#### BTOP Comprehensive Community Infrastructure Detailed Budget

Please complete the General Budget Overview and Detailed Project Costs worksheets.

#### <u>Please refer to the Comprehensive Community Infrastructure Grant Guidance for</u> <u>detailed instructions on the completing this upload.</u>

Applicants are required to provide this upload as an Excel file, and not to convert it to a PDF prior to upload. Applicants should not alter the layout of the provided templates, except to insert additional line-items as needed in the Detailed Project Costs worksheet.

### NTIA BTOP Round Two - CCI #5116 DC Community Access Network ("DC-CAN") General Budget Overview

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Budget	Federal Funding	Matching Funds	Matching Funds	Budget TOTAL	Last Mile	Middle Mile	Allocated
	Request	(Cash)	(III-KIIId)		Anocation	Allocation	TOTAL
Network & Access Equipment (switching,							
routing, transport, access)	\$4,474,433	\$7,498,090	\$0	\$11,972,523	\$0.00	\$11,972,523.00	\$11,972,523
Outside Plant (cables, conduits, ducts,							
poles, towers, repeaters, etc.)	\$8,732,184	\$0	\$0	\$8,732,184	\$0.00	\$8,732,184.00	\$8,732,184
Buildings and Land – (new construction,							
improvements, renovations, lease)	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Customer Premise Equipment (modems, set-							
top boxes, inside wiring, etc.)	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Billing and Operational Support Systems (IT							
systems, software, etc.)	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Operating Equipment (vehicles, office							
equipment, other)	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Engineering/Professional Services							
(engineering design, project management,							
consulting, etc.)	\$4,191,025	\$15,000	\$61,968	\$4,267,993	\$0.00	\$4,267,993.00	\$4,267,993
Testing (network elements, IT system							
elements, user devices, test generators, lab							
furnishings, servers/computers, etc.)	\$60,300	\$0	\$0	\$60,300	\$0.00	\$60,300.00	\$60,300
Site Preparation	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Other				\$0			\$0
TOTAL BROADBAND SYSTEM:	\$17,457,942	\$7,513,090	\$61,968	\$25,033,000	\$0	\$25,033,000	\$25,033,000
Cost Share Percentage:	69.74%	30.01%	0.25%				

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#### **DETAIL OF PROJECT COSTS**

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING ١U

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INI		COST	

NTIA BTOP Round Two CCI (Win	ter 2010) - EasyGrant#:	5116	Applicant:	OCTO DC-Net		Project Name:	DC-Community A	Access Network (D	C-CAN)	
SERVICE AREA or COMMON NE	TWORK FACILITIES:	Match (Cash/In- kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>NETWORK &amp; ACCESS EQUIPME</b>	NT				\$11,972,523	\$0	\$11,972,523	\$11,972,523		
Switching	Cisco 3560 24 10/100 PoE + 2 SI	Cash Match	\$5,790	291	\$1,684,890	\$0	\$1,684,890	\$1,684,890	10. Equipment	223 new sites; 68 upgrade sites.
	GE SFP LC connector LX/LH tran	nsceiver (four)	\$565	1164	\$657,660	\$0	\$657,660	\$657,660	10. Equipment	Unit configurations used to construct
	Cisco 1520 Outdoor Series (w/ ha	ardware)	\$3,500	291	\$1,018,500	\$0	\$1,018,500	\$1,018,500	10. Equipment	equipment bill of materials
	Chassis 4507R-E		\$5,497	3	\$16,491	\$0	\$16,491	\$16,491	10. Equipment	Commercial prices, based on procurement
	Supervisor (WS-X45-SUP6-E)		\$10,997	6	\$65,982	\$0	\$65,982	\$65,982	10. Equipment	schedules.
	IOS (S45EESK9-12250SG)		\$6,000	3	\$18,000	\$0	\$18,000	\$18,000	10. Equipment	Same
	48 Port PoE Blades (WS-X4648-I	RJ45V+E)	\$4,122	6	\$24,732	\$0	\$24,732	\$24,732	10. Equipment	Same
	SFP (GLC-LH-SM)		\$565	12	\$6,780	\$0	\$6,780	\$6,780	10. Equipment	Same
			\$0		\$0	\$0	\$0	\$0		
Routing	Cisco 7606 redundant system 2R	SP720-3CXL, 2PS	\$51,750	18	\$931,500	\$0	\$931,500	\$931,500	10. Equipment	Commercial prices, based on procurement
	48-port SFP Gigabit (two)		\$18,750	36	\$675,000	\$0	\$675,000	\$675,000	10. Equipment	223 new sites; 68 upgrade sites.
	48-port SFP FastEthernet (two)		\$6,750	36	\$243,000	\$0	\$243,000	\$243,000	10. Equipment	Unit configurations used to construct
	10GBASE-LR X2 Module (four)		\$3,000	72	\$216,000	\$0	\$216,000	\$216,000	10. Equipment	equipment bill of materials
	MPLS VPN: ASR 9010 (Super Co	Cash Match	\$303,400	2	\$606,800	\$0	\$606,800	\$606,800	10. Equipment	Same
	MPLS VPN: ASR-9006 (Core Site	Cash Match	\$249,550	8	\$1,996,400	\$0	\$1,996,400	\$1,996,400	10. Equipment	Same
			\$0		\$0	\$0	\$0	\$0		
Transport	DWDM: 10 sites 40-channel Cien	Cash Match	\$321,000	10	\$3,210,000	\$0	\$3,210,000	\$3,210,000	10. Equipment	Commercial prices, based on procurement
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Access			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other	Hubbell RE-BOX wall enclosure		\$357	223	\$79,611	\$0	\$79,611	\$79,611	10. Equipment	Commercial prices, based on procurement
	Patch Panel mounting bracket		\$40	223	\$8,920	\$0	\$8,920	\$8,920	10. Equipment	223 new sites; 68 upgrade sites.
	Equipment mounting bracket		\$46	223	\$10,258	\$0	\$10,258	\$10,258	10. Equipment	Unit configurations used to construct
	APC SMART UPS 1000 Rack Mo	ount	\$507	223	\$113,061	\$0	\$113,061	\$113,061	10. Equipment	equipment bill of materials
	Network Management Card		\$224	223	\$49,952	\$0	\$49,952	\$49,952	10. Equipment	Same
	Mounting hardware/patch cord(s)	/etc.	\$100	223	\$22,300	\$0	\$22,300	\$22,300	10. Equipment	Same
	Power (PWR-C45-1400DC-P)		\$960	6	\$5,760	\$0	\$5,760	\$5,760	10. Equipment	Same
	48-volt 155-aH battery string (two	<b>)</b> )	\$1,825	36	\$65,700	\$0	\$65,700	\$65,700	10. Equipment	Same
	Battery tray (two)		\$196	36	\$7,056	\$0	\$7,056	\$7,056	10. Equipment	Same
	Circuit Breaker 100-amp (5)		\$32	90	\$2,880	\$0	\$2,880	\$2,880	10. Equipment	Same
	48v 50amp rectifier module (two)		\$995	36	\$35,820	\$0	\$35,820	\$35,820	10. Equipment	Same
	Cisco 5500 Series Wireless Cont	roller Redundant F	\$897	5	\$4,485	\$0	\$4,485	\$4,485	10. Equipment	Same
	Cisco 5508 Series Wireless Cont	roller for up to 250	\$38,997	5	\$194,985	\$0	\$194,985	\$194,985	10. Equipment	Same
			\$0		\$0	\$0	\$0	\$0		

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NTIA BTOP Round Two CCI (Wir	nter 2010) - EasyGrant#:	5116	Applicant:	OCTO DC-Net		Project Name:	<b>DC-Community A</b>	ccess Network (D	C-CAN)	
OUTSIDE PLANT					\$8,732,184	\$0	\$8,732,184	\$8,732,184		
Cables			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Conduits	CAN Backbone Fiber Materials		\$2.10	303,250	\$636,825	\$0	\$636,825	\$636,825	10. Equipment	288-count fiber, per foot; vendor quote
	Access Loops		\$1.30	585,100	\$760,630	\$0	\$760,630	\$760,630	10. Equipment	96-count fiber, per foot; vendor quote
			\$0		\$0	\$0	\$0	\$0		
Ducts			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Poles			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Towers			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Repeaters			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other	Underground Fiber Install		\$8.24	503200	\$4,146,368	\$0	\$4,146,368	\$4,146,368	<ol><li>Site work</li></ol>	Unit cost per foot; vendor quote
	Aerial Fiber Install		\$3.86	318250	\$1,228,445	\$0	\$1,228,445	\$1,228,445	<ol><li>Site work</li></ol>	Unit cost per foot; vendor quote
	ISP Costs		\$2.14	66900	\$143,166	\$0	\$143,166	\$143,166	<ol><li>Site work</li></ol>	Unit cost per foot; vendor quote
	Verizon Inspectors		\$65	27950	\$1,816,750	\$0	\$1,816,750	\$1,816,750	<ol><li>Inspection fees</li></ol>	Unit cost per hour; vendor quote
			\$0		\$0	\$0	\$0	\$0		

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NTIA BTOP Round Two CCI (Win	ter 2010) - EasyGrant#:	5116	Applicant:	OCTO DC-Net		Project Name:	<b>DC-Community A</b>	ccess Network (D	C-CAN)	
SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash/In- kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
BUILDINGS					\$0	\$0	\$0	\$0		
New Construction			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Pre-Fab Huts			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Improvements & Renovs			\$0		\$0	\$0	\$0	\$0		
-			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
CUSTOMER PREMISE EQUIPME	NT				\$0	\$0	\$0	\$0		
Modems			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Set Top Boxes			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Inside Writing			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
BILLING SUPPORT AND OPERA	TIONS SUPPORT SYSTEMS				\$0	\$0	\$0	\$0		
Billing Support Systems			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Customer Care Systems			\$0		\$0	\$0	\$0	\$0		
-			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other Support			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		

