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MAR 30 2009

PUBLIC SERVICE  
COMMISSION

March 26, 2009

Kentucky Public Service Commission  
P O Box 615  
211 Sower Boulevard  
Frankfort, Kentucky 40602-0615

In Re: Case No. 2009-00119  
Ballard Rural Telephone Cooperative Coporation, Inc.  
(Construct)

This letter is to submit additional information and attached exhibits needed for the certificate of convenience and necessity for the purpose of upgrading Ballard RTCC's network to utilize Internet Protocol technology.

Yours Truly,

A handwritten signature in cursive script, appearing to read "Harlon E. Parker", written in dark ink.

Harlon E. Parker  
General Manager/CEO

Hep/jkc

**B**ALLARD RURAL **T**ELEPHONE **C**OOPERATIVE CORPORATION, INC.

159 West Second Street • P.O. Box 209 • La Center, Kentucky 42056-0209  
Phone/270.665.5186 • Fax/270.665.9186 • www.brtc.net

Harlon E. Parker  
Manager

Steven L. Beshear  
Governor

Leonard K. Peters  
Secretary  
Energy and Environment Cabinet



Commonwealth of Kentucky  
**Public Service Commission**  
211 Sower Blvd.  
P.O. Box 615  
Frankfort, Kentucky 40602-0615  
Telephone: (502) 564-3940  
Fax: (502) 564-3460  
psc.ky.gov

David L. Armstrong  
Chairman

James Gardner  
Vice-Chairman

John W. Clay  
Commissioner

March 23, 2009

Harlon E. Parker  
General Manager  
Ballard Rural Telephone Cooperative Corporation, Inc.  
159 W. 2nd Street  
P. O. Box 209  
La Center, KY 42056-0209

RE: Case No. 2009-00119  
Ballard Rural Telephone Cooperative Corporation, Inc.  
(Construct)

This letter is to acknowledge receipt of initial application in the above case. The application was date-stamped received March 20, 2009 and has been assigned Case No. 2009-00119. In all future correspondence or filings in connection with this case, please reference the above case number.

If you need further assistance, please contact my staff at (502) 564-3940.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Derouen".

Jeff Derouen  
Executive Director

JD/tw



March 13, 2009

Kentucky Public Service Commission  
P O Box 615  
211 Sower Boulevard  
Frankfort, Kentucky 40602-0615

In Re: In the Matter of the Application of Ballard Rural Telephone Cooperative Corporation, Inc., for a Certificate of Convenience and Necessity for Construction of a Gigabit Passive Optical Network

Dear Mr. Derouen:

Pursuant to KRS 278-020 Ballard Rural Telephone Cooperative Corporation, Inc. (Ballard), requests authority to construct and upgrade telecommunication facilities in its certified territory. Enclosed are an original and ten (10) copies of Ballard's verified Application for construction of new facilities in the affected exchanges in western Kentucky.

After the Application has been processed, Ballard personnel will be available to meet with members of the Commission's staff and other concerned Commission personnel.

In the event there are other filing requirements or information requests associated with the Application, please advise me at your earliest convenience.

Yours Truly,

A handwritten signature in cursive script, reading "Harlon E. Parker".

Harlon E. Parker  
General Manager/CEO

HEP/jkc

**B**ALLARD RURAL **T**ELEPHONE **C**OOPERATIVE CORPORATION, INC.

159 West Second Street • P.O. Box 209 • La Center, Kentucky 42056-0209  
Phone/270.665.5186 • Fax/270.665.9186 • www.brtc.net

Harlon E. Parker  
Manager

**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

**In the Matter of:**

**THE APPLICATION OF BALLARD RURAL                    )  
TELEPHONE COOPERATIVE CORPORATION INC. )  
FOR A CERTIFICATE OF PUBLIC CONVENIENCE )   Case No.  
AND NECESSITY FOR THE CONSTRUCTION OF A )  
GIGABIT PASSIVE OPTICAL NETWORK                    )**

APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND  
NECESSITY FOR CONSTRUCTION OF GIGABIT PASSIVE OPTICAL  
NETWORK

Ballard Rural Telephone Cooperative Corporation, Inc. (Ballard RTCC) pursuant to KRS 278.020 and 807 KAR 5:001: Section 9(1)(a) hereby submits this application for a certificate of convenience and necessity for the purpose of upgrading Ballard RTCC's network to utilize Internet Protocol technology. It consists of deploying a gigabit passive optical network (GPON) fiber to the premise (FTTP) network in LaCenter, Heath and Kevil exchanges in Ballard County and McCracken County, Kentucky. In addition, the funds will be used to upgrade switching, transmission, and outside plant facilities.

1. The full name and address of the Ballard RTCC is Ballard Rural Telephone Cooperative Corporation, Inc., 159 West Second Street, P.O. Box 209, LaCenter, Kentucky 42056-0209.
2. Pursuant to 807 KAR 5:001 a copy of Ballard RTCC's Articles of Incorporation and all amendments thereto, are attached as Exhibit A.
3. Pursuant to 807 KAR 5:001, section 9(2), three copies of the required map showing the proposed route for the fiber deployment in the affected exchanges are attached as Exhibit B.
4. Ballard RTCC, a Rural Utilities Services (RUS) borrower, operates a rural incumbent local exchange carrier serving providing services to areas within Ballard County and McCracken County, Kentucky. Ballard RTCC, as of



December 31, 2007, has 4,903 residential customers and 1,612 business customers.

Pursuant to Section 9(2)(c), Ballard RTCC relied on the following circumstances to support its decision to upgrade the network in LaCenter, Kevil and Heath. During the period from 1997 through 2002, Ballard RTCC access lines grew from 6,182 lines to 7,537 lines. For various reasons beginning in 2003 through 2007 there was a decline Ballard RTCC's access lines from 7,537 lines to 6,515 lines. According to Ballard RTCC's analysis the primary reasons for the decline in access lines are customers upgrading to DSL and the dropping the second phone line for dial-up services. In addition, there were some customers that dropped land line telephone service and moved to mobile carriers.

Upgrading of the network and service offerings will assist Ballard RTCC in reversing this downward trend and will grow the number of access lines offered in its service area. Further, there has been a continuing migration of Paducah residents to Ballard RTCC's service area. These customers demand state of the art services. The construction of a four lane highway into Kevil has encouraged and will continue to support additional residential and commercial development in the service area. Ballard RTCC believes that the growth in population will continue and will require additional access lines along with the demand for a greater variety and bundling of telecommunications services.

Advance telecommunications services, including broadband, are critical to the economic and social development of the communities in McCracken and Ballard County, Kentucky. Subscribers in the Kevil, Heath and LaCenter exchanges have upgraded their telecommunications requirements as they have migrated from second telephone lines to DSL. The State Telecommunications Modernization Plan recognizes that deployment of advanced technologies such as fiber optics and related technologies as essential to economic development. It is this type of technology that will bring medical services, educational services, and numerous other economic opportunities to the customers of Ballard RTCC. Construction of the GPON is required by public convenience and necessity.

The purpose of the new construction is to deploy a GPON Fiber-to-the Premise (FTTP) in Kevil, Heath, and LaCenter exchanges and upgrading the switching, transmission and outside plant facilities. This will permit Ballard RTCC to provide triple-play and potentially other state-of-the-art communications services to its subscribers and adhere to the requirements of the State Telecommunication Modernization Plan.

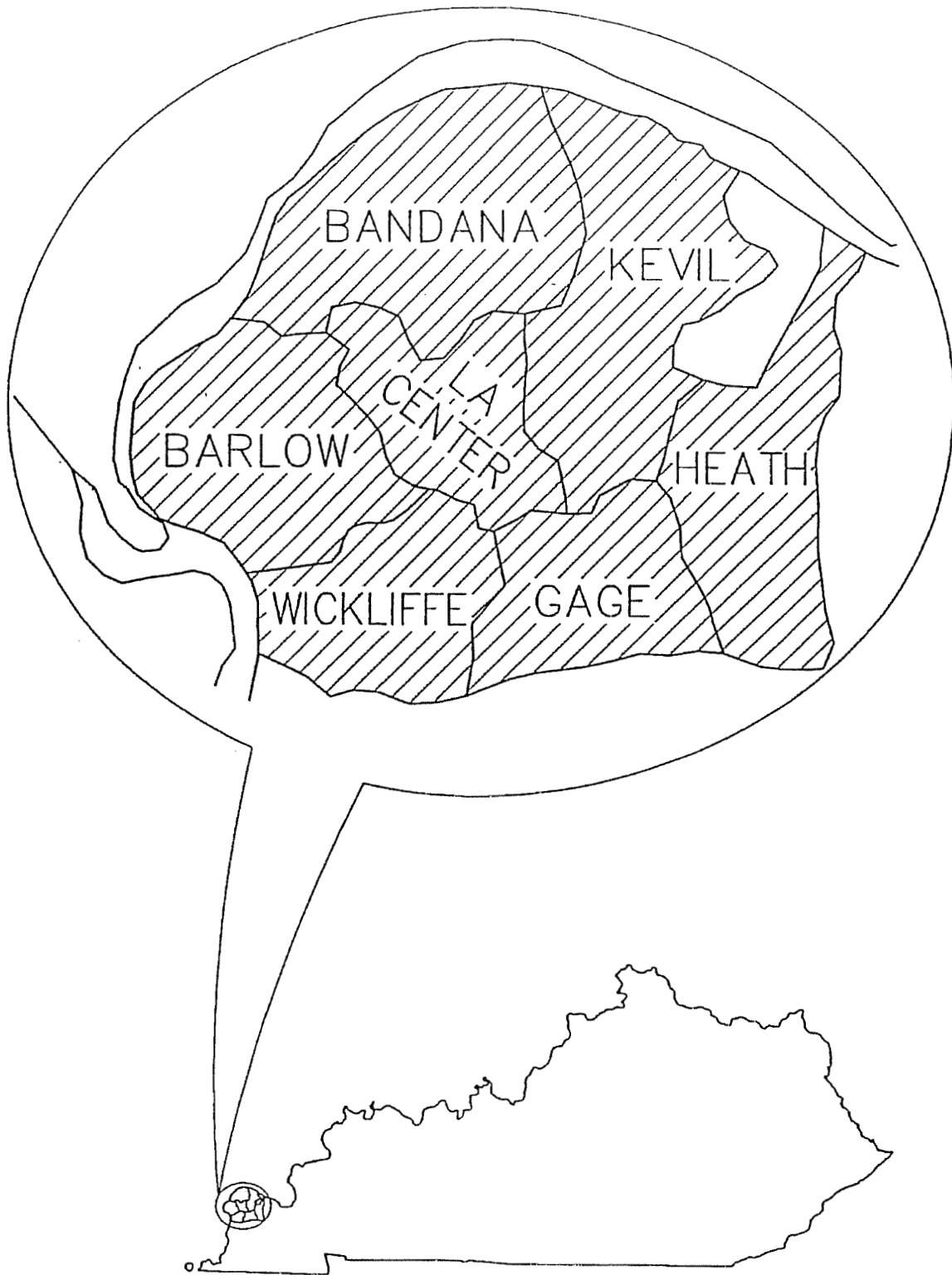
5. Pursuant to Section 9(2)(c) of 807 KAR 5:001 Ballard RTCC has attached as Exhibit C, the loan design provided to RUS as a part of its loan application. The loan design provides a complete description of the proposed new construction.
6. BRTCC plans to deploy a gigabyte passive optical network (GPON) in the affected exchanges. Under this loan design, a high density chassis and Optical Line Terminal will be placed in the Central Offices in LaCenter, Heath and Kevil. Optical Network Terminals will be placed at subscriber terminals. A 10 Gigabit IP transport to connect all exchanges in the system. The IP transport will function concurrently with the existing SONET rings. New DSL equipment will be deployed in the remaining four exchanges on a temporary basis until a FTTP network can be deployed in future projects.
7. Ballard RTCC will place outside plant in LaCenter, Heath, and Kevil exchanges. Fiber-optic cables will be deployed with existing copper distribution plant to allow copper plant to be retired as needed. Ballard RTCC fiber drops will be placed only to subscribers requiring data or video services. POTS subscribers will continue to use existing copper where economically feasible.
8. In compliance with 807 KAR 5:001, section 9(2)(b), Ballard RTCC states that it does not require a franchise approval from any public authority to deploy the GPON in the affected exchanges.
9. The construction of the new facilities throughout the three (3) exchanges totals an estimated cost of \$15,435,985.00. The Rural Utilities Services (RUS) has reviewed and approved the Loan Design and the outside plant layout submitted in Ballard RTCC' "N" loan application. Ballard RTCC received an approval letter from RUS on February 4, 2009. Pursuant to Section 9 (e) KAR 5:0001, Ballard RTCC has attached as Exhibit D, a copy of the approval letter demonstrating the manner in which it will finance the proposed construction.
10. Pursuant to Section 9(2)(f) Ballard RTCC does not have an estimate cost of operation after the proposed facilities are completed. According to RUS, Ballard RTCC will maintain a tier that will meet the requirements of the loan. Ballard RTCC will be able to operate the system after construction at the same operating cost as the current system.

BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION, INC.  
LACENTER, KENTUCKY

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## SERVING AREA MAP



SERVING AREA MAP

# NARRATIVE

## NARRATIVE

### I. GENERAL

Ballard Rural Telephone Cooperative Corporation (BRTCC) operates seven (7) exchanges in Ballard and McCracken Counties of western Kentucky. BRTCC presently serves 6515 access lines including 1825 data and 1644 video subscribers.

Previous loan funds were used to upgrade the switching network by deploying an EWSD at the La Center Exchange and remotes at the other exchanges, to deploy BITS clock timing equipment in the host and remote offices, to upgrade the SONET ring to OC-48 and OC-192, and to add equipment at remote locations for serving high-speed data and video. Funds for the previous loans A through M totaled \$39,696,994.

The purpose of this loan design is to request funding for upgrading BRTCC's network to utilize Internet Protocol (IP) technology. This includes deploying a GPON fiber-to-the-premise (FTTP) network in the LaCenter, Heath, and Kevil exchanges and upgrading the switching, transmission, and outside plant facilities. The proposed upgrades will allow BRTCC to provide triple-play service to subscribers and adhere to the requirements of the State Telecommunication Modernization Plan (STMP).

The total proposed expenditures for this five-year period is \$15,435,985.

Future plans for BRTCC include upgrading the remaining exchanges to GPON FTTP networks and provisioning of additional equipment to support emerging technologies as they become economically feasible.

## II. ACCESS LINES

The access line forecast, as given on the RUS 569 forms was derived from the RUS 479 forms and based on analysis of the subscriber access line growth experienced between 1997 and 2007. The decrease in access lines in recent years is mainly the result of subscriber movement to broadband internet access. As subscribers upgrade to DSL internet service, they drop the second phone line previously needed for dial-up internet. DSL growth data is shown on page III-12. The access line decrease is also due to subscribers switching to mobile carriers for telephone service. As BRTCC continues to upgrade and bundle services to match existing technology levels, this decrease is expected to slow dramatically. In addition, the migration of Paducah residents moving into BRTCC's coverage area will result in increased number of access lines. This migration is a result of significant upgrades to the infrastructure in the area including the new four (4) lane road to Paducah, improvement of existing utilities, and new subdivisions. These factors justify the projected average annual system growth of 0.53%.



### III. EXISTING SYSTEM

#### SWITCHING

BRTCC's existing switching network consists of a Siemens EWSD One Up deployed at the LaCenter exchange. The EWSD is the network access tandem and the toll outlet. In addition, the network has three (3) Smart Remotes at the Kevil, Heath, and Wickliffe exchanges and three (3) Siemens Remote Line Switches (RLSs) at the Bandana, Barlow, and Gage exchanges. BRTCC has placed over 23 Digital Line Concentrators (DLCs) and 9 Siemens RLS-450s throughout the system to reduce loaded plant and to minimize feeder plant additions. These DLCs are Tellabs UMC-1000s utilizing TR08 interfaces to the switch network. BRTCC is currently deploying a next generation switching platform which will eventually replace the existing EWSD.

#### TRANSMISSION

BRTCC toll and EAS routes consist of an OC-12 fiber-optic ring with BellSouth. Inter-exchange transmission utilizes separate OC-48 and OC-192 rings. Existing remotes and DLCs are served via fiber-optic facilities.

#### OUTSIDE PLANT

BRTCC presently has 1223 miles of copper and fiber-optic plant. Existing cable routes typically have several cables. The projected annual growth for the system is 0.53%. BRTCC expects to add 225 new access lines over the next five years.

#### IV. PROPOSED CONSTRUCTION

##### CENTRAL OFFICE AND ELECTRONIC EQUIPMENT

BRTCC plans to use a gigabit passive optical network (GPON) solution to deploy a FTTP network in each exchange. GPON equipment will only be deployed in the LaCenter, Heath, and Kevil exchanges under this loan design. This includes a high density chassis and Optical Line Terminals (OLT) to be placed in the central office as well as Optical Network Terminals (ONT) to be placed at subscriber premises. New DSL equipment will be deployed in the remaining exchanges to temporarily serve subscribers until a FTTP network is deployed in future projects. The DSL equipment includes a high density chassis and ADSL2+ blades to be placed in the central office as well as ADSL2+ blades with retrofit kits to be placed at existing remote sites.

Other plans include additions to the next generation switching platform. As subscribers are turned up on the GPON FTTP network, the next generation switch will provide POTS to those subscribers instead of the EWSD. Eventually all subscribers will be cut over to the new switch and the EWSD will be retired.

##### OPTICAL TRANSMISSION

BRTCC plans to place a 10 Gigabit IP transport to connect all exchanges in the system. The IP transport will function concurrently with the existing SONET rings. Eventually the SONET ring will be retired completely.

## OUTSIDE PLANT

Outside plant construction will only be done in the LaCenter, Heath, and Kevil exchanges. Fiber-optic cables will be placed with the existing copper distribution plant to allow the copper plant to be retired as needed. BRTCC plans to do fiber drops only to subscribers that require data or video services. POTS only subscribers will use existing copper where economically feasible. Complete retirement of copper will be on a per route basis.

