

Appendix K: Utilities and Right-of-Way Cost Estimate Details

De Witte, Stephen G.

From: Plunk, Joseph (KYTC-D03) <Joseph.Plunk@ky.gov>
Sent: Tuesday, July 29, 2014 3:25 PM
To: Johnson, Bradford C
Cc: McKenzie, Shane (KYTC); Henderson, Deneatra (KYTC-D03)
Subject: FW: 3-8702.00 Scottsville Road ROW estimates

Categories: TE: US 231

Brad,
ROW estimates are outline below. A table is provided for clarity. Thank you.

Section	ROW	Utility
Section One – (Three Springs Road to Pascoe Road)	\$0	\$ 1,325,000
Section Two – (Pascoe Road to just north of Cave Mill Road)	\$ 1,400,000	\$ 3,165,000
Section Three – (Just north of Cave Mill Road to Campbell Lane)	\$ 2,500,000	\$ 3,975,000
Section Four – (North of Campbell Lane to first access point to frontage road)	\$ 775,000	\$ 1,420,000
Total of all Sections		\$ 4,675,000 \$ 9,885,000

From: Divine, Kelly (KYTC-D03)
Sent: Tuesday, July 29, 2014 1:40 PM
To: Plunk, Joseph (KYTC-D03)
Cc: Carrico, Ronald (KYTC); Russell, Michael (KYTC-D03)
Subject: RE: 3-8702.00 Scottsville Road ROW estimates

Joe,
Below, please find the Right of Way estimates for subject Scottsville Road project in Warren County. If you have any questions, please advise.

Section One – (Three Springs Road to Pascoe Road) – \$0 given the information you provided.
Section Two – (Pascoe Road to just north of Cave Mill Road) - \$1.4 million
Section Three – (Just north of Cave Mill Road to Campbell Lane) - \$2.5 million
Section Four – (North of Campbell Lane to first access point to frontage road) - \$775,000.00

Thank you,

Kelly R. Divine
Right of Way Supervisor
District Three - Bowling Green
(270) 746-7898, ext. 282

From: Plunk, Joseph (KYTC-D03)
Sent: Thursday, July 24, 2014 3:58 PM
To: Divine, Kelly (KYTC-D03)
Subject: FW: 3-8702.00 Scottsville Road ROW estimates

Kelly,

As you develop the ROW estimates for Scottsville Road, please segment them in the following manner:

Section 1 – From Three Springs Road to Pascoe Road. Assume this is \$0 because of the frontage road in front of White Castle and the Ford dealership.

Section 2 – From Pascoe Road to just north of Cave Mill (use the north end of the basin between Greenwood liquors and O’Charley’s as a terminus).

Section 3 – From just north of Cave Mill (same location mentioned above) to Campbell Lane.

Section 4 – North of Campbell Lane to first access point to frontage road. This involves tapers to existing for approximately 1,000 feet and involves only Gary Force dealership.

Remember that your estimates involve west side of the road only. The east side includes the frontage road, so our assumptions are that no additional right of way is required on the east side.

(I’m off Friday, but I’ll check email occasionally.)

Thanks.

COUNTY
 STATE NO.
 ROAD NAME
 DESCRIPTION

WARREN
 FD04 114 87674 01 D FED. NO.
 US-231, Bowling Green – Scottsville Road
 Widen and Expand US-231 From Lover’s Lane
 to Three Springs Road
 3-8702.00

Accurately describe project termini upon which this estimate is based. Does it agree with the Pre-Con Report?

YES X NO _

Sections 1-4 Description – From Station 90+00 to End

ESTIMATE SHEET

SECTION TOTAL

Utility Companies	Section 1	Section 2	Section 3	Section 4	Totals
Bowling Green Municipal Utilities – Electric Division	\$79,500	\$252,000	\$234,000	\$24,000	\$589,500
Tennessee Valley Authority (TVA)	\$0	\$0	\$0	\$0	\$0
Bowling Green Municipal Utilities – General Services Divisio	\$19,800	\$33,000	\$22,000	\$0	\$74,800
Atmos Energy	\$101,600	\$226,600	\$173,200	\$60,000	\$561,400
AT&T – Kentucky	\$324,300	\$761,900	\$1,498,975	\$659,200	\$3,244,375
BlueGrass Network, LLC	\$0	\$0	\$98,000	\$0	\$98,000
Time Warner Cable	\$93,600	\$156,000	\$104,000	\$0	\$353,600
Bowling Green Municipal Utilities – Water and Sewer Divis	\$325,270	\$831,150	\$707,760	\$269,300	\$2,133,480
			TOTAL		\$7,055,155
			Contingencies	33%	\$2,328,201.15
			State Forces	7%	\$493,860.85
			GRAND TOTAL		\$9,877,217

DISTRICT THREE UTILITIES

This is a spreadsheet program based on the "Average Installed
Unit Prices of Utility Replacement Work for Estimating Purposes."

Revised by District Utility Agent: J.C. Puryear, Jr., July 2013

Subject:	Estimate Date:	July 28, 2014
County: / Fed. No.	WARREN	From Sta. 90+00 to 101+50
UPN:	FD04 114 87674 01 D	
Road Name:	US-231, Bowling Green - Scottsville Road	
Description:	From Lovers Lane to Three Springs Road	
Item No.	3-8702.00	Section No. 1
Authorization No.	87674 0	Dated: 3/4/2013

Instructions: Type in appropriate numbers in areas within borders. "Type 1" means to type a 1 in one cell.

ESTIMATE SUMMARY:

Electric	\$79,500.00
Gas	\$101,600.00
Telephone	\$324,300.00
Cable TV	\$113,400.00
Railroad	\$0.00
Water & Sewer	\$325,270.00
Total for Companies	\$944,070.00

UTILITY ENGINEERING AND CONSTRUCTION CONTINGENCIES:

Class Estimate	Type 1	Percentage	
"A"	0	0.00	0.00
"B"	0	0.20	0.00
"C"	0	0.25	0.00
"D"	0	0.30	0.00
"E"	1	0.33	0.33
		Add	0.33
		Sub-Total	\$311,543.10

STATE FORCES ENGINEERING:

Estimated Cost	Type 1	Percentage	
\$1 - \$10,000	0	1.00	0.00
\$10,000-\$50,000	0	0.25	0.00
\$50,001-\$100,000	0	0.22	0.00
\$100,001-\$1,000,000	0	0.14	0.00
\$1,000,000 -UP	1	0.07	0.07
		Add	0.07
		Sub-Total	\$66,084.90

GRAND TOTAL FOR ESTIMATE	\$1,321,698
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USE (Round up to the nearest \$5,000)	\$1,325,000
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ELECTRIC

Company: **Bowling Green Municipal Utilities - Electric Division**

Power Poles With Cable Span & Connections:

Distribution Lines:	Each	\$/Unit	Extension
Single Phase Power Line	2	\$4,500	\$9,000
Pole Attachment Only	0	\$2,000	\$0
Sub-Total			\$9,000

Two Phase Power & Conductor	Each	\$/Unit	Extension
Single Circuit Poles	0	\$5,000	\$0
Pole Attachment Only	0	\$2,500	\$0
Double Circuit Poles	0	\$7,000	\$0
Pole Attachment Only	0	\$4,500	\$0
Sub-Total			\$0

Three Phase Power & Conductor	Each	\$/Unit	Extension
Single Circuit Poles	8	\$6,000	\$48,000
Pole Attachment Only	0	\$4,000	\$0
Double Circuit Poles	0	\$10,000	\$0
Pole Attachment Only	0	\$7,000	\$0
Sub-Total			\$48,000

Transmission Lines:	Each	\$/Unit	Extension
69 KV Single Pole	0	\$20,000	\$0
69 KV H-Frame	0	\$35,000	\$0
161 KV Steel Tower	0	\$250,000	\$0
500 KV Steel Tower	0	\$300,000	\$0
Sub-Total			\$0

Street Lighting:	Each	\$/Unit	Extension
Street Light Attachments	5	\$1,500	\$7,500
Wooden Pole w/ Attachments	0	\$2,000	\$0
Aluminum Pole w/ Attachments	5	\$3,000	\$15,000
Sub-Total			\$22,500

Underground Elec. Conduit:	Feet	\$/Unit	Extension
Single Phase - 1/0 AL Line	0	\$100.00	\$0
Three Phase - 750 Al Line	0	\$200.00	\$0
69 KV Power - 1500 CU Line	0	\$400.00	\$0
Sub-Total			\$0

Other Electric Items:	Each	\$/Unit	Extension
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
Sub-Total			\$0

Total	\$79,500
Participating Percentage	100%
ELECTRIC TOTAL	\$79,500

GAS

Company:

Atmos Energy Corporation

Service Lines:

	Service	\$/Unit	Extension
51 mm (2") & less (Private Services) on Gas Main Side of Road	0	\$800	\$0.00
on Opposite Side of Road	0	\$1,200	\$0.00
	Sub-Total		\$0.00

	Feet	\$/Unit	Ft-Bore	\$/Unit	Extension
25 mm (1") P.E.	0	\$18.00	0	\$5.50	\$0.00
51 mm (2") Plastic	0	\$27.00	0	\$11.00	\$0.00
102 mm (4") Plastic	0	\$36.00	0	\$22.00	\$0.00
	Sub-Total				\$0.00

Distribution Lines: (Steel)

25 mm (1") Steel	0	\$22.00	0	\$11.00	\$0.00
51 mm (2") Steel	0	\$39.00	0	\$22.00	\$0.00
102 mm (4") Steel	1,900	\$50.00	200	\$33.00	\$101,600.00
152 mm (6") Steel	0	\$70.00	0	\$44.00	\$0.00
203 mm (8") Steel	0	\$90.00	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$110.00	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$150.00	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$190.00	0	\$110.00	\$0.00
	Sub-Total				\$101,600.00

High Pressure Distribution Lines: (Steel)

102 mm (4") Steel	0	\$75.00	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$90.00	0	\$44.00	\$0.00
	Sub-Total				\$0.00

Transmission Lines: (Steel)

102 mm (4") Steel	0	\$430	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$500	0	\$44.00	\$0.00
203 mm (8") Steel	0	\$580	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$650	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$730	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$805	0	\$110.00	\$0.00
508 mm (20") Steel	0	\$880	0	\$130.00	\$0.00
610 mm (24") Steel	0	\$950	0	\$150.00	\$0.00
660 mm (26") Steel	0	\$1,030	0	\$170.00	\$0.00
762 mm (30") Steel	0	\$1,100	0	\$200.00	\$0.00
914 mm (36") Steel	0	\$1,200	0	\$240.00	\$0.00
107 cm (42") Steel	0	\$1,300	0	\$270.00	\$0.00
	Sub-Total				\$0.00

Other Gas Items:

	0	\$0	\$0.00
	0	\$0	\$0.00
	Sub-Total		\$0.00

Total	\$101,600.00
Participating Percentage	100%
GAS TOTAL	\$101,600.00

TELEPHONE

Company:

AT&T - Kentucky

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$6.00	\$0.00
50 Pair	0	\$8.00	\$0.00
100 Pair	0	\$13.00	\$0.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	0	\$23.00	\$0.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	0	\$30.00	\$0.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$0.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	0	\$50.00	\$0.00
Sub-Total			\$0.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

AT&T - Kentucky

Underground Plant: (Not Including Conduit or Manholes)

Cable in Conduit:

	Feet	\$/Unit	Extension
Air Pipe	1,200	\$4.00	\$4,800.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$24.00	\$0.00
600 Pair	0	\$27.00	\$0.00
900 Pair	3,900	\$35.00	\$136,500.00
1200 Pair	0	\$37.00	\$0.00
1500 Pair	0	\$39.00	\$0.00
1800 Pair	0	\$41.00	\$0.00
2100 Pair	0	\$43.00	\$0.00
2400 Pair	0	\$45.00	\$0.00
2700 Pair	0	\$47.00	\$0.00
3000 Pair	0	\$49.00	\$0.00
3600 Pair	0	\$51.00	\$0.00
Sub-Total			\$141,300.00

Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)

Conduit:

	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	1,200	\$75.00	\$90,000.00
9 - 102mm (4") Ducts	0	\$85.00	\$0.00
12 - 102mm (4") Ducts	0	\$100.00	\$0.00
	Each	\$/Unit	Extension
Manholes	2	\$15,000	\$30,000.00
Sub-Total			\$120,000.00

Aerial Fiber Plant:

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00
Sub-Total			\$0.00

Buried Fiber Plant:

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$8.25	\$0.00
24 Fiber Optics Cable	0	\$8.75	\$0.00
48 Fiber Optics Cable	1,400	\$10.00	\$14,000.00
96 Fiber Optics Cable	1,400	\$12.50	\$17,500.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	0	\$18.75	\$0.00
288 Fiber Optics Cable	1,400	\$22.50	\$31,500.00
360 Fiber Optics Cable	0	\$26.25	\$0.00
Sub-Total			63,000.00

