

### 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 UNIT COST

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
<b>NETWORK &amp; ACCESS EQUIPMENT</b>					<b>\$ 176,072.75</b>	
<b>Switching</b>	Catalyst 3560V2 Switch	Yes		3		Based on recent Quotes from Cisco (Primary Supplier)
<b>Routing</b>	Internet Router Cisco 3845	Yes		1		Based on recent Quotes from Cisco (Primary Supplier)
	Fiber Interface	Yes		1		Based on recent Quotes from Cisco (Primary Supplier)
	Fiber Interface Carrier Card	Yes		1		Based on recent Quotes from Cisco (Primary Supplier)
<b>Transport</b>	18 GHz Microwave Backhaul Link	Yes		1		Based on previous quotes and Purchase prices from Altius
	11 GHz Microwave Backhaul Link	Yes		1		
<b>Access</b>	Alvarion 2.5GHz Basestation Sectors	Yes		8		Based on Quoted Price for 2010 from Alvarion
<b>Other</b>						
<b>OUTSIDE PLANT</b>					<b>\$ 634,659.00</b>	
<b>Cables</b>					\$ -	
	Fiber backhaul build out -15 miles	Yes		15		Based on Per mileage estimates given from dozens of fiber providers, across numerous projects nationwide
<b>Conduits</b>						
<b>Ducts</b>						
<b>Poles</b>						
<b>Towers</b>	Construction including installation of WiMAX equipment, power, backhaul equipment	Yes		3		Combination of quotes and past costs across many projects
<b>Repeaters</b>					\$ -	
					\$ -	
<b>Other</b>					\$ -	
					\$ -	

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
<b>BUILDINGS</b>					\$ 48,135.00	
New Construction					\$ -	
					\$ -	
					\$ -	
Pre-Fab Huts	6' cabinet with 6000btu a/c	Yes		3		Price quote from Thermobond
	Power distribution unit (PDU)	Yes		3		Price quote from Thermobond
Improvements & Renovation					\$ -	
					\$ -	
					\$ -	
Other					\$ -	
					\$ -	
					\$ -	
<b>CUSTOMER PREMISE EQUIPMENT</b>					\$ 319,633.60	
Modems	WIMAX CPE unit	Yes			\$ -	Quoted Price from Alvarion
					\$ -	
Set Top Boxes					\$ -	
					\$ -	
					\$ -	
Inside Writing					\$ -	
					\$ -	
					\$ -	
Other					\$ -	
					\$ -	
					\$ -	
<b>BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS</b>					\$ -	
Billing Support Systems					\$ -	
					\$ -	
					\$ -	
Customer Care Systems					\$ -	
					\$ -	
					\$ -	
Other Support					\$ -	
					\$ -	
					\$ -	

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
<b>OPERATING EQUIPMENT</b>					\$ -	
Vehicles					\$ -	
					\$ -	
					\$ -	
Office Equipment / Furniture					\$ -	
					\$ -	
					\$ -	
Other					\$ -	
					\$ -	
					\$ -	
<b>PROFESSIONAL SERVICES</b>					\$ 45,075.00	
Engineering Design					\$ -	
					\$ -	
					\$ -	
Project Management	DigitalBridge project management	Yes		3		Based on project hours on previous project times a blended hourly rate
Consulting						
Other	NMS License per Basestation	Yes		3		Quoted Price from Alvarion
	Star Quality license per Basestation	Yes		3		Quoted Price from Alvarion
<b>TESTING</b>					\$ -	
Network Elements					\$ -	
					\$ -	
					\$ -	
IT System Elements					\$ -	
					\$ -	
User Devices					\$ -	
					\$ -	
Test Generators					\$ -	
					\$ -	
Lab Furnishings					\$ -	
					\$ -	
Servers / Computers					\$ -	
					\$ -	

SERVICE AREA or COMMON NETWORK FACILITIES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
<b>OTHER UPFRONT COSTS</b>					\$ 6,592.00	
<b>Site Preparation</b>					\$ -	
					\$ -	
					\$ -	
<b>Other</b>	Mapping services	Yes			\$ -	Combination of quotes and past costs across many
					\$ -	
<b>PROJECT TOTAL:</b>					\$ 1,230,167	

**BROADBAND TECHNOLOGY OPPORTUNITIES PROGRAM**

**Federal Request and Match Verification**

Name of Applicant Organization: DigitalBridge Communications Corp.