## V. SERVICE AREA

No new service areas are proposed under this loan design.

## VI. TOLL AND EAS

All toll and EAS transmission facilities have sufficient capacity for the five-year loan design period. No new toll or EAS facilities are required.

## VII. RADIO TELEPHONE SERVICE

BRTCC does not have any existing or planned radio telephone service.

## VIII. SPECIAL PROJECTS

No special projects are planned.

## IX. INVESTMENT IN NON-RURAL AREAS

BRTCC does not serve any non-rural areas.

## X. PRIOR LOAN PROJECTS

No funds are required under this loan design for prior loan projects. All projects initiated under prior loans have been completed.

## XI. ROUTE MILES

Route miles for each exchange area are shown on the RUS 495 forms.

## XII. FUTURE PLANS

BRTCC's future plans include the continual deployment of GPON FTTP solutions in the four (4) remaining exchanges and eventual retirement of all copper plant to move to a complete fiber network. Also, BRTCC will pursue compliance with long term goals that are part of the State Telecommunication Modernization Plan.

## XIII. CERTIFICATION

We, the undersigned, certify that the data in this Loan Design is correct, to the best of our knowledge and belief, and reasonably reflect the cost to serve the subscribers as proposed on the RUS 569 form, Local Service Data Form, which are an integral part hereof, and that this Loan Design adheres to RUS engineering and construction standards and practice.

Prepared By:

July 31, 2008  
Date

Ann Keller  
Ann Keller, P.E.  
Vice President  
Finley Engineering Company, Inc.

Approved By:

July 31, 2008  
Date

Harlon E. Parker  
Harlon E. Parker  
General Manager  
Ballard Rural Telephone Cooperative Corporation

XIV. RUS GFR RECOMMENDATION

I have reviewed and recommend acceptance of this Loan Design as the basis for RUS financing.

---

Date

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James Wilson

## LOCAL SERVICE DATA



NAME OF BORROWER

## LOCAL SERVICE DATA FORM

Ballard RTCC

Instructions -

BORROWER DESIGNATION

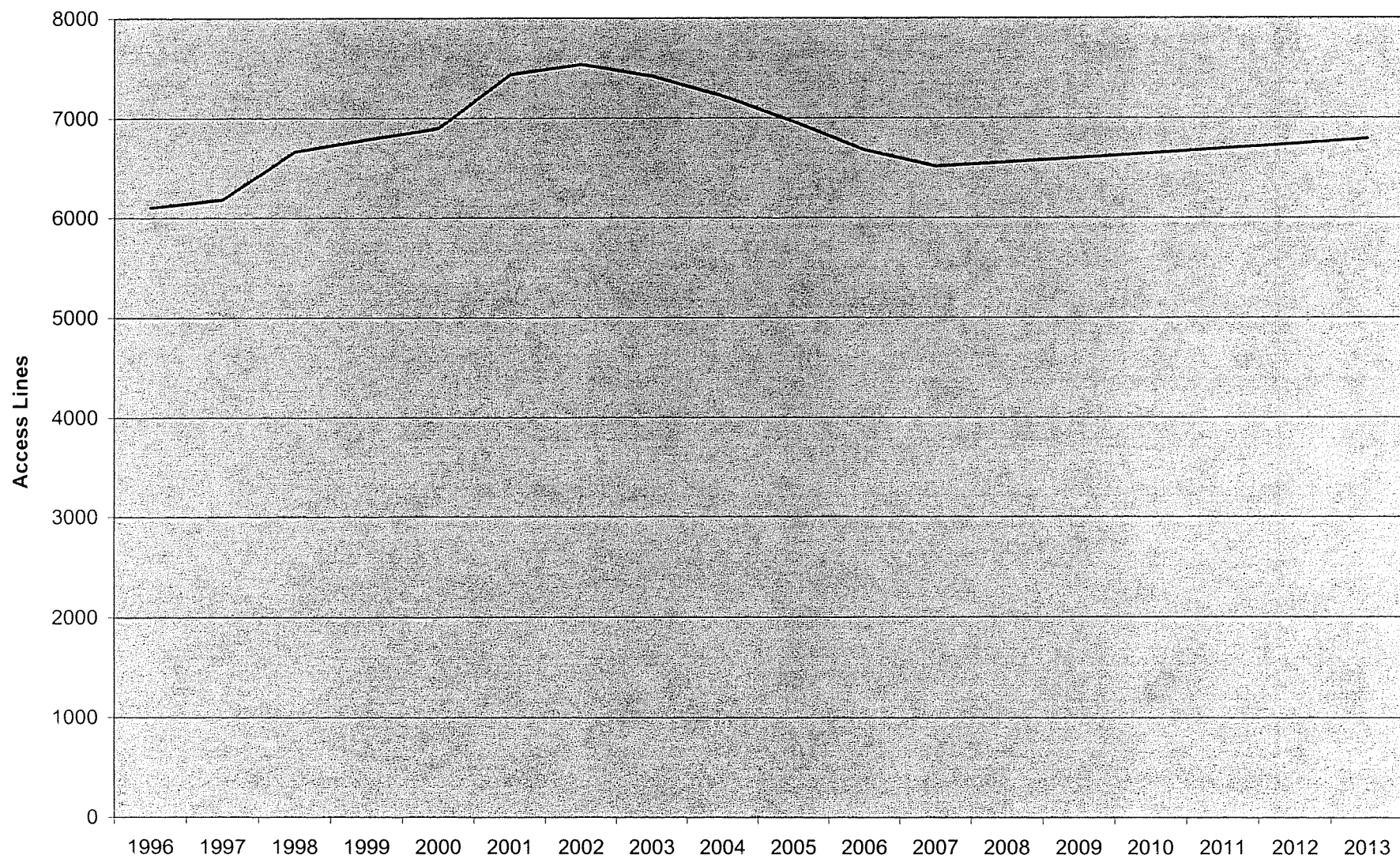
KY 515 N

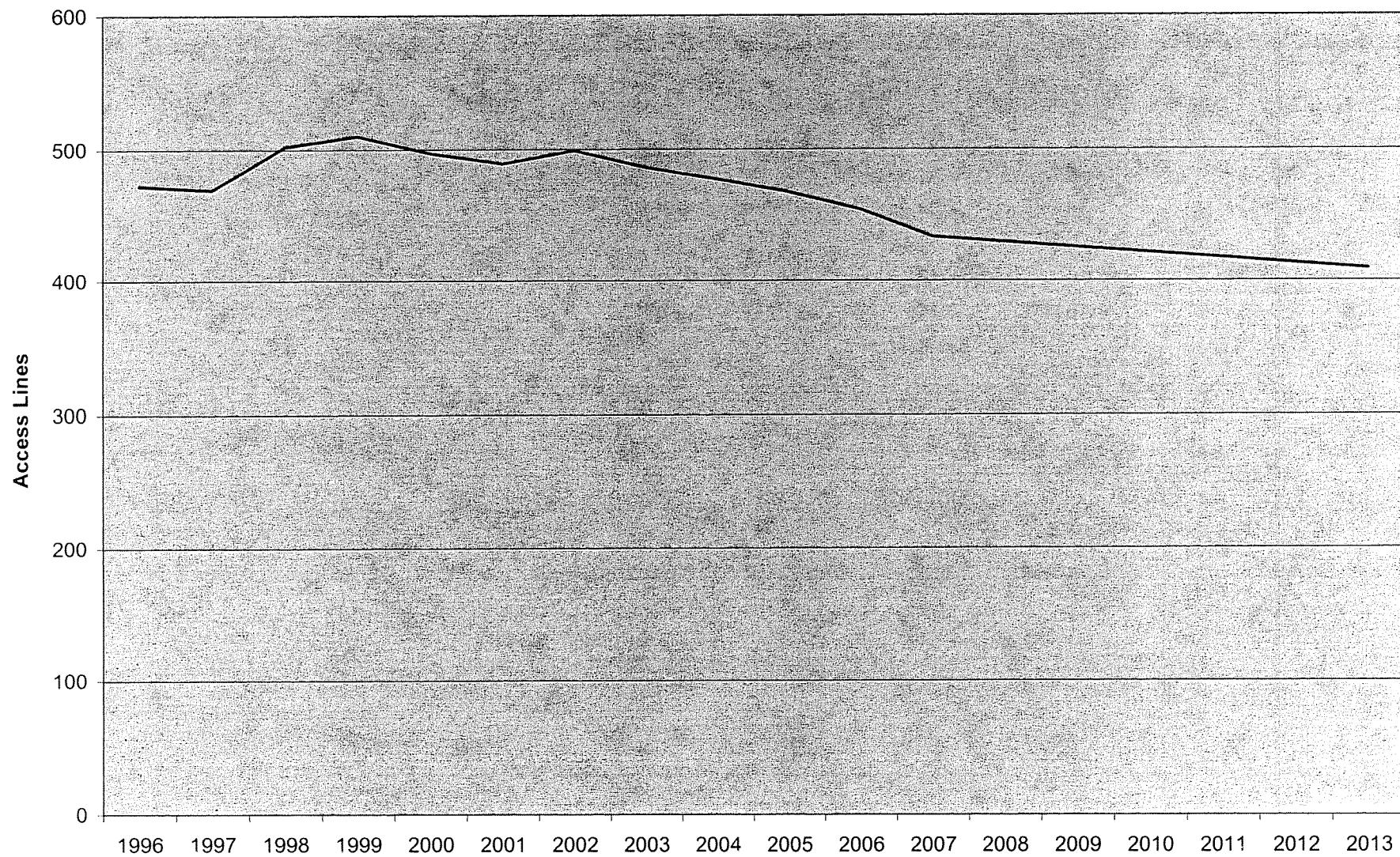
### PART A - AREA COVERAGE DATA - TOTAL SYSTEM

[illegible]**Comments:**

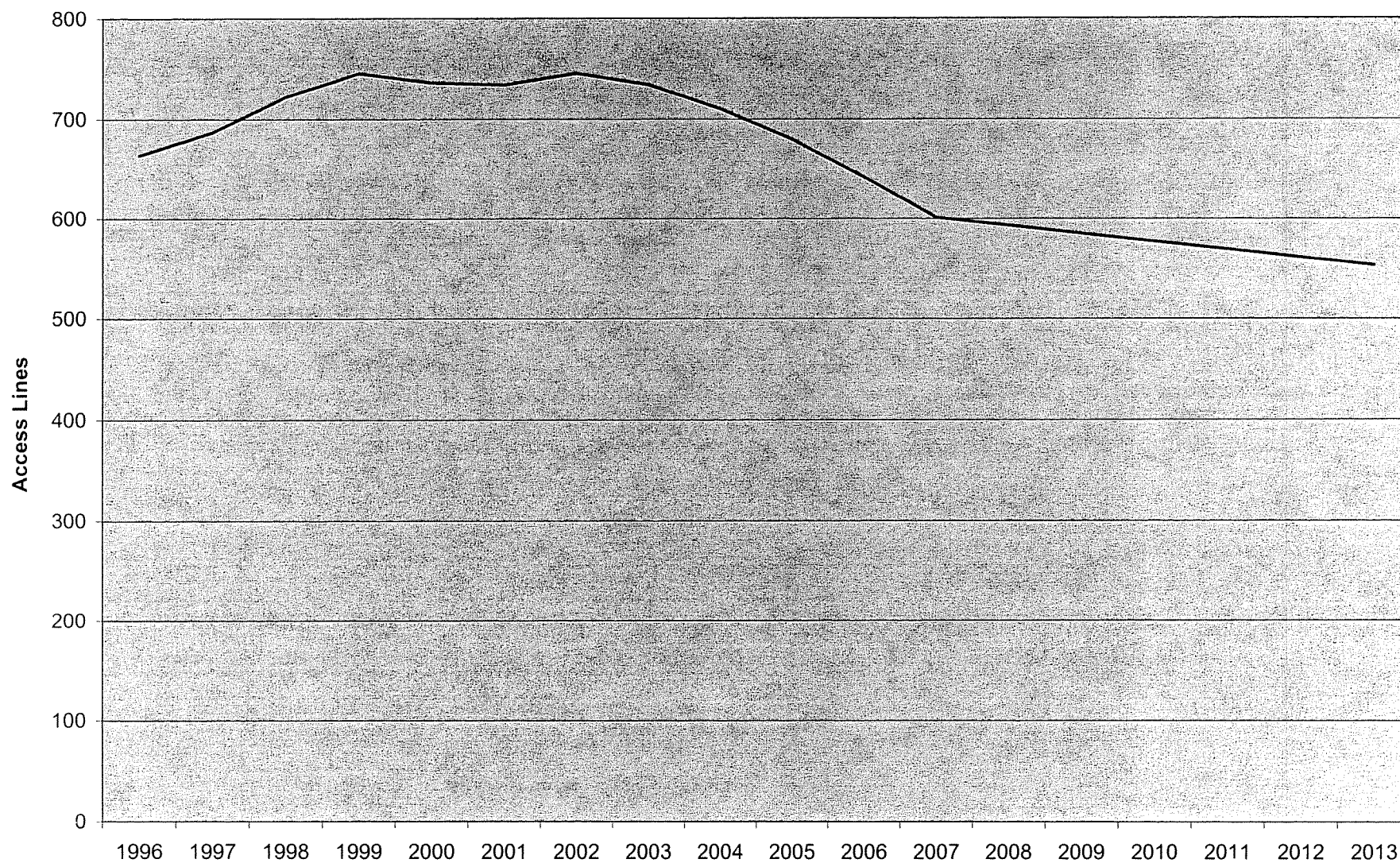
(\*Describe "Other" Access Lines)

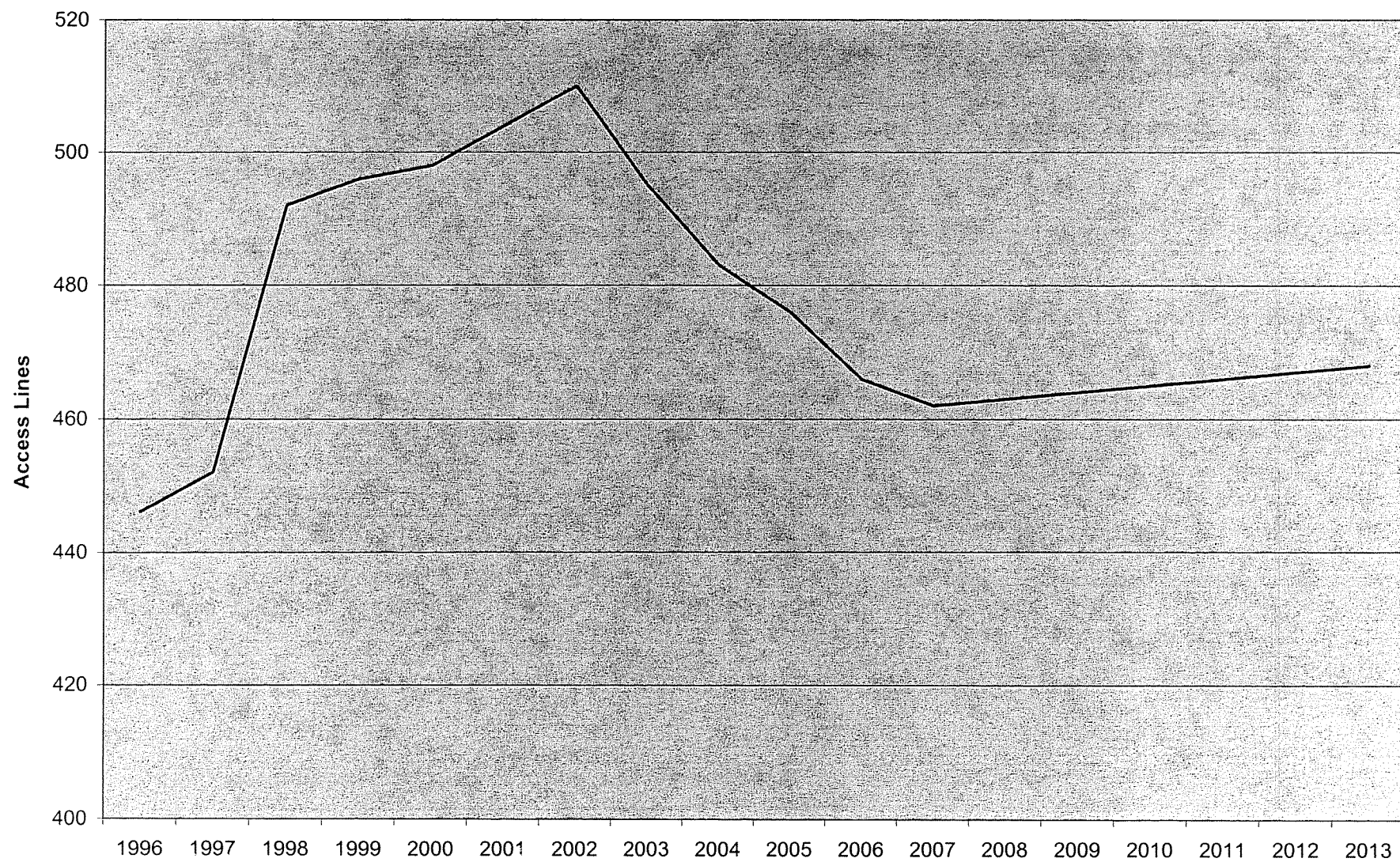
<b>RURAL UTILITIES SERVICE - USDA</b>  <b>LOCAL SERVICE DATA FORM</b>	NAME OF BORROWER  <b>BALLARD RTCC</b>			
Instructions -	BORROWER DESIGNATION  KY 515 N			
<b>PART B - ADDITIONAL REVENUE PRODUCING SERVICES - TOTAL SYSTEM</b> <b>(Annual)</b>				
<b>CUSTOM CALLING, CLASS FEATURES</b>	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
FX CIRCUITS	1	\$ 1,205.76	1	\$ 1,205.76
T1 CIRCUITS	67	\$ 648,996.72	67	\$ 648,996.72
DIGITAL/ANALOG CIRCUITS	24	\$ 44,672.52	24	\$ 44,672.52
CALL FORWARDING NUMBERS	76	\$ 8,344.80	76	\$ 8,344.80
PBX	62	\$ 13,906.80	62	\$ 13,906.80
KEY SYSTEMS	229	\$ 44,308.92	229	\$ 44,308.92
<b>MOBILE TELEPHONE, CELLULAR, PCS</b>	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
		\$		\$
<b>DIAL-UP INTERNET</b>	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
Dial-Up	562	\$ 107,566.80	337	\$ 64,501.80
<b>BROADBAND SERVICES, WIRED, WIRELESS, VIDEO</b>	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
DSL RESIDENTIAL LITE	1172	\$ 490,833.60	2103	\$ 880,736.40
DSL RESIDENTIAL	535	\$ 288,258.00	961	\$ 517,786.80
DSL RESIDENTIAL FAST	19	\$ 12,517.20	34	\$ 22,399.20
DSL RESIDENTIAL GAMER	13	\$ 10,124.40	24	\$ 18,691.20
DSL BUSINESS LITE	58	\$ 38,210.40	105	\$ 69,174.00
DSL BUSINESS I	68	\$ 61,118.40	122	\$ 109,653.60
DSL BUSINESS II	6	\$ 6,832.80	11	\$ 12,526.80
DSL BUSINESS III	5	\$ 6,894.00	9	\$ 12,409.20
BASIC VIDEO	673	*	1104	*
STANDARD VIDEO	589	*	966	*
EXPANDED VIDEO	365	*	599	*
MINI BASIC ONLY	17	*	27	*
PREMIUM CHANNEL PACKAGE (ONE)	572	*	938	*
PREMIUM CHANNEL PACKAGE (TWO)	48	*	78	*
PREMIUM CHANNEL PACKAGE (THREE)	9	*	13	*
PREMIUM CHANNEL PACKAGE (FOUR)	91	*	148	*
<b>OTHER REVENUE PRODUCING SERVICES</b>	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
		\$		\$
Comments: * see non-regulated net income				