Telephone Continued:

Company:

AT&T - Kentucky

Load Coils:

	Each	\$/Unit	Extension
25 Pair	0	\$450	\$0.00
50 Pair	0	\$750	\$0.00
100 Pair	0	\$1,400	\$0.00
200 Pair	0	\$2,100	\$0.00
300 Pair	0	\$2,800	\$0.00
400 Pair	0	\$3,100	\$0.00
450 Pair	0	\$4,000	\$0.00
600 Pair	0	\$5,050	\$0.00
750 Pair	0	\$6,300	\$0.00
900 Pair	0	\$7,500	\$0.00
Sub-Total			\$0.00

Circuit Equipment:

Apparatus Cases:

	Each	\$/Unit	Extension
819A2 / 40	0	\$10,000	\$0.00
841A2 / 100	0	\$15,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:

	Each	\$/Unit	Extension
1200 Pair	0	\$4,400	\$0.00
1500 Pair	0	\$5,100	\$0.00
1800 Pair	0	\$5,300	\$0.00
2100 Pair	0	\$6,100	\$0.00
2400 Pair	0	\$7,000	\$0.00
2700 Pair	0	\$7,400	\$0.00
3000 Pair	0	\$8,000	\$0.00
3300 Pair	0	\$10,500	\$0.00
3600 Pair	0	\$12,000	\$0.00
Sub-Total			\$0.00

Remote Terminal Cabinets: Range

	Est. \$/Unit	Extension
\$60,000 - \$300,000 e <input type="text" value="0"/>	<input type="text" value="\$0.00"/>	\$0.00
Sub-Total		\$0.00

Other Items:

	Each	\$/Unit	Extension
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="\$0"/>	<input type="text" value="\$0.00"/>
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="\$0"/>	<input type="text" value="\$0.00"/>
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="\$0"/>	<input type="text" value="\$0.00"/>
Sub-Total			\$0.00

Total	\$324,300.00
Participating Percentage	100%
TELEPHONE TOTAL	\$324,300.00

CABLE TELEVISION

Company: Bowling Green Municipal Utilities - General Services Division

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	0	\$1,100	\$0.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	0	\$1,800	\$0.00
1.000 TV Cable	0	\$9.00	0	\$2,000	\$0.00
Fiber TV Cable	0	\$10.00	9	\$2,200	\$19,800.00
			Each	\$/Unit	

Other Items:		0	\$0	\$0.00
	Total			\$19,800.00
	Participating Percentage			100%
	CABLE TV TOTAL			\$19,800.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Back-to-Back	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	Extension
Flashing Light Signals and Bells	0	\$160,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$215,000	\$0.00
	Sub-Total				\$0.00

Four (4) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
	Sub-Total				\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings	0	\$250	\$0.00
	Concrete Crossings	0	\$625	\$0.00
	Sub-Total			\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.				
	Each	\$/Unit	Extension	
plus Rubber Crossing or \$250,000 crossing.	0	\$315,000	\$0.00	
Communications Underground (4-6 poles)	0	\$125,000	\$0.00	
Other Railroad Items	0	\$0	\$0.00	
	Sub-Total			\$0.00
	Total			\$0.00
	RAILROAD TOTAL			\$0.00

WATER and SEWER

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines:

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension	
< 51 mm (2") D.I.W.L.	0	\$23.00	\$0.00	\$29
51 mm (2") D.I.W.M.	0	\$32.00	\$0.00	
76 mm (3") D.I.W.M.	0	\$38.00	\$0.00	
102 mm (4") D.I.W.M.	0	\$49.00	\$0.00	
152 mm (6") D.I.W.M.	0	\$60.00	\$0.00	
203 mm (8") D.I.W.M.	0	\$72.00	\$0.00	
254 mm (10") D.I.W.M.	1,200	\$87.00	\$104,400.00	
305 mm (12") D.I.W.M.	0	\$98.00	\$0.00	
356 mm (14") D.I.W.M.	0	\$108.00	\$0.00	
406 mm (16") D.I.W.M.	0	\$123.00	\$0.00	
457 mm (18") D.I.W.M.	0	\$144.00	\$0.00	
			Sub-Total	\$104,400.00

PVC - Plastic Pipe

	Feet	\$/Unit	Extension	
< 51 mm (2") PVC W.L.	0	\$17.00	\$0.00	
51 mm (2") PVC W.M.	0	\$20.00	\$0.00	
76 mm (3") PVC W.M.	0	\$26.00	\$0.00	
102 mm (4") PVC W.M.	0	\$35.00	\$0.00	
152 mm (6") PVC W.M.	0	\$43.00	\$0.00	
203 mm (8") PVC W.M.	1,100	\$51.00	\$56,100.00	
254 mm (10") PVC W.M.	0	\$65.00	\$0.00	
305 mm (12") PVC W.M.	0	\$79.00	\$0.00	
			Sub-Total	\$56,100.00

Tapping Sleeve & Valves:

	Each	\$/Unit	Extension	
102 mm (4") D.I. TS & V	0	\$1,900	\$0.00	
152 mm (6") D.I. TS & V	0	\$2,300	\$0.00	
203 mm (8") D.I. TS & V	0	\$3,000	\$0.00	
254 mm (10") D.I. TS & V	2	\$3,800	\$7,600.00	
305 mm (12") D.I. TS & V	0	\$4,300	\$0.00	
102 mm (4") PVC TS & V	0	\$1,500	\$0.00	
152 mm (6") PVC TS & V	0	\$1,900	\$0.00	
203 mm (8") PVC TS & V	3	\$2,300	\$6,900.00	
254 mm (10") PVC TS & V	0	\$3,000	\$0.00	
305 mm (12") PVC TS & V	0	\$3,800	\$0.00	
			Sub-Total	\$14,500.00

Gate Valves: (G.V.)

	Each	\$/Unit	Extension	
102 mm (4") D.I. G.V.	0	\$500	\$0.00	
152 mm (6") D.I. G.V.	0	\$625	\$0.00	
203 mm (8") D.I. G.V.	4	\$875	\$3,500.00	
254 mm (10") D.I. G.V.	2	\$1,125	\$2,250.00	
305 mm (12") D.I. G.V.	0	\$1,500	\$0.00	
			Sub-Total	\$5,750.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines Continued:

Tie Ins:

	Each	\$/Unit	Extension
102 mm (4") Tie In	0	\$900	\$0.00
152 mm (6") Tie In	0	\$1,200	\$0.00
203 mm (8") Tie In	1	\$1,500	\$1,500.00
254 mm (10") Tie In	1	\$1,900	\$1,900.00
305 mm (12") Tie In	0	\$2,300	\$0.00
Sub-Total			\$3,400.00

Misc. Water Items:

	Each	\$/Unit	Extension
Relocate Water Meter	0	\$700	\$0.00
Plug Existing Line	0	\$500	\$0.00
Fire Hydrant (Relocated)	0	\$750	\$0.00
Fire Hydrant (New)	0	\$1,500	\$0.00
Master Meters: Range	Est. \$/Unit		
from \$5,000 to \$25,000	0	\$0	\$0.00
Sub-Total			\$0.00

Sewer Lines: (Gravity Flow)

PVC - Plastic Pipe

	Feet	\$/Unit	Extension
152 mm (6") PVC S.L.	0	\$51.00	\$0.00
203 mm (8") PVC S.L.	700	\$65.00	\$45,500.00
254 mm (10") PVC S.L.	0	\$79.00	\$0.00
305 mm (12") PVC S.L.	0	\$94.00	\$0.00
Sub-Total			\$45,500.00

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension
152 mm (6") D.I.S.L.	0	\$65.00	\$0.00
203 mm (8") D.I.S.L.	0	\$79.00	\$0.00
254 mm (10") D.I.S.L.	0	\$94.00	\$0.00
305 mm (12") D.I.S.L.	0	\$108.00	\$0.00
356 mm (14") D.I.S.L.	0	\$123.00	\$0.00
406 mm (16") D.I.S.L.	0	\$144.00	\$0.00
457 mm (18") D.I.S.L.	0	\$181.00	\$0.00
610 mm (24") D.I.S.L.	0	\$253.00	\$0.00
762 mm (30") D.I.S.L.	0	\$325.00	\$0.00
914 mm (36") D.I.S.L.	0	\$397.00	\$0.00
107 cm (42") D.I.S.L.	0	\$470.00	\$0.00
Sub-Total			\$0.00

Conc. - Concrete Pipe:

	Feet	\$/Unit	Extension
457 mm (18") Conc. S.L.	0	\$145.00	\$0.00
610 mm (24") Conc. S.L.	0	\$216.00	\$0.00
762 mm (30") Conc. S.L.	0	\$290.00	\$0.00
914 mm (36") Conc. S.L.	0	\$360.00	\$0.00
Sub-Total			\$0.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Sewer Lines Continued:

Misc. Sewer Items:	Each	\$/Unit	Extension
Sewer Manhole	4	\$6,000	\$24,000.00
Tie to Existing Manhole	0	\$2,000	\$0.00
Reconnect Service	0	\$1,000	\$0.00
Cut & Plug Sewer Line	0	\$1,000	\$0.00
Sewer Pump Stations: Range		Est. \$/Unit	
from \$25,000 to \$250,000	0	\$0	\$0.00
Sub-Total			\$24,000.00

**** Force Main Sewer Lines: Use Water Line Prices**

Misc. Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Casing Pipe - Open Cut	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$38.00	\$0.00
254 mm (10") Steel Casing	0	\$84.00	\$0.00
305 mm (12") Steel Casing	0	\$99.00	\$0.00
406 mm (16") Steel Casing	0	\$146.00	\$0.00
457 mm (18") Steel Casing	0	\$178.00	\$0.00
508 mm (20") Steel Casing	90	\$218.00	\$19,620.00
610 mm (24") Steel Casing	0	\$250.00	\$0.00
Sub-Total			\$19,620.00

Casing Pipe - Bored	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$60.00	\$0.00
254 mm (10") Steel Casing	0	\$150.00	\$0.00
305 mm (12") Steel Casing	0	\$190.00	\$0.00
406 mm (16") Steel Casing	200	\$260.00	\$52,000.00
457 mm (18") Steel Casing	0	\$300.00	\$0.00
508 mm (20") Steel Casing	0	\$350.00	\$0.00
780 mm (30") Steel Casing	0	\$418.00	\$0.00
Sub-Total			\$52,000.00

Total	\$325,270.00
Participating Percentage	100%
WATER & SEWER TOTAL	\$325,270.00

TELEPHONE

Company:

BlueGrass Network LLC

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$6.00	\$0.00
50 Pair	0	\$8.00	\$0.00
100 Pair	0	\$13.00	\$0.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	0	\$23.00	\$0.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	0	\$30.00	\$0.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$0.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	0	\$50.00	\$0.00
Sub-Total			\$0.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

BlueGrass Network LLC

Underground Plant: (Not Including Conduit or Manholes)

Cable in Conduit:	Feet	\$/Unit	Extension
Air Pipe	0	\$3.00	\$0.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$19.10	\$0.00
600 Pair	0	\$21.10	\$0.00
900 Pair	0	\$27.90	\$0.00
1200 Pair	0	\$29.70	\$0.00
1500 Pair	0	\$31.40	\$0.00
1800 Pair	0	\$35.00	\$0.00
2100 Pair	0	\$34.00	\$0.00
2400 Pair	0	\$33.00	\$0.00
2700 Pair	0	\$27.80	\$0.00
3000 Pair	0	\$38.30	\$0.00
3600 Pair	0	\$40.00	\$0.00
Sub-Total			\$0.00

Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)

Conduit:	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	0	\$56.10	\$0.00
9 - 102mm (4") Ducts	0	\$57.50	\$0.00
12 - 102mm (4") Ducts	0	\$60.00	\$0.00
Manholes	Each	\$/Unit	Extension
	0	\$15,000	\$0.00
Sub-Total			\$0.00

Aerial Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00
Sub-Total			\$0.00

Buried Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$8.25	\$0.00
24 Fiber Optics Cable	0	\$8.75	\$0.00
36 Fiber Optics Cable	0	\$9.50	\$0.00
48 Fiber Optics Cable	0	\$10.00	\$0.00
72 Fiber Optics Cable	0	\$11.25	\$0.00
96 Fiber Optics Cable	0	\$12.50	\$0.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	0	\$18.75	\$0.00
Sub-Total			0.00

Telephone Continued:

Company:

