

RECIPIENT NAME:De Kalb, County of (Inc.)

AWARD NUMBER: NT10BIX5570030

DATE: 02/13/2013

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570030	3. DUNS Number 029980307
4. Recipient Organization De Kalb, County of (Inc.) 200 N. Main Street, Ste. 120, Sycamore, IL 60178-1431		
5. Current Reporting Period End Date (MM/DD/YYYY) 12-31-2012	6. Is this the last Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> No	
7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.		
7a. Typed or Printed Name and Title of Certifying Official Ed Harvey	7c. Telephone (area code, number and extension) 8158957125	
	7d. Email Address eharvey@dekalbcounty.org	
7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 02-13-2013	

Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).

All approved duct and fiber for the project was completed in 2012-Q4. Duct installed for the project is 113 miles. Fiber installed in Peace Road duct is an additional 13.53 miles. An additional 12 miles of fiber was purchased from Northern Illinois University making the total installed network as of the end of 2012 138.53 miles. Pending route changes, if approved will add an additional 4.5 miles to the total network. Completed all rights of way and municipal utility agreements needed for the project. Northern Illinois University Broadband Development Group continued engineering for community anchor institutions not yet connected to the network. Completed all railroad crossings needed for the project. Connected the approved community anchors in the Sandwich and Somonauk areas. Completed thirteen additional connections to the network this quarter making 61 total connections. Continued deployment of the E-911 fiber back haul equipment. Completed connection to the Sandwich telephone central office and racked and lit the backbone equipment there. Submitted one list of retroactive and one list of prospective route change requests. Employed 6.54 full time equivalent individuals in the construction and administration of the project in Q12 of award and includes the project contractor and subcontractors.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	92	Baseline predicted 100% complete at this point. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC in place. Since January, 2011, the project has been moving well showing completion percentages of 20, 29, 47, 62, 70, 75 and 83 percent respectively for the past eight quarters. Overall, the budget is within parameters. Some line items have been and/or will be exceeded but savings in other areas are expected to offset those overages. When calculating overall current completion as a percentage of projected final project expenditures, the project is currently more than 96% complete.
2b.	Environmental Assessment	100	Previously completed for original project scope. Additional environmental assessment work is on-going for proposed route changes. There was no budget provided for the environmental assessment, therefore the \$89,500 cost of the environmental assessment must be offset from savings in other budget areas. The costs for rail and pipeline crossings are anticipated to cost less than budgeted so the cost of the assessment can be covered from savings in that area.
2c.	Network Design	100	Previously completed within budget.
2d.	Rights of Way	100	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC in place. One right-of-way issue and one municipality agreement was resolved in Q11. All rights-of-way and municipal utility agreement issues needed for the project are now resolved. Costs for rights-of-way are expected to exceed budget due to payment for previously completed duct that was budgeted in "Construction" but was properly paid from "Rights-of-Way" line item.
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC in place. Baseline predicted 100% at this point. All rail crossings are complete but some flagmen costs remain to be paid in 2013-Q1.
2f.	Site Preparation	0	N/A

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2g.	Equipment Procurement	65	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community anchor premise equipment has been received and paid. Backbone equipment, fiber back haul equipment, wireless access points and fire walls for libraries have been received and paid. Remaining equipment to be procured is for 10Gig "ring" modules (has been bid, awarded and ordered). Expect to be completed in 2013-Q1, (16 additional months from baseline). Equipment procurement is 65% complete when compared to budget. Project total is expected to be under budget. Equipment procurement is 90% complete when compared to expected end of project.
2h.	Network Build (all components - owned, leased, IRU, etc)	100	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Approved duct and fiber is 100% complete. All leased fiber is 100 complete. All duct provided by DeKalb Fiber Optics has been received and overridden with fiber. Completed in December, 2012 (18 additional months from baseline). When route changes are approved, an additional 1.5 miles of duct and fiber will be constructed and an additional 2.975 miles of network will be acquired by IRU or bill of sale.
2i.	Equipment Deployment	95	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community anchor equipment deployment started in January, 2012 and is complete for the project with the exception of three approved locations. Additional locations will need to be deployed when the route changes are approved. Backbone equipment deployment started in January, 2012 and all five node locations are now deployed. Fiber back haul equipment deployment continued in 2012-Q4. Remaining community anchor equipment deployment for approved locations, and fiber back haul equipment will be complete in 2013-Q1 (16 additional months from baseline).
2j.	Network Testing	100	Baseline predicted 100%.The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Testing was completed for all fiber on the approved network in December, 2012.
2k.	Other (please specify):	0	N/A