**All Exchanges**

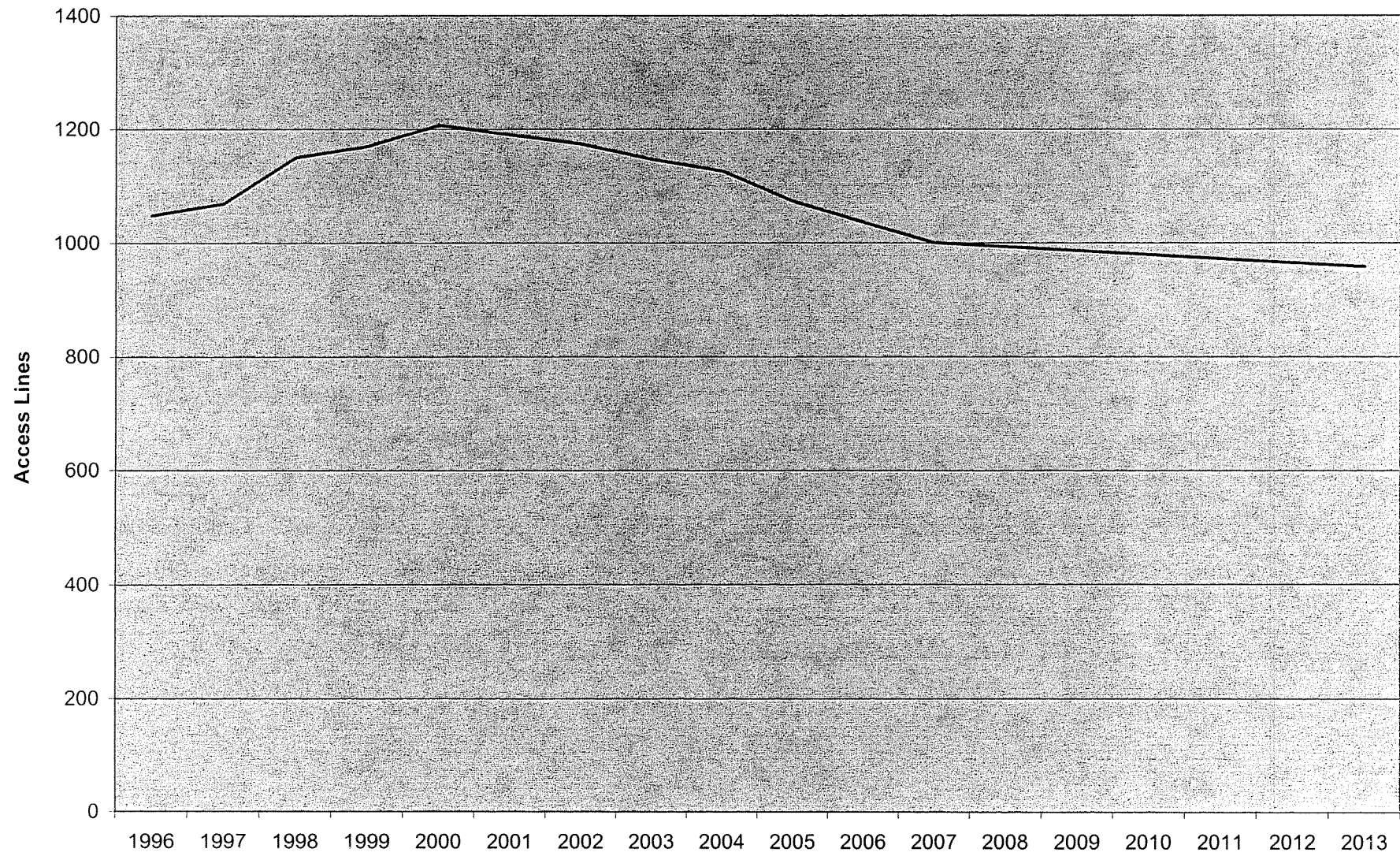
**Bandana**

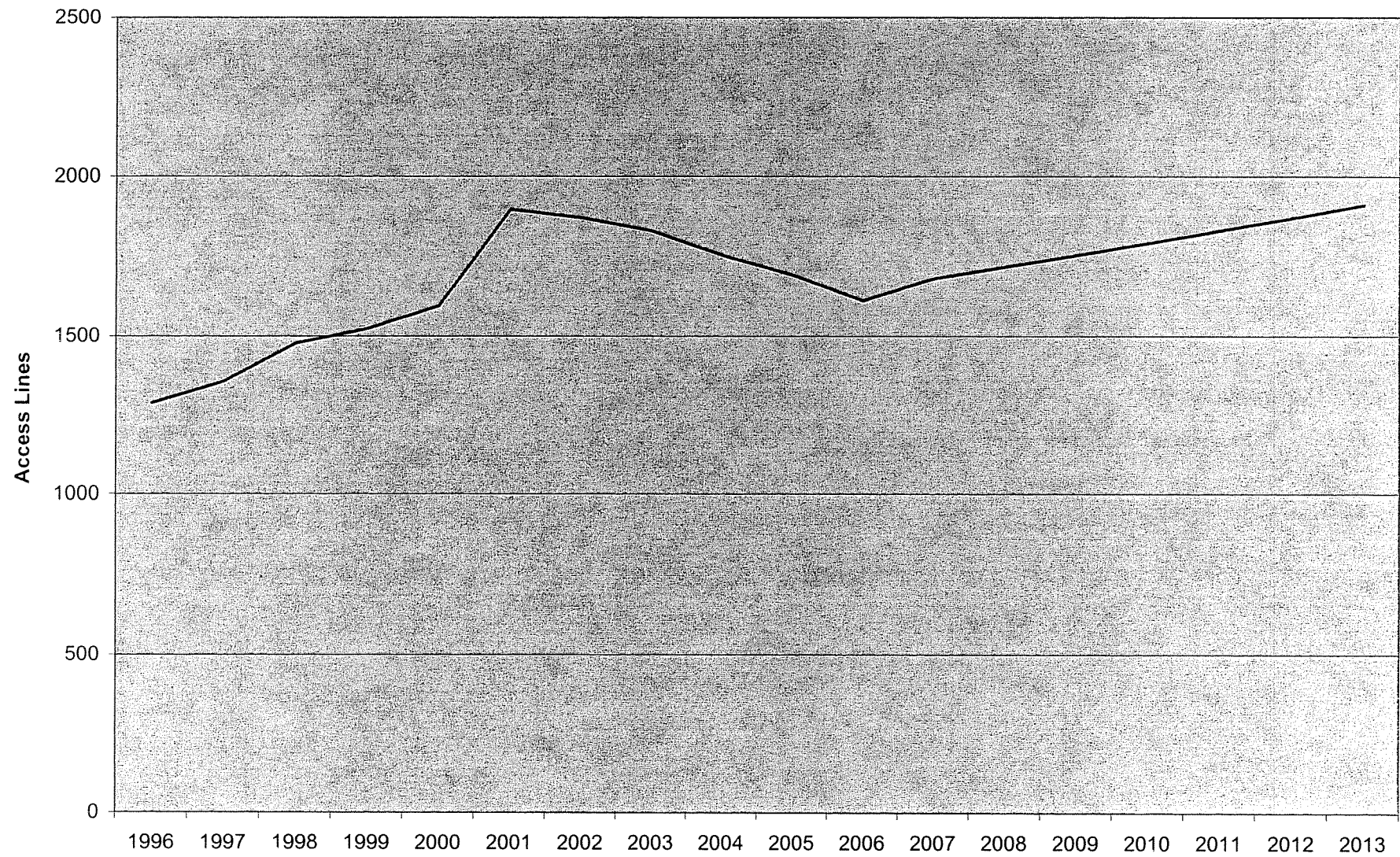


**Barlow**

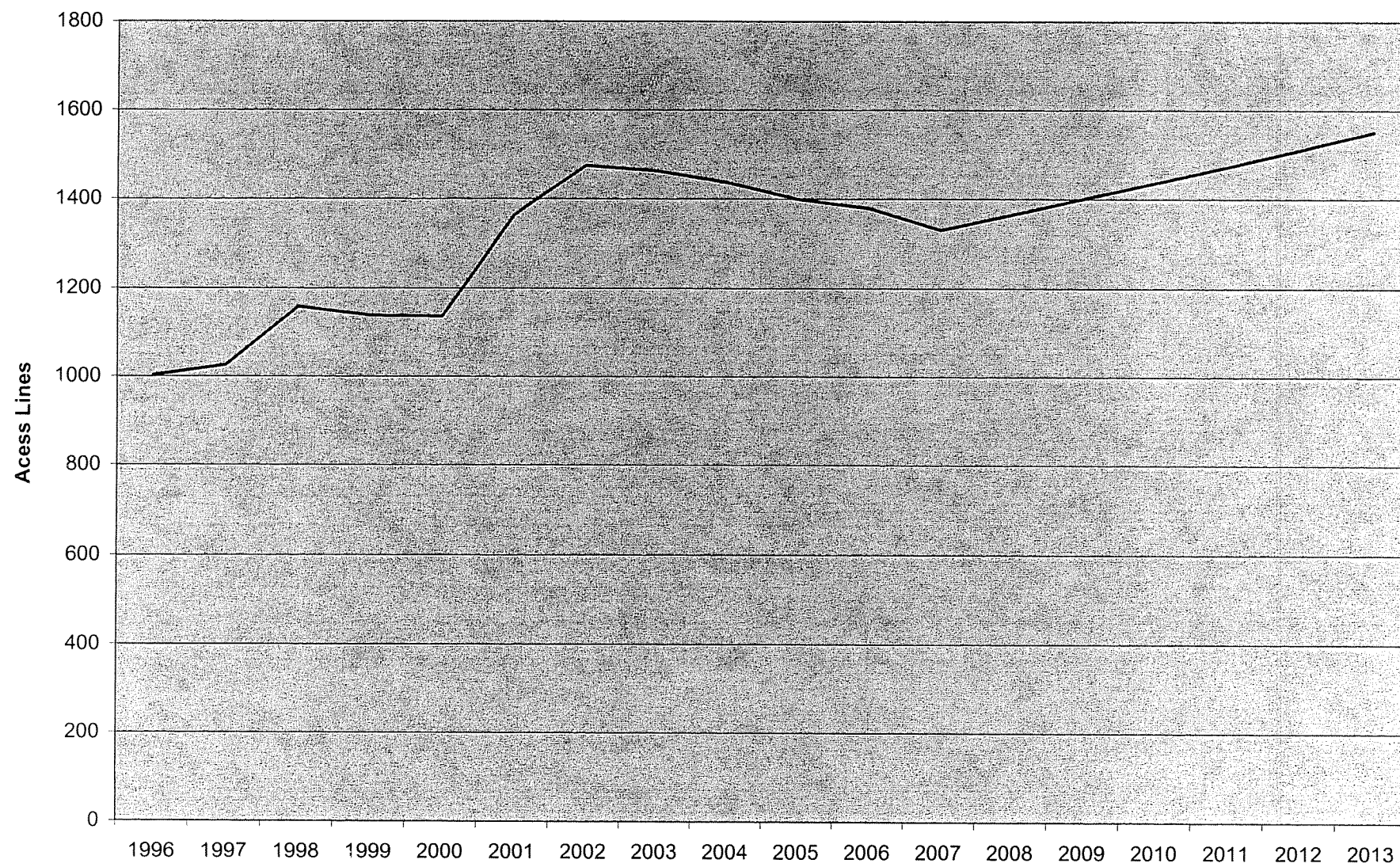
**Gage**

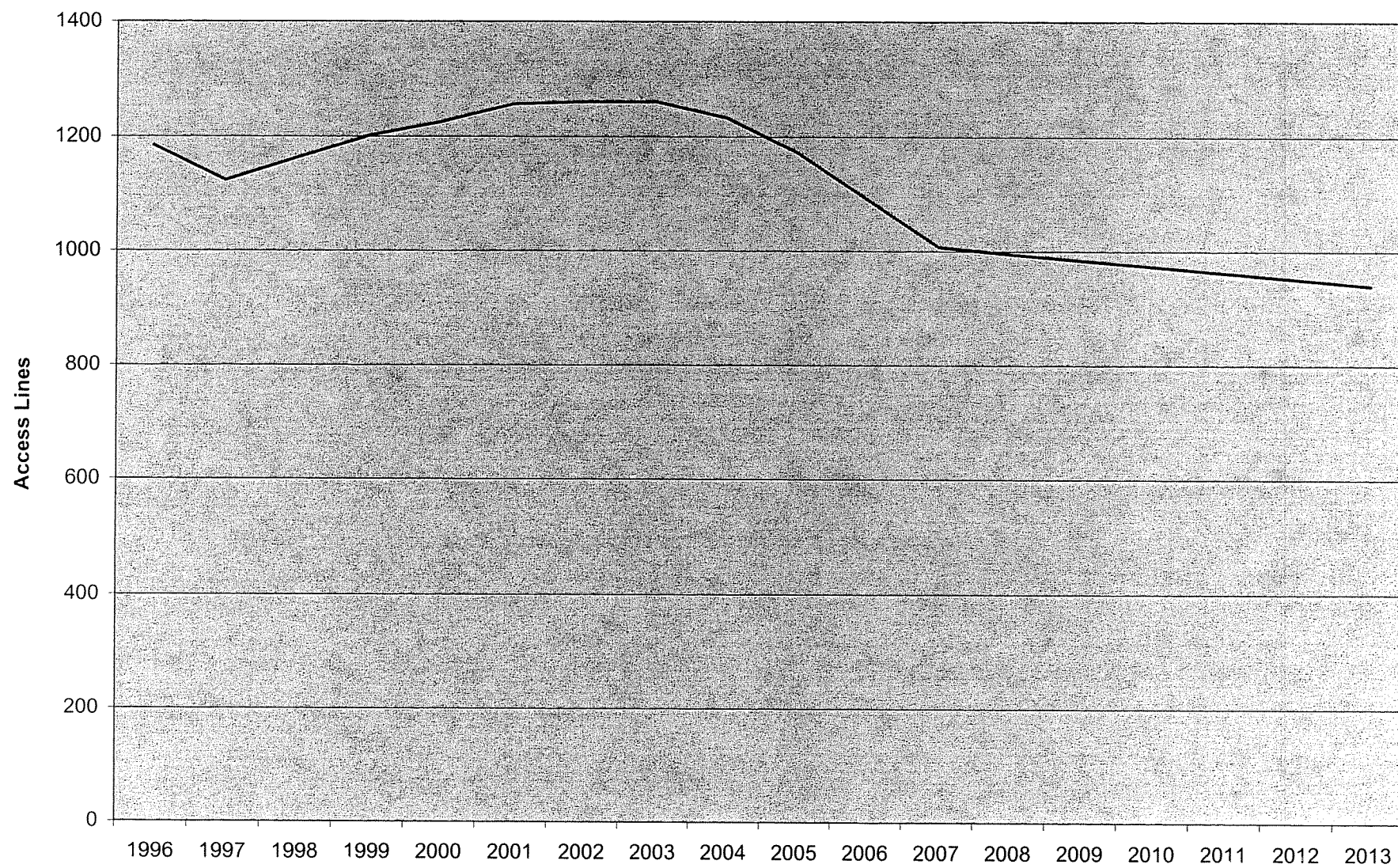


**Heath**

**Kevil**



**La Center**

**Wickliffe**

		Total Access Line information																												
	%A.G.	Year of FSR (Form 479) data																												
	1997-2007	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
	-0.80	Bandana	421	419	421	434	450	451	462	468	472	469	502	510	497	489	499	486	477	467	454	433	429	425	421	417	413	409		
	-1.33	Barlow	587	590	586	586	599	612	623	634	664	687	722	745	736	734	745	734	710	680	642	601	593	585	577	569	561	553		
	0.22	Gage	384	374	390	394	398	413	423	439	446	452	492	496	498	504	510	495	483	476	466	462	463	464	465	466	467	468		
	-0.67	Heath	846	852	878	902	921	946	997	1032	1048	1069	1150	1170	1207	1190	1174	1147	1126	1073	1036	1000	993	986	979	972	965	958		
	2.18	Kevil	951	974	979	992	1032	1063	1166	1238	1287	1356	1477	1523	1595	1897	1872	1831	1755	1693	1612	1682	1718	1755	1793	1832	1871	1911		
	2.64	LaCenter	863	866	867	859	879	906	933	965	1002	1025	1158	1138	1136	1364	1476	1464	1437	1399	1379	1330	1365	1401	1437	1474	1512	1551		
	-1.09	Wickliffe	969	1030	1048	1053	1056	1080	1094	1133	1185	1124	1164	1202	1226	1257	1261	1261	1233	1173	1090	1007	995	984	973	962	951	940		
	0.53	Total	5021	5105	5169	5220	5335	5471	5698	5909	6104	6182	6665	6784	6895	7435	7537	7418	7221	6961	6679	6515	6556	6600	6645	6692	6740	6790		
																			2007 subs	6515										
																			1997 subs	6182										
																			delta	333										
	Notes: Italic numbers are calculated projections.																													