BlueGrass Network LLC

Load Coils:	Each	\$/Unit	Extension
25 Pair	0	\$350	\$0.00
50 Pair	0	\$600	\$0.00
100 Pair	0	\$1,090	\$0.00
200 Pair	0	\$1,670	\$0.00
300 Pair	0	\$2,230	\$0.00
400 Pair	0	\$2,480	\$0.00
450 Pair	0	\$3,230	\$0.00
600 Pair	0	\$4,040	\$0.00
750 Pair	0	\$5,040	\$0.00
900 Pair	0	\$6,000	\$0.00
Sub-Total			\$0.00

Circuit Equipment:	Each	\$/Unit	Extension
Apparatus Cases:			
819A2 / 40	0	\$8,000	\$0.00
841A2 / 100	0	\$12,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:	Each	\$/Unit	Extension
1200 Pair	0	\$3,500	\$0.00
1500 Pair	0	\$4,060	\$0.00
1800 Pair	0	\$4,200	\$0.00
2100 Pair	0	\$4,900	\$0.00
2400 Pair	0	\$5,600	\$0.00
2700 Pair	0	\$5,880	\$0.00
3000 Pair	0	\$6,440	\$0.00
3300 Pair	0	\$8,400	\$0.00
3600 Pair	0	\$9,600	\$0.00
Sub-Total			\$0.00

Remote Terminal Cabinets:	Range	Est. \$/Unit	Extension
\$60,000 - \$100,000 e	0	\$0	\$0.00
Sub-Total			\$0.00

Other Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Total	\$0.00
Participating Percentage	100%
TELEPHONE TOTAL	\$0.00

CABLE TELEVISION

Company:

Time Warner Cable

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	18	\$1,100	\$19,800.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	9	\$1,800	\$16,200.00
1.000 TV Cable	0	\$9.00	9	\$2,000	\$18,000.00
Fiber TV Cable	0	\$10.00	18	\$2,200	\$39,600.00

Each \$/Unit

Other Items:		0	\$0	\$0.00
Total				\$93,600.00
Participating Percentage				100%
CABLE TV TOTAL				\$93,600.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes Standard Back-to-Back	Single Track		Double Tracks		Extension
	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	Extension
	0	\$160,000	0	\$190,000	\$0.00
Flashing Light Signals and Bells	N/A		0	\$215,000	\$0.00
Sub-Total					\$0.00

Four (4) Traffic Lanes Standard Cantilever	Single Track		Double Tracks		Extension
	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
Sub-Total					\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings	0	\$250	\$0.00
	Concrete Crossings	0	\$625	\$0.00
Sub-Total				\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.				
	plus Rubber Crossing or \$250,000 crossing	0	\$315,000	\$0.00
Communications Underground (4-6 poles)		0	\$125,000	\$0.00
Other Railroad Items		0	\$0	\$0.00
Sub-Total				\$0.00
Total				\$0.00
RAILROAD TOTAL				\$0.00

DISTRICT THREE UTILITIES

This is a spreadsheet program based on the "Average Installed
Unit Prices of Utility Replacement Work for Estimating Purposes."

Revised by District Utility Agent: J.C. Puryear, Jr., July 2013

Subject:	Estimate Date:	July 28, 2014
County: / Fed. No.	WARREN	Fr. Sta. 101+50 to 123+50
UPN:	FD04 114 87674 01 D	
Road Name:	US-231, Bowling Green - Scottsville Road	
Description:	From Lovers Lane to Three Springs Road	
Item No.	3-8702.00	Section No. 2
Authorization No.	87674 0	Dated: 3/4/2013

Instructions: Type in appropriate numbers in areas within borders. "Type 1" means to type a 1 in one cell.

ESTIMATE SUMMARY:

Electric	\$252,000.00
Gas	\$226,600.00
Telephone	\$761,900.00
Cable TV	\$189,000.00
Railroad	\$0.00
Water & Sewer	\$831,150.00
Total for Companies	\$2,260,650.00

UTILITY ENGINEERING AND CONSTRUCTION CONTINGENCIES:

Class Estimate	Type 1	Percentage	
"A"	0	0.00	0.00
"B"	0	0.20	0.00
"C"	0	0.25	0.00
"D"	0	0.30	0.00
"E"	1	0.33	0.33
		Add	0.33
		Sub-Total	\$746,014.50

STATE FORCES ENGINEERING:

Estimated Cost	Type 1	Percentage	
\$1 - \$10,000	0	1.00	0.00
\$10,000-\$50,000	0	0.25	0.00
\$50,001-\$100,000	0	0.22	0.00
\$100,001-\$1,000,000	0	0.14	0.00
\$1,000,000 -UP	1	0.07	0.07
		Add	0.07
		Sub-Total	\$158,245.50

GRAND TOTAL FOR ESTIMATE	\$3,164,910
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USE (Round up to the nearest \$5,000)	\$3,165,000
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ELECTRIC

Company: Bowling Green Municipal Utilities - Electric Division

Power Poles With Cable Span & Connections:

Distribution Lines:	Each	\$/Unit	Extension
Single Phase Power Line	8	\$4,500	\$36,000
Pole Attachment Only	0	\$2,000	\$0
Sub-Total			\$36,000

Two Phase Power & Conductor			
Single Circuit Poles	0	\$5,000	\$0
Pole Attachment Only	0	\$2,500	\$0
Double Circuit Poles	0	\$7,000	\$0
Pole Attachment Only	0	\$4,500	\$0
Sub-Total			\$0

Three Phase Power & Conductor			
Single Circuit Poles	26	\$6,000	\$156,000
Pole Attachment Only	0	\$4,000	\$0
Double Circuit Poles	0	\$10,000	\$0
Pole Attachment Only	0	\$7,000	\$0
Sub-Total			\$156,000

Transmission Lines:			
69 KV Single Pole	0	\$20,000	\$0
69 KV H-Frame	0	\$35,000	\$0
161 KV Steel Tower	0	\$250,000	\$0
500 KV Steel Tower	0	\$300,000	\$0
Sub-Total			\$0

Street Lighting:			
Street Light Attachments	8	\$1,500	\$12,000
Wooden Pole w/ Attachments	0	\$2,000	\$0
Aluminum Pole w/ Attachments	16	\$3,000	\$48,000
Sub-Total			\$60,000

Underground Elec. Conduit:	Feet		
Single Phase - 1/0 AL Line	0	\$100.00	\$0
Three Phase - 750 Al Line	0	\$200.00	\$0
69 KV Power - 1500 CU Line	0	\$400.00	\$0
Sub-Total			\$0

Other Electric Items:	Each	\$/Unit	Extension
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
Sub-Total			\$0

Total	\$252,000
Participating Percentage	100%
ELECTRIC TOTAL	\$252,000

GAS

Company:

Atmos Energy Corporation

Service Lines:

	Service	\$/Unit	Extension
51 mm (2") & less (Private Services) on Gas Main Side of Road	0	\$800	\$0.00
on Opposite Side of Road	0	\$1,200	\$0.00
	Sub-Total		\$0.00

	Feet	\$/Unit	Ft-Bore	\$/Unit	Extension
25 mm (1") P.E.	0	\$18.00	0	\$5.50	\$0.00
51 mm (2") Plastic	0	\$27.00	0	\$11.00	\$0.00
102 mm (4") Plastic	0	\$36.00	0	\$22.00	\$0.00
	Sub-Total				\$0.00

Distribution Lines: (Steel)

25 mm (1") Steel	0	\$22.00	0	\$11.00	\$0.00
51 mm (2") Steel	0	\$39.00	0	\$22.00	\$0.00
102 mm (4") Steel	4,400	\$50.00	200	\$33.00	\$226,600.00
152 mm (6") Steel	0	\$70.00	0	\$44.00	\$0.00
203 mm (8") Steel	0	\$90.00	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$110.00	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$150.00	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$190.00	0	\$110.00	\$0.00
	Sub-Total				\$226,600.00

High Pressure Distribution Lines: (Steel)

102 mm (4") Steel	0	\$75.00	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$90.00	0	\$44.00	\$0.00
	Sub-Total				\$0.00

Transmission Lines: (Steel)

102 mm (4") Steel	0	\$430	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$500	0	\$44.00	\$0.00
203 mm (8") Steel	0	\$580	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$650	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$730	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$805	0	\$110.00	\$0.00
508 mm (20") Steel	0	\$880	0	\$130.00	\$0.00
610 mm (24") Steel	0	\$950	0	\$150.00	\$0.00
660 mm (26") Steel	0	\$1,030	0	\$170.00	\$0.00
762 mm (30") Steel	0	\$1,100	0	\$200.00	\$0.00
914 mm (36") Steel	0	\$1,200	0	\$240.00	\$0.00
107 cm (42") Steel	0	\$1,300	0	\$270.00	\$0.00
	Sub-Total				\$0.00

Other Gas Items:

	0	\$0	\$0.00
	0	\$0	\$0.00
	Sub-Total		\$0.00

Total	\$226,600.00
Participating Percentage	100%
GAS TOTAL	\$226,600.00

TELEPHONE

Company:

AT&T - Kentucky

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	1,500	\$6.00	\$9,000.00
50 Pair	200	\$8.00	\$1,600.00
100 Pair	500	\$13.00	\$6,500.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	1,000	\$23.00	\$23,000.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	1,000	\$30.00	\$30,000.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$70,100.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	400	\$50.00	\$20,000.00
Sub-Total			\$20,000.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

AT&T - Kentucky

Underground Plant: (Not Including Conduit or Manholes)

Cable in Conduit:

	Feet	\$/Unit	Extension
Air Pipe	2,200	\$4.00	\$8,800.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$24.00	\$0.00
600 Pair	0	\$27.00	\$0.00
900 Pair	7,000	\$35.00	\$245,000.00
1200 Pair	0	\$37.00	\$0.00
1500 Pair	0	\$39.00	\$0.00
1800 Pair	0	\$41.00	\$0.00
2100 Pair	0	\$43.00	\$0.00
2400 Pair	0	\$45.00	\$0.00
2700 Pair	0	\$47.00	\$0.00
3000 Pair	0	\$49.00	\$0.00
3600 Pair	0	\$51.00	\$0.00
Sub-Total			\$253,800.00

Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)

Conduit:

	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	2,200	\$75.00	\$165,000.00
9 - 102mm (4") Ducts	0	\$85.00	\$0.00
12 - 102mm (4") Ducts	0	\$100.00	\$0.00
	Each	\$/Unit	Extension
Manholes	4	\$15,000	\$60,000.00
Sub-Total			\$225,000.00

Aerial Fiber Plant:

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00
Sub-Total			\$0.00

Buried Fiber Plant:

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$8.25	\$0.00
24 Fiber Optics Cable	0	\$8.75	\$0.00
48 Fiber Optics Cable	3,400	\$10.00	\$34,000.00
96 Fiber Optics Cable	2,400	\$12.50	\$30,000.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	0	\$18.75	\$0.00
288 Fiber Optics Cable	2,400	\$22.50	\$54,000.00
360 Fiber Optics Cable	0	\$26.25	\$0.00
Sub-Total			118,000.00

Telephone Continued:

Company:

AT&T - Kentucky

Load Coils:	Each	\$/Unit	Extension
25 Pair	0	\$450	\$0.00
50 Pair	0	\$750	\$0.00
100 Pair	0	\$1,400	\$0.00
200 Pair	0	\$2,100	\$0.00
300 Pair	0	\$2,800	\$0.00
400 Pair	0	\$3,100	\$0.00
450 Pair	0	\$4,000	\$0.00
600 Pair	0	\$5,050	\$0.00
750 Pair	0	\$6,300	\$0.00
900 Pair	0	\$7,500	\$0.00
Sub-Total			\$0.00

Circuit Equipment:	Each	\$/Unit	Extension
Apparatus Cases:			
819A2 / 40	0	\$10,000	\$0.00
841A2 / 100	0	\$15,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:	Each	\$/Unit	Extension
1200 Pair	0		\$0.00
1500 Pair	0		\$0.00
1800 Pair	1	\$75,000	\$75,000.00
2100 Pair	0		\$0.00
2400 Pair	0		\$0.00
2700 Pair	0		\$0.00
3000 Pair	0		\$0.00
3300 Pair	0		\$0.00
3600 Pair	0		\$0.00
Sub-Total			\$75,000.00

Remote Terminal Cabinets:	Range	Est. \$/Unit	Extension
\$60,000 - \$300,000 e	0	\$0.00	\$0.00
Sub-Total			\$0.00

Other Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Total	\$761,900.00
Participating Percentage	100%
TELEPHONE TOTAL	\$761,900.00

CABLE TELEVISION

Company: Bowling Green Municipal Utilities - General Services Division

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	0	\$1,100	\$0.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	0	\$1,800	\$0.00
1.000 TV Cable	0	\$9.00	0	\$2,000	\$0.00
Fiber TV Cable	0	\$10.00	15	\$2,200	\$33,000.00
			Each	\$/Unit	