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NTIA BTOP Round Two CCI (Wir	nter 2010) - EasyGrant#:	5116	Applicant:	OCTO DC-Net		Project Name:	DC-Community A	Access Network (D	C-CAN)	
SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash/In- kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
OPERATING EQUIPMENT					\$0	\$0	\$0	\$0		
Vehicles			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Office Equipment / Furniture			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
PROFESSIONAL SERVICES					\$4.267.993	\$0	\$4,267,993	\$4,267,993		
Engineering Design	DC-Net Engineering, Inspection		\$65	21.040	\$1,367,600	\$0	\$1.367.600	\$1,367,600	4. Architectural and engr.	Estimates: procurement list costs
	Fiber Splicing and Testing		\$65	581	\$37,765		\$37,765	\$37,765	7. Site work	Estimates; procurement list costs
	Network Configuration		\$90	450	\$40.500	\$0	\$40.500	\$40,500	4. Architectural and engr.	Estmates: internal labor
			\$0		\$0	\$0	\$0	\$0	J	
Project Management	Program Manager		\$90	1.920	\$172.800	\$0	\$172.800	\$172.800	1. Admin and Legal	Estimates: procurement list costs
	Project Manager		\$90	3.840	\$345.600	\$0	\$345.600	\$345,600	1. Admin and Legal	Estimates: procurement list costs
	Financial Analyst / Program Com	oliance	\$90	5,760	\$518,400	\$0	\$518,400	\$518,400	1. Admin and Legal	Estimates: procurement list costs
Consulting			\$0		\$0	\$0	\$0	\$0		
5			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other	Install New DC-Net Sites		\$3 780	223	\$842 940	\$0	\$842 940	\$842 940	7 Site work	Labor for installation: estimates
	Upgrade Existing DC-Net Site (up	derserved area)	\$1,280	68	\$87.040	\$0	\$87.040	\$87.040	7. Site work	Labor for installation: estimates
	Upgrade Public Safety M-3.4 Site	s	\$780	71	\$55.380	\$0	\$55.380	\$55,380	7. Site work	Labor for installation: estimates
	Upgrade Existing DC-Net Model1	Hub Site	\$4,560	18	\$82,080	\$0	\$82,080	\$82,080	7 Site work	Labor for installation: estimates
	Install DC-CAN DWDM		\$15,000	10	\$150.000	\$0	\$150.000	\$150.000	4. Architectural and engr.	Labor for installation; estimates
	Install DC-CAN MPLS Routers		\$780	10	\$7.800	\$0	\$7.800	\$7,800	4. Architectural and engr.	Labor for installation: estimates
	Install Wireless Core		\$624	5	\$3 120	\$0	\$3 120	\$3 120	4 Architectural and engr	Labor for installation: estimates
	Install Handholes		\$8.000	60	\$480.000	\$0	\$480.000	\$480.000	7. Site work	Labor for fiber installation: estimates
			÷ • , • • •		\$0		÷,	\$0		
	BTOP Application Submission	In-kind Match	\$115	536	\$61 640	\$0	\$61 640	\$61 640	11 Misc	Costs of BTOP application preparation
	Plug entry	In-kind Match	\$1	328	\$328	\$0	\$328	\$328	11 Misc	Plug round up to nearest 000
	ARRA/BTOP Compliance Report	Cash Match	\$75	200	\$15,000	\$0	\$15,000	\$15,000	11 Misc	New procedures for ARRA compliance
TESTING		odon maton	φi σ	200	\$60,300	\$0	\$60,300	\$60,300		
Network Elements	Network Testing		\$90	220	\$19,800	\$0	\$19,800	\$19,800	4. Architectural and engr.	Estimates, based on experience
	Network Turnup / Testing		\$90	450	\$40,500	\$0	\$40,500	\$40,500	4 Architectural and engr	Estimates based on experience
	Hother Famap / Footing		\$0	100	\$0	\$0	\$0	\$0		
IT System Elements			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
User Devices			\$0		\$0	\$0	\$0 \$0	\$0		
			\$0 \$0		\$0	\$0	\$0 \$0	\$0 \$0		
Test Generators			\$0		\$0	\$0	\$0 \$0	\$0 \$0		
			0¢ 02		0¢ 02	90 ¢0	ψυ \$0	φ0 ¢0		<u> </u>
Lab Furnishings			φ0 ¢0		¢0	90 ¢0	φ0 ¢∩	φ0 ¢∩		
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Servers/Computers			φ0 ΦΩ		¢0	90 ¢0	φ0 ¢∩	φ0 ¢∩		
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NTIA BTOP Round Two CCI (Wint	ter 2010) - EasyGrant#:	5116	Applicant:	OCTO DC-Net		Project Name:	DC-Community A	ccess Network (DC	C-CAN)	
SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash/In- kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
OTHER UPFRONT COSTS					\$0	\$0	\$0	\$0		
Site Preparation			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
Other			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			\$0		\$0	\$0	\$0	\$0		
			PR	OJECT TOTAL:	\$25,033,000	\$0	\$25,033,000	\$25,033,000		

SF-424C Cross-check Totals	
1. Admin and Legal	\$1,036,800
2. Land, structures	\$0
3. Relocation expenses	\$0
4. Architectural and engr.	\$1,629,320
5. Other archit. and engr.	\$0
6. Inspection fees	\$1,816,750
7. Site work	\$7,103,184
8. Demolition/removal	\$0
9. Construction	\$0
10. Equipment	\$13,369,978
11. Misc.	\$76,968
TOTAL SF-424C	\$25,033,000

Matching Contribution Cross-che	eck Totals
Federal Funding Request	\$17,457,942
Cash Match Contribution	\$7,513,090
In-kind Match Contribution	\$61,968
Total Match Pctg	30.26%

\$25,033,000

TOTAL SOURCES OF FUNDS

30.01% 0.25%

#### Approach to allocating Last Mile and Middle Mile costs:

\$0

\$0

SF-424C Difference:

Sources of Funds Difference:

As this is exclusively a middle-mile project, with last-mile enablement, there are no last-mile costs. All project costs are therefore accounted as allocated to Middlle Mile, exclusively.

### **BTOP Comprehensive Community Infrastructure** Service Offerings and Competitor Data Template

Please complete the complete the following worksheets--either of the Last Mile or Middle Service Offerings worksheets may be omitted if the applicant is not proposing to provide se that type.

For both the Last Mile and Middle Mile Service Offerings worksheets, the service offerings include all relevant tiers and markets (*e.g.* residential, business, wholesale). Applicants sho sure to include details on any services that would be offered at discounted rates to particul classes of customers (*e.g.* community anchor institutions or third party service providers).

In the Last Mile Service Offerings worksheet, applicants are required to provide estimated a end user speeds. Average speeds should be the average sustained actual, non-burst speed end user would receive during a peak hour. For purposes of calculating these speeds, appli should utilize their subscriber projections for year eight of the project, and develop subscril utilization projections that are consistent with any additional services the applicant plans to For wireless broadband services, this speed should be an average of the speeds available ac entire cell. Beyond these general guidelines, due to the multiplicity of technical solutions t be proposed, the applicants may use discretion to determine the most reasonable manner to estimate actual speeds on their network. Applicants should explain the underlying assur used to calculate the average speeds in the space provided.

In the Competitor Data worksheet, applicants are required to provide data on both last milmiddle mile service providers, regardless of whether the applicant proposes to offer both la and middle mile services. In the column titled Service Areas Where Service Offered, applica should list all of the Last Mile and Middle Mile Service Areas within their Proposed Funded area in which the listed services area available. Please ensure that the Service Area names consistent with those provided within the application and the Service Areas attachment. If actual availability of the listed services is limited (*e.g.* the service is only available within pa Last Mile or Middle Mile Service Area), note this in the Other Comments column.

In contrast to several other attachment templates in this application, the data provided via template will NOT be subject to automated processing. These templates worksheets are pi to demonstrate the level of data required and to provide a suggested format. Applicants ai modify the template layouts in order to provide the most effective presentation of the data their specific project. Applicants should, however, ensure that they provide at least as muc as these templates require. To the extent that you modify these templates please ensure t print layouts are adjusted so that rows do not break across pages in a manner that will be c to understand. It is recommended that you provide these documents in PDF format when submitting a copy of your application on an appropriate electronic medium, such as a DVD, ROM, or flash drive.

Mile ervices of should ould be lar average ls that an icants ber o offer. cross an that may in which mptions e and ast mile ants Service are <sup>:</sup> the rt of the this rovided re free to a for ch detail :hat the lifficult , CD-

#### BTOP CCI #5116 DC Community Access Network (DC-CAN)

## Proposed Middle Mile Service Offerings

Name of Service Offering	Distance Band or Point to Point	Minimum Peak Load Network Bandwidth Capacity (Mbps)	Monthly Pricing (\$)	Other Comments/Description/Features or Limitations		
Layer 1						
Dark Fiber Service	Distance Band	N/A	Avg \$175 per strand per mile	Price varies based on construction costs in each ward. Pricing in underserved areas of ward 5,7 and 8 are lower than other wards.		
Wavelength	Point-to-Point	1 Gbps	\$4,500 per access node	Wavelengths can be shared or dedicated and configured in a point to point or point to multipoint fashion as desired. Wavelengths are provisioned over a ring between desired locations as protected or unprotected. Peering can be done using Ethernet, FC/FICON, SONET or direct wave (OTN) interfaces. Bandwidth at 2.5 Gbps. Features: Physical path redundancy, dedicated 24 by 7 monitoring. 99.999% availability. Direct connectivity to District government data centers for District government services and resources; direct connectivity to core exchanges, available public and private peering points for interconnection and offsite data storage/recovery; private connection to other District government and community anchors on network; Edu-Net access for educational institutions - ability to peer with Internet(2), Mid-Atlantic Exchange (MAX GigaPOP), National Public LightPath, National LambdaRail.		
		2.5 Gbps	\$5,200 per access node	Same as 1 Gbps wavelength service. Bandwidth at 2.5 Gbps		
		10 Gbps	\$6,000 per access node	Same as 2.5 Gbps wavelength service. Bandwidth at 10 Gbps		
Layer 2						
Layer 2 Service Point-to	Point-to-Point or Point- to-Multipoint	100 Mbps	\$2,200 per access site	Layer 2 services offered over the MPLS platform built over a protected DWDM ring. Can be configured as point to point or point to multipoint. Features: Physical path redundancy, dedicated 24 by 7 monitoring. 99.999% availability. Direct connectivity to District government data centers for District government services and resources; direct connectivity to core exchanges, available public and private peering points for interconnection and offsite data storage/recovery; private connection to other District government and community anchors on network; Edu-Net access for educational institutions - ability to peer with Internet(2), Mid-Atlantic Exchange (MAX GigaPOP), National Public LightPath, National LambdaRail.		
		1 Gbps	\$3,200 per access site	Same as 100 Mbps EoMPLS. Bandwidth at 1 Gbps		
		10 Gbps	ICB	Same as 100 Mbps EoMPLS. Bandwidth at 10 Gbps		
Layer 3						

#### BTOP CCI #5116 DC Community Access Network (DC-CAN)

March	25,	2010
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VPN	Point-to-Point or Point- to-Multipoint	2 Mbps	\$400	Physical path redundancy; 24x7 network monitoring and customer support; guaranteed quality of service and packet delivery suitable for all traffic (including VoIP); demonstrated 99.995% network uptime past performance; Internet connectivity; Direct connectivity to District government data centers for District government services and resources; direct connectivity to core exchanges, available public and private peering points for interconnection and offsite data storage/recovery; private connection to other District government and community anchors on network; Edu-Net access for educational institutions - ability to peer with Internet(2), Mid-Atlantic Exchange (MAX GigaPOP), National Public LightPath, National LambdaRail; HIPAA-Net access for health customers; Public Safety-Net access for public safety entities; can be accessed at neutral collocation facility in underserved area, if desired.
		10 Mbps	\$600	Same as 2 Mbps VPN Access service
		100 Mbps	\$1,995	Same as 2 Mbps VPN Access service
		1 Gbps	\$4,995	Same as 2 Mbps VPN Access service
		10 Gbps	ICB	Same as 2 Mbps VPN Access service

#### Competitor Data

#### Competitor Data - Last Mile Service Providers

Service Provider	Service Areas Where Service Available	Technology Platform	Service Tiers	Downstream Speed	Monthly Pricing	Other Comments/Descripti on/Features or Limitations
	All four guadrants of Washington		Basic	1.5 Mbps	\$17.50	
RCN	DC: NW NE SE and SW	Hybrid Fiber Coax	Mid	10 Mbps	\$32.45	
	5 C. 111, 112, 52, and 511		High	20 Mbps	\$65.50	
			Low	1.5 Mbps	\$22.99	12 mo contract
RCN	DC: NW/ NE_SE and SW/	Hybrid Fiber Coax	Mid	10 Mbps	\$32.99	pricing; retail rates
	DC. NW, NE, SE, and SW		High	20 Mbps	\$52.99	after 1 year
	All four guadrants of Washington		Basic	1 Mbps	\$29.99	
Verizon	DC: NW/ NE_SE and SW/	DSL	Mid	3 Mbps	\$39.99	
	DC. NW, NE, SE, and SW		High	7.1 Mbps	\$49.99	
			Basic	1 Mbps	\$24.95	
Comcast	DC: NW/ NE_SE and SW/	Hybrid Fiber Coax	Mid	12 Mbps	\$42.95	
DC. NW, NE, SE, and S	DC. NW, NE, SE, and SW		High	16 Mbps	\$52.95	
			Basic	56 Kbps	\$21.95	Dial-up
Earthlink	All four quadrants of Washington		Mid	1.5 Mbps	\$39.95	DSL
İ	DC. NW, NE, SE, and SW		High	5 Mbps	\$59.99	Satellite