## INTERNET &amp; VIDEO SUBSCRIBER GROWTH DATA

	Dial-Up Subs	Dial-Up Growth	DSL Subs	DSL Growth	Video Subs	Video Growth
Oct '04	1645		292		0	
Nov '04	1622	-23	327	35	0	0
Dec '04	1596	-26	358	31	0	0
Jan '05	1541	-55	442	84	0	0
Feb '05	1538	-3	443	1	0	0
Mar '05	1548	10	443	0	0	0
Apr '05	1529	-19	450	7	0	0
May '05	1519	-10	467	17	0	0
Jun '05	1482	-37	500	33	0	0
Jul '05	1461	-21	512	12	0	0
Aug '05	1438	-23	532	20	0	0
Sep '05	1421	-17	560	28	0	0
Oct '05	1406	-15	584	24	0	0
Nov '05	1380	-26	611	27	0	0
Dec '05	1340	-40	642	31	0	0
Jan '06	1316	-24	717	75	0	0
Feb '06	1299	-17	753	36	0	0
Mar '06	1283	-16	780	27	0	0
Apr '06	1244	-39	832	52	0	0
May '06	1199	-45	877	45	306	306
Jun '06	1131	-68	943	66	574	268
Jul '06	1095	-36	1002	59	669	95
Aug '06	1045	-50	1079	77	825	156
Sep '06	1014	-31	1118	39	954	129
Oct '06	983	-31	1181	63	1061	107
Nov '06	957	-26	1221	40	1122	61
Dec '06	927	-30	1290	69	1165	43
Jan '07	873	-54	1341	51	1264	99
Feb '07	848	-25	1402	61	1257	-7
Mar '07	825	-23	1470	68	1318	61
Apr '07	802	-23	1503	33	1361	43
May '07	783	-19	1519	16	1387	26
Jun '07	763	-20	1544	25	1419	32
Jul '07	750	-13	1562	18	1446	27
Aug '07	726	-24	1591	29	1454	8
Sep '07	700	-26	1635	44	1485	31
Oct '07	670	-30	1655	20	1505	20
Nov '07	644	-26	1685	30	1531	26
Dec '07	629	-15	1733	48	1575	44
Jan '08	597	-32	1794	61	1614	39
Feb '08	597	0	1819	25	1622	8
Mar '08	562	-35	1856	37	1641	19

# CONSTRUCTION COST ESTIMATES



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0079. The time required to complete this information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>LOAN DESIGN SUMMARY</b>	NAME OF BORROWER <b>BALLARD RTCC</b> BORROWER and LOAN DESIGNATION <b>KY 515 N</b> LAST YEAR-END DATE <b>12/31/2007</b>		
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.			
<b>PART A. PROPOSED EXPENDITURES</b>			
<b>PROPOSED CAPITAL EXPENDITURES</b>	<b>TOTAL</b>	<b>RUS FINANCING</b>	<b>(FOR RUS USE ONLY)</b>
<b>TOTAL EXCHANGE CONSTRUCTION BUDGET FROM FORM 495(s)</b>	<b>CONSTRUCTION (\$)</b>	<b>REQUESTED (\$)</b>	<b>FINANCING APPROVED</b>
1 Bandana	\$ 71,853		
2 Barlow	\$ 60,556		
3 Gage	\$ 83,150		
4 Heath	\$ 3,720,603		
5 Kevil	\$ 6,933,726		
6 LaCenter	\$ 2,733,651		
7 Wickliffe	\$ 94,447		
8			
9			
10			
<b>A. TOTAL PROPOSED CONSTRUCTION BUDGET (Sum of all exchanges)</b>	<b>\$ 13,697,985</b>		
<b>SYSTEM ENGINEERING BUDGET</b>			
1. PRELOAN ENGINEERING	\$ 25,000		
2. CONSTRUCTION ENGINEERING	\$ 1,713,000		
<b>B. TOTAL PROPOSED ENGINEERING BUDGET</b>	<b>\$ 1,738,000</b>		
<b>SUPPORT ASSETS</b>			
1 FURNITURE & OFFICE EQUIPMENT			
2 GENERAL PURPOSE COMPUTERS			
3 VEHICLES			
4 WORK EQUIPMENT			
<b>C. TOTAL PROPOSED SUPPORT &amp; OTHER ASSETS</b>	<b>\$ -</b>		
<b>TOTAL PROPOSED CAPITAL EXPENDITURES (A+B+C)</b>	<b>\$ 15,435,985</b>		
<b>PROPOSED OTHER EXPENDITURES</b>			
1 REFINANCING & DEBT RETIREMENT			
2 ACQUISITIONS			
3 COMPLETE PRIOR LOAN PROJECTS			
4 OTHER			
<b>D. TOTAL PROPOSED OTHER EXPENDITURES</b>	<b>\$ -</b>		
<b>TOTAL PROPOSED EXPENDITURES (A+B+C+D)</b>	<b>\$ 15,435,985</b>		
<b>PART B. PROPOSED FINANCING</b>			
<b>PRIOR RUS LOAN FUNDS AVAILABLE</b>	<b>PER FRS NO. ____</b>	<b>(FOR RUS USE ONLY)</b>	<b>(FOR RUS USE ONLY)</b>
	<b>DATED</b>	<b>Adjustment</b>	<b>New Project Budget</b>
1 CENTRAL OFFICE EQUIPMENT RESERVES			
2 OUTSIDE PLANT & STATION EQUIPMENT RESERVES			
3 LAND & BUILDINGS RESERVES			
4 ENGINEERING RESERVES			
5 OFFICE EQUIPMENT RESERVES			
6 VEHICLES AND WORK EQUIPMENT RESERVES			
7 GENERAL & OTHER RESERVES			
8 ENCUMBERED BUT UNADVANCED FUNDS			
<b>E. TOTAL PRIOR RUS LOAN FUNDS AVAILABLE</b>			
<b>NONRUS FUNDS AVAILABLE</b>			
1 CASH & OTHER FUNDS			
2 MATERIALS AVAILABLE FOR CONSTRUCTION			
<b>F. TOTAL NONRUS FUNDS AVAILABLE</b>			
<b>TOTAL FUNDS AVAILABLE FOR PROPOSED EXPENDITURES (E+F)</b>			
<b>NET RUS FINANCING</b>			
<b>NET PROPOSED EXPENDITURES</b>			
REMARKS:			

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION <b>KY 515 N</b>	
		NAME OF EXCHANGE <b>System Summary</b>	STATE <b>KY</b>
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>			
<b>CENTRAL OFFICE &amp; ELECTRONIC EQUIPMENT</b>		<b>TOTAL</b>	<b>RUS FINANCING</b>
Description		<b>CONSTRUCTION (\$)</b>	<b>REQUESTED (\$)</b>
1 NEW SWITCH			
2 ADDITIONS	Next Generation Switch Platform	\$ 78,000	
3 UPGRADE			
4 OPERATOR SYSTEMS			
5 RADIO SYSTEMS			
6 TOLL ELECTRONICS			
7 EAS ELECTRONICS			
8 LOCAL SERVICE ELECTRONICS	ADSL & GPON Equipment	\$ 2,067,540	
9 OTHER			
10 REMOVALS			
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 2,145,540	
<b>OUTSIDE PLANT</b>			
	ROUTE MILES		
12 BURIED PLANT - METAL			
13 BURIED PLANT - FIBER	391	\$ 11,552,445	
14 AERIAL PLANT - METAL			
15 AERIAL PLANT - FIBER			
16 AERIAL PLANT - POLES			
17 CONDUIT & MANHOLE SYSTEMS			
18 UNDERGROUND CABLE - METAL			
19 UNDERGROUND CABLE - FIBER			
20 OTHER (Describe)			
21 REMOVALS			
22 ROW PROCUREMENT			
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 11,552,445	
<b>LAND &amp; BUILDINGS</b>			
	Location	Size (sq ft)	
24 CO BUILDING			
25 HQ BUILDING			
26 WAREHOUSE / GARAGE			
27 LAND			
28 OTHER (Describe)			
29 REMOVALS			
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -	
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 13,697,985	
<b>PART B. ROUTE MILES OF PLANT (including drops)</b>		<b>PART D. EAS</b>	
1 EXISTING TO REMAIN AS IS:	832.0	1 EXISTING SERVICE	
2 EXISTING TO BE MODIFIED	391.0		
3 NEW ROUTE			
4 ROUTE RELINQUISHED			
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		2 NEW SERVICE	
TYPE	ORIGINAL COST (\$)		
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT	\$ 155,669		
3. LAND & BUILDINGS			
REMARKS:			

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>		
		BORROWER and LOAN DESIGNATION <b>KY 515 N</b>		
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		NAME OF EXCHANGE <b>Bandana</b>	STATE <b>KY</b>	
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>				
<b>CENTRAL OFFICE &amp; ELECTRONIC EQUIPMENT</b>		<b>TOTAL</b>	<b>RUS FINANCING</b>	
Description		<b>CONSTRUCTION (\$)</b>	<b>REQUESTED (\$)</b>	
1 NEW SWITCH				
2 ADDITIONS				
3 UPGRADE				
4 OPERATOR SYSTEMS				
5 RADIO SYSTEMS				
6 TOLL ELECTRONICS				
7 EAS ELECTRONICS				
8 LOCAL SERVICE ELECTRONICS	<u>ADSL Equipment</u>	\$ 71,853		
9 OTHER				
10 REMOVALS				
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 71,853		
<b>OUTSIDE PLANT</b>				
	ROUTE MILES			
12 BURIED PLANT - METAL				
13 BURIED PLANT - FIBER				
14 AERIAL PLANT - METAL				
15 AERIAL PLANT - FIBER				
16 AERIAL PLANT - POLES				
17 CONDUIT & MANHOLE SYSTEMS				
18 UNDERGROUND CABLE - METAL				
19 UNDERGROUND CABLE - FIBER				
20 OTHER (Describe)				
21 REMOVALS				
22 ROW PROCUREMENT				
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ -		
<b>LAND &amp; BUILDINGS</b>				
	Location	Size (sq ft)		
24 CO BUILDING				
25 HQ BUILDING				
26 WAREHOUSE / GARAGE				
27 LAND				
28 OTHER (Describe)				
29 REMOVALS				
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -		
35 TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 71,853		
<b>PART B. ROUTE MILES OF PLANT (Including drops)</b>		<b>PART D. EAS</b>		
1 EXISTING TO REMAIN AS IS:	185.0	<b>EXCHANGE</b>		
2 EXISTING TO BE MODIFIED				
3 NEW ROUTE				
4 ROUTE RELINQUISHED				
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		<b>2 NEW SERVICE</b>		
TYPE	ORIGINAL COST (\$)			SALVAGE (\$)
1. COE & ELECTRONIC EQUIPMENT				
2. OUTSIDE PLANT				
3. LAND & BUILDINGS				
<b>REMARKS:</b>				



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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER AND LOAN DESIGNATION <b>KY 515 N</b>	
		NAME OF EXCHANGE <b>Barlow</b>	STATE <b>KY</b>
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>			
CENTRAL OFFICE & ELECTRONIC EQUIPMENT		TOTAL	RUS FINANCING
Description		CONSTRUCTION (\$)	REQUESTED (\$)
1 NEW SWITCH			
2 ADDITIONS			
3 UPGRADE			
4 OPERATOR SYSTEMS			
5 RADIO SYSTEMS			
6 TOLL ELECTRONICS			
7 EAS ELECTRONICS			
8 LOCAL SERVICE ELECTRONICS	ADSL Equipment	\$ 60,556	
9 OTHER			
10 REMOVALS			
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 60,556	
OUTSIDE PLANT			
	ROUTE MILES		
12 BURIED PLANT - METAL			
13 BURIED PLANT - FIBER			
14 AERIAL PLANT - METAL			
15 AERIAL PLANT - FIBER			
16 AERIAL PLANT - POLES			
17 CONDUIT & MANHOLE SYSTEMS			
18 UNDERGROUND CABLE - METAL			
19 UNDERGROUND CABLE - FIBER			
20 OTHER (Describe)			
21 REMOVALS			
22 ROW PROCUREMENT			
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ -	
LAND & BUILDINGS			
	Location	Size (sq ft)	
24 CO BUILDING			
25 HQ BUILDING			
26 WAREHOUSE / GARAGE			
27 LAND			
28 OTHER (Describe)			
29 REMOVALS			
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -	
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 60,556	
<b>PART B. ROUTE MILES OF PLANT (including drops)</b>		<b>PART D. EAS</b>	
1 EXISTING TO REMAIN AS IS:	118.0	1 EXISTING SERVICE	
2 EXISTING TO BE MODIFIED			
3 NEW ROUTE			
4 ROUTE RELINQUISHED			
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		2 NEW SERVICE	
TYPE	ORIGINAL COST (\$)		
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT			
3. LAND & BUILDINGS			
REMARKS:			

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION <b>KY 515 N</b>	
		NAME OF EXCHANGE <b>Gage</b>	STATE <b>KY</b>
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>			
<b>CENTRAL OFFICE &amp; ELECTRONIC EQUIPMENT</b>		<b>TOTAL</b>	<b>RUS FINANCING</b>
Description		<b>CONSTRUCTION (\$)</b>	<b>REQUESTED (\$)</b>
1 NEW SWITCH			
2 ADDITIONS			
3 UPGRADE			
4 OPERATOR SYSTEMS			
5 RADIO SYSTEMS			
6 TOLL ELECTRONICS			
7 EAS ELECTRONICS			
8 LOCAL SERVICE ELECTRONICS	<u>ADSL Equipment</u>	\$ 83,150	
9 OTHER			
10 REMOVALS			
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 83,150	
<b>OUTSIDE PLANT</b>			
	ROUTE MILES		
12 BURIED PLANT - METAL			
13 BURIED PLANT - FIBER			
14 AERIAL PLANT - METAL			
15 AERIAL PLANT - FIBER			
16 AERIAL PLANT - POLES			
17 CONDUIT & MANHOLE SYSTEMS			
18 UNDERGROUND CABLE - METAL			
19 UNDERGROUND CABLE - FIBER			
20 OTHER (Describe)			
21 REMOVALS			
22 ROW PROCUREMENT			
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ -	
<b>LAND &amp; BUILDINGS</b>			
	Location	Size (sq ft)	
24 CO BUILDING			
25 HQ BUILDING			
26 WAREHOUSE / GARAGE			
27 LAND			
28 OTHER (Describe)			
29 REMOVALS			
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -	
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 83,150	
<b>PART B. ROUTE MILES OF PLANT (including drops)</b>		<b>PART D. EAS</b>	
1 EXISTING TO REMAIN AS IS:	169.0	<b>EXCHANGE</b> 1 EXISTING SERVICE    	
2 EXISTING TO BE MODIFIED			
3 NEW ROUTE			
4 ROUTE RELINQUISHED			
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		2 NEW SERVICE    	
TYPE	ORIGINAL COST (\$)		
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT			
3. LAND & BUILDINGS			
<b>REMARKS:</b>			

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION <b>KY 515 N</b>	
		NAME OF EXCHANGE <b>Heath</b>	STATE <b>KY</b>
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>			
CENTRAL OFFICE & ELECTRONIC EQUIPMENT		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)
Description			(FOR RUS USE ONLY) FINANCING APPROVED
1 NEW SWITCH			
2 ADDITIONS	Next Generation Switch Platform	\$ 26,000	
3 UPGRADE			
4 OPERATOR SYSTEMS			
5 RADIO SYSTEMS			
6 TOLL ELECTRONICS			
7 EAS ELECTRONICS			
8 LOCAL SERVICE ELECTRONICS	GPON Equipment	\$ 457,192	
9 OTHER			
10 REMOVALS			
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 483,192	
OUTSIDE PLANT			
	ROUTE MILES		
12 BURIED PLANT - METAL			
13 BURIED PLANT - FIBER	107	\$ 3,237,411	
14 AERIAL PLANT - METAL			
15 AERIAL PLANT - FIBER			
16 AERIAL PLANT - POLES			
17 CONDUIT & MANHOLE SYSTEMS			
18 UNDERGROUND CABLE - METAL			
19 UNDERGROUND CABLE - FIBER			
20 OTHER (Describe)			
21 REMOVALS			
22 ROW PROCUREMENT			
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 3,237,411	
LAND & BUILDINGS			
	Location	Size (sq. ft.)	
24 CO BUILDING			
25 HQ BUILDING			
26 WAREHOUSE / GARAGE			
27 LAND			
28 OTHER (Describe)			
29 REMOVALS			
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -	
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 3,720,603	
<b>PART B. ROUTE MILES OF PLANT (including drops)</b>		<b>PART D. EAS</b>	
1 EXISTING TO REMAIN AS IS:	29.0	EXCHANGE 1 EXISTING SERVICE	
2 EXISTING TO BE MODIFIED	107.0		
3 NEW ROUTE			
4 ROUTE RELINQUISHED			
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		2 NEW SERVICE	
TYPE	ORIGINAL COST (\$)		
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT	\$ 39,864		
3. LAND & BUILDINGS			
REMARKS:			

