# Comprehensive Community Infrastructure Budget Narrative Template 

Applicant Name: Mid-Atlantic Broadband Cooperative<br>EasyGrants Number: 7280<br>Organization Type: Cooperative or Mutual<br>Proposed Period of Performance: August 1, 2010 - September 30, 2013<br>Total Project Costs: \$12,529,059<br>Total Federal Grant Request: \$10,023,247<br>Total Matching Funds (Cash): \$2,505,812<br>Total Matching Funds (In-Kind): \$0<br>Total Matching Funds (Cash + In-Kind): \$2,505,812<br>Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: 20\%

## 1. Administrative and legal expenses $\mathbf{- \$ 4 1 8 , 2 0 0}$

- Legal expenses for drafting and executing contracts with vendors are estimated to be $\mathbf{\$ 4 0 , 0 0 0}$ (100 hours @ \$400/hour).
- Grant administration is estimated at \$93,600 (3,120 hours @ \$30/hour).
-Project management costs are estimated at \$249,600 (6,240 hours @ \$40/hour).
-Grant preparation costs are estimated at $\mathbf{\$ 3 5 , 0 0 0} \mathbf{w h i c h}$ is based on $\mathbf{\$ 1 5 , 0 0 0}$ in network conceptual design, $\$ 10,000$ in mapping costs, and $\$ 10,000$ in staff administrative time.
- Matching funds for this will be $\mathbf{2 0 \%}$ of $\mathbf{\$ 4 1 8 , 2 0 0}$ or $\mathbf{\$ 8 3 , 6 4 0}$; matching funds will be split equally between the applicant and ODU Foundation.

2. Land, structure, rights-of-way, appraisals, etc. $\mathbf{- \$ 3 3 2 , 0 0 0}$

- Along the course of the proposed fiber route, four 12'x20' concrete shelters will be required at strategic locations to house fiber multiplexing equipment. Each of these sites will require a $\mathbf{4 5} \mathbf{~ k W}$ generator for backup power.
- Matching funds for this will be $\mathbf{2 0 \%}$ of $\$ 332,000$ or $\mathbf{\$ 6 6 , 4 0 0}$; matching funds will be split equally between the applicant and ODU Foundation.


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

- There are no expenses of this kind on the project.


## 4. Architectural and engineering fees - \$186,000

- While the basic routes of the proposed fiber cables and structures have been identified, MBC will engage contract OSP Engineering firm(s) to provide detailed OSP construction prints. The current average cost per mile for OSP engineers for MBC is $\mathbf{\$ 1 , 0 9 4}$ per mile, and with the project encompassing $\mathbf{\sim 1 7 0}$ miles, the estimated OSP engineering costs will be $\mathbf{\$ 1 8 6 , 0 0 0}$.
- Matching funds for this will be $\mathbf{2 0 \%}$ of $\mathbf{\$ 1 8 6 , 0 0 0}$ or $\mathbf{\$ 3 7 , 2 0 0 ; ~ m a t c h i n g ~ f u n d s ~ w i l l ~ b e ~}$ split equally between the applicant and ODU Foundation.


## 5. Other architectural and engineering fees $\mathbf{- \$ 5 0 , 0 0 0}$

- Before construction of the project can begin, an enironmental assessment will be required, and the cost for an Environmental Engineering firm to conduct this assessment is $\mathbf{\$ 5 0 , 0 0 0}$.
- Matching funds for this will be $\mathbf{2 0 \%}$ of $\mathbf{\$ 5 0 , 0 0 0}$ or $\mathbf{\$ 1 0 , 0 0 0 ; ~ m a t c h i n g ~ f u n d s ~ w i l l ~ b e ~}$ split equally between the applicant and ODU Foundation.


## 6. Project inspection fees - \$145,600

- During the construction phase of the project, two project inspectors will be engaged to ensure that the contractors are constructing the project to the required standards, and that all state, local, and federal regulations are being observed.
-The estimated cost was calculated using the assumption that we construction phase would last one year resulting in $\mathbf{4 , 1 6 0}$ manhours at $\mathbf{\$ 3 5} / \mathrm{hour}$ for the budgeted amount of $\$ 145,600$.
- Matching funds for this will be $\mathbf{2 0 \%}$ of $\$ 145,600$ or $\$ 29,120$; matching funds will be split equally between the applicant and ODU Foundation.


## 7. Site work - \$200,000

- Four concrete shelters will be placed on municpal property to house MBC transport equipment and fiber terminations. Historical pricing for site preparation work is $\mathbf{\$ 5 0 , 0 0 0}$ for site preparation and installing the shelter and generator.
- Matching funds for this will be $\mathbf{2 0 \%}$ of $\$ 200,000$ or $\$ 40,000$; matching funds will be split equally between the applicant and ODU Foundation.


## 8. Demolition and removal - \$0

- No demolition or removal is required on this project.

9. Construction - $\mathbf{\$ 8 , 2 6 0 , 1 2 0}$

| Item | Unit |  |  |  |  |
| :--- | :---: | ---: | ---: | ---: | :---: |
|  | Basis | Unit Cost | Units | Cost |  |
| 144 Fiber Cable | Foot | $\$ 1.45$ | 723,276 | $\$ 1,048,750$ |  |
| 24 Fiber Cable | Foot | $\$ 0.470008$ | 177,114 | $\$ 83,245$ |  |
| Hand holes | Each | $\$ 649.00$ | 133 | $\$ 86,317$ |  |
| Pole Line Hardware/Strand | Foot | $\$ 0.40$ | 112,768 | $\$ 45,107$ |  |
| Cable Route Markers | Each | $\$ 27.29$ | 1,375 | $\$ 37,524$ |  |
| Splice Cases | Each | $\$ 475$ | 79 | $\$ 37,525$ |  |
| Buried Cable Placement | Foot | $\$ 7.00$ | 774,372 | $\$ 5,420,604$ |  |
| Aerial Cable Placement | Foot | $\$ 4.75$ | 112,768 | $\$ 535,648$ |  |
| Bridge Attachments | Foot | $\$ 60.00$ | 13,250 | $\$ 795,000$ |  |
| Building Conduits | Each | $\$ 1,500.00$ | 28 | $\$ 42,000$ |  |
| Splicing Labor | Each | $\$ 1,200.00$ | 107 | $\$ 128,400$ |  |
|  |  |  |  |  |  |
| Total Cost |  |  |  | $\$ 8,260,120$ |  |

-This work will be completed by MBC contractors.

