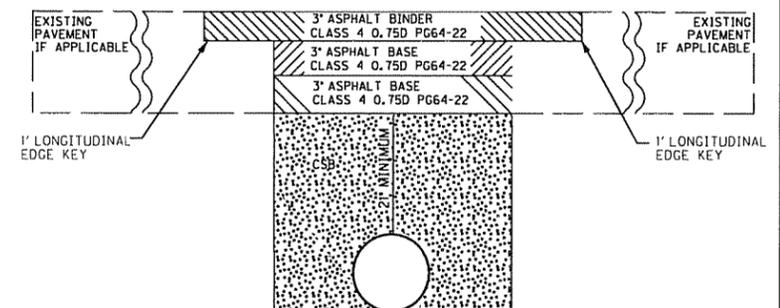
TOE IN AND COMPACT BACKFILL



TRANSFER PROPERTY SERVICE CONNECTION



FIRE HYDRANT ASSEMBLY



BUS AND SCHOOL ENTRANCES

NOTE:

- FOR SCHOOL AND BUS ENTRANCES, KYTC STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES LATEST EDITION SHALL BE USED.
- COORDINATE WITH GEOTECHNICAL ENGINEER TO DETERMINE DEPTH OF #3 STONE AND NECESSITY OF GEOTECHNICAL FABRIC PRIOR TO INSTALLATION.

DLZ KENTUCKY, INC.
201 BRIGHTON PARK BLVD.
FRANKFORT, KY 40601
(502) 695-2300 (Fax) 695-1497

NORTH MCKEAN COUNTY
WATER DISTRICT
P.O. BOX 68
217 HILL STREET
LIVERMORE, KY 42352
(270) 278-2800

KY 136/ KY 250
WATER LINE CONSTRUCTION
PHASE II
DETAIL SHEET

DATE: 09/07/2011
SCALE: N.T.S.

DRAWN BY: RRC
CHECKED BY: MCH
JOB NO.: 1131003690

BY: [Blank]

NO.	DATE	DESCRIPTION