Other Items:		0	\$0	\$0.00
	Total			\$33,000.00
	Participating Percentage			100%
	CABLE TV TOTAL			\$33,000.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Back-to-Back	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	Extension
Flashing Light Signals and Bells	0	\$160,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$215,000	\$0.00
	Sub-Total				\$0.00

Four (4) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
	Sub-Total				\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings	0	\$250	\$0.00
	Concrete Crossings	0	\$625	\$0.00
	Sub-Total			\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.				
	Each	\$/Unit	Extension	
plus Rubber Crossing or \$250,000 crossing.	0	\$315,000	\$0.00	
Communications Underground (4-6 poles)	0	\$125,000	\$0.00	
Other Railroad Items	0	\$0	\$0.00	
	Sub-Total			\$0.00
	Total			\$0.00
	RAILROAD TOTAL			\$0.00

WATER and SEWER

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines:

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension
< 51 mm (2") D.I.W.L.	0	\$23.00	\$0.00
51 mm (2") D.I.W.M.	0	\$32.00	\$0.00
76 mm (3") D.I.W.M.	0	\$38.00	\$0.00
102 mm (4") D.I.W.M.	0	\$49.00	\$0.00
152 mm (6") D.I.W.M.	0	\$60.00	\$0.00
203 mm (8") D.I.W.M.	0	\$72.00	\$0.00
254 mm (10") D.I.W.M.	2,200	\$87.00	\$191,400.00
305 mm (12") D.I.W.M.	0	\$98.00	\$0.00
356 mm (14") D.I.W.M.	0	\$108.00	\$0.00
406 mm (16") D.I.W.M.	800	\$123.00	\$98,400.00
508 mm (20") D.I.W.M.	300	\$150.00	\$45,000.00
Sub-Total			\$334,800.00

PVC - Plastic Pipe

	Feet	\$/Unit	Extension
< 51 mm (2") PVC W.L.	0	\$17.00	\$0.00
51 mm (2") PVC W.M.	0	\$20.00	\$0.00
76 mm (3") PVC W.M.	0	\$26.00	\$0.00
102 mm (4") PVC W.M.	0	\$35.00	\$0.00
152 mm (6") PVC W.M.	0	\$43.00	\$0.00
203 mm (8") PVC W.M.	1,000	\$51.00	\$51,000.00
254 mm (10") PVC W.M.	0	\$65.00	\$0.00
305 mm (12") PVC W.M.	0	\$79.00	\$0.00
Sub-Total			\$51,000.00

Tapping Sleeve & Valves:

	Each	\$/Unit	Extension
508 mm (20") D.I. TS & V	2	\$5,000	\$10,000.00
152 mm (6") D.I. TS & V	0	\$2,300	\$0.00
203 mm (8") D.I. TS & V	0	\$3,000	\$0.00
254 mm (10") D.I. TS & V	4	\$3,800	\$15,200.00
406 mm (16") D.I. TS & V	2	\$4,800	\$9,600.00
102 mm (4") PVC TS & V	0	\$1,500	\$0.00
152 mm (6") PVC TS & V	0	\$1,900	\$0.00
203 mm (8") PVC TS & V	4	\$2,300	\$9,200.00
254 mm (10") PVC TS & V	0	\$3,000	\$0.00
305 mm (12") PVC TS & V	0	\$3,800	\$0.00
Sub-Total			\$44,000.00

Gate Valves: (G.V.)

	Each	\$/Unit	Extension
102 mm (4") D.I. G.V.	0	\$500	\$0.00
152 mm (6") D.I. G.V.	0	\$625	\$0.00
203 mm (8") D.I. G.V.	2	\$875	\$1,750.00
254 mm (10") D.I. G.V.	4	\$1,125	\$4,500.00
406 mm (16") D.I. G.V.	2	\$2,000	\$4,000.00
Sub-Total			\$10,250.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines Continued:

Tie Ins:

	Each	\$/Unit	Extension
508 mm (20") Tie In	1	\$3,000	\$3,000.00
152 mm (6") Tie In	0	\$1,200	\$0.00
203 mm (8") Tie In	2	\$1,500	\$3,000.00
254 mm (10") Tie In	2	\$1,900	\$3,800.00
406 mm (16") Tie In	1	\$2,500	\$2,500.00
Sub-Total			\$12,300.00

Misc. Water Items:

	Each	\$/Unit	Extension
Relocate Water Meter	0	\$700	\$0.00
Plug Existing Line	0	\$500	\$0.00
Fire Hydrant (Relocated)	0	\$750	\$0.00
Fire Hydrant (New)	0	\$1,500	\$0.00
Master Meters: Range	Est. \$/Unit		
from \$5,000 to \$25,000	0	\$0	\$0.00
Sub-Total			\$0.00

Sewer Lines: (Gravity Flow)

PVC - Plastic Pipe

	Feet	\$/Unit	Extension
152 mm (6") PVC S.L.	0	\$51.00	\$0.00
203 mm (8") PVC S.L.	400	\$65.00	\$26,000.00
254 mm (10") PVC S.L.	0	\$79.00	\$0.00
305 mm (12") PVC S.L.	1,000	\$94.00	\$94,000.00
Sub-Total			\$120,000.00

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension
152 mm (6") D.I.S.L.	0	\$65.00	\$0.00
203 mm (8") D.I.S.L.	0	\$79.00	\$0.00
254 mm (10") D.I.S.L.	0	\$94.00	\$0.00
305 mm (12") D.I.S.L.	0	\$108.00	\$0.00
356 mm (14") D.I.S.L.	0	\$123.00	\$0.00
406 mm (16") D.I.S.L.	0	\$144.00	\$0.00
457 mm (18") D.I.S.L.	0	\$181.00	\$0.00
610 mm (24") D.I.S.L.	0	\$253.00	\$0.00
762 mm (30") D.I.S.L.	0	\$325.00	\$0.00
914 mm (36") D.I.S.L.	0	\$397.00	\$0.00
107 cm (42") D.I.S.L.	0	\$470.00	\$0.00
Sub-Total			\$0.00

Conc. - Concrete Pipe:

	Feet	\$/Unit	Extension
457 mm (18") Conc. S.L.	0	\$145.00	\$0.00
610 mm (24") Conc. S.L.	0	\$216.00	\$0.00
762 mm (30") Conc. S.L.	0	\$290.00	\$0.00
914 mm (36") Conc. S.L.	0	\$360.00	\$0.00
Sub-Total			\$0.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Sewer Lines Continued:

Misc. Sewer Items:	Each	\$/Unit	Extension
Sewer Manhole	6	\$6,000	\$36,000.00
Tie to Existing Manhole	0	\$2,000	\$0.00
Reconnect Service	0	\$1,000	\$0.00
Cut & Plug Sewer Line	0	\$1,000	\$0.00
Sewer Pump Stations: Range		Est. \$/Unit	
from \$25,000 to \$250,000	0	\$0	\$0.00
Sub-Total			\$36,000.00

**** Force Main Sewer Lines: Use Water Line Prices**

Misc. Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Casing Pipe - Open Cut	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$38.00	\$0.00
254 mm (10") Steel Casing	0	\$84.00	\$0.00
305 mm (12") Steel Casing	0	\$99.00	\$0.00
406 mm (16") Steel Casing	0	\$146.00	\$0.00
457 mm (18") Steel Casing	0	\$178.00	\$0.00
508 mm (20") Steel Casing	0	\$218.00	\$0.00
610 mm (24") Steel Casing	0	\$250.00	\$0.00
Sub-Total			\$0.00

Casing Pipe - Bored	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$60.00	\$0.00
254 mm (10") Steel Casing	0	\$150.00	\$0.00
305 mm (12") Steel Casing	0	\$190.00	\$0.00
406 mm (16") Steel Casing	240	\$260.00	\$62,400.00
457 mm (18") Steel Casing	0	\$300.00	\$0.00
508 mm (20") Steel Casing	100	\$350.00	\$35,000.00
780 mm (30") Steel Casing	300	\$418.00	\$125,400.00
Sub-Total			\$222,800.00

Total	\$831,150.00
Participating Percentage	100%
WATER & SEWER TOTAL	\$831,150.00

TELEPHONE

Company:

BlueGrass Network LLC

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$6.00	\$0.00
50 Pair	0	\$8.00	\$0.00
100 Pair	0	\$13.00	\$0.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	0	\$23.00	\$0.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	0	\$30.00	\$0.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$0.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	0	\$50.00	\$0.00
Sub-Total			\$0.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

BlueGrass Network LLC

Underground Plant: (Not Including Conduit or Manholes)

Cable in Conduit:	Feet	\$/Unit	Extension
Air Pipe	0	\$3.00	\$0.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$19.10	\$0.00
600 Pair	0	\$21.10	\$0.00
900 Pair	0	\$27.90	\$0.00
1200 Pair	0	\$29.70	\$0.00
1500 Pair	0	\$31.40	\$0.00
1800 Pair	0	\$35.00	\$0.00
2100 Pair	0	\$34.00	\$0.00
2400 Pair	0	\$33.00	\$0.00
2700 Pair	0	\$27.80	\$0.00
3000 Pair	0	\$38.30	\$0.00
3600 Pair	0	\$40.00	\$0.00
Sub-Total			\$0.00

Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)

Conduit:	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	0	\$56.10	\$0.00
9 - 102mm (4") Ducts	0	\$57.50	\$0.00
12 - 102mm (4") Ducts	0	\$60.00	\$0.00
Manholes	Each	\$/Unit	Extension
	0	\$15,000	\$0.00
Sub-Total			\$0.00

Aerial Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00
Sub-Total			\$0.00

Buried Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$8.25	\$0.00
24 Fiber Optics Cable	0	\$8.75	\$0.00
36 Fiber Optics Cable	0	\$9.50	\$0.00
48 Fiber Optics Cable	0	\$10.00	\$0.00
72 Fiber Optics Cable	0	\$11.25	\$0.00
96 Fiber Optics Cable	0	\$12.50	\$0.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	0	\$18.75	\$0.00
Sub-Total			0.00

Telephone Continued:

Company:

BlueGrass Network LLC

Load Coils:	Each	\$/Unit	Extension
25 Pair	0	\$350	\$0.00
50 Pair	0	\$600	\$0.00
100 Pair	0	\$1,090	\$0.00
200 Pair	0	\$1,670	\$0.00
300 Pair	0	\$2,230	\$0.00
400 Pair	0	\$2,480	\$0.00
450 Pair	0	\$3,230	\$0.00
600 Pair	0	\$4,040	\$0.00
750 Pair	0	\$5,040	\$0.00
900 Pair	0	\$6,000	\$0.00
Sub-Total			\$0.00

Circuit Equipment:	Each	\$/Unit	Extension
Apparatus Cases:			
819A2 / 40	0	\$8,000	\$0.00
841A2 / 100	0	\$12,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:	Each	\$/Unit	Extension
1200 Pair	0	\$3,500	\$0.00
1500 Pair	0	\$4,060	\$0.00
1800 Pair	0	\$4,200	\$0.00
2100 Pair	0	\$4,900	\$0.00
2400 Pair	0	\$5,600	\$0.00
2700 Pair	0	\$5,880	\$0.00
3000 Pair	0	\$6,440	\$0.00
3300 Pair	0	\$8,400	\$0.00
3600 Pair	0	\$9,600	\$0.00
Sub-Total			\$0.00

Remote Terminal Cabinets:	Range	Est. \$/Unit	Extension
\$60,000 - \$100,000 e	0	\$0	\$0.00
Sub-Total			\$0.00

Other Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Total	\$0.00
Participating Percentage	100%
TELEPHONE TOTAL	\$0.00

CABLE TELEVISION

Company:

Time Warner Cable

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	30	\$1,100	\$33,000.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	15	\$1,800	\$27,000.00
1.000 TV Cable	0	\$9.00	15	\$2,000	\$30,000.00
Fiber TV Cable	0	\$10.00	30	\$2,200	\$66,000.00

Each \$/Unit

Other Items:		0	\$0	\$0.00
Total				\$156,000.00
Participating Percentage				100%
CABLE TV TOTAL				\$156,000.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes Standard Back-to-Back	Single Track		Double Tracks		Extension
	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	Extension
	0	\$160,000	0	\$190,000	\$0.00
Flashing Light Signals and Bells	N/A		0	\$215,000	\$0.00
Sub-Total					\$0.00

Four (4) Traffic Lanes Standard Cantilever	Single Track		Double Tracks		Extension
	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
Sub-Total					\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings		0	\$250
Concrete Crossings		0	\$625	\$0.00
Sub-Total				\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.				
plus Rubber Crossing or \$250,000 crossing		0	\$315,000	\$0.00
Communications Underground (4-6 poles)		0	\$125,000	\$0.00
Other Railroad Items		0	\$0	\$0.00
Sub-Total				\$0.00
Total				\$0.00
RAILROAD TOTAL				\$0.00

DISTRICT THREE UTILITIES

This is a spreadsheet program based on the "Average Installed Unit Prices of Utility Replacement Work for Estimating Purposes."