#### Competitor Data - Middle Mile Service Providers

Service Provider	Service Areas Where Service Available	Technology Platform	Service Tiers	Distance Band or Point-to- Point	Minimum Peak Load Network Bandwidth Capacity	Pricing	Other Comments/Description/Features or Limitations
AT&T	Northwest Washington DC	MPLS		Point to Point	1.5 Mbps	\$665	This is a generic service pricing provided by AT&T. AT&T did not confirm if it will provide the services in the Southeast/Northeast areas of DC and/or any portions of their service that will be provisioned over Verizon network.
FiberLight	Northwest Washington DC						No fiber availability in underserved area and is either unable to provide service or would provide service over Verizon's network.
Global Crossing	All four quadrants of Washington DC: NW, NE, SE, and SW	MPLS	Entry Level	100 Mbps	100 Mbps	\$9,475.00	Global crossing indicated that they do have fiber in the areas of Southeast/Northeast DC over which middle-mile services can be provided. The pricing provided here is based on their MPLS service.
Level3	All four quadrants of Washington DC: NW, NE, SE, and SW	Long Haul Fiber Network	Entry Level Highest Speed Plan Other Plans (eg. Middle	100 Mbps 10,000 Mbps 2,500 Mbps	100 Mbps 10,000 Mbps 2,500 Mbps	Not available Not available Not available	Fiber infrastructure not present in underserved area. To obtain service customer would have to pay for fiber to be built into customer premises as a Non recurring charge. Speeds as advertised by provider.
RCN	All four quadrants of Washington DC: NW, NE, SE, and SW	Hybrid Fiber Coax	Entry Level Highest Speed Plan Other Plans (eg. Middle Tier)	100 Mbps 10,000 Mbps 2,500 Mbps	100 Mbps 10,000 Mbps 2,500 Mbps	\$2,580 \$23,154 \$7,800	Fiber infrastructure not widely present in underserved area. To obtain service customer would have to pay for fiber to be built into customer premises as a Non recurring charge. Speeds as advertised by provider. Pricing based on GSA schedule.
TW Telecom	Northwest Washington DC	MPLS					No fiber availability in underserved area and is either unable to provide service or would provide service over Verizon's network. Indicated that it has no future expansion plans for fiber in SE or NE Washington DC
Verizon	All four quadrants of Washington DC: NW, NE, SE, and SW	TLS	Entry Level Highest Speed Plan Other Plans (eg. Middle	10 Mbps 1,000 Mbps 100 Mbps	10 Mbps 1,000 Mbps 100 Mbps	\$1,000 \$4,200 \$2,250	Verizon provided no response for request for MPLS services. While Verizon is the ILEC in SE and NE Washington DC, it did not confirm the extent of fiber avaiability in these areas and/or where it will provide services in these areas. Also previous research has revealed that fiber infrastructure is not widely present in underserved area. The pricing povided here is for a Transparent LAN service (TLS). To obtain LAN service customer would have to pay for fiber to be built into customer premises as a Non recurring charge. Speeds as advertised by provider. Pricing is based on GSA schedule.
Zayo Bandwidth	Northwest Washington DC	MPLS					No fiber availability in underserved area and is either unable to provide service or would provide service over Verizon's network. Provider also mentioned that it does not have any plans to expand into further areas in Washington DC.



# Comprehensive Community Infrastructure Budget Narrative

Applicant Name:	District of Columbia Government Office of Chief Technology Officer (DC OCTO)				
EasyGrants Number	: 5116 DC Con	mmunity Access Network	ζ		
Organization Type: Distri		ict of Columbia			
Proposed Period of	Performance:	30 Months (FY 2011-Q1 - FY 2013	- <b>Q2)</b>		
Total Project Costs:		\$25,033,000			
Total Federal Grant	Request:	\$ 17,457,942			
Total Matching Funds (Cash):		\$ 7,513,090			
Total Matching Funds (In-Kind):		\$ 61,968			
Total Matching Fund	ds (Cash + In-K	(ind): \$ 7,575,058			

**Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: 30.26 %** 

### 1. Administrative and legal expenses - \$1,036,800

- Provide a breakout of position(s), time commitment(s) such as hours or level-ofeffort, and salary information/rates with a detailed explanation, and additional information as needed.

Administrative expenses are budgeted at \$1,036,800, for three labor categories. Program Manager will be roughly half-time over the two-and-a-half year project schedule (30 months); unit costs are based on procurement schedules. Project manager will be full-time for duration of project; again, unit costs are list prices. Financial analyst and compliance analyst will be responsible for financial controls, and satisfying compliance, reporting and other obligations imposed by acceptance of the BTOP grant.

Admin & Legal: Staff	Hours	Years	Rate	Total Cost
Program Manager	1,920	2.25	\$90 / hour	\$ 172,800
Project Manager	3,840	2.25	\$90 / hour	\$ 345,600



Financial Analyst / Compliance Analyst	5,760	2.25	\$90 / hour	\$518,400
TOTAL:				\$ 1, 036,800

Services to support legal, contract review and other administrative matters will be supported by existing District of Columbia staff.

#### - Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source.

No cash matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

# - Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source.

No in-kind matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

#### 2. Land, structure, rights-of-way, appraisals, etc. - \$ 0

In this CCI Application for DC-CAN, there are no project expenses assigned to "Land, Structure, Rightsof-Way, Appraisals, etc.".

#### 3. <u>Relocation expenses and payment - \$ 0</u>

In this CCI Application for DC-CAN, there are no project expenses assigned to "Relocation Expenses and Payments".

#### 4. Architectural and engineering fees - \$ 1,629,320

# - Provide description of estimated fees, rates, explanation of proposed services, and additional information as needed.

Architectural and Engineering Fees	Hours	Years	Rate	Total Cost
Engineering Services – services for fiber bundle installations, allocations	21,040	9.0	\$65 / hour	\$ 1,367,600
Network Configuration – configuration and implementation of base network infrastructure	450	0.25	\$90 / hour	\$ 40,500
Install DC-CAN DWDM Multiplexing Systems	10 instances	Not Applicable	\$15,000 / installation	\$ 150,000



<ul> <li>enable efficient fiber management and capacity management</li> </ul>				
Install DC-CAN MLPS Routers – support communications infrastructure	10 instances	Not Applicable	\$ 780 / installation	\$ 7,800
Install Wireless Core	5 instances	Not Applicable	\$624 / installation	\$ 3,120
Network Turn-up and Assurance	450	0.25	\$ 90 / hour	\$ 40,500
Network Testing	220	0.12	\$ 90 / hour	\$ 19,800
TOTAL:				\$ 1,629,320

Unit costs are based on contract rate schedules; work efforts are based on experience within DC-Net.

#### - Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source.

No cash matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

# - Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source.

No in-kind matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

### 5. Other architectural and engineering fees - \$ 0

In this CCI Application for DC-CAN, there are no project expenses assigned "Other Architectural and Engineering Fees".

### 6. Project inspection fees - \$ 1,816,750

# - Provide description of estimated fees, rates, explanation of proposed services, and additional information as needed.

Project Inspection Fees	Hours	Years	Rate	Total Cost
Verizon Inspectors	27950	13.0	\$ 65 / hour	\$ 1,816,750
TOTAL:				\$ 1,816,750

A core strategy of the DC-CAN proposal is the intent to run new fiber bundles only through existing Verizon conduit. This eliminates the need for new construction, minimizes service interruptions, and



eliminates disruption to environment. As DC-Net personnel (primarily contractors) will be installing new fiber, DC-CAN will arrange for Verizon inspectors to be on-site during fiber pulls, splices, etc., and to sign off that new infrastructure was successfully completed, and did not impact Verizon, or other, service. This expense funds those Verizon inspection efforts.

# - Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source.

No cash matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

# - Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source.

No in-kind matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

### 7. Site work - \$ 7,103,184

# - Provide description of estimated fees, rates, explanation of proposed services, and additional information as needed.

Site Work	Units	Years	Rate	Total Cost
Underground Fiber Installation	503,200	c. 14	\$ 8.24 / foot	\$ 4,146,368
Aerial Fiber Installation	318,250	c. 5	\$3.86 / foot	\$ 1,228,445
ISP Costs	66,900	c. 1.5	\$ 2.14 / foot	\$ 143,166
Fiber Splicing and Testing	581	c. 0.3	\$ 65 / hour	\$ 37,765
Install New DC-Net Sites	223	c. 0.5	\$ 3,780 / site	\$ 842,940
Upgrade Existing DC-Net Sites (underserved)	68	c. 0.2	\$ 1,280 / site	\$ 87,040
Upgrade Public Safety M-3,-4 Sites	71	c. 0.2	\$ 780 / site	\$ 55,380
Upgrade Existing DC-Net Model1 Hub Site	18	c. 0.4	\$ 4,560 / site	\$ 82,080
Install Hand-holes	60	c. 2.8	\$ 8,000 / unit	\$ 480,000
TOTAL:				\$ 7,103,184

Unit costs are based on contract rate schedules; work efforts are based on experience within DC-Net.



#### - Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source.

No cash matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

# - Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source.

No in-kind matching funds are committed for this expense category. It is entirely funded by BTOP grant money.

### 8. Demolition and Removal - \$ 0

In this CCI Application for DC-CAN, there are no project expenses assigned "Demolition and Removal Fees".

### 9. Construction - \$ 0

In this CCI Application for DC-CAN, there are no project expenses assigned to "Construction". All new fiber will be pulled through existing telecommunications conduits. All fiber equipment and installation costs are recorded under #7 – Site Work.

### 10. Equipment - \$ 13,369,978

# - Provide a list of equipment in the form of a table with description, number of units, unit cost, state whether it is being purchased or leased, and additional information as needed.

The following table lists all equipment for purchase for the DC-CAN project. All equipment will be purchased (none leased). All unit costs have either been sourced from Procurement Office, or obtained via quotation from supplying vendor.

Quantities were derived based on planned configuration for each site, multiplied by the number of sites (newly added; upgraded; etc). These site counts are based upon the planned set of Community Anchor Institutions, Points of Inter-Connections, and core DC-Net processing centers.

Total equipment cost is \$13,369,978.

Requested BTOP grants will fund \$ 5,871,888, and the remaining balance of \$ 7,498,090 will be funded by OCTO's cash match contribution. In the right hand column, the four sets of equipment which will be purchased using the District's Cash Match have "YES" in their cells, which are also colored yellow.