3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

Submitted one list of retroactive and one list of prospective route changes in December, 2012. Approval is needed in order to complete the project as originally intended.

4. Please report the following information regarding network build progress. Write "0" in the Total column and "N/A" in the Narrative column if your project does not include this activity. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	126	Baseline predicted 130. The project was behind schedule early due to problems getting the infeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Q3-2012 PPR included "leased" miles in this number. Approved network was completed in December, 2012 (thirteen additional months from baseline).
New network miles leased	12	Acquired 12 strands over 12 miles from Northern Illinois University. Completes leased fiber in project.
Existing network miles upgraded	0	N/A
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	126	Total approved for the project.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	291	Baseline predicted 366 interconnection at the end of Q9 of award. Elimination of Knolls build reduced interconnection points by 8 to 358 (new baseline). Total reported here is total approved for the project. Additional interconnection points will be added if route changes are approved.

For questions 5 and 6 please include information relating to agreements that you are negotiating or have entered into, or that your sub recipient, contractor or subcontractor is negotiating or entered into.

5a. If applicable, please provide the following information with regard to agreements with broadband wholesalers and/or last mile providers as a result of your project.

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	2
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	3
Average term of signed agreements (in quarters)	14

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: DeKalb County has an agreement in place with DeKalb Fiber Optics for the construction, operation and economic expansion of the system. DeKalb Fiber Optics has one signed agreement with TBC Net. Recipient is not a party to this agreement. In Q3-12, DeKalb County signed an agreement with Syndeo Networks, Inc. to provide last mile services on the network. DeKalb County expects three additional last mile provider agreements by the end of the award period.

5c. What wholesale services are being provided by this project? Please describe below. As an attachment to this report, please provide pricing plans (in \$ per month) associated with each wholesale service provided by your product (100 words or less). Wholesale services description:

Provided by DeKalb Fiber Optics to Commercial Customers:

- 100 Mb VLAN: \$300/ month
- 1 Gb VLAN: \$600/ month
- Wholesale Bandwidth: \$20/ Mb/ Month
- Consumer Access: \$90/ Month
- Dark Fiber: \$750/ strand/ mile/ year

Provided by DeKalb County to Community Anchors:

- Full participant: Dark Fiber, 1Gb transport to Illinois Century Network: \$7,000/ location/ year
- Subscriber Services: Transport to ISP: 100 Mb: \$2,800/ year; 50 Mb (shared): \$1,050/ year

5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this this third party operates (600 words or less).

Fiber Physical Layer: DeKalb Fiber Optics, LLC, vendor, Dan Halverson, (dan@admin.tbc.net). DeKalb Fiber Optics is operating 68 fibers for economic development as well as providing locating, maintenance and repair functions for all 144 fibers being constructed. Electronics, network operations and community anchor engineering: Northern Illinois University, vendor, Herb Kuryliw, hkuryliw@niu.edu.

6. Please provide the data according to the type of subscriber. Write "0" in the Total column and "N/A" in the Narrative column if your project does not pass or serve a particular subscriber type. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (300 words or less).