Revised by District Utility Agent: J.C. Puryear, Jr., July 2013

Subject:	Estimate Date:	July 28, 2014
County: / Fed. No.	WARREN	Fr. Sta. 123+50 to 147+50
UPN:	FD04 114 87674 01 D	
Road Name:	US-231, Bowling Green - Scottsville Road	
Description:	From Lovers Lane to Three Springs Road	
Item No.	3-8702.00	Section No. 3
Authorization No.	87674 0	Dated: 3/4/2013

Instructions: Type in appropriate numbers in areas within borders.
"Type 1" means to type a 1 in one cell.

ESTIMATE SUMMARY:

Electric	\$234,000.00
Gas	\$173,200.00
Telephone	\$1,596,975.00
Cable TV	\$126,000.00
Railroad	\$0.00
Water & Sewer	\$707,760.00
Total for Companies	\$2,837,935.00

UTILITY ENGINEERING AND CONSTRUCTION CONTINGENCIES:

Class Estimate	Type 1	Percentage	
"A"	0	0.00	0.00
"B"	0	0.20	0.00
"C"	0	0.25	0.00
"D"	0	0.30	0.00
"E"	1	0.33	0.33
		Add	0.33
		Sub-Total	\$936,518.55

STATE FORCES ENGINEERING:

Estimated Cost	Type 1	Percentage	
\$1 - \$10,000	0	1.00	0.00
\$10,000-\$50,000	0	0.25	0.00
\$50,001-\$100,000	0	0.22	0.00
\$100,001-\$1,000,000	0	0.14	0.00
\$1,000,000 -UP	1	0.07	0.07
		Add	0.07
		Sub-Total	\$198,655.45

GRAND TOTAL FOR ESTIMATE	\$3,973,109
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USE (Round up to the nearest \$5,000)	\$3,975,000
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ELECTRIC

Company: **Bowling Green Municipal Utilities - Electric Division**

Power Poles With Cable Span & Connections:

Distribution Lines:	Each	\$/Unit	Extension
Single Phase Power Line	8	\$4,500	\$36,000
Pole Attachment Only	0	\$2,000	\$0
Sub-Total			\$36,000

Two Phase Power & Conductor	Each	\$/Unit	Extension
Single Circuit Poles	0	\$5,000	\$0
Pole Attachment Only	0	\$2,500	\$0
Double Circuit Poles	0	\$7,000	\$0
Pole Attachment Only	0	\$4,500	\$0
Sub-Total			\$0

Three Phase Power & Conductor	Each	\$/Unit	Extension
Single Circuit Poles	23	\$6,000	\$138,000
Pole Attachment Only	0	\$4,000	\$0
Double Circuit Poles	0	\$10,000	\$0
Pole Attachment Only	0	\$7,000	\$0
Sub-Total			\$138,000

Transmission Lines:	Each	\$/Unit	Extension
69 KV Single Pole	0	\$20,000	\$0
69 KV H-Frame	0	\$35,000	\$0
161 KV Steel Tower	0	\$250,000	\$0
500 KV Steel Tower	0	\$300,000	\$0
Sub-Total			\$0

Street Lighting:	Each	\$/Unit	Extension
Street Light Attachments	8	\$1,500	\$12,000
Wooden Pole w/ Attachments	0	\$2,000	\$0
Aluminum Pole w/ Attachments	16	\$3,000	\$48,000
Sub-Total			\$60,000

Underground Elec. Conduit:	Feet	\$/Unit	Extension
Single Phase - 1/0 AL Line	0	\$100.00	\$0
Three Phase - 750 Al Line	0	\$200.00	\$0
69 KV Power - 1500 CU Line	0	\$400.00	\$0
Sub-Total			\$0

Other Electric Items:	Each	\$/Unit	Extension
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
Sub-Total			\$0

Total	\$234,000
Participating Percentage	100%
ELECTRIC TOTAL	\$234,000

GAS

Company:

Atmos Energy Corporation

Service Lines:

51 mm (2") & less (Private Services)

on Gas Main Side of Road

on Opposite Side of Road

Service	\$/Unit	Extension
0	\$800	\$0.00
0	\$1,200	\$0.00
Sub-Total		\$0.00

	Feet	\$/Unit	Ft-Bore	\$/Unit	Extension
25 mm (1") P.E.	0	\$18.00	0	\$5.50	\$0.00
51 mm (2") Plastic	0	\$27.00	0	\$11.00	\$0.00
102 mm (4") Plastic	0	\$36.00	0	\$22.00	\$0.00
Sub-Total					\$0.00

Distribution Lines: (Steel)

25 mm (1") Steel	0	\$22.00	0	\$11.00	\$0.00
51 mm (2") Steel	0	\$39.00	0	\$22.00	\$0.00
102 mm (4") Steel	1,800	\$50.00	0	\$33.00	\$90,000.00
152 mm (6") Steel	1,000	\$70.00	300	\$44.00	\$83,200.00
203 mm (8") Steel	0	\$90.00	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$110.00	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$150.00	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$190.00	0	\$110.00	\$0.00
Sub-Total					\$173,200.00

High Pressure Distribution Lines: (Steel)

102 mm (4") Steel	0	\$75.00	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$90.00	0	\$44.00	\$0.00
Sub-Total					\$0.00

Transmission Lines: (Steel)

102 mm (4") Steel	0	\$430	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$500	0	\$44.00	\$0.00
203 mm (8") Steel	0	\$580	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$650	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$730	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$805	0	\$110.00	\$0.00
508 mm (20") Steel	0	\$880	0	\$130.00	\$0.00
610 mm (24") Steel	0	\$950	0	\$150.00	\$0.00
660 mm (26") Steel	0	\$1,030	0	\$170.00	\$0.00
762 mm (30") Steel	0	\$1,100	0	\$200.00	\$0.00
914 mm (36") Steel	0	\$1,200	0	\$240.00	\$0.00
107 cm (42") Steel	0	\$1,300	0	\$270.00	\$0.00
Sub-Total					\$0.00

Other Gas Items:

	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Total	\$173,200.00
Participating Percentage	100%
GAS TOTAL	\$173,200.00

TELEPHONE

Company:

AT&T - Kentucky

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$6.00	\$0.00
50 Pair	0	\$8.00	\$0.00
100 Pair	0	\$13.00	\$0.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	0	\$23.00	\$0.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	0	\$30.00	\$0.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$0.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	200	\$50.00	\$10,000.00
Sub-Total			\$10,000.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

AT&T - Kentucky**Underground Plant: (Not Including Conduit or Manholes)****Cable in Conduit:**

	Feet	\$/Unit	Extension
Air Pipe	5,000	\$4.00	\$20,000.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$24.00	\$0.00
600 Pair	0	\$27.00	\$0.00
900 Pair	5,500	\$35.00	\$192,500.00
1200 Pair	5,000	\$37.00	\$185,000.00
1500 Pair	800	\$39.00	\$31,200.00
1800 Pair	0	\$41.00	\$0.00
2100 Pair	0	\$43.00	\$0.00
2400 Pair	0	\$45.00	\$0.00
2700 Pair	0	\$47.00	\$0.00
3000 Pair	0	\$49.00	\$0.00
3600 Pair	0	\$51.00	\$0.00

Sub-Total \$428,700.00**Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)****Conduit:**

	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	2,400	\$75.00	\$180,000.00
9 - 102mm (4") Ducts	0	\$85.00	\$0.00
12 - 102mm (4") Ducts	2,400	\$100.00	\$240,000.00

Manholes	Each	\$/Unit	Extension
	7	\$15,000	\$105,000.00

Sub-Total \$525,000.00**Aerial Fiber Plant:**

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00

Sub-Total \$0.00**Buried Fiber Plant:**

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	800	\$8.25	\$6,600.00
24 Fiber Optics Cable	500	\$8.75	\$4,375.00
48 Fiber Optics Cable	3,100	\$10.00	\$31,000.00
96 Fiber Optics Cable	5,200	\$12.50	\$65,000.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	2,600	\$18.75	\$48,750.00
288 Fiber Optics Cable	2,600	\$22.50	\$58,500.00
360 Fiber Optics Cable	0	\$26.25	\$0.00

Sub-Total 214,225.00

Telephone Continued:

Company:

AT&T - Kentucky

Load Coils:

	Each	\$/Unit	Extension
25 Pair	0	\$450	\$0.00
50 Pair	0	\$750	\$0.00
100 Pair	0	\$1,400	\$0.00
200 Pair	0	\$2,100	\$0.00
300 Pair	0	\$2,800	\$0.00
400 Pair	0	\$3,100	\$0.00
450 Pair	4	\$4,000	\$16,000.00
600 Pair	1	\$5,050	\$5,050.00
750 Pair	0	\$6,300	\$0.00
900 Pair	0	\$7,500	\$0.00
Sub-Total			\$21,050.00

Circuit Equipment:

Apparatus Cases:

	Each	\$/Unit	Extension
819A2 / 40	0	\$10,000	\$0.00
841A2 / 100	0	\$15,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:

	Each	\$/Unit	Extension
1200 Pair	0	\$4,400	\$0.00
1500 Pair	0	\$5,100	\$0.00
1800 Pair	0	\$5,300	\$0.00
2100 Pair	0	\$6,100	\$0.00
2400 Pair	0	\$7,000	\$0.00
2700 Pair	0	\$7,400	\$0.00
3000 Pair	0	\$8,000	\$0.00
3300 Pair	0	\$10,500	\$0.00
3600 Pair	0	\$12,000	\$0.00
Sub-Total			\$0.00

Remote Terminal Cabinets: Range

	Est. \$/Unit	Extension
\$60,000 - \$300,000 e <input type="text" value="1"/>	<input type="text" value="\$300,000.00"/>	<input type="text" value="\$300,000.00"/>
Sub-Total		\$300,000.00

Other Items:

	Each	\$/Unit	Extension
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="\$0"/>	<input type="text" value="\$0.00"/>
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="\$0"/>	<input type="text" value="\$0.00"/>
<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="\$0"/>	<input type="text" value="\$0.00"/>
Sub-Total			\$0.00

Total	\$1,498,975.00
Participating Percentage	100%
TELEPHONE TOTAL	\$1,498,975.00

CABLE TELEVISION

Company: Bowling Green Municipal Utilities - General Services Division

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	0	\$1,100	\$0.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	0	\$1,800	\$0.00
1.000 TV Cable	0	\$9.00	0	\$2,000	\$0.00
Fiber TV Cable	0	\$10.00	10	\$2,200	\$22,000.00
			Each	\$/Unit	

Other Items:		0	\$0	\$0.00
	Total			\$22,000.00
	Participating Percentage			100%
	CABLE TV TOTAL			\$22,000.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Back-to-Back	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	Extension
Flashing Light Signals and Bells	0	\$160,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$215,000	\$0.00
	Sub-Total				\$0.00

Four (4) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
	Sub-Total				\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings	0	\$250	\$0.00
	Concrete Crossings	0	\$625	\$0.00
	Sub-Total			\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.				
	Each	\$/Unit	Extension	
plus Rubber Crossing or \$250,000 crossing.	0	\$315,000	\$0.00	
Communications Underground (4-6 poles)	0	\$125,000	\$0.00	
Other Railroad Items	0	\$0	\$0.00	
	Sub-Total			\$0.00
	Total			\$0.00
	RAILROAD TOTAL			\$0.00

WATER and SEWER

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines:

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension	
< 51 mm (2") D.I.W.L.	0	\$23.00	\$0.00	\$29
51 mm (2") D.I.W.M.	0	\$32.00	\$0.00	
76 mm (3") D.I.W.M.	0	\$38.00	\$0.00	
102 mm (4") D.I.W.M.	0	\$49.00	\$0.00	
152 mm (6") D.I.W.M.	0	\$60.00	\$0.00	
203 mm (8") D.I.W.M.	0	\$72.00	\$0.00	
254 mm (10") D.I.W.M.	2,400	\$87.00	\$208,800.00	
305 mm (12") D.I.W.M.	0	\$98.00	\$0.00	
356 mm (14") D.I.W.M.	0	\$108.00	\$0.00	
406 mm (16") D.I.W.M.	2,400	\$123.00	\$295,200.00	
457 mm (18") D.I.W.M.	0	\$144.00	\$0.00	
			Sub-Total	\$504,000.00

PVC - Plastic Pipe

	Feet	\$/Unit	Extension	
< 51 mm (2") PVC W.L.	0	\$17.00	\$0.00	
51 mm (2") PVC W.M.	0	\$20.00	\$0.00	
76 mm (3") PVC W.M.	0	\$26.00	\$0.00	
102 mm (4") PVC W.M.	0	\$35.00	\$0.00	
152 mm (6") PVC W.M.	0	\$43.00	\$0.00	
203 mm (8") PVC W.M.	0	\$51.00	\$0.00	
254 mm (10") PVC W.M.	0	\$65.00	\$0.00	
305 mm (12") PVC W.M.	0	\$79.00	\$0.00	
			Sub-Total	\$0.00

Tapping Sleeve & Valves:

	Each	\$/Unit	Extension	
102 mm (4") D.I. TS & V	0	\$1,900	\$0.00	
152 mm (6") D.I. TS & V	0	\$2,300	\$0.00	
203 mm (8") D.I. TS & V	0	\$3,000	\$0.00	
254 mm (10") D.I. TS & V	2	\$3,800	\$7,600.00	
406 mm (16") D.I. TS & V	2	\$4,800	\$9,600.00	
102 mm (4") PVC TS & V	0	\$1,500	\$0.00	
152 mm (6") PVC TS & V	1	\$1,900	\$1,900.00	
203 mm (8") PVC TS & V	0	\$2,300	\$0.00	
254 mm (10") PVC TS & V	0	\$3,000	\$0.00	
305 mm (12") PVC TS & V	0	\$3,800	\$0.00	
			Sub-Total	\$19,100.00

Gate Valves: (G.V.)