Equipment Type, Model	Unit Price	Quantity	Extended	Pricing Source	Cash Match
Cisco 3560 24 10/100 PoE + 2 SFP + IPS Image	\$5,790	291	\$1,684,890	DC cost per unit	Yes
GE SFP LC connector LX/LH transceiver (four)	\$565	1164	\$657,660	DC cost per unit	
Cisco 1520 Outdoor Series (w/ hardware)	\$3,500	291	\$1,018,500	DC cost per unit	
Chassis 4507R-E	\$5,497	3	\$16,491	DC cost per unit	
Supervisor (WS-X45-SUP6-E)	\$10,997	6	\$65,982	DC cost per unit	
IOS (S45EESK9-12250SG)	\$6,000	3	\$18,000	DC cost per unit	
48 Port PoE Blades (WS-X4648-RJ45V+E)	\$4,122	6	\$24,732	DC cost per unit	
SFP (GLC-LH-SM)	\$565	12	\$6,780	DC cost per unit	
Cisco 7606 redundant system 2RSP720-3CXL, 2PS	\$51,750	18	\$931,500	DC cost per unit	
48-port SFP Gigabit (two)	\$18,750	36	\$675,000	DC cost per unit	
48-port SFP FastEthernet (two)	\$6,750	36	\$243,000	DC cost per unit	
10GBASE-LR X2 Module (four)	\$3,000	72	\$216,000	DC cost per unit	
MPLS VPN: ASR 9010 (Super Core sites)	\$303,400	2	\$606,800	DC cost per unit	Yes
MPLS VPN: ASR-9006 (Core Sites)	\$249,550	8	\$1,996,400	DC cost per unit	Yes
DWDM: 10 sites 40-channel Ciena 4200 RS	\$321,000	10	\$3,210,000	DC cost per unit	Yes
Hubbell RE-BOX wall enclosure	\$357	223	\$79,611	DC cost per unit	
Patch Panel mounting bracket	\$40	223	\$8,920	DC cost per unit	
Equipment mounting bracket	\$46	223	\$10,258	DC cost per unit	
APC SMART UPS 1000 Rack Mount	\$507	223	\$113,061	DC cost per unit	
Network Management Card	\$224	223	\$49,952	DC cost per unit	
Mounting hardware/patch cord(s)/etc.	\$100	223	\$22,300	DC cost per unit	
Power (PWR-C45-1400DC-P)	\$960	6	\$5,760	DC cost per unit	
48-volt 155-aH battery string (two)	\$1,825	36	\$65,700	DC cost per unit	
Battery tray (two)	\$196	36	\$7,056	DC cost per unit	
Circuit Breaker 100-amp (5)	\$32	90	\$2,880	DC cost per unit	
48v 50amp rectifier module (two)	\$995	36	\$35,820	DC cost per unit	
Cisco 5500 Series Wireless Controller Redundant Power Supply	\$897	5	\$4,485	DC cost per unit	
Cisco 5508 Series Wireless Controller for up to 250 APs	\$38,997	5	\$194,985	DC cost per unit	
CAN Backbone Fiber Materials	\$2.10	303,250	\$636,825	Fiber bundles	
Access Loops	\$1.30	585,100	\$760,630	Fiber bundles	
TOTALS			\$13,369,978		
TOTAL BTOP Federal Grant				\$ 5,871,888	
TOTAL DC Cash Match				\$ 7,498,090	



#### - Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source.

\$ 7,498,090 in District of Columbia cash will be used as a matching contribution toward the DC-CAN project. The source of the funds will be District of Columbia Government.

# - Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source.

No in-kind matching funds are committed for this expense category. It is entirely funded by BTOP grant money, and by District of Columbia cash match, as indicated above.

#### 11. <u>Miscellaneous - \$ 76,968</u>

#### - Provide additional information as needed.

DC-CAN has accounted for three project cost items in its budget, as listed in the following table.

Miscellaneous	Hours	Years	Rate	Total Cost
BTOP Application and Proposal Preparation	536	0.25	\$ 115 / hour	\$ 61,640
Plug entry, to round proposal to nearest 000.				\$ 328
Policy and Procedure Changes to support ARRA / BTOP Compliance and Transparency obligations	200	0.10	\$ 75 / hour	\$ 15,000
TOTAL:				\$ 76,968

Re BTOP Application and Proposal Preparation, three contractors worked approximately four-and-ahalf weeks to construct the proposal and application. Estimated at 536 person hours, at a blended average cost of \$115 / hour, BTOP proposal development costs are estimated at \$61,640. This item is being classified as an in-kind match, and no BTOP funds will be used for this.

\$328 was added to the budget as a plug entry, to bring the project cost to an even thousand dollars. This, too, is being classified as an in-kind match, and no BTOP funds will be used for this.

Re Policy and Procedure Changes, in the event of a BTOP grant award, it is expected that changes will be required to support new financial controls, additional financial reports, quarterly submissions to Recovery.gov, and other compliance obligations associated with acceptance of a grant. District of Columbia estimates 200 hours at \$75 per hour, or \$15,000, to implement these changes. This item is being classified as a cash match, and no BTOP funds will be used for this.



#### - Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source.

The \$15,000 for Policy and Procedure Changes, to support implementation of ARRA and BTOP compliance and transparency efforts, are being classified as Cash Match. Source of these funds is the budget of the District of Columbia Office of the Chief Technology Officer (OCTO).

# - Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source.

The \$61,640 for the legitimate costs of the BTOP Application Preparation (from late January NOFA to submission) are being classified as in-kind matching funds. In addition, the \$328 plug entry is classified as in-kind matching, as well, for a total of \$61,968. Source of these funds is the budget of the District of Columbia Office of the Chief Technology Officer (OCTO).

### 13. Contingencies - \$ 0

In this CCI Application for DC-CAN, there are no project expenses assigned to "Contingencies".

#### 15. Project (program) income - \$0

In this CCI Application for DC-CAN, there is no program income expected, or recorded in this category.



Entire District

Underserved Service Area



### BTOP Comprehensive Community Infrastructure Service Area Template

Please complete the complete the CCI Service Area worksheet. In each line you will provide name of a service area and one of the contiguous Census tracts or block groups that make u service area. Please provide full 11-digit Census tract numbers, includes the 2-digit State FIF the 3-digit county code, followed by a unique 6-digit tract number. For Census block group: please provide the full tract number, plus the 1-digit block group number (12 digits total). If more than one Census tract or block group in a service area, there will be multiple lines in th for that service area. It is critical that the service area names provided in this table match w service area names provided in the Service Area Details page of the application. Please revie document and Service Area Details page for consistency before submitting your application.

Important Note: Excel truncates leading zeros from numbers. Consequently, the tract/block column on the worksheet has been formatted as text. This formatting should not be altered validity of your data may be compromised.

The data provided via this attachment will be subject to automated processing. Applicants a therefore required to provide this attachment as an Excel file, and not to convert it to a PDF submitting a copy of your application on an appropriate electronic medium, such as a DVD, (ROM, or flash drive. Additionally, Applicants should not modify the format of this file (*e.g.*, I adding or removing worksheets). Do not leave blank lines in the table between service area

Service Area Name	Tract or Block Group #
Big BB Project South	01001020100
Big BB Project South	01001020100
Big BB Project South	010010202001
Big BB Project West	01001020400
Big BB Project North	01001020800
Big BB Project North	010010209002

#### **EXAMPLE**

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are when CDby s.

#### **BTOP CCI Service Area Template**

Title: DC-Community Access Network Easy Grants ID: 5116

Tract or Block Group # Service Area Name Disadvantaged Wards 11001001701 Disadvantaged Wards 11001001801 Disadvantaged Wards 11001001803 11001001804 Disadvantaged Wards 11001001901 Disadvantaged Wards 11001002001 Disadvantaged Wards 11001002102 Disadvantaged Wards 11001002201 Disadvantaged Wards 11001002202 Disadvantaged Wards 11001002301 Disadvantaged Wards 11001002400 Disadvantaged Wards 11001002501 Disadvantaged Wards 11001002502 Disadvantaged Wards 11001002701 Disadvantaged Wards 11001002702 Disadvantaged Wards 11001002801 Disadvantaged Wards 11001002802 **Disadvantaged Wards** 11001002900 Disadvantaged Wards Disadvantaged Wards 11001003100 Disadvantaged Wards 11001003200 Disadvantaged Wards 11001003400 Disadvantaged Wards 11001003500 Disadvantaged Wards 11001003600 Disadvantaged Wards 11001006001 11001006002 Disadvantaged Wards Disadvantaged Wards 11001006100 11001006301 Disadvantaged Wards 11001006400 Disadvantaged Wards 11001006801 Disadvantaged Wards 11001006804 Disadvantaged Wards 11001007100 Disadvantaged Wards 11001007200 **Disadvantaged Wards** 11001007302 Disadvantaged Wards 11001007304 Disadvantaged Wards 11001007308 Disadvantaged Wards 11001007401 Disadvantaged Wards Disadvantaged Wards 11001007403 11001007404 **Disadvantaged Wards** 11001007406 Disadvantaged Wards 11001007407 Disadvantaged Wards 11001007408 Disadvantaged Wards 11001007409 Disadvantaged Wards Disadvantaged Wards 11001007503 Disadvantaged Wards 11001007504 Disadvantaged Wards 11001007601 Disadvantaged Wards 11001007603 11001007604 Disadvantaged Wards 11001007605 Disadvantaged Wards 11001007707 Disadvantaged Wards Disadvantaged Wards 11001007708 11001007709 Disadvantaged Wards 11001007803 Disadvantaged Wards 11001007804 **Disadvantaged Wards** 11001007806 Disadvantaged Wards 11001007807 Disadvantaged Wards 11001007808 Disadvantaged Wards 11001007809 **Disadvantaged Wards** 11001007901 Disadvantaged Wards 11001007903 Disadvantaged Wards 11001008402 Disadvantaged Wards 11001008701 Disadvantaged Wards 11001008702 Disadvantaged Wards 11001008802 Disadvantaged Wards Disadvantaged Wards 11001008803 Disadvantaged Wards 11001008804 Disadvantaged Wards 11001008903 Disadvantaged Wards 11001008904 11001008905 Disadvantaged Wards 11001009000 Disadvantaged Wards 11001009101 Disadvantaged Wards 11001009102 Disadvantaged Wards 11001009201 Disadvantaged Wards 11001009203 Disadvantaged Wards 11001009204 Disadvantaged Wards 11001009302 Disadvantaged Wards 11001009400 Disadvantaged Wards 11001009501 Disadvantaged Wards 11001009505 **Disadvantaged Wards** 11001009507 Disadvantaged Wards 11001009508 Disadvantaged Wards

Service Area Name	Tract or Block Group #
Disadvantaged Wards	11001009509
Disadvantaged Wards	11001009601
Disadvantaged Wards	11001009602
Disadvantaged Wards	11001009603
Disadvantaged Wards	11001009604
Disadvantaged Wards	11001009700
Disadvantaged Wards	11001009801
Disadvantaged Wards	11001009802
Disadvantaged Wards	11001009804
Disadvantaged Wards	11001009806
Disadvantaged Wards	11001009807
Disadvantaged Wards	11001009808
Disadvantaged Wards	11001009809
Disadvantaged Wards	11001009902
Disadvantaged Wards	11001009903
Disadvantaged Wards	11001009904
Disadvantaged Wards	11001009905
Disadvantaged Wards	11001009906
Disadvantaged Wards	11001009907