DUNS Number: 626155035

Easy Grants # of Submitted Application: 402

As an Authorized Organizational Representative of the entity listed above, I verify that:

(i.) The amounts in the "Grant Request" column from the budget table submitted by the entity I represent in response to Question 44 on page 17 of the Broadband Infrastructure Application completely and accurately reflect the amount of the organization's Federal grant request to NTIA; and

(ii.) The amounts in the "Cash \$" and "In-kind \$" fields submitted by the entity I represent in response to Question 52 on page 19 of the Broadband Infrastructure Application completely and accurately reflect, respectively, the organization's cash and in-kind matching contributions for the proposed project.

Signature of authorized person William F. Wallace Date: March 11, 2010

Print name of authorized person: William F. Wallace

Title or position: Executive Vice President



## **Budget Narrative**

**Applicant Name: DigitalBridge Communications Corp. (DBC)**

**EasyGrants Number: 402**

**Organization Type (from Question 1D on BTOP application): For profit**

**Proposed Period of Performance: 6 months**

**Total Project Costs: \$1,230,167**

**Total Federal Grant Request: \$984,134**

**Total Matching Funds (Cash): \$246,033**

**Total Matching Funds (In-Kind): \$0**

**Total Matching Funds (Cash + In-Kind): \$246,033**

**Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: 20%**

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### **1. Administrative and legal expenses - \$0**

- Provide a breakout of position(s), time commitment(s) such as hours or level-of-effort, and salary information/rates with a detailed explanation, and additional information as needed. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**

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

- Provide description of estimated costs, proposed activities, and additional information as needed. **Not applicable.**



- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**

### **3. Relocation expenses and payment - \$0**

- Provide explanation for the relocation, description of the person involved in the relocation, method used to calculate costs, and additional information as needed. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**

### **4. Architectural and engineering fees - \$36,750 (SF 424-C Line 4).**

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

Architectural and engineering fees are estimated at \$36,750, with a requested Federal Funding amount of \$29,400. This will include fees for DBC to manage the project, design and build the access network for the County, including the following tasks:

- Backbone and access network planning and design
- Broadband wireless systems planning and design
- Frequency coordination
- Integration engineering
- Data network engineering
- Equipment specification and integration engineering
- Interconnection and interoperability planning and design
- Logistics planning
- Warehousing and shipping

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Cash Matching Funds of \$7,350 are calculated at 20% of the line item total.**



- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**

**5. Other architectural and engineering fees - \$6,591 (SF 424C Line 5)**

- Provide description of estimated fees, rates, explanation of proposed services, and additional information as needed. **These fees are for third party work including wireless network planning and mapping services, interference testing, frequency coordination. The total is estimated at \$6,591 with a Federal Funding request of \$5,273.**

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Cash Matching Funds of \$1,318 are calculated at 20% of the line item total.**

- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**

**6. Project inspection fees - \$0**

- Provide description of estimated fees, rates, explanation of proposed services, and additional information as needed. **Although DBC will conduct extensive acceptance testing, no Federal Funding is requested.**

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**

**7. Site work - \$0**

- Provide description of estimated fees, rates, explanation of proposed services, and additional information as needed. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Not applicable.**

- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**





## **8. Demolition and removal - \$0**

- Provide description of estimated fees, rates explanation of proposed services, and additional information as needed. **Not applicable.**
- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Not applicable.**
- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. **Not applicable.**

## **9. Construction - \$214,659 (SF-424C Line 9)**

- Provide description of estimated fees, rates, explanation of proposed services, state whether the work is being completed by the applicant or an outside contractor, and additional information as needed.

DigitalBridge has identified 3 transmitter sites which will be utilized to provide maximum broadband coverage to the County. Each site will employ 3 each, 60 degree sectors to provide 180 degree coverage around the site.

Site work and construction tasks will include those listed below, for more detail and specific associated timelines and dependencies please refer to the Project Plan:

- **Pre-Construction:**
  - Network design
  - Site leasing
  - Site walks
  - Prepare construction drawings
  - Order structural certification letters
  - Conduct construction bid walks
  - Acquire building permits
- **Procurement**
  - Run telco to cabinet locations
  - Run power to cabinet locations
  - Order antennas, lines, hardware
  - Environmental studies



- **Construction**
  - **Site NTP**
  - **Complete grounding**
  - **Install lines & antennas**
- **Civil construction complete**

Prices for these services at \$214,659, with Federal Funding requested at \$171,727 have been estimated based on DBC's long experience building WiMAX base station sites in markets near and around the County. Upon receipt of a BTOP award for this project, DBC will engage in a competitive bidding process to make final selection of a contractor to perform this work.