	Each	\$/Unit	Extension	
102 mm (4") D.I. G.V.	0	\$500	\$0.00	
152 mm (6") D.I. G.V.	0	\$625	\$0.00	
203 mm (8") D.I. G.V.	0	\$875	\$0.00	
254 mm (10") D.I. G.V.	4	\$1,125	\$4,500.00	
406 mm (16") D.I. G.V.	2	\$2,000	\$4,000.00	
			Sub-Total	\$8,500.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines Continued:

Tie Ins:

	Each	\$/Unit	Extension
102 mm (4") Tie In	0	\$900	\$0.00
152 mm (6") Tie In	1	\$1,200	\$1,200.00
203 mm (8") Tie In	0	\$1,500	\$0.00
254 mm (10") Tie In	2	\$1,900	\$3,800.00
406 mm (16") Tie In	1	\$2,500	\$2,500.00
Sub-Total			\$7,500.00

Misc. Water Items:

	Each	\$/Unit	Extension
Relocate Water Meter	0	\$700	\$0.00
Plug Existing Line	0	\$500	\$0.00
Fire Hydrant (Relocated)	0	\$750	\$0.00
Fire Hydrant (New)	0	\$1,500	\$0.00
Master Meters: Range	Est. \$/Unit		
from \$5,000 to \$25,000	0	\$0	\$0.00
Sub-Total			\$0.00

Sewer Lines: (Gravity Flo

PVC - Plastic Pipe

	Feet	\$/Unit	Extension
152 mm (6") PVC S.L.	1,500	\$51.00	\$76,500.00
203 mm (8") PVC S.L.	0	\$65.00	\$0.00
254 mm (10") PVC S.L.	0	\$79.00	\$0.00
305 mm (12") PVC S.L.	0	\$94.00	\$0.00
Sub-Total			\$76,500.00

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension
152 mm (6") D.I.S.L.	0	\$65.00	\$0.00
203 mm (8") D.I.S.L.	0	\$79.00	\$0.00
254 mm (10") D.I.S.L.	0	\$94.00	\$0.00
305 mm (12") D.I.S.L.	0	\$108.00	\$0.00
356 mm (14") D.I.S.L.	0	\$123.00	\$0.00
406 mm (16") D.I.S.L.	0	\$144.00	\$0.00
457 mm (18") D.I.S.L.	0	\$181.00	\$0.00
610 mm (24") D.I.S.L.	0	\$253.00	\$0.00
762 mm (30") D.I.S.L.	0	\$325.00	\$0.00
914 mm (36") D.I.S.L.	0	\$397.00	\$0.00
107 cm (42") D.I.S.L.	0	\$470.00	\$0.00
Sub-Total			\$0.00

Conc. - Concrete Pipe:

	Feet	\$/Unit	Extension
457 mm (18") Conc. S.L.	0	\$145.00	\$0.00
610 mm (24") Conc. S.L.	0	\$216.00	\$0.00
762 mm (30") Conc. S.L.	0	\$290.00	\$0.00
914 mm (36") Conc. S.L.	0	\$360.00	\$0.00
Sub-Total			\$0.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Sewer Lines Continued:

Misc. Sewer Items:	Each	\$/Unit	Extension
Sewer Manhole	0	\$6,000	\$0.00
Tie to Existing Manhole	0	\$2,000	\$0.00
Reconnect Service	0	\$1,000	\$0.00
Cut & Plug Sewer Line	0	\$1,000	\$0.00
Sewer Pump Stations: Range		Est. \$/Unit	
from \$25,000 to \$250,000	0	\$0	\$0.00
Sub-Total			\$0.00

**** Force Main Sewer Lines: Use Water Line Prices**

Misc. Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Casing Pipe - Open Cut	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$38.00	\$0.00
254 mm (10") Steel Casing	0	\$84.00	\$0.00
305 mm (12") Steel Casing	0	\$99.00	\$0.00
406 mm (16") Steel Casing	0	\$146.00	\$0.00
457 mm (18") Steel Casing	0	\$178.00	\$0.00
508 mm (20") Steel Casing	0	\$218.00	\$0.00
610 mm (24") Steel Casing	0	\$250.00	\$0.00
Sub-Total			\$0.00

Casing Pipe - Bored	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$60.00	\$0.00
254 mm (10") Steel Casing	0	\$150.00	\$0.00
305 mm (12") Steel Casing	0	\$190.00	\$0.00
406 mm (16") Steel Casing	0	\$260.00	\$0.00
457 mm (18") Steel Casing	0	\$300.00	\$0.00
508 mm (20") Steel Casing	120	\$350.00	\$42,000.00
610 mm (24") Steel Casing	120	\$418.00	\$50,160.00
Sub-Total			\$92,160.00

Total	\$707,760.00
Participating Percentage	100%
WATER & SEWER TOTAL	\$707,760.00

TELEPHONE

Company:

BlueGrass Network LLC

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$6.00	\$0.00
50 Pair	0	\$8.00	\$0.00
100 Pair	0	\$13.00	\$0.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	0	\$23.00	\$0.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	0	\$30.00	\$0.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$0.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	600	\$50.00	\$30,000.00
Sub-Total			\$30,000.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

BlueGrass Network LLC

Underground Plant: (Not Including Conduit or Manholes)

Cable in Conduit:	Feet	\$/Unit	Extension
Air Pipe	0	\$3.00	\$0.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$19.10	\$0.00
600 Pair	0	\$21.10	\$0.00
900 Pair	0	\$27.90	\$0.00
1200 Pair	0	\$29.70	\$0.00
1500 Pair	0	\$31.40	\$0.00
1800 Pair	0	\$35.00	\$0.00
2100 Pair	0	\$34.00	\$0.00
2400 Pair	0	\$33.00	\$0.00
2700 Pair	0	\$27.80	\$0.00
3000 Pair	0	\$38.30	\$0.00
3600 Pair	0	\$40.00	\$0.00
Sub-Total			\$0.00

Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)

Conduit:	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	0	\$56.10	\$0.00
9 - 102mm (4") Ducts	0	\$57.50	\$0.00
12 - 102mm (4") Ducts	0	\$60.00	\$0.00
Manholes	Each	\$/Unit	Extension
	0	\$15,000	\$0.00
Sub-Total			\$0.00

Aerial Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00
Sub-Total			\$0.00

Buried Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$8.25	\$0.00
24 Fiber Optics Cable	3,400	\$8.75	\$29,750.00
36 Fiber Optics Cable	0	\$9.50	\$0.00
48 Fiber Optics Cable	0	\$10.00	\$0.00
72 Fiber Optics Cable	3,400	\$11.25	\$38,250.00
96 Fiber Optics Cable	0	\$12.50	\$0.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	0	\$18.75	\$0.00
Sub-Total			68,000.00

Telephone Continued:

Company:

BlueGrass Network LLC

Load Coils:	Each	\$/Unit	Extension
25 Pair	0	\$350	\$0.00
50 Pair	0	\$600	\$0.00
100 Pair	0	\$1,090	\$0.00
200 Pair	0	\$1,670	\$0.00
300 Pair	0	\$2,230	\$0.00
400 Pair	0	\$2,480	\$0.00
450 Pair	0	\$3,230	\$0.00
600 Pair	0	\$4,040	\$0.00
750 Pair	0	\$5,040	\$0.00
900 Pair	0	\$6,000	\$0.00
Sub-Total			\$0.00

Circuit Equipment:	Each	\$/Unit	Extension
Apparatus Cases:			
819A2 / 40	0	\$8,000	\$0.00
841A2 / 100	0	\$12,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:	Each	\$/Unit	Extension
1200 Pair	0	\$3,500	\$0.00
1500 Pair	0	\$4,060	\$0.00
1800 Pair	0	\$4,200	\$0.00
2100 Pair	0	\$4,900	\$0.00
2400 Pair	0	\$5,600	\$0.00
2700 Pair	0	\$5,880	\$0.00
3000 Pair	0	\$6,440	\$0.00
3300 Pair	0	\$8,400	\$0.00
3600 Pair	0	\$9,600	\$0.00
Sub-Total			\$0.00

Remote Terminal Cabinets:	Range	Est. \$/Unit	Extension
\$60,000 - \$100,000 e	0	\$0	\$0.00
Sub-Total			\$0.00

Other Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Total	\$98,000.00
Participating Percentage	100%
TELEPHONE TOTAL	\$98,000.00

CABLE TELEVISION

Company:

Time Warner Cable

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	20	\$1,100	\$22,000.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	10	\$1,800	\$18,000.00
1.000 TV Cable	0	\$9.00	10	\$2,000	\$20,000.00
Fiber TV Cable	0	\$10.00	20	\$2,200	\$44,000.00

Each \$/Unit

Other Items:		0	\$0	\$0.00
Total				\$104,000.00
Participating Percentage				100%
CABLE TV TOTAL				\$104,000.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes Standard Back-to-Back	Single Track		Double Tracks		Extension
	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Single Track		Double Tracks		Extension
	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$160,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$215,000	\$0.00
Sub-Total					\$0.00

Four (4) Traffic Lanes	Single Track		Double Tracks		Extension
	Each	\$/Unit	Each	\$/Unit	
Standard Cantilever Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
Sub-Total					\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings	0	\$250	\$0.00
	Concrete Crossings	0	\$625	\$0.00
Sub-Total				\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.

	Each	\$/Unit	Extension
plus Rubber Crossing or \$250,000 crossing	0	\$315,000	\$0.00
Communications Underground (4-6 poles)	0	\$125,000	\$0.00
Other Railroad Items	0	\$0	\$0.00
Sub-Total			\$0.00
Total			\$0.00
RAILROAD TOTAL			\$0.00

DISTRICT THREE UTILITIES

This is a spreadsheet program based on the "Average Installed Unit Prices of Utility Replacement Work for Estimating Purposes."

Revised by District Utility Agent: J.C. Puryear, Jr., July 2013

Subject:	Estimate Date:	July 28, 2014
County: / Fed. No.	WARREN	Fr. Sta. 147+50 to End
UPN:	FD04 114 87674 01 D	
Road Name:	US-231, Bowling Green - Scottsville Road	
Description:	From Lovers Lane to Three Springs Road	
Item No.	3-8702.00	Section No. 4
Authorization No.	87674 0	Dated: 3/4/2013

Instructions: Type in appropriate numbers in areas within borders.
"Type 1" means to type a 1 in one cell.