			511 DC Comm	I6-CCI DC-C unity Acces	AN s Network				Marc	h 24, 2010
ID	0	Task Name	Duration	Start	Finish	Predecessors	Jul 12, '09	Aug 23, '09	Oct 4, '09	Nov 1
1		5116-CCI DC-CAN COMPOSITE PROJECT PLAN	621 days	Mon 10/4/10	Mon 3/18/13	3				<u> </u>
2	1	DC-CAN Core Ring	621 days	Mon 10/4/10	Mon 3/18/13	3				
3		006-014	361 days	Mon 10/4/10	Tue 3/13/12	2				
4		006-014 Network Design	10 days	Mon 10/4/10	Fri 10/15/10	)				
5		006-014 Site Preparation	5 days	Mon 10/4/10	Fri 10/8/10	0 4SS				
6		006-014 Equipment Procurement	60 days	Mon 10/4/10	Thu 12/30/10	)				
7		006-014 ISP/Equipment Deployment	10 days	Mon 1/3/11	Fri 1/14/11	6				
8	<b>II</b> 🍥	006-014 OSP Deployment (Underground Survey	85 days	Mon 10/11/10	Mon 2/14/11	1				
9	<b>II</b> 🌮	006-014 OSP Deployment (Underground Buildou	340 days	Tue 10/19/10	Mon 2/27/12	2 8SS+5 days				
10		006-014 Network Testing and Turnup	10 days	Tue 2/28/12	Mon 3/12/12	2 7FS+2 days,9				
11	İ	006-014 Network Complete	1 day	Tue 3/13/12	Tue 3/13/12	2 10				
12	1	014-253	173 days	Mon 10/4/10	Mon 6/13/11					
13	İ	014-253 Network Design	10 days	Tue 10/19/10	Mon 11/1/10	) 4				
14	İ	014-253 Site Preparation	5 days	Tue 10/19/10	Mon 10/25/10	) 13SS,5				
15		014-253 Equipment Procurement	60 days	Mon 10/4/10	Thu 12/30/10	)				
16	1	014-253 ISP/Equipment Deployment	15 days	Tue 1/18/11	Mon 2/7/11	1 7,15				
17	1	014-253 OSP Deployment (Underground Survey	36 days	Fri 10/22/10	Tue 12/14/10	) 13SS+3 days				
18	1	014-253 OSP Deployment (Underground Placem	144 days	Fri 10/29/10	Thu 5/26/11	I 17SS+5 days				
19	1	014-253 Network Testing and Turnup	10 days	Fri 5/27/11	Fri 6/10/11	I 16FS+2 days,18				
20	İ	014-253 Network Complete	1 day	Mon 6/13/11	Mon 6/13/11	I 19				
21	İ	253-248	343 days	Mon 10/4/10	Thu 2/16/12	2				
22		253-248 Network Design	10 days	Tue 11/2/10	Mon 11/15/10	) 13	-			
23		253-248 Site Preparation	5 days	Tue 11/9/10	Mon 11/15/10	22SS+5 days,14	-			
24		253-248 Equipment Procurement	60 days	Mon 10/4/10	Thu 12/30/10	)				
25	1	253-248 ISP/Equipment Deployment	15 days	Mon 1/9/12	Mon 1/30/12	2 16,27FS-15 days				
26	1	253-248 OSP Deployment (Underground Survey	42 days	Wed 12/15/10	Tue 2/15/11	22SS+3 days,17				
27	1	253-248 OSP Deployment (Underground Placem	168 days	Fri 5/27/11	Mon 1/30/12	2 26SS+5 days,18	-			
28	1	253-248 Network Testing & Turnup	10 days	Thu 2/2/12	Wed 2/15/12	2 25FS+2 days	-			
29		253-248 Network Complete	1 day	Thu 2/16/12	Thu 2/16/12	2 28	-			
30		248-003	411 days	Tue 11/16/10	Fri 7/6/12	2	-			
39		003-405	396 days	Thu 12/2/10	Thu 6/28/12	2	-			
48		405-304	503 days	Thu 12/16/10	Wed 12/12/12	2				
57		304-415	413 days	Mon 1/3/11	Tue 8/21/12	2				
66		415-001	452 days	Tue 1/18/11	Tue 10/30/12	2				
75		001-028	509 days	Tue 2/1/11	Thu 1/31/13	3	_			
84		028-006	532 days	Mon 2/14/11	Mon 3/18/13	3	-			
93	1						-			
Projec Date: \	t: Comn Ved 3/2	hunity_Access_Network_ 14/10 Progress	Mile Sum Proj	stone o Imary u ect Summary	•	External T External M Deadline	asks 🧰 filestone 🔶 🖓	)		
				Page 1						FINAL