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION <b>KY 515 N</b>	
		NAME OF EXCHANGE <b>Kevil</b>	STATE <b>KY</b>
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>			
<b>CENTRAL OFFICE &amp; ELECTRONIC EQUIPMENT</b>		<b>TOTAL</b>	<b>RUS FINANCING</b>
Description		<b>CONSTRUCTION (\$)</b>	<b>REQUESTED (\$)</b>
1 NEW SWITCH			
2 ADDITIONS	Next Generation Switch Platform	\$ 26,000	
3 UPGRADE			
4 OPERATOR SYSTEMS			
5 RADIO SYSTEMS			
6 TOLL ELECTRONICS			
7 EAS ELECTRONICS			
8 LOCAL SERVICE ELECTRONICS	GPON Equipment	\$ 886,747	
9 OTHER			
10 REMOVALS			
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 912,747	
<b>OUTSIDE PLANT</b>			
	ROUTE MILES		
12 BURIED PLANT - METAL			
13 BURIED PLANT - FIBER	199	\$ 6,020,979	
14 AERIAL PLANT - METAL			
15 AERIAL PLANT - FIBER			
16 AERIAL PLANT - POLES			
17 CONDUIT & MANHOLE SYSTEMS			
18 UNDERGROUND CABLE - METAL			
19 UNDERGROUND CABLE - FIBER			
20 OTHER (Describe)			
21 REMOVALS			
22 ROW PROCUREMENT			
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 6,020,979	
<b>LAND &amp; BUILDINGS</b>			
	Location	Size (sq. ft.)	
24 CO BUILDING			
25 HQ BUILDING			
26 WAREHOUSE / GARAGE			
27 LAND			
28 OTHER (Describe)			
29 REMOVALS			
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -	
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 6,933,726	
<b>PART B. ROUTE MILES OF PLANT (including drops)</b>		<b>PART D. EAS</b>	
1 EXISTING TO REMAIN AS IS:	57.0	EXCHANGE 1 EXISTING SERVICE	
2 EXISTING TO BE MODIFIED	199.0		
3 NEW ROUTE			
4 ROUTE RELINQUISHED			
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		2 NEW SERVICE	
TYPE	ORIGINAL COST (\$)		
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT	\$ 77,318		
3. LAND & BUILDINGS			
REMARKS:			

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>		
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION  <b>KY 515 N</b>		
		NAME OF EXCHANGE <b>LaCenter</b>	STATE <b>KY</b>	
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>				
<b>CENTRAL OFFICE &amp; ELECTRONIC EQUIPMENT</b>		<b>TOTAL</b> <b>CONSTRUCTION (\$)</b>	<b>RUS FINANCING</b> <b>REQUESTED (\$)</b>	
Description			(FOR RUS USE ONLY) FINANCING APPROVED	
1 NEW SWITCH				
2 ADDITIONS	Next Generation Switch Platform	\$ 26,000		
3 UPGRADE				
4 OPERATOR SYSTEMS				
5 RADIO SYSTEMS				
6 TOLL ELECTRONICS				
7 EAS ELECTRONICS				
8 LOCAL SERVICE ELECTRONICS	GPON Equipment	\$ 413,596		
9 OTHER				
10 REMOVALS				
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 439,596		
<b>OUTSIDE PLANT</b>				
	ROUTE MILES			
12 BURIED PLANT - METAL				
13 BURIED PLANT - FIBER	85	\$ 2,294,055		
14 AERIAL PLANT - METAL				
15 AERIAL PLANT - FIBER				
16 AERIAL PLANT - POLES				
17 CONDUIT & MANHOLE SYSTEMS				
18 UNDERGROUND CABLE - METAL				
19 UNDERGROUND CABLE - FIBER				
20 OTHER (Describe)				
21 REMOVALS				
22 ROW PROCUREMENT				
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 2,294,055		
<b>LAND &amp; BUILDINGS</b>				
	Location	Size (sq ft)		
24 CO BUILDING				
25 HQ BUILDING				
26 WAREHOUSE / GARAGE				
27 LAND				
28 OTHER (Describe)				
29 REMOVALS				
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -		
35 TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 2,733,651		
<b>PART B. ROUTE MILES OF PLANT (including drops)</b>		<b>PART D. EAS</b>		
1. EXISTING TO REMAIN AS IS:	80.0	EXCHANGE 1 EXISTING SERVICE		
2. EXISTING TO BE MODIFIED	85.0			
3. NEW ROUTE				
4. ROUTE RELINQUISHED				
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		2 NEW SERVICE		
TYPE	ORIGINAL COST (\$)			SALVAGE (\$)
1. COE & ELECTRONIC EQUIPMENT				
2. OUTSIDE PLANT	\$ 38,487			
3. LAND & BUILDINGS				
REMARKS:				

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>CONSTRUCTION COST ESTIMATES</b>		NAME OF BORROWER <b>Ballard RTCC</b>	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION <b>KY 515 N</b>	
		NAME OF EXCHANGE <b>Wickliffe</b>	STATE <b>KY</b>
<b>PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)</b>			
CENTRAL OFFICE & ELECTRONIC EQUIPMENT		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)
Description			(FOR RUS USE ONLY) FINANCING APPROVED
1 NEW SWITCH			
2 ADDITIONS			
3 UPGRADE			
4 OPERATOR SYSTEMS			
5 RADIO SYSTEMS			
6 TOLL ELECTRONICS			
7 EAS ELECTRONICS			
8 LOCAL SERVICE ELECTRONICS	<u>ADSL Equipment</u>	\$ 94,447	
9 OTHER			
10 REMOVALS			
11 SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 94,447	
OUTSIDE PLANT			
ROUTE MILES			
12 BURIED PLANT - METAL			
13 BURIED PLANT - FIBER			
14 AERIAL PLANT - METAL			
15 AERIAL PLANT - FIBER			
16 AERIAL PLANT - POLES			
17 CONDUIT & MANHOLE SYSTEMS			
18 UNDERGROUND CABLE - METAL			
19 UNDERGROUND CABLE - FIBER			
20 OTHER (Describe)			
21 REMOVALS			
22 ROW PROCUREMENT			
23 SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ -	
LAND & BUILDINGS			
Location                      Size (sq. ft.)			
24 CO BUILDING			
25 HQ BUILDING			
26 WAREHOUSE / GARAGE			
27 LAND			
28 OTHER (Describe)			
29 REMOVALS			
30 SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -	
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 94,447	
<b>PART B. ROUTE MILES OF PLANT (including drops)</b>		<b>PART D. EAS</b>	
1 EXISTING TO REMAIN AS IS:	194.0	1 EXISTING SERVICE	EXCHANGE
2 EXISTING TO BE MODIFIED			
3 NEW ROUTE			
4 ROUTE RELINQUISHED			
<b>PART C. TELECOMMUNICATIONS PLANT RETIRED</b>		2 NEW SERVICE	
TYPE	ORIGINAL COST (\$)	SALVAGE (\$)	
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT			
3. LAND & BUILDINGS			
REMARKS:			

## **COST ESTIMATING METHODS**

### **CENTRAL OFFICE & ELECTRONIC EQUIPMENT**

Costs for Central Office and Electronic Equipment include next generation switch platform and GPON equipment. Cost for initial installation of the next generation switch platform is covered under the previous loan. The additional expenses shown are based on budgetary proposals from a vendor for the addition of GPON subscribers onto the new switch.

GPON equipment costs are based on recent bid proposals from vendors for the LaCenter Phase I project which is being conducted under the previous loan. Equipment unit prices from the bids were used to estimate the cost for LaCenter Phase II. The total LaCenter exchange estimate was then used to calculate a per GPON subscriber cost. For the initial installation of the FTTP network, only subscribers with DSL or video services (approximately 60% of access lines) will be turned up on GPON equipment. The per subscriber cost was used to estimate GPON equipment costs for the Heath and Kevil exchanges based on projected access line data and the expected 60% turn up rate. Details are shown on page IV-12.

The expected turn up rate is based on the DSL and video data shown on page IV-15. DSL take rate has increased from 9% to 28% and video take rate has increased from 4% to 25% since 2006. The current take rate for DSL or video service is 40%. Given the growth of DSL and video take rates in recent years, an estimated 60% of total access lines will be turned up on GPON equipment under this loan design.

ADSL equipment costs are based on recent bid proposals from several vendors. Unit prices from the bids were used to calculate costs for equipment at remote sites as well as central offices. The remote site and central office costs were then used to estimate ADSL equipment costs for the Bandana, Barlow, Gage, and Wickliffe exchanges. Details are shown on page IV-13.

### **OUTSIDE PLANT**

An Outside Plant (OSP) design for the LaCenter exchange was completed and is presented in this Loan Design. The OSP design is based on bid proposals from contractors for OSP construction on the LaCenter Phase I project. Unit prices from the bids were used to estimate construction costs for the entire LaCenter exchange. Using the design data, a cost per route mile was calculated. This per route mile cost was then used to estimate OSP construction costs for the Heath and Kevil exchanges. An OSP cost summary is shown on page IV-14.

## LAND & BUILDINGS

No new land or buildings are planned under this loan design. The goal of the FTTP projects is to reduce the need for new land and buildings and eventually retire equipment at remote locations.

## ROUTE MILES OF PLANT

Most of the existing route miles of plant will be modified as fiber cables are placed along the copper backbone. Some existing copper plant will remain as is to service POTS only subscribers. No new routes are planned under this loan design.

## TELECOMMUNICATIONS PLANT RETIRED

As new fiber drops are placed to subscribers using GPON equipment, the existing copper drops will be retired. The original cost was calculated using an average cost of \$68.95 per drop. Retired cable plant will be abandoned in place. BRTCC does not plan major cable removals under this loan design.

## ENGINEERING BUDGET

Construction engineering costs were calculated at 12.5% of the proposed construction costs.



## GPON EQUIPMENT COST SUMMARY

LaCenter Phase II Estimate

Part	Quantity	Unit Cost	Total Cost
GPON OLT 4-Port Blade	6	\$13,950	\$83,700
GPON Optical Transceiver	24	\$713	\$17,112
GPON ONT	680	\$458.80	\$311,984
Installation Hours	4	\$200	\$800
Total			\$413,596

907 total GPON subs, 227 in Phase I, 680 in Phase II  
 128 subs per 4-port blade using 1:32 split

La Center Data

Phase I Bid	Phase II Estimate	Total GPON Cost	2012 Access Lines	GPON* Subscribers	Cost Per GPON Subscriber
\$302,750	\$413,596	\$716,346	1,512	907	\$790

Heath &amp; Kevil Estimates

Exchange	2012 Access Lines	GPON* Subscribers	GPON Equipment Cost
Heath	965	579	\$457,192
Kevil	1871	1123	\$886,747

\* calculated by 60% of access lines

GPON Equipment Cost

Exchange	GPON Cost
Heath	\$457,192
Kevil	\$886,747
La Center Phase II	\$413,596
Total	\$1,757,534

**ADSL EQUIPMENT COST SUMMARY****Remote Site Cost**

Part	Quantity	Unit Cost	Total Cost
ADSL2+ Blade	1	\$6,837	\$6,837
Retrofit Kit	1	\$2,660	\$2,660
Installation Hours	9	\$200	\$1,800
Total			\$11,297

**Central Office Cost**

Part	Quantity	Unit Cost	Total Cost
High Density Chassis	1	\$2,728	\$2,728
10GigE Transport Blade	2	\$7,750	\$15,500
ADSL2+ Blade	1	\$6,837	\$6,837
Installation Hours	8	\$200	\$1,600
Total			\$26,665

**ADSL Equipment Cost**

Exchange	Remote Sites	Remote Site Cost	CO Cost	Total Equipment Cost
Bandana	4	\$45,188	\$26,665	\$71,853
Barlow	3	\$33,891	\$26,665	\$60,556
Gage	5	\$56,485	\$26,665	\$83,150
Wickliffe	6	\$67,782	\$26,665	\$94,447
Totals	18	\$203,346	\$106,660	\$310,006

### OUTSIDE PLANT COST SUMMARY

#### LaCenter Design Data

Exchange	Total Route Miles	Route Miles Modified	Design Cost Estimate	Phase I OSP Cost	Phase II OSP Cost	Cost Per Modified Mile
LaCenter	165	125	\$3,601,926	\$1,417,112	\$2,184,814	\$28,815

#### Heath & Kevil Estimates

Exchange	2012 Subscribers	Total Route Miles	Subscriber Drop Miles*	Drop Miles Modified**	Route Miles Modified	OSP Cost
Heath	965	136	73	44	107	\$3,083,249
Kevil	1871	256	142	85	199	\$5,734,266

\* calculated by an average of 400' of drop per subscriber

\*\* calculated by 60% of subscriber drop miles

#### Outside Plant Costs

Exchange	OSP Cost	OSP Cost with 5% Inflation
Heath	\$3,083,249	\$3,237,411
Kevil	\$5,734,266	\$6,020,979
LaCenter Phase II	\$2,184,814	\$2,294,055
Totals	\$11,002,329	\$11,552,445

**DSL & VIDEO DATA**

Exchange	Telephone Subscribers	DSL Subscribers	Video Subscribers	Video Subs with DSL
Bandana	433	161	173	88
Barlow	601	190	206	93
Gage	462	164	151	75
Heath	1000	319	254	147
Kevil	1682	459	434	235
LaCenter	1330	297	235	114
Wickliffe	1007	235	191	106
Totals	6515	1825	1644	858

Telephone Subscribers 6515

DSL Subscribers 1825

DSL Take Rate 28.01%

Video Subscribers 1644

Video Take Rate 25.23%

Subscribers with DSL or Video 2611

DSL or Video Take Rate 40.08%

OUTSIDE PLANT DESIGN  
LACENTER EXCHANGE

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>Hazelwood</b>						
BDSO(432)	1	\$1,916.52	\$1,916.52	\$4,888.39	\$4,888.39	\$6,804.91
Splitter	4	\$50.00	\$200.00	\$1,400.00	\$5,600.00	\$5,800.00
BA3	9	\$26.00	\$234.00	\$84.06	\$756.54	\$990.54
BDO3B(0)	20	\$348.40	\$6,968.00	\$470.05	\$9,401.00	\$16,369.00
BDO3B(1)	61	\$348.40	\$21,252.40	\$492.82	\$30,062.02	\$51,314.42
BDO3B(2)	2	\$348.40	\$696.80	\$515.58	\$1,031.16	\$1,727.96
BDO4B(1)	10	\$348.40	\$3,484.00	\$605.61	\$6,056.10	\$9,540.10
BDO5B(0)	10	\$348.40	\$3,484.00	\$733.34	\$7,333.40	\$10,817.40
BDO5B(1)	4	\$348.40	\$1,393.60	\$756.11	\$3,024.44	\$4,418.04
BDO5B(4)	1	\$348.40	\$348.40	\$827.26	\$827.26	\$1,175.66
BD3	1	\$130.00	\$130.00	\$73.67	\$73.67	\$203.67
XXBD2	1	\$26.00	\$26.00	\$0.00	\$0.00	\$26.00
HC1	4	\$3.00	\$12.00	\$1.80	\$7.20	\$19.20
HO1	769	\$30.00	\$23,070.00	\$0.99	\$761.31	\$23,831.31
BHF(24x36x30)T	7	\$300.00	\$2,100.00	\$733.41	\$5,133.87	\$7,233.87
BM2	85	\$26.00	\$2,210.00	\$23.84	\$2,026.40	\$4,236.40
BM2A	40	\$19.50	\$780.00	\$5.08	\$203.20	\$983.20
BM53	25	\$26.00	\$650.00	\$13.25	\$331.25	\$981.25
BM60-1.25(P)(36)D	2562	\$10.40	\$26,644.80	\$0.65	\$1,665.30	\$28,310.10
BM60-1.25(P)(60)D	3484	\$10.40	\$36,233.60	\$0.65	\$2,264.60	\$38,498.20
BM60-1.25(P)(96)D	2198	\$10.40	\$22,859.20	\$0.65	\$1,428.70	\$24,287.90
BM60-2(P)(60)D	110	\$10.40	\$1,144.00	\$0.78	\$85.80	\$1,229.80
BM61	319	\$10.40	\$3,317.60	\$0.65	\$207.35	\$3,524.95
BM73	14	\$10.40	\$145.60	\$6.50	\$91.00	\$236.60
BFOV(1)(1.25)B	9189	\$7.80	\$71,674.20	\$0.55	\$5,053.95	\$76,728.15
BFOV(2)(1.25)B	984	\$7.80	\$7,675.20	\$1.09	\$1,072.56	\$8,747.76
BFO12	18494	\$1.00	\$18,494.00	\$0.66	\$12,206.04	\$30,700.04
BFO24	16860	\$1.00	\$16,860.00	\$0.76	\$12,813.60	\$29,673.60
BFO48	2858	\$1.00	\$2,858.00	\$0.92	\$2,629.36	\$5,487.36
BFO72	8088	\$1.00	\$8,088.00	\$1.11	\$8,977.68	\$17,065.68
BFO96	3280	\$1.00	\$3,280.00	\$1.35	\$4,428.00	\$7,708.00
BFO144	3534	\$1.00	\$3,534.00	\$1.80	\$6,361.20	\$9,895.20
BFO12I	3836	\$0.35	\$1,342.60	\$0.63	\$2,416.68	\$3,759.28
BFO24I	2628	\$0.35	\$919.80	\$0.72	\$1,892.16	\$2,811.96
BFO36I	678	\$0.35	\$237.30	\$0.79	\$535.62	\$772.92
BFO48I	3036	\$0.35	\$1,062.60	\$0.89	\$2,702.04	\$3,764.64
BFO96I	1550	\$0.35	\$542.50	\$1.31	\$2,030.50	\$2,573.00
BFO144I	2846	\$0.35	\$996.10	\$1.76	\$5,008.96	\$6,005.06
SEBO6	25218	\$1.25	\$31,522.50	\$0.89	\$22,444.02	\$53,966.52
SEBP6-22	110	\$1.50	\$165.00	\$1.67	\$183.70	\$348.70
ONT2	40	\$75.00	\$3,000.00	\$114.19	\$4,567.60	\$7,567.60
ONT3	49	\$75.00	\$3,675.00	\$114.19	\$5,595.31	\$9,270.31
ONT7	11	\$75.00	\$825.00	\$170.68	\$1,877.48	\$2,702.48
BM17	744	\$3.90	\$2,901.60	\$0.83	\$617.52	\$3,519.12
BM83	88	\$19.50	\$1,716.00	\$4.26	\$374.88	\$2,090.88
HBFO(288)(144)(96)(48)(24)[12]	1	\$177.00	\$177.00	\$631.00	\$631.00	\$808.00
HBFO(12)(12)[1]	2	\$100.00	\$200.00	\$396.15	\$792.30	\$992.30
HBFO(12)[1]	2	\$125.00	\$250.00	\$325.00	\$650.00	\$900.00
HBFO(12)(12)(12)[1]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(36)(36)[2]	1	\$100.00	\$100.00	\$436.76	\$436.76	\$536.76
HBFO(144)(48)(24)(12)[6]	1	\$166.00	\$166.00	\$488.00	\$488.00	\$654.00
<b>Totals for Hazelwood</b>			<b>\$341,687.92</b>		<b>\$190,371.88</b>	<b>\$532,059.80</b>