ESTIMATE SUMMARY:

Electric	\$24,000.00
Gas	\$60,000.00
Telephone	\$659,200.00
Cable TV	\$0.00
Railroad	\$0.00
Water & Sewer	\$269,300.00
Total for Companies	\$1,012,500.00

UTILITY ENGINEERING AND CONSTRUCTION CONTINGENCIES:

Class Estimate	Type 1	Percentage	
"A"	0	0.00	0.00
"B"	0	0.20	0.00
"C"	0	0.25	0.00
"D"	0	0.30	0.00
"E"	1	0.33	0.33
		Add	0.33
		Sub-Total	\$334,125.00

STATE FORCES ENGINEERING:

Estimated Cost	Type 1	Percentage	
\$1 - \$10,000	0	1.00	0.00
\$10,000-\$50,000	0	0.25	0.00
\$50,001-\$100,000	0	0.22	0.00
\$100,001-\$1,000,000	0	0.14	0.00
\$1,000,000 -UP	1	0.07	0.07
		Add	0.07
		Sub-Total	\$70,875.00

GRAND TOTAL FOR ESTIMATE	\$1,417,500
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USE (Round up to the nearest \$5,000)	\$1,420,000
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ELECTRIC

Company: Bowling Green Municipal Utilities - Electric Division

Power Poles With Cable Span & Connections:

Distribution Lines:	Each	\$/Unit	Extension
Single Phase Power Line	0	\$4,500	\$0
Pole Attachment Only	0	\$2,000	\$0
Sub-Total			\$0

Two Phase Power & Conductor

Single Circuit Poles	0	\$5,000	\$0
Pole Attachment Only	0	\$2,500	\$0
Double Circuit Poles	0	\$7,000	\$0
Pole Attachment Only	0	\$4,500	\$0
Sub-Total			\$0

Three Phase Power & Conductor

Single Circuit Poles	0	\$6,000	\$0
Pole Attachment Only	0	\$4,000	\$0
Double Circuit Poles	0	\$10,000	\$0
Pole Attachment Only	0	\$7,000	\$0
Sub-Total			\$0

Transmission Lines:

69 KV Single Pole	0	\$20,000	\$0
69 KV H-Frame	0	\$35,000	\$0
161 KV Steel Tower	0	\$250,000	\$0
500 KV Steel Tower	0	\$300,000	\$0
Sub-Total			\$0

Street Lighting:

Street Light Attachments	0	\$1,500	\$0
Wooden Pole w/ Attachments	0	\$2,000	\$0
Aluminum Pole w/ Attachments	8	\$3,000	\$24,000
Sub-Total			\$24,000

Underground Elec. Conduit:

	Feet		
Single Phase - 1/0 AL Line	0	\$100.00	\$0
Three Phase - 750 Al Line	0	\$200.00	\$0
69 KV Power - 1500 CU Line	0	\$400.00	\$0
Sub-Total			\$0

Other Electric Items:

	Each	\$/Unit	Extension
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
Sub-Total			\$0

Total	\$24,000
Participating Percentage	100%
ELECTRIC TOTAL	\$24,000

GAS

Company:

Atmos Energy Corporation

Service Lines:

	Service	\$/Unit	Extension
51 mm (2") & less (Private Services) on Gas Main Side of Road	0	\$800	\$0.00
on Opposite Side of Road	0	\$1,200	\$0.00
	Sub-Total		\$0.00

	Feet	\$/Unit	Ft-Bore	\$/Unit	Extension
25 mm (1") P.E.	0	\$18.00	0	\$5.50	\$0.00
51 mm (2") Plastic	0	\$27.00	0	\$11.00	\$0.00
102 mm (4") Plastic	0	\$36.00	0	\$22.00	\$0.00
	Sub-Total				\$0.00

Distribution Lines: (Steel)

25 mm (1") Steel	0	\$22.00	0	\$11.00	\$0.00
51 mm (2") Steel	0	\$39.00	0	\$22.00	\$0.00
102 mm (4") Steel	1,200	\$50.00	0	\$33.00	\$60,000.00
152 mm (6") Steel	0	\$70.00	0	\$44.00	\$0.00
203 mm (8") Steel	0	\$90.00	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$110.00	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$150.00	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$190.00	0	\$110.00	\$0.00
	Sub-Total				\$60,000.00

High Pressure Distribution Lines: (Steel)

102 mm (4") Steel	0	\$75.00	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$90.00	0	\$44.00	\$0.00
	Sub-Total				\$0.00

Transmission Lines: (Steel)

102 mm (4") Steel	0	\$430	0	\$33.00	\$0.00
152 mm (6") Steel	0	\$500	0	\$44.00	\$0.00
203 mm (8") Steel	0	\$580	0	\$55.00	\$0.00
254 mm (10") Steel	0	\$650	0	\$66.00	\$0.00
305 mm (12") Steel	0	\$730	0	\$88.00	\$0.00
406 mm (16") Steel	0	\$805	0	\$110.00	\$0.00
508 mm (20") Steel	0	\$880	0	\$130.00	\$0.00
610 mm (24") Steel	0	\$950	0	\$150.00	\$0.00
660 mm (26") Steel	0	\$1,030	0	\$170.00	\$0.00
762 mm (30") Steel	0	\$1,100	0	\$200.00	\$0.00
914 mm (36") Steel	0	\$1,200	0	\$240.00	\$0.00
107 cm (42") Steel	0	\$1,300	0	\$270.00	\$0.00
	Sub-Total				\$0.00

Other Gas Items:

	0	\$0	\$0.00
	0	\$0	\$0.00
	Sub-Total		\$0.00

Total	\$60,000.00
Participating Percentage	100%
GAS TOTAL	\$60,000.00

TELEPHONE

Company:

AT&T - Kentucky

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$6.00	\$0.00
50 Pair	0	\$8.00	\$0.00
100 Pair	0	\$13.00	\$0.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	0	\$23.00	\$0.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	0	\$30.00	\$0.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$0.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	0	\$50.00	\$0.00
Sub-Total			\$0.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

AT&T - Kentucky

Underground Plant: (Not Including Conduit or Manholes)

Cable in Conduit:

	Feet	\$/Unit	Extension
Air Pipe	1,200	\$4.00	\$4,800.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$24.00	\$0.00
600 Pair	0	\$27.00	\$0.00
900 Pair	2,600	\$35.00	\$91,000.00
1200 Pair	0	\$37.00	\$0.00
1500 Pair	2,600	\$39.00	\$101,400.00
1800 Pair	0	\$41.00	\$0.00
2100 Pair	0	\$43.00	\$0.00
2400 Pair	0	\$45.00	\$0.00
2700 Pair	0	\$47.00	\$0.00
3000 Pair	0	\$49.00	\$0.00
3600 Pair	0	\$51.00	\$0.00
Sub-Total			\$197,200.00

Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)

Conduit:

	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	0	\$75.00	\$0.00
9 - 102mm (4") Ducts	1,200	\$85.00	\$102,000.00
12 - 102mm (4") Ducts	0	\$100.00	\$0.00
	Each	\$/Unit	Extension
Manholes	2	\$15,000	\$30,000.00
Sub-Total			\$132,000.00

Aerial Fiber Plant:

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00
Sub-Total			\$0.00

Buried Fiber Plant:

	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$8.25	\$0.00
24 Fiber Optics Cable	0	\$8.75	\$0.00
48 Fiber Optics Cable	3,500	\$10.00	\$35,000.00
96 Fiber Optics Cable	3,500	\$12.50	\$43,750.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	8,500	\$18.75	\$159,375.00
288 Fiber Optics Cable	0	\$22.50	\$0.00
360 Fiber Optics Cable	3,500	\$26.25	\$91,875.00
Sub-Total			330,000.00

Telephone Continued:

Company:

AT&T - Kentucky

Load Coils:	Each	\$/Unit	Extension
25 Pair	0	\$450	\$0.00
50 Pair	0	\$750	\$0.00
100 Pair	0	\$1,400	\$0.00
200 Pair	0	\$2,100	\$0.00
300 Pair	0	\$2,800	\$0.00
400 Pair	0	\$3,100	\$0.00
450 Pair	0	\$4,000	\$0.00
600 Pair	0	\$5,050	\$0.00
750 Pair	0	\$6,300	\$0.00
900 Pair	0	\$7,500	\$0.00
Sub-Total			\$0.00

Circuit Equipment:	Each	\$/Unit	Extension
Apparatus Cases:			
819A2 / 40	0	\$10,000	\$0.00
841A2 / 100	0	\$15,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:	Each	\$/Unit	Extension
1200 Pair	0	\$4,400	\$0.00
1500 Pair	0	\$5,100	\$0.00
1800 Pair	0	\$5,300	\$0.00
2100 Pair	0	\$6,100	\$0.00
2400 Pair	0	\$7,000	\$0.00
2700 Pair	0	\$7,400	\$0.00
3000 Pair	0	\$8,000	\$0.00
3300 Pair	0	\$10,500	\$0.00
3600 Pair	0	\$12,000	\$0.00
Sub-Total			\$0.00

Remote Terminal Cabinets: Range	Est. \$/Unit	Extension
\$60,000 - \$300,000 e	0	\$0.00
Sub-Total		\$0.00

Other Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Total	\$659,200.00
Participating Percentage	100%
TELEPHONE TOTAL	\$659,200.00

CABLE TELEVISION

Company: Bowling Green Municipal Utilities - General Services Division

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	0	\$1,100	\$0.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	0	\$1,800	\$0.00
1.000 TV Cable	0	\$9.00	0	\$2,000	\$0.00
Fiber TV Cable	0	\$10.00	0	\$2,200	\$0.00
			Each	\$/Unit	

Other Items:		0	\$0	\$0.00
	Total			\$0.00
	Participating Percentage			100%
	CABLE TV TOTAL			\$0.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Back-to-Back	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	Extension
Flashing Light Signals and Bells	0	\$160,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$215,000	\$0.00
	Sub-Total				\$0.00

Four (4) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
	Sub-Total				\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings	0	\$250	\$0.00
	Concrete Crossings	0	\$625	\$0.00
	Sub-Total			\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.				
		Each	\$/Unit	Extension
	plus Rubber Crossing or \$250,000 crossing.	0	\$315,000	\$0.00
	Communications Underground (4-6 poles)	0	\$125,000	\$0.00
	Other Railroad Items	0	\$0	\$0.00
	Sub-Total			\$0.00
	Total			\$0.00
	RAILROAD TOTAL			\$0.00

WATER and SEWER

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines:

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension	
< 51 mm (2") D.I.W.L.	0	\$23.00	\$0.00	\$29
51 mm (2") D.I.W.M.	0	\$32.00	\$0.00	
76 mm (3") D.I.W.M.	0	\$38.00	\$0.00	
102 mm (4") D.I.W.M.	0	\$49.00	\$0.00	
152 mm (6") D.I.W.M.	0	\$60.00	\$0.00	
203 mm (8") D.I.W.M.	0	\$72.00	\$0.00	
254 mm (10") D.I.W.M.	300	\$87.00	\$26,100.00	
305 mm (12") D.I.W.M.	0	\$98.00	\$0.00	
356 mm (14") D.I.W.M.	0	\$108.00	\$0.00	
406 mm (16") D.I.W.M.	1,200	\$123.00	\$147,600.00	
457 mm (18") D.I.W.M.	0	\$144.00	\$0.00	
			Sub-Total	\$173,700.00

PVC - Plastic Pipe

	Feet	\$/Unit	Extension	
< 51 mm (2") PVC W.L.	0	\$17.00	\$0.00	
51 mm (2") PVC W.M.	0	\$20.00	\$0.00	
76 mm (3") PVC W.M.	0	\$26.00	\$0.00	
102 mm (4") PVC W.M.	0	\$35.00	\$0.00	
152 mm (6") PVC W.M.	0	\$43.00	\$0.00	
203 mm (8") PVC W.M.	0	\$51.00	\$0.00	
254 mm (10") PVC W.M.	0	\$65.00	\$0.00	
305 mm (12") PVC W.M.	0	\$79.00	\$0.00	
			Sub-Total	\$0.00

Tapping Sleeve & Valves:

	Each	\$/Unit	Extension	
102 mm (4") D.I. TS & V	0	\$1,900	\$0.00	
152 mm (6") D.I. TS & V	0	\$2,300	\$0.00	
203 mm (8") D.I. TS & V	0	\$3,000	\$0.00	
254 mm (10") D.I. TS & V	2	\$3,800	\$7,600.00	
406 mm (16") D.I. TS & V	2	\$4,800	\$9,600.00	
102 mm (4") PVC TS & V	0	\$1,500	\$0.00	
152 mm (6") PVC TS & V	0	\$1,900	\$0.00	
203 mm (8") PVC TS & V	0	\$2,300	\$0.00	
254 mm (10") PVC TS & V	0	\$3,000	\$0.00	
305 mm (12") PVC TS & V	0	\$3,800	\$0.00	
			Sub-Total	\$17,200.00

Gate Valves: (G.V.)