ID         Task Name         Duration         Start         Finish         Predecessore         Jul 12 08         Aug         Aug           94         DC-CAN Access Loops         552 days         Mon 104/10         Tue 1/12/12         12         30         17         4           95         Loop 250-234         111 days         Mon 104/10         Tue 1/12/12         17         4           96         250-234 Step Preparation         24 days         Won 104/10         Tue 1/12/110         17         4           97         260-234 Equipment Procurement         60 days         Mon 104/10         Tue 1/12/10         18         17         14           98         250-234 Step Preparation         24 days         Wod 10/1/10         Tue 2/1/11         10         12         252-234 Network Complete         14 day         Yue 3/1/11         Tue 3/1/11         17         48         49         Wod 11/2/10         12         20         252-234 Network Complete         10 days         Mon 10/4/10         Tue 2/1/11         10         12         20         252-234 Network Complete         10 days         Mon 10/4/10         Tue 2/1/11         10         10         250-234 Network Complete         10 days         Mon 10/4/10         Tue 2/1/11         10 <t< th=""><th></th><th></th><th></th><th>511 DC Comm</th><th>16-CCI DC-C nunity Acces</th><th>AN s Network</th><th></th><th></th><th></th><th></th><th></th><th></th><th>March</th><th>24, 2010</th></t<>				511 DC Comm	16-CCI DC-C nunity Acces	AN s Network							March	24, 2010
94         DC-CAN Access Loops         542 days         Mon 10/4/10         Tue 11/27/12           95         Loop 250-234         111 days         Mon 10/4/10         Tue 31/5/11           96         12         250-234 Step Proparation         24 days         Mon 10/4/10         Fin 11/5/10           97         250-234 Step Proparation         24 days         Wed 10/6/10         Fin 11/5/10         Step 20/234 Step 20/234 Step Proparation         24 days         Wed 10/6/10         Tue 11/3/10/96S5+2 days           98         250-234 Step Proparation         24 days         Mon 10/4/10         Tue 11/3/10/96S5+2 days           99         250-234 Network Testing & Turup         48 days         Wed 10/6/10         Tue 12/7/10           101         250-234 Network Testing & Turup         48 days         Mon 10/4/10         Tue 37/5/11         Tue 37/5/11           103         Loop 060-066         101 days         Mon 10/4/10         Tue 11/2/10/96S         Tue 37/5/11         Tue 37/5/11           104         006-006 Ste Proparation         13 days         Mon 10/4/10         Tue 11/3/10/96         Step 3 days,           106         006-006 Step Proparation         13 days         Mon 10/4/10         Tue 11/3/10/96         Step 3 days,           104         006-006 Step Proparation <th>ID</th> <th>8</th> <th>Task Name</th> <th>Duration</th> <th>Start</th> <th>Finish</th> <th>Predecessors</th> <th>Jul 12,</th> <th>09</th> <th>Auc</th> <th>23, '09</th> <th>Oct 4</th> <th>, '09</th> <th>Nov 1</th>	ID	8	Task Name	Duration	Start	Finish	Predecessors	Jul 12,	09	Auc	23, '09	Oct 4	, '09	Nov 1
S         Loop 250-234         111 days         Mon 10/4/10         Tue 3/15/11           96         III days         Mon 10/4/10         Tue 3/15/11         Tue 3/15/11           97         250-234 bite Preparation         24 days         Wed 106/10         Tue 11/3/10/09655+2 days           98         250-234 Lip/Engliment Deployment         12 days         Mon 10/4/10         Tue 3/15/11           99         250-234 USP Engliment Deployment         12 days         Mon 13/11         Wed 11/3/11/91           100         III days         Mon 10/4/10         Tue 12/7/10         Tue 12/7/10           101         250-234 Userwick Complete         1 day         Tue 3/15/11         Tue 3/15/11           102         250-234 Network Complete         1 day         Tue 3/15/11         Tue 3/15/11           102         250-234 Network Complete         1 day         Tue 3/15/11         Tue 3/15/11           103         Loop 006-006         Streparation         13 days         Mon 10/4/10         Tue 11/30/10           104         006-006 Network Design         13 days         Mon 10/4/10         Tue 11/30/10         Tue 3/1/11           105         006-006 SPD Engloyment (Anerayound Survey)         1 days         Mon 10/4/10         Tue 11/30/10         10/35/5-3 days	94	•	DC-CAN Access Loons	542 days	Mon 10/4/10	Tue 11/27/12		12	30		4	   10	)   28	15
96         250-234Network Design         24 days         Mon 10/4/10         Fri 11/5/10           97         250-234 Site Preparation         24 days         Wed 10/6/10         Tue 11/9/10/9658-2 days           98         250-234 Site Preparation         24 days         Wed 10/6/10         Tue 11/9/10/9658-2 days           99         250-234 Site Preparation         12 days         Mon 10/4/10         Tue 11/9/10/9658-2 days           100         250-234 Network Testing & Turup         48 days         Wed 10/6/10         Tue 31/5/11           101         250-234 Network Complete         11 day         Tue 31/5/11         Tue 31/5/11           102         250-234 Network Complete         10 days         Mon 10/4/10         Tue 31/5/11           103         Loop 006-06         101 days         Mon 10/4/10         Tue 31/5/11           104         006-006 Site Preparation         13 days         Wed 12/2/10         Tue 31/5/11           105         006-006 Site Deployment / Advisor         Tue 31/5/11         Tue 31/5/11         Tue 31/5/11           106         006-006 Site Deployment / Advisor         Tue 31/5/11         Tue 31/5/11         Tue 31/5/11           107         006-006 Site Deployment (Advisor         Tue 31/5/11         Tue 31/5/2/11         Tue 31/5/2/11	95		L oon 250-234	111 days	Mon 10/4/10	Tue 3/15/11		-						
97       250-234 Site Preparation       24 days       Wed 10/6/10       Tue 11/9/10 96SS+2 days         98       250-234 SiP/Equipment Procurement       60 days       Mon 10/4/10       Tue 32/0/10         99       250-234 SiP/Equipment Deployment (Aeria)       39 days       Mon 10/4/10       Wed 10/9/11       Wed 10/9/11         100       250-234 Network Cesting & Turnup       48 days       Wed 10/6/10       Tue 3/15/11       Tue 3/15/11       Tue 3/15/11         101       250-234 Network Cesting & Turnup       48 days       Wed 10/6/10       Tue 3/15/11       Tue 3/15/11         102       250-234 Network Cesting       13 days       Mon 10/4/10       Tue 3/15/11       Tue 3/15/11         103       Loop 006-006       Hold work Cesting       13 days       Mon 10/4/10       Tue 11/2/10/06         104       006-006 Rispreparation       13 days       Mon 10/4/10       Tue 11/2/10/10 (JASS+2 days         106       006-006 OSP Deployment (Inderground Placer       14 days       Tue 11/2/10       Tue 11/2/10/10 (JASS+4 days         107       006-006 Network Cesti & Turnup       26 days       Mon 10/4/10       Tue 3/2/11 (JOSS+7 days         108       006-006 Network Cestis & Turnup       26 days       Mon 12/4/11       Mon 12/4/11       Mon 12/4/11         1	96	<b></b>	250-234Network Design	24 days	Mon 10/4/10	Eri 11/5/10	)	-						
98       250-234 Equipment Procurement       60 days       Mon 104/10       Thu 12/30/10         99       250-234 ISP/Equipment Deployment       12 days       Mon 101/11       Wed 1/1911       Wed 1/1911         101       250-234 Network Testing & Tumup       48 days       Wed 1/5/11       Mon 31/4/198552 days         102       250-234 Network Complete       1 day       Mon 101/10       Tue 37/10       Tue 37/11         103       Loop 006-006       101 days       Mon 104/10       Tue 37/11       Tue 37/11         104       000-006 Network Design       13 days       Mon 104/10       Tue 1/13/10       Not 1/12/10       Not 1/12/11       Not 1/12/10       Not 1/12/11       Not 1/12/11       Not 1/11       No	97		250-234 Site Preparation	24 days	Wed 10/6/10	Tue 11/9/10	96SS+2 days	-						
99       250-234 ISP/Equipment Deployment       12 days       Mon 1/3/11       Wed 1/19/11 98         100       250-234 OSP Deployment (Aeria)       39 days       Mon 10/3/11       Tue 12/7/10         101       250-234 Network Testing & Turupp       44 days       Wed 1/5/11       Mon 10/3/11       Tue 3/16/11         102       250-234 Network Complete       1 day       Tue 3/16/11       Tue 3/16/11       Tue 3/16/11         103       Loop 006-006       101 days       Mon 10/4/10       Tue 3/16/11       Tue 3/16/11         104       006-006 Site Preparation       13 days       Mon 11/8/10       Wed 1/29/10       Tue 11/32/10         105       006-006 Site Preparation       13 days       Mon 10/4/10       Tue 11/32/10       Tue 11/32/10         107       006-006 Site Preparation       13 days       Mon 10/4/10       Tue 11/32/10       Tue 11/32/10         108       006-006 Site Preparation       15 days       Wed 12/29/10       Tue 11/32/10       Tue 11/32/10       Tue 11/32/10         110       006-006 Site Preparation       16 days       Tue 11/22/10       Tue 11/32/10       Tue 11/32/10       Tue 11/32/10         110       006-006 Site Preparation       14 days       Tue 11/32/10       Tie 11/32/10       Tie 11/32/10       Tie 11	98		250-234 Equipment Procurement	60 days	Mon 10/4/10	Thu 12/30/10		-						
100         1250-234 OSP Deployment (Aerial)         19 days         Mon 10/11/10         Tue 127/10           101         250-234 Network Testing & Turnup         48 days         Wed 1/5/11         Mon 3/4/11 (1955+2 days)           102         250-234 Network Complete         1 day         Tue 3/15/11         Tue 3/15/11         Tue 3/15/11           103         Loop 006-006         101 days         Mon 10/4/10         Tue 3/15/11         Tue 3/15/11           104         006-006 Network Complete         1 day         Mon 10/4/10         Tue 3/15/11         Tue 3/15/11           105         006-006 Site Preparation         13 days         Mon 10/4/10         Tue 1/3/0/10         10455+2 days           106         006-006 SSP Deployment (Aerial)         15 days         Wed 11/2/10         Tue 11/3/0/10         10455+3 days           107         006-006 OSP Deployment (Underground Placen         4 days         Tue 11/2/10         Tue 11/3/0/10         100455+2 days           110         006-006 Network Test & Turnup         28 days         Mon 10/4/10         Tue 3/16/11         111           108         006-006 Network Complete         1 day         Mon 10/4/10         Tue 3/1/11         111           111         006-006 Network Complete         1 day         Mon 10/4/10	99		250-234 ISP/Equipment Deployment	12 days	Mon 1/3/11	Wed 1/19/11	98	-						
101         250-234 Network Testing & Turnup         48 days         Wed 1/5/11         Mon 3/14/1 (19SS+2 days)           102         250-234 Network Complete         1 day         Tue 3/15/11         Tue 11/30/10 (04SS+2 days)           106         006-006 OSP Deployment (Dederground Survey         11 days         Fri 11/22/10         Tue 11/30/10 (04SS+2 days)         Tue 11/30/10 (04SS+2 days)         Tue 3/11/11         Tue 3/11/11 <td>100</td> <td><b>TT</b> 🚳</td> <td>250-234 OSP Deployment (Aerial)</td> <td>39 days</td> <td>Mon 10/11/10</td> <td>Tue 12/7/10</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	100	<b>TT</b> 🚳	250-234 OSP Deployment (Aerial)	39 days	Mon 10/11/10	Tue 12/7/10		-						
102       250-234 Network Complete       104 days       Tue 3/15/11       Tue 3/15/11       101 days         103       Loop 006-006       101 days       Mon 11/8/10       Tue 3/15/11       101         104       006-006 Network Design       13 days       Mon 11/8/10       Tue 3/15/11       101         105       006-006 Equipment Procurement       60 days       Mon 11/8/10       Tue 11/23/10       104SS+2 days         106       006-006 CSP Deployment (Aerial)       15 days       Wed 12/8/10       Wed 12/8/10       100.104SS+3 days         107       006-006 OSP Deployment (Aerial)       15 days       Tue 11/23/10       Tue 11/23/10       100.45S+3 days         110       006-006 OSP Deployment (Aerial)       15 days       Tue 11/23/10       Tue 11/23/10       104SS+4 days         111       006-006 Network Test & Turnup       26 days       Mon 10/4/10       Tue 3/1/11       109SS+7 days         112       006-006 Network Complete       1 day       Tue 11/23/10       Tue 3/1/11       Tue 3/1/11         123       Loop 206-251       95 days       Mon 10/4/10       Tue 3/1/11       Tue 3/1/11         133       Loop 006-261       95 days       Mon 10/4/10       Tue 3/1/11       Tue 3/1/11         134       Loop 248-	100		250-234 Network Testing & Turnun	48 days	Wed 1/5/11	Mon 3/14/11	9955+2 davs							
103         Loop 00-006         101 days         Mon 104/10         Tue 3/1/11           104         006-006         New ork Design         13 days         Mon 104/10         Tue 3/1/11           105         006-006         Expegatation         13 days         Wed 111/0/10         Tue 11/2/10         96           106         006-006         Expegatation         13 days         Wed 11/0/10         Tue 11/2/11         Fri 12/2/11         91,05FS-3 days,           107         006-006         DSP Deployment (Areial)         15 days         Wed 12/2/10         Wed 12/2/10         100,104SS+3 days           108         006-006         OSP Deployment (Underground Placem         44 days         Tue 11/2/10         Tue 11/3/0/10         1004SS+4 days           111         006-006         Non 10/4/10         Fri 12/2/11         Mon 10/4/10         Mon 12/2/11         1004SS+4 days           1111         006-006         Non 10/4/10         Mon 12/2/11         Mon 10/4/10         Mon 2/2/11         1075S+2 days           1112         006-006         Non 10/4/10         Mon 10/4/10         Mon 2/2/11         1075S+2 days           112         006-006         Non 10/4/10         Mon 10/4/10         Mon 10/4/10         Med 2/9/11           113	102		250-234 Network Complete	1 day	Tue 3/15/11	Tue 3/15/11	101	-						
100       100       days       Mon 104/10       View 11/12/10         104       006-006 Network Design       13 days       Mon 11/8/10       Wed 11/10/10       Tue 11/30/10       104SS+2 days         106       006-006 Equipment Procurement       60 days       Mon 10/4/10       Tue 11/30/10       104SS+2 days         107       006-006 Equipment Deployment       7 days       Thu 1/20/11       Fi 1/22/11       9.105FS-3 days         108       006-006 OSP Deployment (Underground Survey       11 days       Fii 11/12/10       Wed 12/8/10       104SS+4 days         110       006-006 OSP Deployment (Underground Placem       44 days       Tue 11/32/10       106SS+4 days         111       006-006 OSP Deployment (Underground Placem       44 days       Tue 11/11       110       110         112       006-006 Network Complete       1 day       Tue 31/11       Tue 31/211       111         113       Loop 006-251       85 days       Mon 10/4/10       Tue 32/9/11       113         133       Loop 006-261       95 days       Mon 13/11       Wed 31/4/12       111         113       Loop 006-251       95 days       Mon 13/11       Wed 32/9/11       112         162       Loop 248-225       302 days       Mon 13/111	102			101 days	Mon 10/4/10	Tue 3/1/11	101	_						
104       000-000 Network Design       13 days       Wed 11/2/10       Tue 11/23/10       104 No 11/24         105       006-006 Equipment Procurement       60 days       Mon 10/4/10       Tue 12/30/10       104SS+2 days         106       10       006-006 ISP/Equipment Deployment       7 days       Thu 1/20/11       Fri 1/28/11       19.105FS-3 days,         108       006-006 OSP Deployment (Aerial)       15 days       Wed 12/4/10       Wed 12/4/10       Ved 12/4/10         109       006-006 OSP Deployment (Underground Placem       44 days       Tue 11/32/10       Tue 11/32/10       Tue 11/32/10         111       006-006 Network Complete       1 day       Tue 3/1/11       Tue 3/1/11       Mon 10/4/10       Wed 2/28/11         112       006-006 Network Complete       1 day       Tue 3/1/11       Tue 3/29/11       Tue 3/29/11         113       Loop 006-251       95 days       Mon 1/3/11       Wed 12/21/10       Tue 3/29/11         133       Loop 006-251       95 days       Mon 1/3/11       Wed 2/21/11       Tue 3/21/11         143       Loop 228-354       113 days       Mon 1/3/11       Wed 1/24/12       True 3/2/11         152       Loop 248-225       302 days       Fri 3/4/11       Tue 12/2/12       True 3/2/11     <	103		006 006 Notwork Docign	12 days	Mon 11/8/10	Wod 11/24/10	06	-						
105       006-006 SuP peployment Procurement       15 days       Mon 10/4/10       Thu 1/20/11       Fin 1/28/11       106-005       Support         107       006-006 ISP/Equipment Deployment       7 days       Thu 1/20/11       Fin 1/28/11       100-005-83 days.         108       006-006 OSP Deployment (Linderground Survey       11 days       Fin 1/12/10       Tue 11/23/10       100-104SS+3 days.         109       006-006 OSP Deployment (Underground Survey       11 days       Fin 1/12/10       Tue 11/23/10       Fin 1/28/11       109SS+7 days         110       006-006 Network Test & Turnup       26 days       Mon 1/24/11       Mon 2/28/11       100-05/52-2 days         111       006-006 Network Test & Turnup       26 days       Mon 1/24/11       Mon 2/28/11       107SS+2 days         112       006-006 Network Test & Turnup       26 days       Mon 1/24/11       Wed 2/9/11       111         113       Loop 006-252       87 days       Mon 1/3/11       Wed 6/29/11       111         113       Loop 006-007       125 days       Mon 1/3/11       Wed 6/29/11       111         1143       Loop 048-225       302 days       Fin 3/4/11       Thu 2/2/12       111         1152       Loop 248-248       101 days       Fin 3/4/11       Thu	104			13 days	Wed 11/10/10	Tuo 11/24/10	10455+2 dovo	_						
106       ■       000-005 Equipment       00 days       Non 10/2/10       Fit 128/11 99:105FS-3 days;         107       006-006 OSP Deployment (Aerial)       15 days       Wed 12/2/10       Tot 11/2/11 99:105FS-3 days;         108       006-006 OSP Deployment (Underground Survey)       11 days       Fit 11/12/10       Tut 11/30/10       104SS+7 days         110       006-006 OSP Deployment (Underground Placen       44 days       Fit 11/12/10       Tut 11/30/10       104SS+7 days         111       006-006 Network Test & Turnup       26 days       Mon 1/2/41       Mon 228/11       107SS+2 days         112       006-006 Network Complete       1 day       Tut 31/10       Wed 229/11       107SS+2 days         123       Loop 006-251       87 days       Mon 10/4/10       Wed 29/11       113         133       Loop 006-07       125 days       Mon 1/3/11       Mon 6/13/11       108 days         142       Loop 248-245       302 days       Mon 1/3/11       Wed 31/4/12       112         152       Loop 0248-245       302 days       Mon 1/3/11       Wed 31/4/12       113         152       Loop 248-246       101 days       Fri 3/4/11       Tut 22/2/12       114         162       Loop 248-246       101 days <td< td=""><td>105</td><td></td><td>000-000 Sile Preparation</td><td>13 days</td><td>Wed 11/10/10</td><td>Tue 11/30/10</td><td>10455+2 days</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	105		000-000 Sile Preparation	13 days	Wed 11/10/10	Tue 11/30/10	10455+2 days	_						