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	0	None at this time. No providers with new access are anticipated.
	Providers with signed agreements receiving improved access	2	DeKalb Fiber Optics, LLC and Syndeo Networks, Inc. We are in discussions with three additional providers and anticipate signed agreements in 2013-Q1. All would be receiving improved access.
	Providers with signed agreements receiving access to dark fiber	1	DeKalb Fiber Optics, LLC. None of the providers with which we are negotiating agreements are expected to receive access to dark fiber.
	Please identify the speed tiers that are available and the number of subscribers for each	2	All connections provided by DeKalb Fiber Optics are expected to be over a 1Gb interface. Syndeo Networks is offering speeds of up to 100Gbps to the internet.
Community Anchor Institutions (including Government institutions)	Total subscribers served	61	Baseline predicted 111 at this point. 78 are currently projected. Thirteen new subscribers connected in 2012-Q4. Previous quarter connections were reported as 50, but now corrected to 48 to align with approved CAI total of 78, making the total now served 63.
	Subscribers receiving new access	2	Baseline predicted 70. Corrected from previously reported total of 6. Only 2 new connections are anticipated for project.
	Subscribers receiving improved access	59	Baseline predicted 41. Project total is expected to be 76.
	Please identify the speed tiers that are available and the number of subscribers for each	61	47 @ 1Gb; 2 @ 50Mbps to the internet; 1 @ 100 Mbps to the internet; 2 dark fiber only, 4 are not lit and 5 are not subscribers at this time.
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Businesses	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

7. Please describe any special offerings you may provide (600 words or less).
 Project is providing fiber back haul for DeKalb County E-911 system and co-location in four telephone central offices.

8a. Have your network management practices changed over the last quarter? Yes No

8b. If so, please describe the changes (300 words or less).
 N/A

9. Community Anchor Institutions:
Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions) connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
Indian Valley Vocational Center	Sandwich	Education K-12	No	Transport to ISP
Sandwich High School	Sandwich	Education K-12	No	Transport to ISP; connection to DATA network and education cloud; dark fiber to district schools.
Prairie View School	Sandwich	Education K-12	No	Transport to ISP; connection to DATA network and education cloud; dark fiber to district schools.
Woodbury School	Sandwich	Education K-12	No	Transport to ISP; connection to DATA network and education cloud; dark fiber to district schools.
Dummer School	Sandwich	Education K-12	No	Transport to ISP; connection to DATA network and education cloud; dark fiber to district schools.
Haskin School	Sandwich	Education K-12	No	Transport to ISP; connection to DATA network and education cloud; dark fiber to district schools.
Sandwich Middle School	Sandwich	Education K-12	No	Transport to ISP; connection to DATA network and education cloud; dark fiber to district schools.
Somonauk High School	Somonauk	Education K-12	No	Transport to ISP; connection to DATA network and education cloud.
Wood School	Somonauk	Education K-12	No	Transport to ISP; connection to DATA network and education cloud.
Somonauk Middle School	Somonauk	Education K-12	No	Transport to ISP; connection to DATA network and education cloud.
Kishwaukee Community Hospital	DeKalb	Health Care Providers	No	Dark Fiber to Valley West Hospital
Valley West Hospital	Sandwich	Health Care Providers	No	Dark Fiber to Kishwaukee Community Hospital
Malta Township Library	Malta	Libraries	No	Transport to ISP