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>Bluegrass</b>						
BDSO(288)	1	\$1,750.00	\$1,750.00	\$4,333.33	\$4,333.33	\$6,083.33
Splitter	5	\$50.00	\$250.00	\$1,400.00	\$7,000.00	\$7,250.00
BA3	5	\$26.00	\$130.00	\$84.06	\$420.30	\$550.30
BDO3B(1)	47	\$348.40	\$16,374.80	\$492.82	\$23,162.54	\$39,537.34
BDO5B(1)	1	\$348.40	\$348.40	\$756.11	\$756.11	\$1,104.51
HC1	2	\$3.00	\$6.00	\$1.80	\$3.60	\$9.60
HO1	885	\$30.00	\$26,550.00	\$0.99	\$876.15	\$27,426.15
BHF(24x36x30)T	3	\$300.00	\$900.00	\$733.41	\$2,200.23	\$3,100.23
BM2	14	\$26.00	\$364.00	\$23.84	\$333.76	\$697.76
BM2A	43	\$19.50	\$838.50	\$5.08	\$218.44	\$1,056.94
BM53	18	\$26.00	\$468.00	\$13.25	\$238.50	\$706.50
BM60-1.25(P)(60)D	1150	\$10.40	\$11,960.00	\$0.65	\$747.50	\$12,707.50
BM61	1097	\$10.40	\$11,408.80	\$0.65	\$713.05	\$12,121.85
BM72	61	\$10.40	\$634.40	\$6.50	\$396.50	\$1,030.90
BM73	39	\$10.40	\$405.60	\$6.50	\$253.50	\$659.10
BFOV(1)(1.25)B	8504	\$7.80	\$66,331.20	\$0.55	\$4,677.20	\$71,008.40
BFOV(2)(1.25)B	4056	\$7.80	\$31,636.80	\$1.09	\$4,421.04	\$36,057.84
BFOV(4)(1.25)B	296	\$10.40	\$3,078.40	\$2.18	\$645.28	\$3,723.68
BFO36	722	\$1.00	\$722.00	\$0.83	\$599.26	\$1,321.26
BFO48	320	\$1.00	\$320.00	\$0.92	\$294.40	\$614.40
BFO60	780	\$1.00	\$780.00	\$1.11	\$865.80	\$1,645.80
BFO12I	2084	\$0.35	\$729.40	\$0.63	\$1,312.92	\$2,042.32
BFO24I	740	\$0.35	\$259.00	\$0.72	\$532.80	\$791.80
BFO36I	3170	\$0.35	\$1,109.50	\$0.79	\$2,504.30	\$3,613.80
BFO48I	3700	\$0.35	\$1,295.00	\$0.89	\$3,293.00	\$4,588.00
BFO60I	5360	\$0.35	\$1,876.00	\$1.07	\$5,735.20	\$7,611.20
BFO72I	5748	\$0.35	\$2,011.80	\$1.07	\$6,150.36	\$8,162.16
BFO144I	1374	\$0.35	\$480.90	\$1.76	\$2,418.24	\$2,899.14
SEBO6	26868	\$1.25	\$33,585.00	\$0.89	\$23,912.52	\$57,497.52
SEBP6-22	474	\$1.50	\$711.00	\$1.67	\$791.58	\$1,502.58
NID(6)(2)4	2	\$85.00	\$170.00	\$50.00	\$100.00	\$270.00
ONT2	34	\$75.00	\$2,550.00	\$114.19	\$3,882.46	\$6,432.46
ONT3	78	\$75.00	\$5,850.00	\$114.19	\$8,906.82	\$14,756.82
ONT4	12	\$75.00	\$900.00	\$133.29	\$1,599.48	\$2,499.48
ONT5	1	\$75.00	\$75.00	\$133.29	\$133.29	\$208.29
ONT7	5	\$75.00	\$375.00	\$170.68	\$853.40	\$1,228.40
ONT8	1	\$75.00	\$75.00	\$170.68	\$170.68	\$245.68
BM17	456	\$3.90	\$1,778.40	\$0.83	\$378.48	\$2,156.88
BM83	126	\$19.50	\$2,457.00	\$4.26	\$536.76	\$2,993.76
HBFO(36)(36)[2]	1	\$100.00	\$100.00	\$436.76	\$436.76	\$536.76
HBFO(144)(36)(36)(60)[6]	1	\$166.00	\$166.00	\$488.00	\$488.00	\$654.00
HBFO(144)(72)(72)[6]	1	\$166.00	\$166.00	\$488.00	\$488.00	\$654.00
HBFO(288)(144)(60)(48)[12]	1	\$177.00	\$177.00	\$631.00	\$631.00	\$808.00
<b>Totals for Bluegrass</b>			<b>\$232,153.90</b>		<b>\$118,412.54</b>	<b>\$350,566.44</b>

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>Turner Landing</b>						
BDSO(144)	1	\$1,216.77	\$1,216.77	\$2,555.56	\$2,555.56	\$3,772.33
Splitter	2	\$200.00	\$400.00	\$1,400.00	\$2,800.00	\$3,200.00
BA3	8	\$26.00	\$208.00	\$84.06	\$672.48	\$880.48
BDO3B(1)	13	\$348.40	\$4,529.20	\$492.82	\$6,406.66	\$10,935.86
BDO4B(1)	19	\$348.40	\$6,619.60	\$605.61	\$11,506.59	\$18,126.19
BDO5B(1)	1	\$348.40	\$348.40	\$756.11	\$756.11	\$1,104.51
BDO5B(3)	1	\$348.40	\$348.40	\$801.63	\$801.63	\$1,150.03
HO1	347	\$30.00	\$10,410.00	\$0.99	\$343.53	\$10,753.53
BM2	25	\$26.00	\$650.00	\$23.84	\$596.00	\$1,246.00
BM2A	12	\$19.50	\$234.00	\$5.08	\$60.96	\$294.96
BM53	26	\$26.00	\$676.00	\$13.25	\$344.50	\$1,020.50
BM60-1.25(P)(36)D	806	\$10.40	\$8,382.40	\$0.65	\$523.90	\$8,906.30
BM60-1.25(P)(60)D	3223	\$10.40	\$33,519.20	\$0.65	\$2,094.95	\$35,614.15
BM60-1.25(P)(96)D	940	\$10.40	\$9,776.00	\$0.65	\$611.00	\$10,387.00
BM60-2(P)(60)D	450	\$10.40	\$4,680.00	\$0.78	\$351.00	\$5,031.00
BM61	15	\$10.40	\$156.00	\$0.65	\$9.75	\$165.75
WBDO7	1	\$200.00	\$200.00	\$0.00	\$0.00	\$200.00
WHO1	36	\$65.00	\$2,340.00	\$0.99	\$35.64	\$2,375.64
WHBFO	1	\$200.00	\$200.00	\$0.00	\$0.00	\$200.00
BFOV(1)(1.25)B	11479	\$7.80	\$89,536.20	\$0.55	\$6,313.45	\$95,849.65
BFO36	10216	\$1.00	\$10,216.00	\$0.83	\$8,479.28	\$18,695.28
BFO72	12730	\$1.00	\$12,730.00	\$1.11	\$14,130.30	\$26,860.30
BFO12I	1496	\$0.35	\$523.60	\$0.63	\$942.48	\$1,466.08
BFO24I	11034	\$0.35	\$3,861.90	\$0.72	\$7,944.48	\$11,806.38
SEBO6	9824	\$1.25	\$12,280.00	\$0.89	\$8,743.36	\$21,023.36
ONT2	20	\$75.00	\$1,500.00	\$114.19	\$2,283.80	\$3,783.80
ONT3	10	\$75.00	\$750.00	\$114.19	\$1,141.90	\$1,891.90
ONT4	2	\$75.00	\$150.00	\$133.29	\$266.58	\$416.58
ONT7	4	\$75.00	\$300.00	\$170.68	\$682.72	\$982.72
BM17	460	\$3.90	\$1,794.00	\$0.83	\$381.80	\$2,175.80
BM83	31	\$19.50	\$604.50	\$4.26	\$132.06	\$736.56
HBFO(144)(72)(72)[6]	1	\$166.00	\$166.00	\$488.00	\$488.00	\$654.00
HBFO(36)(36)[1]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
<b>Totals for Turner Landing</b>			<b>\$219,431.17</b>		<b>\$82,725.47</b>	<b>\$302,156.64</b>



Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>LaCenter CO A&amp;B</b>						
Splitter	4	\$50.00	\$200.00	\$1,400.00	\$5,600.00	\$5,800.00
BM21L	1	\$650.00	\$650.00	\$650.00	\$650.00	\$1,300.00
BDO3B(1)	27	\$348.40	\$9,406.80	\$492.82	\$13,306.14	\$22,712.94
BDO4B(1)	16	\$348.40	\$5,574.40	\$605.61	\$9,689.76	\$15,264.16
BDO5B(3)	1	\$348.40	\$348.40	\$801.63	\$801.63	\$1,150.03
BDO5B(4)	2	\$348.40	\$696.80	\$827.26	\$1,654.52	\$2,351.32
HC1	2	\$3.00	\$6.00	\$1.80	\$3.60	\$9.60
HO1	1309	\$30.00	\$39,270.00	\$0.99	\$1,295.91	\$40,565.91
BHF(24x36x30)T	1	\$300.00	\$300.00	\$733.41	\$733.41	\$1,033.41
BM2	26	\$26.00	\$676.00	\$23.84	\$619.84	\$1,295.84
BM2A	22	\$19.50	\$429.00	\$5.08	\$111.76	\$540.76
BM60-1.25(P)(60)D	200	\$10.40	\$2,080.00	\$0.65	\$130.00	\$2,210.00
BM61	227	\$10.40	\$2,360.80	\$0.65	\$147.55	\$2,508.35
BM72	4	\$10.40	\$41.60	\$6.50	\$26.00	\$67.60
BFOV(1)(1.25)B	7398	\$7.80	\$57,704.40	\$0.55	\$4,068.90	\$61,773.30
BFOV(2)(1.25)B	1352	\$7.80	\$10,545.60	\$1.09	\$1,473.68	\$12,019.28
BFOV(3)(1.25)B	410	\$7.80	\$3,198.00	\$1.64	\$672.40	\$3,870.40
BFOV(4)(1.25)B	198	\$10.40	\$2,059.20	\$2.18	\$431.64	\$2,490.84
BFOV(6)(1.25)B	240	\$13.00	\$3,120.00	\$3.28	\$787.20	\$3,907.20
BFO24	156	\$1.00	\$156.00	\$0.76	\$118.56	\$274.56
BFO12I	1144	\$0.35	\$400.40	\$0.63	\$720.72	\$1,121.12
BFO24I	3470	\$0.35	\$1,214.50	\$0.72	\$2,498.40	\$3,712.90
BFO36I	4114	\$0.35	\$1,439.90	\$0.79	\$3,250.06	\$4,689.96
BFO72I	4832	\$0.35	\$1,691.20	\$1.07	\$5,170.24	\$6,861.44
BFO144I	2318	\$0.35	\$811.30	\$1.76	\$4,079.68	\$4,890.98
SEBO6	18438	\$1.25	\$23,047.50	\$0.89	\$16,409.82	\$39,457.32
SEBP6-22	96	\$1.50	\$144.00	\$1.67	\$160.32	\$304.32
NID(6)(2)4	1	\$85.00	\$85.00	\$50.00	\$50.00	\$135.00
ONT2	52	\$75.00	\$3,900.00	\$114.19	\$5,937.88	\$9,837.88
ONT3	34	\$75.00	\$2,550.00	\$114.19	\$3,882.46	\$6,432.46
ONT7	20	\$75.00	\$1,500.00	\$170.68	\$3,413.60	\$4,913.60
BM17	1000	\$3.90	\$3,900.00	\$0.83	\$830.00	\$4,730.00
BM83	87	\$19.50	\$1,696.50	\$4.26	\$370.62	\$2,067.12
HBFO(24)G	1	\$100.00	\$100.00	\$396.14	\$396.14	\$496.14
HBFO(36)G	2	\$100.00	\$200.00	\$396.14	\$792.28	\$992.28
HBFO(72)G	1	\$100.00	\$100.00	\$436.76	\$436.76	\$536.76
HBFO(144)G	5	\$100.00	\$500.00	\$518.00	\$2,590.00	\$3,090.00
<b>Totals for LaCenter CO A &amp; B</b>			<b>\$182,103.30</b>		<b>\$93,311.48</b>	<b>\$275,414.78</b>

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>LaCenter CO C, D &amp; E</b>						
Splitter	6	\$50.00	\$300.00	\$1,400.00	\$8,400.00	\$8,700.00
BA3	2	\$26.00	\$52.00	\$84.06	\$168.12	\$220.12
BDO3B(1)	11	\$348.40	\$3,832.40	\$492.82	\$5,421.02	\$9,253.42
BDO3B(2)	2	\$348.40	\$696.80	\$515.58	\$1,031.16	\$1,727.96
BDO4B(1)	1	\$348.40	\$348.40	\$605.61	\$605.61	\$954.01
BDO5B(0)	1	\$348.40	\$348.40	\$733.34	\$733.34	\$1,081.74
BDO5B(1)	21	\$348.40	\$7,316.40	\$756.11	\$15,878.31	\$23,194.71
BDO5B(2)	1	\$260.00	\$260.00	\$756.11	\$756.11	\$1,016.11
HO1	406	\$30.00	\$12,180.00	\$0.99	\$401.94	\$12,581.94
BHF(24x36x30)T	8	\$300.00	\$2,400.00	\$733.41	\$5,867.28	\$8,267.28
BM2	20	\$26.00	\$520.00	\$23.84	\$476.80	\$996.80
BM2A	30	\$19.50	\$585.00	\$5.08	\$152.40	\$737.40
BM53	14	\$26.00	\$364.00	\$13.25	\$185.50	\$549.50
BM60-1.25(P)(60)D	270	\$10.40	\$2,808.00	\$0.65	\$175.50	\$2,983.50
BM61	1532	\$10.40	\$15,932.80	\$0.65	\$995.80	\$16,928.60
BM73	7	\$10.40	\$72.80	\$6.50	\$45.50	\$118.30
BM80	2	\$20.00	\$40.00	\$25.00	\$50.00	\$90.00
BFOV(1)(1.25)B	7848	\$7.80	\$61,214.40	\$0.55	\$4,316.40	\$65,530.80
BFOV(2)(1.25)B	3784	\$7.80	\$29,515.20	\$1.09	\$4,124.56	\$33,639.76
BFO12I	614	\$0.35	\$214.90	\$0.63	\$386.82	\$601.72
BFO24I	1076	\$0.35	\$376.60	\$0.72	\$774.72	\$1,151.32
BFO36I	1420	\$0.35	\$497.00	\$0.79	\$1,121.80	\$1,618.80
BFO48I	1614	\$0.35	\$564.90	\$0.89	\$1,436.46	\$2,001.36
BFO144I	16256	\$0.35	\$5,689.60	\$1.76	\$28,610.56	\$34,300.16
SEAO6	564	\$1.25	\$705.00	\$0.89	\$501.96	\$1,206.96
SEBO6	31883	\$1.25	\$39,853.75	\$0.89	\$28,375.87	\$68,229.62
SEBP6-22	454	\$1.50	\$681.00	\$1.67	\$758.18	\$1,439.18
ONT2	57	\$75.00	\$4,275.00	\$114.19	\$6,508.83	\$10,783.83
ONT3	106	\$75.00	\$7,950.00	\$114.19	\$12,104.14	\$20,054.14
ONT4	12	\$75.00	\$900.00	\$133.29	\$1,599.48	\$2,499.48
ONT7	3	\$75.00	\$225.00	\$170.68	\$512.04	\$737.04
BM17	191	\$3.90	\$744.90	\$0.83	\$158.53	\$903.43
BM83	173	\$19.50	\$3,373.50	\$4.26	\$736.98	\$4,110.48
HBFO(144)(144)[6]	6	\$166.00	\$996.00	\$488.00	\$2,928.00	\$3,924.00
<b>Totals for LaCenter CO C, D &amp; E</b>			<b>\$205,833.75</b>		<b>\$136,299.72</b>	<b>\$342,133.47</b>