107       0.00-000 ISP/Edupment Deployment       7 days       Thu 1/20/11       Fri 1/28/11       99/105-53 days;         108       0.00-006 OSP Deployment (Underground Survey       11 days       Fri 11/12/10       Tue 11/30/10       104SS+4 days         110       0.06-006 OSP Deployment (Underground Placen       44 days       Tue 11/23/10       Fri 1/28/11       109SS+7 days         111       0.06-006 Network Test & Turnup       26 days       Mon 10/4/10       Tue 3/1/11       Tue 3/1/11         112       0.06-006 Network Complete       1 day       Tue 3/1/11       Tue 3/1/11       Tue 3/1/11         112       0.06-006 Network Complete       1 21 days       Mon 10/4/10       Wed 2/9/11         113       Loop 006-252       87 days       Mon 10/4/10       Wed 3/29/11         133       Loop 006-251       95 days       Mon 1/3/11       Wed 6/29/11         143       Loop 0248-225       302 days       Mon 1/3/11       Wed 3/1/12         152       Loop 248-226       302 days       Fri 3/4/11       Wed 3/21/11         162       Loop 248-226       302 days       Fri 3/4/11       Wed 3/14/12         172       Loop 248-248       101 days       Fri 3/4/11       Wed 3/14/12         181       Loop 248-248	106		006-006 Equipment Procurement	60 days	Mon 10/4/10	Thu 12/30/10								
108         006-006 OSP Deployment (Anena)         15 days         Wed 12/29/10         Oved 12/29/11         Oved 12/28/11         IOOSS+7 days           111         006-006 Network Complete         1 day         Tue 3/1/11         Tue 3/1/11         Tue 3/1/11         Tue 3/29/11         IOVED 32/28/11         IOVED 32/28/11<	107	-	006-006 ISP/Equipment Deployment	7 days	Thu 1/20/11	Fri 1/28/11	99,105FS-3 days,	_						
109       006-006 OSP Deployment (Underground Survey       11 days       Fri 11/30/10       104SS+4 days         110       006-006 OSP Deployment (Underground Placen       44 days       Tue 11/23/10       Fri 128/11       109SS+7 days         111       006-006 Network Test & Turrup       26 days       Mon 124/11       Mon 228/11       107SS+2 days         112       006-006 Network Complete       1 day       Tue 3/1/11       Tue 3/1/11       Tue 3/1/11         113       Loop 006-251       87 days       Mon 10/4/10       Wed 2/9/11         133       Loop 006-251       95 days       Mon 13/11       Tue 3/1/11       Tue 3/1/11         143       Loop 006-007       125 days       Mon 13/11       Wed 6/29/11         152       Loop 248-225       302 days       Mon 13/11       Wed 6/29/11         162       Loop 248-225       302 days       Fri 3/4/11       Wed 7/27/11         172       Loop 248-225       302 days       Fri 3/4/11       Wed 1/2/12         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12         191       PtP Network Design       42 days       Thu 7/7/11       Fri 8/2/11       192S         193       PtP DSP Deployment Procurement       60 days <t< td=""><td>108</td><td><b>1</b></td><td>006-006 OSP Deployment (Aerial)</td><td>15 days</td><td>Wed 12/8/10</td><td>Wed 12/29/10</td><td>100,104SS+3 day</td><td>{ </td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	108	<b>1</b>	006-006 OSP Deployment (Aerial)	15 days	Wed 12/8/10	Wed 12/29/10	100,104SS+3 day	{ 						
110       006-006 OSP Deployment (Underground Placerr       44 days       Tue 11/23/10       Fit 1/28/11 [09SS+7 days         111       006-006 Network Test & Turnup       26 days       Mon 1/24/11       Mon 2/28/11       Int 75S+2 days         112       006-006 Network Complete       1 day       Tue 31/11       Tue 31/11       Tue 32/11       Int 32/11       Tue 31/11       Tue 31/11       Int 32/11       Int 32	109	<u></u>	006-006 OSP Deployment (Underground Surv	rey 11 days	Fri 11/12/10	Tue 11/30/10	104SS+4 days	_						
111       006-006 Network Test & Turrup       26 days       Mon 1/24/11       Mon 2/28/11       107/55+2 days         112       006-006 Network Complete       1 day       Tue 3/1/11       Tue 3/1/11       111         113       Loop 006-252       87 days       Mon 10/4/10       Wed 2/9/11       111         123       Loop 355-256       121 days       Mon 13/11       Tue 3/29/11       111         133       Loop 006-251       95 days       Mon 13/11       Tue 5/17/11       111         143       Loop 022-354       113 days       Mon 13/11       Wed 6/29/11       111         152       Loop 248-225       302 days       Fri 3/4/11       Wed 3/14/12       112         172       Loop 248-248       101 days       Fri 3/4/11       Tue 11/27/12       1182         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12       1192         191       PtP Network Design       42 days       Tuu 7/7/11       Fri 9/2/11       182         192       PtP Site Preparation       42 days       Tuu 7/7/11       Fri 9/2/11       192         193       PtP DSP Deployment Acrial)       5 days       Wed 6/15/11       Tue 6/2/1/11 Tr7       196       PtP OSP Deployment (Acria	110	<b>(</b>	006-006 OSP Deployment (Underground Plac	en 44 days	Tue 11/23/10	Fri 1/28/11	109SS+7 days							
112       006-006 Network Complete       1 day       Tue 3/1/11       Tue 3/1/11       Tue 3/1/11         113       Loop 006-252       87 days       Mon 10/4/10       Wed 2/9/11         123       Loop 355-256       121 days       Mon 10/4/10       Tue 3/2/11         133       Loop 006-251       35 days       Mon 1/3/11       Tue 5/17/11         143       Loop 006-007       125 days       Mon 1/3/11       Wed 6/29/11         152       Loop 248-225       302 days       Mon 1/3/11       Wed 3/1/4/12         172       Loop 248-225       302 days       Fri 3/4/11       The 1/27/12         181       Loop 003       230 days       Fri 3/4/11       Tue 11/27/12         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12         191       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 5/27/11         193       PtP Equipment Procurement       60 days       Fri 7/27/12       Fri 3/4/11       Tue 6/21/11         194       PtP SP/Equipment Opeloyment       21 days       Fri 7/27/12       Fri 8/2/12       192Fs-3 days, 193         195       PtP OS	111		006-006 Network Test & Turnup	26 days	Mon 1/24/11	Mon 2/28/11	107SS+2 days							
113       Loop 006-252       87 days       Mon 10/4/10       Wed 2/9/11         123       Loop 0355-256       121 days       Mon 10/4/10       Tue 3/29/11         133       Loop 006-251       95 days       Mon 1/3/11       Tue 5/17/11         143       Loop 006-007       125 days       Mon 1/3/11       Wed 6/29/11         152       Loop 222-354       113 days       Mon 1/3/11       Wed 6/29/11         162       Loop 03-003       230 days       Fri 3/4/11       Wed 7/27/11         172       Loop 03-003       230 days       Fri 3/4/11       The 2/2/12         190       Point to Point       42 days       Thu 7/7/11       Fri 9/2/11 182         192       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11 182         193       PtP Equipment Procurement       60 days       Fri 7/27/12       Fri 8/24/12 192FS-3 days,193         194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12 192FS-3 days,193         195       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/31/12       Mon 11/26/12 192FS-3 days,193         196       PtP OSP Deployment (Underground Placement)       264 days       Tue 7/31/12       Mon 11/26/12 194SS+2 days,197	112		006-006 Network Complete	1 day	Tue 3/1/11	Tue 3/1/11	111							
123       Loop 355-256       121 days       Mon 10/4/10       Tue 3/29/11         133       Loop 006-251       95 days       Mon 1/3/11       Tue 5/17/11         143       Loop 006-007       125 days       Mon 1/3/11       Wed 6/29/11         152       Loop 222-354       113 days       Mon 1/3/11       Mod 7/27/11         162       Loop 248-225       302 days       Mon 1/3/11       Wed 3/14/12         172       Loop 03-003       230 days       Fri 3/4/11       Thu 2/2/12         190       Point to Point       439 days       Fri 3/4/11       Thu 2/2/12         190       Point to Point       42 days       Thu 7/7/11       Fri 9/2/11         191       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 3/2/11         193       PtP Equipment Procurement       60 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         194       PtP ISP/Equipment Deployment       21 days       Thu 7/7/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 8/21/12       194SS+7 days         197	113		Loop 006-252	87 days	Mon 10/4/10	Wed 2/9/11								
133       Loop 006-251       95 days       Mon 1/3/11       Tue 5/17/11         143       Loop 006-007       125 days       Mon 1/3/11       Wed 6/29/11         152       Loop 222-354       113 days       Mon 1/3/11       Wed 6/29/11         162       Loop 248-225       302 days       Mon 1/3/11       Wed 3/14/12         172       Loop 248-248       101 days       Fri 3/4/11       Wed 7/27/11         181       Loop 003-003       230 days       Fri 3/4/11       Tue 1/1/27/12         190       Point to Point       439 days       Fri 3/4/11       Tue 1/1/27/12         191       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11       182         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 9/2/11       191S         193       PtP CSP Deployment Procurement       60 days       Fri 3/4/11       Fri 5/27/11         194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         195       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/2/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Placement)       264 days       Tue 7/31/12       Mon 11/	123		Loop 355-256	121 days	Mon 10/4/10	Tue 3/29/11								
143       Loop 006-007       125 days       Mon 1/3/11       Wed 6/29/11         152       Loop 222-354       113 days       Mon 1/3/11       Mon 6/13/11         162       Loop 248-225       302 days       Mon 1/3/11       Wed 3/14/12         172       Loop 003-003       230 days       Fri 3/4/11       Wed 7/27/12         181       Loop 003-003       230 days       Fri 3/4/11       Thu 2/2/12         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12         191       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11       182         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 9/2/11       191S         193       PtP Equipment Procurement       60 days       Fri 3/4/11       Tue 1/1/27/12       192/5-3 days,193         195       PtP OSP Deployment (Linderground Survey)       66 days       Tue 7/26/11       110 10/27/11       186,191SS+4 day:         196       PtP OSP Deployment (Underground Placement)       264 days       Tue 7/36/11       Tue 6/2/11       147/2       195/5+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,199         199	133		Loop 006-251	95 days	Mon 1/3/11	Tue 5/17/11								
152       Loop 222-354       113 days       Mon 1/3/11       Mon 6/13/11         162       Loop 248-225       302 days       Mon 1/3/11       Wed 3/14/12         172       Loop 248-248       101 days       Fri 3/4/11       Wed 7/27/11         181       Loop 003-003       230 days       Fri 3/4/11       Thu 2/2/12         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12         191       PtP Network Design       42 days       Thu 7/711       Fri 9/2/11       182         192       PtP Site Preparation       42 days       Thu 7/711       Fri 9/2/11       191S         193       The PtP Equipment Procurement       60 days       Fri 7/27/12       Fri 8/2/12       192FS-3 days,193         193       PtP Equipment Deployment       21 days       Fri 7/27/12       Fri 8/2/11       192S/2       192FS-3 days,193         194       PtP SP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/2/11       192FS-3 days,193         195       PtP OSP Deployment (Aerial)       5 days       Tue 7/2/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/3/12       Mon 11/26/12       194SS+2 days,193	143		Loop 006-007	125 days	Mon 1/3/11	Wed 6/29/11								
162       Loop 248-225       302 days       Mon 1/3/11       Wed 3/14/12         172       Loop 248-248       101 days       Fri 3/4/11       Wed 7/27/11         181       Loop 003-003       230 days       Fri 3/4/11       Thu 2/2/12         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12         191       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 9/2/11         192       PtP Equipment Procurement       60 days       Fri 3/4/11       Fri 5/27/12         194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         195       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         196       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196Ss+7 days         197       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194Ss+2 days,193         198       PtP Network Complete       1 day       Tue 7/31/12       Mon 11/26/12       194Ss+2 days,193         199       PtP N	152		Loop 222-354	113 days	Mon 1/3/11	Mon 6/13/11								
172       Loop 248-248       101 days       Fri 3/4/11       Wed 7/27/11         181       Loop 003-003       230 days       Fri 3/4/11       Thu 2/2/12         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12         191       Pto Network Design       42 days       Thu 7/7/11       Fri 9/2/11       182         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 5/27/11       191SS         193       PtP Equipment Procurement       60 days       Fri 3/4/11       Fri 5/27/11       191SS         194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days, 193         195       PtP OSP Deployment (Aerial)       5 days       Wed 6/15/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,19:         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11	162		Loop 248-225	302 days	Mon 1/3/11	Wed 3/14/12								
181       Loop 003-003       230 days       Fri 3/4/11       Thu 2/2/12         190       Point to Point       439 days       Fri 3/4/11       Tue 11/27/12         191       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11       182         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 9/2/11       191SS         193       PtP Equipment Procurement       60 days       Fri 3/4/11       Fri 5/27/11         194       PtP Size Preparation       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         195       PtP OSP Deployment (Aerial)       5 days       Wed 6/15/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Tue 7/31/12       Mon 11/26/12       194Ss+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194Ss+2 days,193         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198	172		Loop 248-248	101 days	Fri 3/4/11	Wed 7/27/11		-						
190Point to Point439 daysFri 3/4/11Tue 11/27/12191PtP Network Design42 daysThu 7/7/11Fri 9/2/11182192PtP Site Preparation42 daysThu 7/7/11Fri 9/2/11191SS193PtP Equipment Procurement60 daysFri 3/4/11Fri 5/27/11194PtP ISP/Equipment Deployment21 daysFri 7/27/12Fri 8/24/12192FS-3 days,193195PtP OSP Deployment (Aerial)5 daysWed 6/15/11Tue 6/21/11177196PtP OSP Deployment (Underground Survey)66 daysTue 7/26/11Thu 10/27/11186,191SS+4 day:197PtP OSP Deployment (Underground Placement)264 daysThu 8/4/11Tue 8/21/12196SS+7 days198PtP Network Test & Turnup84 daysTue 7/31/12Mon 11/26/12194SS+2 days,193199PtP Network Complete1 dayTue 11/27/12Tue 11/27/12198	181		Loop 003-003	230 days	Fri 3/4/11	Thu 2/2/12	2							
191       PtP Network Design       42 days       Thu 7/7/11       Fri 9/2/11       182         192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 9/2/11       191SS         193       PtP Equipment Procurement       60 days       Fri 3/4/11       Fri 5/27/11         194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         195       PtP OSP Deployment (Aerial)       5 days       Wed 6/15/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/41/1       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,197         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198	190		Point to Point	439 days	Fri 3/4/11	Tue 11/27/12	2							
192       PtP Site Preparation       42 days       Thu 7/7/11       Fri 9/2/11       191SS         193       PtP Equipment Procurement       60 days       Fri 3/4/11       Fri 5/27/11         194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         195       PtP OSP Deployment (Aerial)       5 days       Wed 6/15/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,193         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198	191		PtP Network Design	42 days	Thu 7/7/11	Fri 9/2/11	182	-						
193       Image: PtP Equipment Procurement       60 days       Fri 3/4/11       Fri 5/27/11         194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         195       PtP OSP Deployment (Aerial)       5 days       Wed 6/15/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,19         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198	192		PtP Site Preparation	42 days	Thu 7/7/11	Fri 9/2/11	191SS	-						
194       PtP ISP/Equipment Deployment       21 days       Fri 7/27/12       Fri 8/24/12       192FS-3 days,193         195       PtP OSP Deployment (Aerial)       5 days       Wed 6/15/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,19         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198	193		PtP Equipment Procurement	60 days	Fri 3/4/11	Fri 5/27/11		-						
195       PtP OSP Deployment (Aerial)       5 days       Wed 6/15/11       Tue 6/21/11       177         196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,19:         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198	194		PtP ISP/Equipment Deployment	21 days	Fri 7/27/12	Fri 8/24/12	192FS-3 days,193	3						
196       PtP OSP Deployment (Underground Survey)       66 days       Tue 7/26/11       Thu 10/27/11       186,191SS+4 day:         197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,19:         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198         Froject: Community_Access_Network.         Suit         Suit	195	6	PtP OSP Deployment (Aerial)	5 days	Wed 6/15/11	Tue 6/21/11	177	_						
197       PtP OSP Deployment (Underground Placement)       264 days       Thu 8/4/11       Tue 8/21/12       196SS+7 days         198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,19         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198         Task         Project: Community_Access_Network       Solit       Summary	196	á	PtP OSP Deployment (Underground Survey)	66 days	Tue 7/26/11	Thu 10/27/11	186,191SS+4 day	;						
198       PtP Network Test & Turnup       84 days       Tue 7/31/12       Mon 11/26/12       194SS+2 days,19         199       PtP Network Complete       1 day       Tue 11/27/12       Tue 11/27/12       198         Task         Project: Community_Access_Network       Solit       Summary	197	á	PtP OSP Deployment (Underground Placeme	nt) 264 davs	Thu 8/4/11	Tue 8/21/12	196SS+7 davs	-						
Top     PtP Network Complete     1 day     Tue 11/27/12     Tue 11/27/12       199     PtP Network Complete     1 day     Tue 11/27/12     Tue 11/27/12       Project: Community_Access_Network     Solit     Summary     External Milestone	198	~	PtP Network Test & Turnup	84 days	Tue 7/31/12	Mon 11/26/12	194SS+2 days 19							
Project: Community_Access_Network       Solit       Summary       External Milestone	199		PtP Network Complete	1 day	Tue 11/27/12	Tue 11/27/12	198	_						
Date: Wed 3/24/10     Spin     Summary     Control of the stone       Progress     Project Summary     Deadline     Image: Spin stone	Project Date: V	: Comm Ved 3/24	unity_Access_Network_ Split 4/10 Progress	Mile Sum Proj	stone of the store	•	External T External M Deadline	asks ilestone	¢		)			FINIAL