- **Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. Cash Matching Funds of \$42,932 are calculated at 20% of the line item total.**

- **Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. Not applicable.**



**10. Equipment - \$ 963,842 (SF 424C Line 10)**

- 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 total equipment cost of \$ 963,842 includes all WiMAX, networking, backhaul, cabinet and power distribution and customer premise equipment. Federal Funding is requested in the amount of \$ 771,074. In DBC's initial applications, a small amount of capital expenditures for CPE (less than 5% of the total capital expenditure) extended into years 4 and 5. That CPE capital has been moved into year 3 and placed into inventory so that all capital will have been drawn down by the end of year 3 in accordance with ARRA requirements. Details are included in the table below:

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. Cash Matching Funds of \$192,768 are calculated at 20% of the line item total.

- Provide detailed description, calculation, and basis of evaluation for each In-Kind Matching Funds source. Not applicable.

Equipment Description	Unit Cost	Qty	Total
<b>WiMAX Equipment</b>			
WiMAX 2.5 GHz Base station kits			
<i>BMAX-4M-PIU Base station Power Interface Unit</i>			
<i>BMAX-4M-AU-4CH</i>			
<i>BMAX-GPS-IGA-CBL GPS indoor controller adapter cable</i>		3	
<i>BMAX-GPS- OGR GPS Outdoor antenna</i>			
<i>Timing GPS-CBL-50 GPS outdoor antenna cable</i>			
<i>ODU-2496-2602-000N-38-4x2-N-0</i>			
<i>ANT.2.3-2.7GHz, D/S,65°, 16±0.5dBi</i>			
<b>Networking Equipment</b>			
Catalyst 3560V2 Switch		3	
Fiber Interface		1	
Fiber Interface Carrier Card		1	
Internet Router Cisco 3845		1	
<b>Microwave Equipment</b>			
18 GHz Microwave Backhaul		1	
11 GHz Microwave Backhaul		1	
Fiber Backhaul		15	
<b>Cabinet and Power Distribution Equipment</b>			
6' cabinet Kits with 6000btu a/c			
<i>19" SHELF 4 BREAKERS, 10 GMTS</i>		3	
<i>DC Bullet circuit breakers</i>			
<i>CONTROLLER CARD (in chassis/shelf)</i>			



	20 AMP RECTIFIER		
	AC POWER CABLE		
	10' ALARM CABLE		
	TEMPPROBE		
	100AH 48DVC		
	Battery cables		
	Power cables		
	Power distribution unit (PDU)	3	
	Customer Premise Equipment	Covers entire project	
	WMAX CPE Units	2117	
	<b>Equipment Total</b>		<b>\$ 963,842</b>

**11. Miscellaneous - \$8,325 (SF 424C Line 11)**

- Provide additional information as needed. **Software licensing and support fees for the WiMAX equipment are included in this category. Federal Funding is requested in the amount of \$6,660.**

- Provide detailed description, calculation, and basis of evaluation for each Cash Matching Funds source. **Cash Matching Funds of \$1,665 are calculated at 20% of the line total.**

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

**13. Contingencies - \$0**

- Contingencies are an unallowable expenditures under BTOP.

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

- The value for this line-item on the SF-424C is \$0. Please do not provide an estimated Project (program income) on the SF-424C.



## **Addendum**

**- If indirect costs (i.e., indirect, overhead, general and administrative, facilities and administration, etc.) and/or fringe benefits are included in the budget, please provide a copy of your existing Negotiated Indirect Cost Recovery Agreement (NICRA), if available. If the NICRA is applied accordingly in the budget, there is no need to justify the costs. If a NICRA is not available or is not consistent with the rates/calculations in the budget, please provide an explanation of how the amounts were calculated. Please clearly list the manner in which indirect costs are calculated in the budget.**

## General Budget Overview

Budget	Loan Request	Federal Funding Request	Matching Funds (Cash)	Matching Funds (In-Kind)	Equity	Debt	Bond	Other	TOTAL
Network & Access Equipment (switching, routing, transport, access)		140,858	35,215						<b>\$176,073</b>
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)		507,727	126,932						<b>\$634,659</b>
Buildings and Land – (new construction, improvements, renovations, lease)		38,508	9,627						<b>\$48,135</b>
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)		255,707	63,927						<b>\$319,634</b>
Billing and Operational Support Systems (IT systems, software, etc.)		0	0						<b>\$0</b>
Operating Equipment (vehicles, office equipment, other)		0	0						<b>\$0</b>
Engineering/Professional Services (engineering design, project management, consulting, etc.)		36,060	9,015						<b>\$45,075</b>
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)		0	0						<b>\$0</b>
Site Preparation		0	0						<b>\$0</b>
Other		5,273	1,319						<b>\$6,592</b>
<b>TOTAL BROADBAND SYSTEM:</b>	<b>\$0</b>	<b>\$984,133</b>	<b>\$246,034</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$1,230,167</b>