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>Oak St.</b>						
BDSO(432)	1	\$1,916.52	\$1,916.52	\$4,888.39	\$4,888.39	\$6,804.91
Splitter	4	\$50.00	\$200.00	\$1,400.00	\$5,600.00	\$5,800.00
BA3	19	\$26.00	\$494.00	\$84.06	\$1,597.14	\$2,091.14
BDO3B(0)	1	\$348.40	\$348.40	\$470.05	\$470.05	\$818.45
BDO3B(1)	39	\$348.40	\$13,587.60	\$492.82	\$19,219.98	\$32,807.58
BDO3B(2)	3	\$348.40	\$1,045.20	\$515.58	\$1,546.74	\$2,591.94
BDO4B(1)	8	\$348.40	\$2,787.20	\$605.61	\$4,844.88	\$7,632.08
BDO4B(4)	1	\$348.40	\$348.40	\$673.89	\$673.89	\$1,022.29
BDO5B(1)	2	\$348.40	\$696.80	\$756.11	\$1,512.22	\$2,209.02
BDO5B(5)	1	\$348.40	\$348.40	\$869.93	\$869.93	\$1,218.33
HC1	2	\$3.00	\$6.00	\$1.80	\$3.60	\$9.60
HO1	942	\$30.00	\$28,260.00	\$0.99	\$932.58	\$29,192.58
BM2	24	\$26.00	\$624.00	\$23.84	\$572.16	\$1,196.16
BM2A	43	\$19.50	\$838.50	\$5.08	\$218.44	\$1,056.94
BM53	8	\$26.00	\$208.00	\$13.25	\$106.00	\$314.00
BM60-1.25(P)(60)D	515	\$10.40	\$5,356.00	\$0.65	\$334.75	\$5,690.75
BM61	239	\$10.40	\$2,485.60	\$0.65	\$155.35	\$2,640.95
BM73	219	\$10.40	\$2,277.60	\$6.50	\$1,423.50	\$3,701.10
BFOV(1)(1.25)B	10410	\$7.80	\$81,198.00	\$0.55	\$5,725.50	\$86,923.50
BFOV(2)(1.25)B	1320	\$7.80	\$10,296.00	\$1.09	\$1,438.80	\$11,734.80
BFOV(3)(1.25)B	334	\$7.80	\$2,605.20	\$1.64	\$547.76	\$3,152.96
BFO12I	990	\$0.35	\$346.50	\$0.63	\$623.70	\$970.20
BFO24I	3314	\$0.35	\$1,159.90	\$0.72	\$2,386.08	\$3,545.98
BFO36I	1702	\$0.35	\$595.70	\$0.79	\$1,344.58	\$1,940.28
BFO48I	8728	\$0.35	\$3,054.80	\$0.89	\$7,767.92	\$10,822.72
BFO96I	2594	\$0.35	\$907.90	\$1.31	\$3,398.14	\$4,306.04
BFO144I	738	\$0.35	\$258.30	\$1.76	\$1,298.88	\$1,557.18
SEBO6	21960	\$1.25	\$27,450.00	\$0.89	\$19,544.40	\$46,994.40
ONT2	12	\$75.00	\$900.00	\$114.19	\$1,370.28	\$2,270.28
ONT3	80	\$75.00	\$6,000.00	\$114.19	\$9,135.20	\$15,135.20
ONT7	32	\$75.00	\$2,400.00	\$170.68	\$5,461.76	\$7,861.76
BM83	93	\$19.50	\$1,813.50	\$4.26	\$396.18	\$2,209.68
HBFO(288)(144)(144)(96)(48)(48)[16]	1	\$177.00	\$177.00	\$631.00	\$631.00	\$808.00
HBFO(48)(36)[2]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
<b>Totals for Oak St.</b>			<b>\$201,116.02</b>		<b>\$106,364.78</b>	<b>\$307,480.80</b>

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>Hinkleville</b>						
BDSO(288)	1	\$1,750.00	\$1,750.00	\$4,333.33	\$4,333.33	\$6,083.33
Splitter	3	\$50.00	\$150.00	\$1,400.00	\$4,200.00	\$4,350.00
BA3	14	\$26.00	\$364.00	\$84.06	\$1,176.84	\$1,540.84
BDO3B(0)	4	\$348.40	\$1,393.60	\$470.05	\$1,880.20	\$3,273.80
BDO3B(1)	54	\$348.40	\$18,813.60	\$492.82	\$26,612.28	\$45,425.88
BDO3B(2)	2	\$348.40	\$696.80	\$515.58	\$1,031.16	\$1,727.96
BDO4B(2)	1	\$348.40	\$348.40	\$628.37	\$628.37	\$976.77
BDO5B(1)	3	\$348.40	\$1,045.20	\$756.11	\$2,268.33	\$3,313.53
BD3	2	\$130.00	\$260.00	\$73.67	\$147.34	\$407.34
HC1	2	\$3.00	\$6.00	\$1.80	\$3.60	\$9.60
HO1	653	\$30.00	\$19,590.00	\$0.99	\$646.47	\$20,236.47
BHF(24x36x30)T	3	\$300.00	\$900.00	\$733.41	\$2,200.23	\$3,100.23
BM2	36	\$26.00	\$936.00	\$23.84	\$858.24	\$1,794.24
BM2A	44	\$19.50	\$858.00	\$5.08	\$223.52	\$1,081.52
BM53	36	\$26.00	\$936.00	\$13.25	\$477.00	\$1,413.00
BM60-1.25(P)(36)D	1726	\$10.40	\$17,950.40	\$0.65	\$1,121.90	\$19,072.30
BM60-1.25(P)(60)D	4688	\$10.40	\$48,755.20	\$0.65	\$3,047.20	\$51,802.40
BM60-1.25(P)(96)D	2036	\$10.40	\$21,174.40	\$0.65	\$1,323.40	\$22,497.80
BM60-2(P)(36)D	1538	\$10.40	\$15,995.20	\$0.78	\$1,199.64	\$17,194.84
BM60-2(P)(60)D	1057	\$10.40	\$10,992.80	\$0.78	\$824.46	\$11,817.26
BM60-2(P)(96)D	550	\$10.40	\$5,720.00	\$0.78	\$429.00	\$6,149.00
BM61	153	\$10.40	\$1,591.20	\$0.65	\$99.45	\$1,690.65
BM73	5	\$10.40	\$52.00	\$6.50	\$32.50	\$84.50
BM99	9	\$750.00	\$6,750.00	\$300.00	\$2,700.00	\$9,450.00
BFO12	20022	\$1.00	\$20,022.00	\$0.66	\$13,214.52	\$33,236.52
BFO24	28322	\$1.00	\$28,322.00	\$0.76	\$21,524.72	\$49,846.72
BFO36	14602	\$1.00	\$14,602.00	\$0.83	\$12,119.66	\$26,721.66
BFO48	9486	\$1.00	\$9,486.00	\$0.92	\$8,727.12	\$18,213.12
BFO60	21392	\$1.00	\$21,392.00	\$1.11	\$23,745.12	\$45,137.12
BFO72	16522	\$1.00	\$16,522.00	\$1.11	\$18,339.42	\$34,861.42
BFO144	2814	\$1.00	\$2,814.00	\$1.80	\$5,065.20	\$7,879.20
SEBO6	22134	\$1.25	\$27,667.50	\$0.89	\$19,699.26	\$47,366.76
SEBP6-22	1004	\$1.50	\$1,506.00	\$1.67	\$1,676.68	\$3,182.68
NID(6)(2)4	1	\$85.00	\$85.00	\$50.00	\$50.00	\$135.00
ONT2	14	\$75.00	\$1,050.00	\$114.19	\$1,598.66	\$2,648.66
ONT3	34	\$75.00	\$2,550.00	\$114.19	\$3,882.46	\$6,432.46
ONT4	2	\$75.00	\$150.00	\$133.29	\$266.58	\$416.58
ONT7	18	\$75.00	\$1,350.00	\$170.68	\$3,072.24	\$4,422.24
ONT8	4	\$75.00	\$300.00	\$170.68	\$682.72	\$982.72
BM17	328	\$3.90	\$1,279.20	\$0.83	\$272.24	\$1,551.44
BM83	50	\$19.50	\$975.00	\$4.26	\$213.00	\$1,188.00
HBFO(288)(144)(48)(36)(24)(12)	1	\$177.00	\$177.00	\$631.00	\$631.00	\$808.00
HBFO(60)(36)(24)(3)	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(144)(72)(60)(36)(6)	1	\$166.00	\$166.00	\$488.00	\$488.00	\$654.00
<b>Totals for Hinkleville</b>			<b>\$327,569.50</b>		<b>\$193,058.06</b>	<b>\$520,627.56</b>

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>Country Club</b>						
BDSO(288)	1	\$1,750.00	\$1,750.00	\$4,333.33	\$4,333.33	\$6,083.33
Splitter	4	\$50.00	\$200.00	\$1,400.00	\$5,600.00	\$5,800.00
BA3	9	\$26.00	\$234.00	\$84.06	\$756.54	\$990.54
BDO3B(0)	3	\$348.40	\$1,045.20	\$470.05	\$1,410.15	\$2,455.35
BDO3B(1)	58	\$348.40	\$20,207.20	\$492.82	\$28,583.56	\$48,790.76
BDO3B(2)	3	\$348.40	\$1,045.20	\$515.58	\$1,546.74	\$2,591.94
BDO4B(0)	1	\$348.40	\$348.40	\$582.84	\$582.84	\$931.24
BDO4B(1)	10	\$348.40	\$3,484.00	\$605.61	\$6,056.10	\$9,540.10
BDO5B(1)	6	\$348.40	\$2,090.40	\$756.11	\$4,536.66	\$6,627.06
BD3	1	\$130.00	\$130.00	\$73.67	\$73.67	\$203.67
HC1	2	\$3.00	\$6.00	\$1.80	\$3.60	\$9.60
HO1	1368	\$30.00	\$41,040.00	\$0.99	\$1,354.32	\$42,394.32
BHF(24x36x30)T	5	\$300.00	\$1,500.00	\$733.41	\$3,667.05	\$5,167.05
BM2	34	\$26.00	\$884.00	\$23.84	\$810.56	\$1,694.56
BM2A	69	\$19.50	\$1,345.50	\$5.08	\$350.52	\$1,696.02
BM53	70	\$26.00	\$1,820.00	\$13.25	\$927.50	\$2,747.50
BM60-1.25(P)(36)D	530	\$10.40	\$5,512.00	\$0.65	\$344.50	\$5,856.50
BM60-1.25(P)(60)D	7976	\$10.40	\$82,950.40	\$0.65	\$5,184.40	\$88,134.80
BM60-1.25(P)(96)D	1964	\$10.40	\$20,425.60	\$0.65	\$1,276.60	\$21,702.20
BM60-(1.25+1.25)(P)(60)D	300	\$6.50	\$1,950.00	\$1.30	\$390.00	\$2,340.00
BM60-2(P)(60)D	4932	\$10.40	\$51,292.80	\$0.78	\$3,846.96	\$55,139.76
BM60-2(P)(96)D	324	\$10.40	\$3,369.60	\$0.78	\$252.72	\$3,622.32
BM61	403	\$10.40	\$4,191.20	\$0.65	\$261.95	\$4,453.15
BM73	4	\$10.40	\$41.60	\$6.50	\$26.00	\$67.60
WHO-1	1	\$65.00	\$65.00	\$0.99	\$0.99	\$65.99
BFOV(1)(1.25)B	1392	\$7.80	\$10,857.60	\$0.55	\$765.60	\$11,623.20
BFO12	5566	\$1.00	\$5,566.00	\$0.66	\$3,673.56	\$9,239.56
BFO24	19412	\$1.00	\$19,412.00	\$0.76	\$14,753.12	\$34,165.12
BFO36	23868	\$1.00	\$23,868.00	\$0.83	\$19,810.44	\$43,678.44
BFO48	6824	\$1.00	\$6,824.00	\$0.92	\$6,278.08	\$13,102.08
BFO72	9880	\$1.00	\$9,880.00	\$1.11	\$10,966.80	\$20,846.80
BFO96	10886	\$1.00	\$10,886.00	\$1.35	\$14,696.10	\$25,582.10
BFO144	5048	\$1.00	\$5,048.00	\$1.80	\$9,086.40	\$14,134.40
BFO12I	1494	\$0.35	\$522.90	\$0.63	\$941.22	\$1,464.12
SEBO6	30710	\$1.25	\$38,387.50	\$0.89	\$27,331.90	\$65,719.40
SEBP6-22	1578	\$1.50	\$2,367.00	\$1.67	\$2,635.26	\$5,002.26
NID(6)(2)2	1	\$85.00	\$85.00	\$50.00	\$50.00	\$135.00
NID(6)(1)4	3	\$85.00	\$255.00	\$50.00	\$150.00	\$405.00
NID(6)(2)4	4	\$85.00	\$340.00	\$50.00	\$200.00	\$540.00
ONT2	64	\$75.00	\$4,800.00	\$114.19	\$7,308.16	\$12,108.16
ONT3	10	\$75.00	\$750.00	\$114.19	\$1,141.90	\$1,891.90
ONT4	5	\$75.00	\$375.00	\$133.29	\$666.45	\$1,041.45
ONT7	16	\$75.00	\$1,200.00	\$170.68	\$2,730.88	\$3,930.88
ONT8	5	\$75.00	\$375.00	\$170.68	\$853.40	\$1,228.40
BM17	342	\$3.90	\$1,333.80	\$0.83	\$283.86	\$1,617.66
BM83	89	\$19.50	\$1,735.50	\$4.26	\$379.14	\$2,114.64
HBFO(288)(144)(96)[12]	1	\$177.00	\$177.00	\$631.00	\$631.00	\$808.00
HBFO(36)(36)[2]	2	\$100.00	\$200.00	\$436.76	\$873.52	\$1,073.52
HBFO(36)(24)(24)[2]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(48)[2]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(48)(36)(24)[2]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(72)(24)(12)[3]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(72)(48)(36)(36)[5]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(96)(72)(24)[4]	1	\$125.00	\$125.00	\$350.00	\$350.00	\$475.00
<b>Totals for Country Club</b>			<b>\$392,923.40</b>		<b>\$200,359.05</b>	<b>\$593,282.45</b>

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
<b>Bradford Rd.</b>						
BDSO(288)	1	\$1,750.00	\$1,750.00	\$4,333.33	\$4,333.33	\$6,083.33
Splitter	3	\$50.00	\$150.00	\$1,400.00	\$4,200.00	\$4,350.00
BA3	16	\$26.00	\$416.00	\$84.06	\$1,344.96	\$1,760.96
BDO3B(0)	4	\$348.40	\$1,393.60	\$470.05	\$1,880.20	\$3,273.80
BDO3B(1)	61	\$348.40	\$21,252.40	\$492.82	\$30,062.02	\$51,314.42
BDO3B(2)	2	\$348.40	\$696.80	\$515.58	\$1,031.16	\$1,727.96
BDO4B(0)	1	\$348.40	\$348.40	\$582.84	\$582.84	\$931.24
BDO4B(1)	5	\$348.40	\$1,742.00	\$605.61	\$3,028.05	\$4,770.05
BDO4B(2)	2	\$348.40	\$696.80	\$628.37	\$1,256.74	\$1,953.54
BDO4B(3)	1	\$348.40	\$348.40	\$651.13	\$651.13	\$999.53
BDO5B(1)	1	\$348.40	\$348.40	\$756.11	\$756.11	\$1,104.51
HO1	601	\$30.00	\$18,030.00	\$0.99	\$594.99	\$18,624.99
BHF(24x36x30)T	2	\$300.00	\$600.00	\$733.41	\$1,466.82	\$2,066.82
XXHBFO	1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BM2	44	\$26.00	\$1,144.00	\$23.84	\$1,048.96	\$2,192.96
BM2A	51	\$19.50	\$994.50	\$5.08	\$259.08	\$1,253.58
BM53	75	\$26.00	\$1,950.00	\$13.25	\$993.75	\$2,943.75
BM60-1.25(P)(36)D	98	\$10.40	\$1,019.20	\$0.65	\$63.70	\$1,082.90
BM60-1.25(P)(60)D	2539	\$10.40	\$26,405.60	\$0.65	\$1,650.35	\$28,055.95
BM60-1.25(P)(96)D	1523	\$10.40	\$15,839.20	\$0.65	\$989.95	\$16,829.15
BM60-2(P)(36)D	325	\$10.40	\$3,380.00	\$0.78	\$253.50	\$3,633.50
BM60-2(P)(60)D	667	\$10.40	\$6,936.80	\$0.78	\$520.26	\$7,457.06
BM61	240	\$10.40	\$2,496.00	\$0.65	\$156.00	\$2,652.00
BM99	3	\$750.00	\$2,250.00	\$300.00	\$900.00	\$3,150.00
WBM80	2	\$20.00	\$40.00	\$0.00	\$0.00	\$40.00
WBO7	1	\$200.00	\$200.00	\$0.00	\$0.00	\$200.00
WHO1	96	\$65.00	\$6,240.00	\$0.99	\$95.04	\$6,335.04
WDLASH	340	\$0.85	\$289.00	\$0.10	\$34.00	\$323.00
WHBFO	1	\$200.00	\$200.00	\$0.00	\$0.00	\$200.00
BFOV(1)(1.25)B	960	\$7.80	\$7,488.00	\$0.55	\$528.00	\$8,016.00
BFOV(2)(1.25)B	1954	\$7.80	\$15,241.20	\$1.09	\$2,129.86	\$17,371.06
BFO12	22138	\$1.00	\$22,138.00	\$0.66	\$14,611.08	\$36,749.08
BFO24	8410	\$1.00	\$8,410.00	\$0.76	\$6,391.60	\$14,801.60
BFO36	11374	\$1.00	\$11,374.00	\$0.83	\$9,440.42	\$20,814.42
BFO48	9212	\$1.00	\$9,212.00	\$0.92	\$8,475.04	\$17,687.04
BFO72	1228	\$1.00	\$1,228.00	\$1.11	\$1,363.08	\$2,591.08
BFO144	2450	\$1.00	\$2,450.00	\$1.80	\$4,410.00	\$6,860.00
BFO361	2348	\$0.35	\$821.80	\$0.79	\$1,854.92	\$2,676.72
BFO481	2784	\$0.35	\$974.40	\$0.89	\$2,477.76	\$3,452.16
SEBO6	23409	\$1.25	\$29,261.25	\$0.89	\$20,834.01	\$50,095.26
ONT2	9	\$75.00	\$675.00	\$114.19	\$1,027.71	\$1,702.71
ONT3	42	\$75.00	\$3,150.00	\$114.19	\$4,795.98	\$7,945.98
ONT4	3	\$75.00	\$225.00	\$133.29	\$399.87	\$624.87
ONT5	4	\$75.00	\$300.00	\$133.29	\$533.16	\$833.16
ONT7	20	\$75.00	\$1,500.00	\$170.68	\$3,413.60	\$4,913.60
BM17	322	\$3.90	\$1,255.80	\$0.83	\$267.26	\$1,523.06
BM83	58	\$19.50	\$1,131.00	\$4.26	\$247.08	\$1,378.08
HBFO(288)(144)(72)[12]	1	\$177.00	\$177.00	\$631.00	\$631.00	\$808.00
HBFO(12)(12)[1]	1	\$100.00	\$100.00	\$396.15	\$396.15	\$496.15
HBFO(36)(12)[2]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
HBFO(144)(48)(36)[5]	1	\$166.00	\$166.00	\$488.00	\$488.00	\$654.00
HBFO(48)[1]	1	\$125.00	\$125.00	\$325.00	\$325.00	\$450.00
<b>Totals for Bradford Rd.</b>			<b>\$234,685.55</b>		<b>\$143,518.52</b>	<b>\$378,204.07</b>