	March 24, 2010           DC Community Access Network           ID         Task Name         / '09         Feb 7, '10         Mar 21, '10         Jun 13, '10         Jul 25, '10         Sep 5, '10																						
ID	6	Task Name	, '09	[	Dec 2	27, '09		Feb 7, '	10	Ма	ar 21,	'10	Ma	ay 2, '10		Jun	13, '1	0	Jul 2	5, '10	_	Sep	5, '10
1	•	5116-CCI DC-CAN COMPOSITE PROJECT PLAN	3	2	1	8	26	13	3	2	21	8	26	14	1	-	19	7	25	12		30	_17
2		DC-CAN Core Ring	-																				
3		006-014	-																				
4		006-014 Network Design	-																				_
5		006-014 Site Preparation	-																				Ļ
6		006-014 Equipment Procurement	-																				
7		006-014 ISP/Equipment Deployment	-																				
8	<b>II</b> 🍥	006-014 OSP Deployment (Underground Surve	У																				
9	<b></b>	006-014 OSP Deployment (Underground Builde	οι																				
10		006-014 Network Testing and Turnup																					
11		006-014 Network Complete																					
12		014-253																					
13		014-253 Network Design																					
14		014-253 Site Preparation																					
15		014-253 Equipment Procurement																					
16		014-253 ISP/Equipment Deployment																					
17	1	014-253 OSP Deployment (Underground Surve	У																				
18	ø	014-253 OSP Deployment (Underground Place	n																				
19		014-253 Network Testing and Turnup	_																				
20		014-253 Network Complete	_																				
21		253-248	_																				
22		253-248 Network Design	_																				
23	-	253-248 Site Preparation	_																				
24	11	253-248 Equipment Procurement	_																				
25	<i>A</i>	253-248 ISP/Equipment Deployment																					
20		253-248 OSP Deployment (Underground Blace	y m																				
21	1	253-248 OSF Deployment (Onderground Flace																					
20		253-246 Network Complete	_																				
20		200-240 Network Complete	_																				
39		003-405	-																				
48		405-304	_																				
57		304-415	_																				
66		415-001	-																				
75		001-028	-																				
84		028-006	-																				
93			-																				
Projeo Date:	t: Comm Wed 3/2	uunity_Access_Network_ Task 4/10 Progress		M Si Pi	lilesto umma roject	one ary t Summa	ary	* •			-	Exte Exte Dead	rnal T rnal N dline	asks Ailestone	اللہ میں اور اور اور اور اور اور اور اور اور اور							<u>.</u>	
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ID	6	Task Name	, '09	_	Dec	27, '0	9	Fe	eb 7, '1	0	Mar	21,	'10	Ma	<u>y 2, '10</u>	1 .	Jun	n 13, '	10	Jul	25, '	10	Se	p 5, '10
94	•	DC-CAN Access Loops	3			8	26	6	13	3	21		8	26	14	1		19	7	2	5	12	30	17
95		Loop 250-234																						
96		250-234Network Design																						
97		250-234 Site Preparation																						L L
98		250-234 Equipment Procurement																						
99		250-234 ISP/Equipment Deployment																						
100	<b>II</b> 🚳	250-234 OSP Deployment (Aerial)																						
101		250-234 Network Testing & Turnup																						
102		250-234 Network Complete																						
103		Loop 006-006																						
104		006-006 Network Design																						
105		006-006 Site Preparation																						
106		006-006 Equipment Procurement																						
107		006-006 ISP/Equipment Deployment																						
108	1	006-006 OSP Deployment (Aerial)																						
109	(Å	006-006 OSP Deployment (Underground Sur	vey																					
110	(Å	006-006 OSP Deployment (Underground Pla	cen																					
111	-	006-006 Network Test & Turnup																						
112		006-006 Network Complete																						
113		Loop 006-252																						
123		Loop 355-256																						
133		Loop 006-251																						
143		Loop 006-007																						
152		Loop 222-354																						
162		Loop 248-225																						
172		Loop 248-248																						
181		Loop 003-003																						
190		Point to Point																						
191		PtP Network Design																						
192		PtP Site Preparation																						
193		PtP Equipment Procurement																						
194		PtP ISP/Equipment Deployment																						
195	1	PtP OSP Deployment (Aerial)																						
196	1	PtP OSP Deployment (Underground Survey)																						
197	1	PtP OSP Deployment (Underground Placeme	ent)																					
198		PtP Network Test & Turnup																						
199		PtP Network Complete			<u> </u>																			
Projec Date: \	t: Comm Ned 3/24	uunity_Access_Network_ 4/10 Progress		)	Miles Sum Proje	stone mary ect Sur	nmary	y	¢ •			•	Exte Exte Dead	rnal T rnal M dline	asks ilestone									
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	5116-CCI DC-CAN March 24, 2010 DC Community Access Network																		
ID	6	Task Name		Oct 17,	'10	Nov 2	8, '10	Jan	9, '11		Feb 20	), '11	Apr 3	3, '11	May	/ 15, '11		lun 26,	'11
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	BUDGET INFORMATION	I - Construction Programs	OMB Approval No. 4040-0008 Expiration Date 07/30/2010
NOTE: Certain Federal assistance programs require additional co	omputations to arrive at the Federal shar	e of project costs eligible for participation.	If such is the case, you will be notified.
COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses	\$ 1,036,800.00	\$ 0.00	\$ 1,036,800.00
2. Land, structures, rights-of-way, appraisals, etc.	\$ 0.00	\$ 0.00	\$ 0.00
3. Relocation expenses and payments	\$ 0.00	\$ 0.00	\$ 0.00
4. Architectural and engineering fees	\$ 1,629,320.00	\$ 0.00	\$ 1,629,320.00
5. Other architectural and engineering fees	\$ 0.00	\$ 0.00	\$0.00]
6. Project inspection fees	\$ 1,816,750.00	\$ 0.00	\$ 1,816,750.00
7. Site work	\$ 7,103,184.00	\$ 0.00	\$ 7,103,184.00
8. Demolition and removal	\$ 0.00	\$ 0.00	\$ 0.00
9. Construction	\$ 0.00	\$ 0.00	\$0.00
10. Equipment	\$ 13,369,978.00	\$ 0.00	\$ 13,369,978.00
11. Miscellaneous	\$ 76,968.00	\$ 0.00	\$ 76,968.00
12. SUBTOTAL (sum of lines 1- 11)	\$ 25,033,000.00	\$0.00	\$ 25,033,000.00
13. Contingencies	\$ 0.00	\$ 0.00	\$ 0.00
14. SUBTOTAL	\$ 25,033,000.00	\$0.00	\$ 25,033,000.00
15. Project (program) income	\$ 0.00	\$ 0.00	\$0.00
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$ 25,033,000.00	\$0.00	\$ 25,033,000.00
	FEDERAL FUNDI	NG	-
<ol> <li>Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share Enter the resulting Federal share.</li> </ol>	.) Enter eligible costs from line	e 16c Multiply X 69.74 %	\$ 17,457,942.00

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Standard Form 424C (Rev. 7-97) Prescribed by OMB Circular A-102

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Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

#### PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

- Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
- Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
- 3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
- Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
- 5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
- 6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
- Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

- Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
- 9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
- 10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) underwhich application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

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- 11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
- Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
- Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.
- Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
- 15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the

National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

- Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
- Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).
- 18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-1 33, "Audits of States, Local Governments, and Non-Profit Organizations."
- Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

*SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE CTD
*APPLICANT ORGANIZATION	*DATE SUBMITTED
OCTO	03/24/20 0.00