	Each	\$/Unit	Extension	
102 mm (4") D.I. G.V.	0	\$500	\$0.00	
152 mm (6") D.I. G.V.	0	\$625	\$0.00	
203 mm (8") D.I. G.V.	0	\$875	\$0.00	
254 mm (10") D.I. G.V.	0	\$1,125	\$0.00	
406 mm (16") D.I. G.V.	2	\$2,000	\$4,000.00	
			Sub-Total	\$4,000.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Water Lines Continued:

Tie Ins:

	Each	\$/Unit	Extension
102 mm (4") Tie In	0	\$900	\$0.00
152 mm (6") Tie In	0	\$1,200	\$0.00
203 mm (8") Tie In	0	\$1,500	\$0.00
254 mm (10") Tie In	1	\$1,900	\$1,900.00
406 mm (16") Tie In	1	\$2,500	\$2,500.00
Sub-Total			\$4,400.00

Misc. Water Items:

	Each	\$/Unit	Extension
Relocate Water Meter	0	\$700	\$0.00
Plug Existing Line	0	\$500	\$0.00
Fire Hydrant (Relocated)	0	\$750	\$0.00
Fire Hydrant (New)	0	\$1,500	\$0.00
Master Meters: Range	Est. \$/Unit		
from \$5,000 to \$25,000	0	\$0	\$0.00
Sub-Total			\$0.00

Sewer Lines: (Gravity Flow)

PVC - Plastic Pipe

	Feet	\$/Unit	Extension
152 mm (6") PVC S.L.	0	\$51.00	\$0.00
203 mm (8") PVC S.L.	0	\$65.00	\$0.00
254 mm (10") PVC S.L.	0	\$79.00	\$0.00
305 mm (12") PVC S.L.	0	\$94.00	\$0.00
Sub-Total			\$0.00

D.I. - Ductile Iron Pipe:

	Feet	\$/Unit	Extension
152 mm (6") D.I.S.L.	0	\$65.00	\$0.00
203 mm (8") D.I.S.L.	0	\$79.00	\$0.00
254 mm (10") D.I.S.L.	0	\$94.00	\$0.00
305 mm (12") D.I.S.L.	0	\$108.00	\$0.00
356 mm (14") D.I.S.L.	0	\$123.00	\$0.00
406 mm (16") D.I.S.L.	0	\$144.00	\$0.00
457 mm (18") D.I.S.L.	0	\$181.00	\$0.00
610 mm (24") D.I.S.L.	0	\$253.00	\$0.00
762 mm (30") D.I.S.L.	0	\$325.00	\$0.00
914 mm (36") D.I.S.L.	0	\$397.00	\$0.00
107 cm (42") D.I.S.L.	0	\$470.00	\$0.00
Sub-Total			\$0.00

Conc. - Concrete Pipe:

	Feet	\$/Unit	Extension
457 mm (18") Conc. S.L.	0	\$145.00	\$0.00
610 mm (24") Conc. S.L.	0	\$216.00	\$0.00
762 mm (30") Conc. S.L.	0	\$290.00	\$0.00
914 mm (36") Conc. S.L.	0	\$360.00	\$0.00
Sub-Total			\$0.00

WATER and SEWER continued

Company: Bowling Green Municipal Utilities - Water and Sewer Division

Sewer Lines Continued:

Misc. Sewer Items:	Each	\$/Unit	Extension
Sewer Manhole	0	\$6,000	\$0.00
Tie to Existing Manhole	0	\$2,000	\$0.00
Reconnect Service	0	\$1,000	\$0.00
Cut & Plug Sewer Line	0	\$1,000	\$0.00
Sewer Pump Stations: Range		Est. \$/Unit	
from \$25,000 to \$250,000	0	\$0	\$0.00
Sub-Total			\$0.00

**** Force Main Sewer Lines: Use Water Line Prices**

Misc. Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Casing Pipe - Open Cut	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$38.00	\$0.00
254 mm (10") Steel Casing	0	\$84.00	\$0.00
305 mm (12") Steel Casing	0	\$99.00	\$0.00
406 mm (16") Steel Casing	0	\$146.00	\$0.00
457 mm (18") Steel Casing	0	\$178.00	\$0.00
508 mm (20") Steel Casing	0	\$218.00	\$0.00
610 mm (24") Steel Casing	0	\$250.00	\$0.00
Sub-Total			\$0.00

Casing Pipe - Bored	Feet	\$/Unit	Extension
51 mm (2") Steel Casing	0	\$60.00	\$0.00
254 mm (10") Steel Casing	0	\$150.00	\$0.00
305 mm (12") Steel Casing	0	\$190.00	\$0.00
406 mm (16") Steel Casing	0	\$260.00	\$0.00
457 mm (18") Steel Casing	0	\$300.00	\$0.00
508 mm (20") Steel Casing	200	\$350.00	\$70,000.00
780 mm (30") Steel Casing	0	\$418.00	\$0.00
Sub-Total			\$70,000.00

Total	\$269,300.00
Participating Percentage	100%
WATER & SEWER TOTAL	\$269,300.00

TELEPHONE

Company:

BlueGrass Network LLC

Aerial Structures: (Including Connections)

Poles:	Each	\$/Unit	Extension
	0	\$1,000	\$0
Sub-Total			\$0.00

Aerial Plant: (Including Terminals)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$3.00	\$0.00
50 Pair	0	\$6.00	\$0.00
100 Pair	0	\$9.00	\$0.00
200 Pair	0	\$10.00	\$0.00
300 Pair	0	\$12.00	\$0.00
400 Pair	0	\$16.00	\$0.00
600 Pair	0	\$18.00	\$0.00
900 Pair	0	\$21.00	\$0.00
1200 Pair	0	\$25.00	\$0.00
1500 Pair	0	\$29.00	\$0.00
1800 Pair	0	\$34.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$46.00	\$0.00
Sub-Total			\$0.00

Buried Plant: (Includes Pedestals & Trenching)

Cable	Feet	\$/Unit	Extension
25 Pair	0	\$6.00	\$0.00
50 Pair	0	\$8.00	\$0.00
100 Pair	0	\$13.00	\$0.00
200 Pair	0	\$15.00	\$0.00
300 Pair	0	\$18.00	\$0.00
400 Pair	0	\$20.00	\$0.00
600 Pair	0	\$23.00	\$0.00
900 Pair	0	\$27.00	\$0.00
1200 Pair	0	\$30.00	\$0.00
1500 Pair	0	\$33.00	\$0.00
1800 Pair	0	\$37.00	\$0.00
2100 Pair	0	\$40.00	\$0.00
2400 Pair	0	\$43.00	\$0.00
2700 Pair	0	\$46.00	\$0.00
3000 Pair	0	\$53.00	\$0.00
Sub-Total			\$0.00

Road Bore	Feet	\$/Unit	Extension
1 - 102 mm (4") Pipe	0	\$50.00	\$0.00
Sub-Total			\$0.00

Toll Cable: (Same Cable Cost as Aerial or Buried Cable)

Telephone Continued:

Company:

BlueGrass Network LLC

Underground Plant: (Not Including Conduit or Manholes)

Cable in Conduit:	Feet	\$/Unit	Extension
Air Pipe	0	\$3.00	\$0.00
300 Pair	0	\$14.40	\$0.00
400 Pair	0	\$19.10	\$0.00
600 Pair	0	\$21.10	\$0.00
900 Pair	0	\$27.90	\$0.00
1200 Pair	0	\$29.70	\$0.00
1500 Pair	0	\$31.40	\$0.00
1800 Pair	0	\$35.00	\$0.00
2100 Pair	0	\$34.00	\$0.00
2400 Pair	0	\$33.00	\$0.00
2700 Pair	0	\$27.80	\$0.00
3000 Pair	0	\$38.30	\$0.00
3600 Pair	0	\$40.00	\$0.00
Sub-Total			\$0.00

Conduit Plant: (Including Ducts; Concrete; Rock Removal & Disposal)

Conduit:	Feet	\$/Unit	Extension
6 - 102mm (4") Ducts	0	\$56.10	\$0.00
9 - 102mm (4") Ducts	0	\$57.50	\$0.00
12 - 102mm (4") Ducts	0	\$60.00	\$0.00
	Each	\$/Unit	Extension
Manholes	0	\$15,000	\$0.00
Sub-Total			\$0.00

Aerial Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$5.75	\$0.00
24 Fiber Optics Cable	0	\$6.25	\$0.00
36 Fiber Optics Cable	0	\$7.00	\$0.00
48 Fiber Optics Cable	0	\$7.50	\$0.00
72 Fiber Optics Cable	0	\$8.75	\$0.00
96 Fiber Optics Cable	0	\$10.00	\$0.00
144 Fiber Optics Cable	0	\$12.50	\$0.00
216 Fiber Optics Cable	0	\$16.25	\$0.00
Sub-Total			\$0.00

Buried Fiber Plant:	Feet	\$/Unit	Extension
12 Fiber Optics Cable	0	\$8.25	\$0.00
24 Fiber Optics Cable	0	\$8.75	\$0.00
36 Fiber Optics Cable	0	\$9.50	\$0.00
48 Fiber Optics Cable	0	\$10.00	\$0.00
72 Fiber Optics Cable	0	\$11.25	\$0.00
96 Fiber Optics Cable	0	\$12.50	\$0.00
144 Fiber Optics Cable	0	\$15.00	\$0.00
216 Fiber Optics Cable	0	\$18.75	\$0.00
Sub-Total			0.00

Telephone Continued:

Company:

BlueGrass Network LLC

Load Coils:	Each	\$/Unit	Extension
25 Pair	0	\$350	\$0.00
50 Pair	0	\$600	\$0.00
100 Pair	0	\$1,090	\$0.00
200 Pair	0	\$1,670	\$0.00
300 Pair	0	\$2,230	\$0.00
400 Pair	0	\$2,480	\$0.00
450 Pair	0	\$3,230	\$0.00
600 Pair	0	\$4,040	\$0.00
750 Pair	0	\$5,040	\$0.00
900 Pair	0	\$6,000	\$0.00
Sub-Total			\$0.00

Circuit Equipment:	Each	\$/Unit	Extension
Apparatus Cases:			
819A2 / 40	0	\$8,000	\$0.00
841A2 / 100	0	\$12,000	\$0.00
Sub-Total			\$0.00

Cross Boxes:	Each	\$/Unit	Extension
1200 Pair	0	\$3,500	\$0.00
1500 Pair	0	\$4,060	\$0.00
1800 Pair	0	\$4,200	\$0.00
2100 Pair	0	\$4,900	\$0.00
2400 Pair	0	\$5,600	\$0.00
2700 Pair	0	\$5,880	\$0.00
3000 Pair	0	\$6,440	\$0.00
3300 Pair	0	\$8,400	\$0.00
3600 Pair	0	\$9,600	\$0.00
Sub-Total			\$0.00

Remote Terminal Cabinets:	Range	Est. \$/Unit	Extension
\$60,000 - \$100,000 e	0	\$0	\$0.00
Sub-Total			\$0.00

Other Items:	Each	\$/Unit	Extension
	0	\$0	\$0.00
	0	\$0	\$0.00
	0	\$0	\$0.00
Sub-Total			\$0.00

Total	\$0.00
Participating Percentage	100%
TELEPHONE TOTAL	\$0.00

CABLE TELEVISION

Company:

Time Warner Cable

Cable: (Feet or Poles)	Feet	\$/Unit	Poles	\$/Unit	Extension
0.500 TV Cable	0	\$5.00	0	\$1,100	\$0.00
0.750 TV Cable	0	\$7.00	0	\$1,500	\$0.00
0.860 TV Cable	0	\$8.00	0	\$1,800	\$0.00
1.000 TV Cable	0	\$9.00	0	\$2,000	\$0.00
Fiber TV Cable	0	\$10.00	0	\$2,200	\$0.00

Each \$/Unit

Other Items:		0	\$0	\$0.00
Total				\$0.00
Participating Percentage				100%
CABLE TV TOTAL				\$0.00

RAILROAD

Company:

Installation Prices vary for Lane Crossings and Number of Tracks

Two (2) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Back-to-Back	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$145,000	0	\$160,000	\$0.00
and with Gates	N/A		0	\$210,000	\$0.00
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	Extension
Flashing Light Signals and Bells	0	\$160,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$215,000	\$0.00
Sub-Total					\$0.00

Four (4) Traffic Lanes	Single Track		Double Tracks		Extension
Standard Cantilever	Each	\$/Unit	Each	\$/Unit	
Flashing Light Signals and Bells	0	\$170,000	0	\$190,000	\$0.00
and with Gates	N/A		0	\$240,000	\$0.00
and with Welded Rail	N/A		0	\$275,000	\$0.00
Sub-Total					\$0.00

Crossing Surfaces:	(Sold in 3' increments)	Feet	\$/Unit	Extension
	Rubber Crossings	0	\$250	\$0.00
	Concrete Crossings	0	\$625	\$0.00
Sub-Total				\$0.00

* For R.J. Corman Railroad Crossings: Use Standard Cantilever Flashing Signals & with two (2) sets of gates and Welded Rail.

	Each	\$/Unit	Extension
plus Rubber Crossing or \$250,000 crossing	0	\$315,000	\$0.00
Communications Underground (4-6 poles)	0	\$125,000	\$0.00
Other Railroad Items	0	\$0	\$0.00
Sub-Total			\$0.00

Total			\$0.00
RAILROAD TOTAL			\$0.00