## SUMMARY

<b>Phase I (40 rt miles)</b>	
Hazelwood	\$532,059.80
Turner Landing	\$302,156.64
Oak Street	\$307,480.80
LaCenter CO A,B	\$275,414.78
Total	\$1,417,112.02
<b>Phase II (85 rt miles)</b>	
Bluegrass	\$350,566.44
Hinkleville	\$520,627.56
Country Club	\$593,282.45
Bradford Rd	\$378,204.07
LaCenter CO C,D,E	\$342,133.47
Total	\$2,184,813.99
<b>Grand Total</b>	<b>\$3,601,926.01</b>





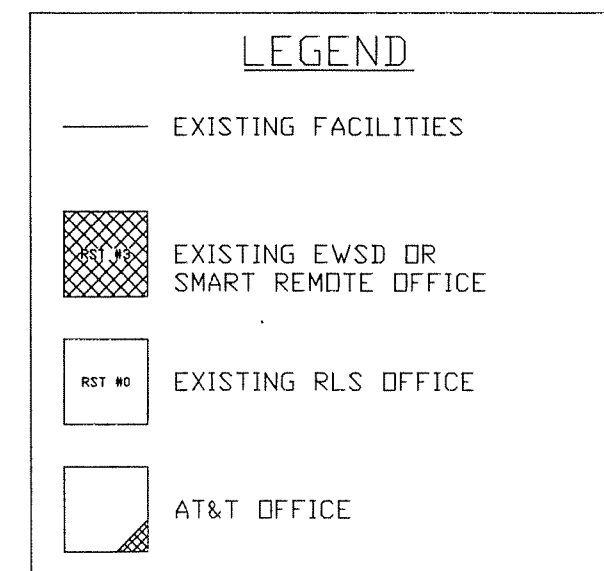
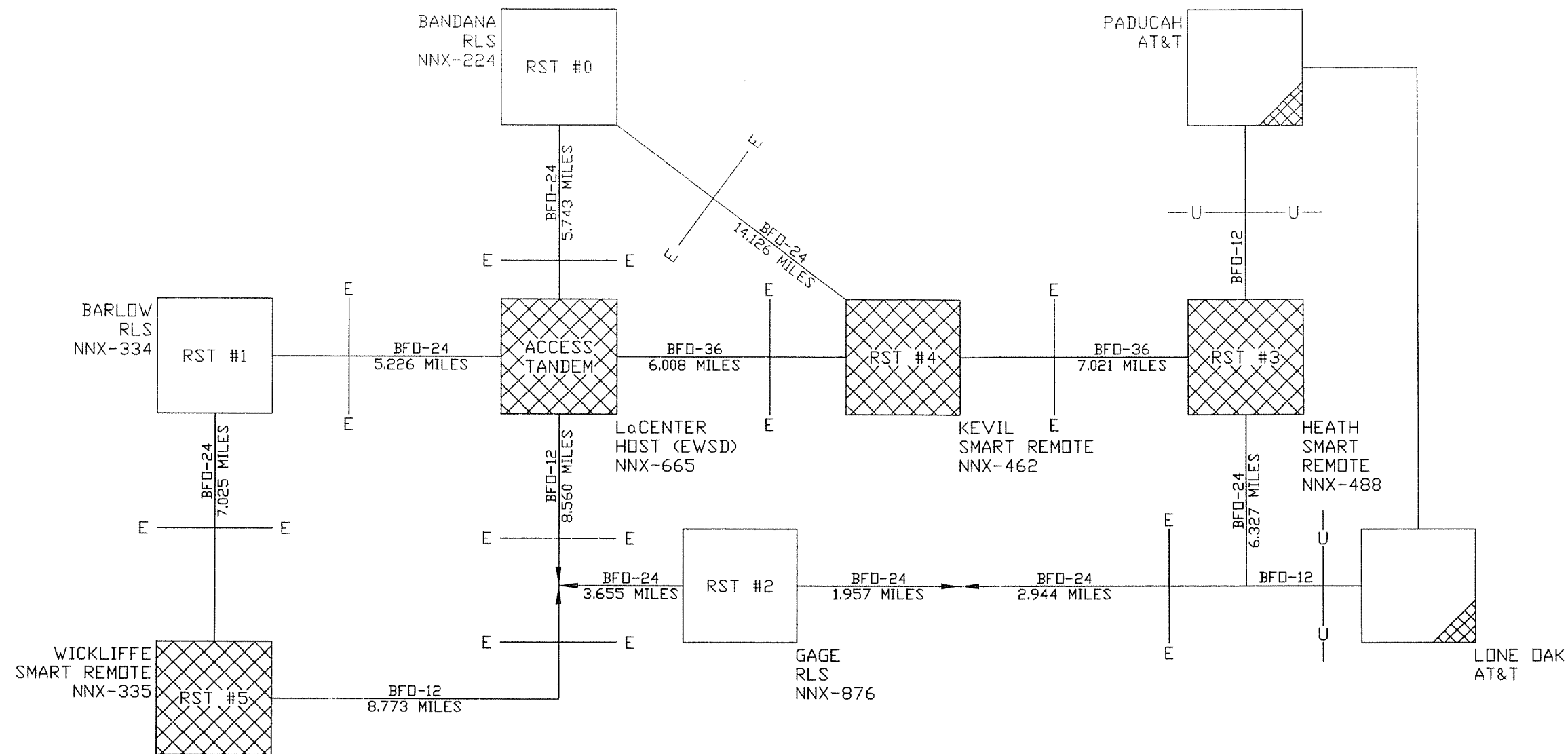


# TRUNKING DIAGRAM

BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION, INC.						
		TRK				
CARRIER	PIC	GRP #	# TRK	MF	SS7	EN#
ATT OPERATOR	288	48	24	YES		0-15-4
	732					
ATT D	288	104	120		YES	0-14-3
						0-15-3
SPRINT D	333	105	48		YES	0-21-0
Embarq	5046				YES	0-22-0
WORKING ASSETS	649					
SPRINT	872					
WINSTAR	810					
MATRIX D	780	105			YES	
intercontinental com	5513	BRTC	NOT TO	ASSIGN		
BELL ATLANTIC	6963					
Primus	223					
	6400					
ARCADA COM	643					
HYPERION COM	5485	BRTC	NOT TO	ASSIGN		ASSIGN
LDD	533	106	24		YES	0-19-0
Big Rivers						
QWEST	Route 1	120	24		YES	0-26-2
LCI	040	119	48		YES	0-21-2
LCI	358	Route 2				0-22-2
QWEST	432					
LCI	462					
LCI	537					
LCI	665					
LCI	690					
NEXTEL	6398					

		TRK				
CARRIER	PIC	GRP #	# TRK	MF	SS7	EN#
MCI D	888	116	72		YES	0-26-0
MCI	222					0-26-1
TELCOM "USA"	852					0-25-3
Williams Comm.	5158	126	24		YES	0-21-4
	5102					
	372	BRTC	NOT TO	ASSIGN		
	5722	BRTC	NOT TO	ASSIGN		
	5792	BRTC	NOT TO	ASSIGN		
CHERRYCOM	270					
OCI	658					
AMERIVISION	284	117	72		YES	0-17-4
WORLD COM D	555					
	603					0-16-4
ONESTAR	873					
ADVANCE TELCOM	6286					0-21-4
GTE	5483					
WORLD COM	393					
UNI DIAL	5957					
ALLTEL	5253					
ECLIPSE	071					
	6112					
IXC	948					
west coast telcom	569	128	24		YES	0-22-4
FRONTER	211					
ALLNET	444					
LEVEL 3	6330					
SCB	5124	36	129	0-20-3	YES	0-16-0
				0-17-0	0-15-0	0-14-0
SCB-EAS		76	222		YES	5-6-0
Cinergy-EAS		96	48	0-26-1	0-27-1	
450						

		TRK				
CARRIER	PIC	GRP #	# TRK	MF	SS7	EN#
operator (BELL)		37	9			
DA 411 (BELL)		43	4			
Ballard BLD	5186	133	48		yes	0-21-3
						0-22-3
TOTAL TRUNKS			940			



ARTICLES OF INCORPORATION

OF

BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION, INC.

We, the undersigned, being natural persons and citizens of the Commonwealth of Kentucky do hereby execute these articles of incorporation for the purpose of organizing a nonprofit cooperative corporation (herein called the "Cooperative") under the laws of the Commonwealth of Kentucky, pursuant to an Act entitled "AN ACT relating to telephone cooperative, nonprofit corporations, rural telephones and telephone services", approved March 25, 1950.

FIRST, the name of the Cooperative is Ballard Rural Telephone Cooperative Corporation, Inc.

SECOND, the address of the principal office of the Cooperative is La Center, Ballard County, Kentucky.

THIRD, the names and addresses of the incorporators of the Cooperative are:

<u>NAMES</u>	<u>ADDRESSES</u>
Harris Grubbs	Route 2, La Center, Ky.
C. E. Seaton, Process Agent	La Center, Kentucky
Clay L. King	Route #2, Paducah, Ky.
Elwood Crice	Bandana, Ky.
W. H. Wolfe	Route #2, Kevil, Ky.
W. E. Brockman, Jr.	Route #3, Kevil, Ky.
W. L. Trimble	Wickliffe, Ky.
George H. Lovelace	Barlow, Kentucky
C. B. Rollins	Kevil, Ky.
Wilson Rudolph	Route 2, Kevil, Ky.
W. F. Flournoy	Route #1, Wickliffe, Ky.

FOURTH, the names and addresses of the persons who shall constitute the first Board of Trustees of the Cooperative are:

<u>Names</u>	<u>Addresses</u>
C. E. Seaton	La Center, Kentucky
Elwood Crice	Bandana, Kentucky
W. L. Trimble	Wickliffe, Kentucky
George H. Lovelace	Barlow, Kentucky
Wilson Rudolph	Route 2, Kevil, Kentucky

FIFTH, the operations of the Cooperative are to be conducted in the Counties of Ballard and McCracken, Kentucky, and in such other counties as such operations may from time to time become necessary or desirable in the interest of this Cooperative or of its members.

IN TESTIMONY WHEREOF we have hereunto subscribed our names this 5th day of June, 1951.

\_\_\_\_\_/s/ Harris Grubbs\_\_\_\_\_  
\_\_\_\_\_/s/ C. E. Seaton\_\_\_\_\_  
\_\_\_\_\_/s/ Clay L. King\_\_\_\_\_  
\_\_\_\_\_/s/ Elwood Crice\_\_\_\_\_  
\_\_\_\_\_/s/ W. H. Wolfe\_\_\_\_\_  
\_\_\_\_\_/s/ R. E. Brockman, Jr.\_\_\_\_\_  
\_\_\_\_\_/s/ W. L. Trimble\_\_\_\_\_  
\_\_\_\_\_/s/ George H. Lovelace\_\_\_\_\_  
\_\_\_\_\_/s/ C. B. Rollins\_\_\_\_\_  
\_\_\_\_\_/s/ Wilson Rudolph\_\_\_\_\_  
\_\_\_\_\_/s/ W. F. Flournoy\_\_\_\_\_



STATE OF KENTUCKY       )  
                              ) ss  
COUNTY OF McCRACKEN    )

I, Eloise Morgan, hereby certify that the foregoing articles of incorporation of the Ballard Rural Telephone Cooperative Corporation, Inc., were this day produced to me in my office by Harris Grub C. E. Seaton, Clay L. King, Elwood Crice, W. H. Wolfe, W. E. Brockme Jr., W. L. Trimble, George H. Lovelace, C. B. Rollins, Wilson Rudolf and W. F. Flournoy, and acknowledged and delivered by said parties to be their act and deed.

WITNESS my hand this 15th day of June, 1951.

My commission expires March 9, 1954.

/s/ Eloise Morgan  
Notary Public, McCracken County, Ky.



United States Department of Agriculture  
Rural Development

Mr. Harlon E. Parker  
General Manager & CEO  
Ballard Rural Telephone Cooperative Corporation, Inc.  
P.O. Box 209  
LaCenter, Kentucky 42056

FEB 04 2009

Dear Mr. Parker:

We have reviewed and approved the Loan Design and the outside plant layout submitted in your "N" loan application. Our approval is from an engineering standpoint only and is not a commitment that a loan will be made.

We have accepted the cost estimates as presented except where miscellaneous adjustments in rounding were made. The construction and engineering budgets are as follows:

Central Office & Electronic Equipment	\$ 2,145,000
Outside Plant	\$ 11,553,000
Engineering (Includes \$25,000 Preloan)	<u>\$ 1,738,000</u>
Total	<u>\$ 15,436,000</u>

We will continue processing your loan based upon these estimates. We have enclosed copies of the budget details for your information.

If you should have any questions, please contact our office at 202-720-0806.

Sincerely,

  
PETER AIMABLE, Chief  
Southern Division Engineering Branch  
Rural Development, Telecommunications Program

cc:   
Finley Engineering Company

1400 Independence Ave, S.W. · Washington DC 20250-0700  
Web: <http://www.rurdev.usda.gov>

Committed to the future of rural communities.

"USDA is an equal opportunity provider, employer and lender."  
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights,  
1400 Independence Avenue, S.W., Washington, DC 20250-9410 or call (800) 795-3272 (Voice) or (202) 720-6382 (TDD).

Exhibit D

Project: KY 515-N Ballard RTCC

BUDGET ITEM	ESTIMATE OF COSTS		REMARKS
	LD	RUS	
<b>CENTRAL OFFICE EQUIPMENT</b>			
<b>BANDANA</b>			
(1) High Density Chassis	2,728	2,728	
(2) 10GigaBit Ethernet Blades @ \$7,750	15,500	15,500	
(1) ADSL 2+ Blade & Installation	8,437	8,437	
<b>BARLOW</b>			
(1) High Density Chassis	2,728	2,728	
(2) 10GigaBit Ethernet Blades @ \$7,750	15,500	15,500	
(1) ADSL 2+ Blade & Installation	8,437	8,437	
<b>GAGE</b>			
(1) High Density Chassis	2,728	2,728	
(2) 10GigaBit Ethernet Blades @ \$7,750	15,500	15,500	
(1) ADSL 2+ Blade & Installation	8,437	8,437	
<b>HEATH</b>			
Next Generation Switch Platform	26,000	26,000	
GPON Equipment & Installation	191,547	191,547	
<b>KEVIL</b>			
Next Generation Switch Platform	26,000	26,000	
GPON Equipment & Installation	371,514	371,181	adj.
<b>LA CENTER</b>			
Next Generation Switch Platform	26,000	26,000	
(6) GPON OLT 4-Port Blades @ \$13,950	83,700	83,700	
(24) GPON Optical Transceivers @ \$713	17,112	17,112	
Installation	800	800	
<b>WICKLIFFE</b>			
(1) High Density Chassis	2,728	2,728	
(2) 10GigaBit Ethernet Blades @ \$7,750	15,500	15,500	
(1) ADSL 2+ Blade & Installation	8,437	8,437	
Total central office equipment	849,333	849,000	
<b>ELECTRONIC EQUIPMENT</b>			
<b>BANDANA</b>			
(4) Remote sites @ \$11,297	45,188	45,188	
<b>BARLOW</b>			
(3) Remote sites @ \$11,297	33,891	33,891	
<b>GAGE</b>			
(5) Remote sites @ \$11,297	56,485	56,485	
<b>HEATH</b>			
(579) Optical Network Terminals @ \$458.80	265,645	265,645	
<b>KEVIL</b>			
(1123) Optical Network Terminals @ \$458.80	515,232	515,025	adj.
<b>LA CENTER</b>			
(680) Optical Network Terminals @ \$458.80	311,984	311,984	
<b>WICKLIFFE</b>			
(6) Remote sites @ \$11,297	67,782	67,782	
Total electronic equipment	1,296,207	1,296,000	

Project: KY 515-N Ballard RTCC

BUDGET ITEM exchange project		ESTIMATE OF COSTS		REMARKS
		LD	RUS	
<b><u>OUTSIDE PLANT</u></b>				
<b>HEATH</b>				
Buried fiber (107 mi)		3,237,411	3,237,411	
<b>KEVIL</b>				
Buried fiber (199 mi)		6,020,979	6,020,979	
<b>LA CENTER</b>				
Buried fiber (85 mi)		2,294,055	2,294,610	
Total outside plant		11,552,445	11,553,000	
<b>TOTAL CONSTRUCTION ESTIMATE</b>		13,697,985	13,698,000	
<b><u>ENGINEERING</u></b>				
Pre-loan		25,000	25,000	
Post-loan		1,713,000	1,713,000	
Total engineering		1,738,000	1,738,000	
<b><u>SUMMARY</u></b>				
CENTRAL OFFICE EQUIPMENT		849,333	849,000	
ELECTRONIC EQUIPMENT		1,296,207	1,296,000	
OUTSIDE PLANT		11,552,445	11,553,000	
ENGINEERING		1,738,000	1,738,000	
<b>TOTAL LOAN ESTIMATE</b>		15,435,985	15,436,000	
<b><u>PLANT MILEAGE</u></b>				
Existing (Modifications 391 miles)		832		
New & Retired		0		
<b>NEW SYSTEM MILEAGE</b>		1,223		
<b><u>PLANT RETIRED</u></b>				
Original Cost		155,669		
Salvage		0		