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
As-built documentation process will continue. Signed agreements with three last mile providers/ wholesalers will be completed. Complete phase 2 of independent verification of duct and fiber installation. Complete final community anchor equipment procurement. If route change approval is received, start work on final network infrastructure, weather permitting.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	93	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. All approved infrastructure work on the project is completed. Some additional connections will be completed in January and some additional community anchor engineering can be completed and invoices processed for engineering.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2b.	Environmental Assessment	100	Previously completed.
2c.	Network Design	100	Previously completed.
2d.	Rights of Way	100	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. All rights-of-way were completed in 2012-Q3. Costs for rights-of-way are expected to exceed budget due to payment for previously completed duct that was budgeted in "Construction" but was properly paid from "Rights-of-Way" line item. In-kind for duct and fiber provided by DeKalb Fiber Optics will exceed budget and be off-set by engineering provided by DeKalb Fiber Optics being less than budgeted.
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. Some expenditures remain to be paid from this line item in 2013-Q1 as railroad invoicing for flag men for crossing are made in Malta is lagging behind actual date of occurrence.
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	100	All remaining equipment for the project should be received and paid in 2013-Q1. Some additional connection equipment may be needed for the community anchors involved with the route changes.
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. All approved construction is complete and invoices are paid. 1.526 miles of additional network will need to be built and 2.965 miles of additional network will be acquired from DeKalb Fiber Optics if the route changes are approved. Construction of the additional network can only take place in 2013Q1 if route change is approved in time to construct it and weather conditional allow it.
2i.	Equipment Deployment	100	All node sites are complete. All Community Anchors locations will be complete for equipment deployment in January, 2013. Additional equipment will be deployed if route changes are approved. The connection of 17 community anchors remains at the end of 2012-Q4. Of those, one is expected to be connected in January, 2013 and the remaining 16 are dependent on route changes. Of the 16 connections dependent on route changes, seven are dependent on construction and will take up to three months to connect after route changes are approved, making it doubtful these locations can be connected next quarter.. The remaining nine connections need equipment, configuration and lighting only and may be able to be connected late in 2013-Q1 if route changes are received in time to allow the remaining tasks to be complete before the end of the quarter.
2j.	Network Testing	100	Completed in 2012-Q4. Verification of test results continues into 2013-Q1.
2k.	Other (please specify):	0	N/A
<p>3. Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).</p> <p>The project has submitted a list of retroactive and a list of prospective route changes. Approval of these route changes is essential to completion of the project as intended.</p>			

Infrastructure Budget Execution Details

Activity Based Expenditures (Infrastructure)

1. Please provide details below on your total budget, cumulative actual expenditures (for the period ending the current quarter), and cumulative anticipated expenditures (for the period ending next quarter) for each line item, including detailed disbursements of both matching funds and federal funds from project inception through end of this quarter (actual) or next quarter (anticipated). Actual and anticipated figures should be reported cumulatively from award inception to the end of the applicable reporting quarter.

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$39,000	\$7,800	\$31,200	\$77,739	\$13,868	\$63,871	\$90,571	\$13,868	\$76,703
b. Land, structures, right-of-ways, appraisals, etc.	\$1,435,485	\$996,922	\$438,563	\$1,755,857	\$1,150,355	\$605,502	\$1,796,875	\$1,189,373	\$607,502
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$646,480	\$491,145	\$155,335	\$378,205	\$168,977	\$209,228	\$428,095	\$218,867	\$209,228
e. Other architectural and engineering fees	\$45,000	\$9,000	\$36,000	\$41,139	\$7,168	\$33,971	\$54,484	\$15,713	\$38,771
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$10,969,239	\$766,223	\$10,203,016	\$10,253,648	\$951,231	\$9,302,417	\$10,253,648	\$951,231	\$9,302,417
j. Equipment	\$1,695,000	\$694,950	\$1,000,050	\$1,098,480	\$447,277	\$651,203	\$1,192,049	\$447,277	\$744,772
k. Miscellaneous	\$0	\$0	\$0						
l. SUBTOTAL (add a through k)	\$14,830,204	\$2,966,040	\$11,864,164	\$13,605,068	\$2,738,876	\$10,866,192	\$13,815,722	\$2,836,329	\$10,979,393
m. Contingencies	\$0	\$0	\$0						
n. TOTALS (sum of l and m)	\$14,830,204	\$2,966,040	\$11,864,164	\$13,605,068	\$2,738,876	\$10,866,192	\$13,815,722	\$2,836,329	\$10,979,393

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$0	b. Program Income to Date: \$0
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