- Matching funds for this will be $\mathbf{2 0 \%}$ of $\mathbf{\$ 8 , 2 6 0 , 1 2 0}$ or $\mathbf{\$ 1 , 6 5 2 , 0 2 4 ;}$ matching funds will be split equally between the applicant and ODU Foundation.


## 10. Equipment - \$2,937,139

| Item | Units | Unit Cost | Cost |
| :---: | :---: | :---: | :---: |
| 170 Ah Batteries | 28 | \$306 | \$8,568 |
| 55 Ah Batteries | 4 | \$148 | \$592 |
| Nortel 6110 | 29 | \$4,500 | \$130,500 |
| Nortel 6130 | 4 | \$8,000 | \$32,000 |
| Nortel 6500 | 4 | \$150,000 | \$600,000 |
| Nortel OC-48 Cards (at existing nodes) | 8 | \$9,500 | \$76,000 |
| Infinera DWDM 3 Way System | 2 | \$447,558 | \$895,116 |
| Infinera DWDM 2 Way System | 1 | \$287,927 | \$287,927 |
| Infinera BMM/XLM Cards (at existing nodes) | 2 | \$116,754 | \$233,508 |
| Infinera TAM Cards | 12 | \$29,756 | \$357,072 |
| Infinera OLA | 4 | \$49,514 | \$198,056 |
| Ethernet Switch | 4 | \$7,500 | \$30,000 |
| Fiber Panels - Nodes | 9 | \$700 | \$6,300 |
| Fiber Panels - Anchor Location | 29 | \$350 | \$10,150 |
| Installation Labor | 358 | \$75 | \$26,850 |
| Equipment Cabinet | 1 | \$9,500 | \$9,500 |
| Valere DC System (100 amp) | 1 | \$3,500 | \$3,500 |
| Valere DC System (200 amp) | 6 | \$4,000 | \$24,000 |
| Wilmore Inverter | 3 | \$2,500 | \$7,500 |
| Grand Total |  |  | 2,937,139 |

-Matching funds for this will be $\mathbf{2 0 \%}$ of $\mathbf{\$ 2 , 9 3 7 , 1 3 9}$ or $\mathbf{\$ 5 8 7 , 4 2 8 ; ~ m a t c h i n g ~ f u n d s ~ w i l l ~}$ be split equally between the applicant and ODU Foundation.

## 11. Miscellaneous - \$0

- No expenses of this type will be required on this project.


## 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 $\mathbf{\$ 0}$. Please do not provide an estimated Project (program income) on the SF-424C.


## Addendum

- Very few indirect costs are allowable through BTOP. If any allowable indirect costs 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.

Note: Verify that indirects are calculated correctly and are eligible BTOP costs. To clarify, reasonable indirect costs under BTOP are only allowable for Full Time Employees (FTEs) associated with the construction, deployment, or installation of facilities or equipment used to provide broadband service.

## BTOP Comprehensive Community Infrastructure Detailed Budget

Please complete the General Budget Overview and Detailed Project Costs worksheets.
Please refer to the Comprehensive Community Infrastructure Grant Guidance for detailed instructions on the completing this upload.

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.

## General Budget Overview

| Budget | Federal Funding Request | Matching Funds (Cash) | Matching Funds (In-Kind) | Budget TOTAL | Last Mile Allocation | Middle Mile Allocation | Allocated TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Network \& Access Equipment (switching, routing, transport, access) | \$2,349,711 | \$587,428 |  | \$2,937,139 |  | \$2,937,139.00 | \$2,937,139 |
| Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.) | \$6,608,096 | \$1,652,024 |  | \$8,260,120 |  | \$8,260,120.00 | \$8,260,120 |
| Buildings and Land - (new construction, improvements, renovations, lease) | \$265,600 | \$66,400 |  | \$332,000 |  | \$332,000.00 | \$332,000 |
| Customer Premise Equipment (modems, settop boxes, inside wiring, etc.) | \$0 | \$0 |  | \$0 |  |  | \$0 |
| Billing and Operational Support Systems (IT systems, software, etc.) | \$0 | \$0 |  | \$0 |  |  | \$0 |
| Operating Equipment (vehicles, office equipment, other) | \$0 | \$0 |  | \$0 |  |  | \$0 |
| Engineering/Professional Services (engineering design, project management, consulting, etc.) | \$639,840 | \$159,960 |  | \$799,800 |  | \$799,800.00 | \$799,800 |
| Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.) | \$0 | \$0 |  | \$0 |  |  | \$0 |
| Site Preparation | \$160,000 | \$40,000 |  | \$200,000 |  | \$200,000.00 | \$200,000 |
| Other |  |  |  | \$0 |  |  | \$0 |
| TOTAL BROADBAND SYSTEM: | \$10,023,247 | \$2,505,812 | \$0 | \$12,529,059 | \$0 | \$12,529,059 | \$12,529,059 |
| Cost Share Percentage: | 80.00\% | 20.00\% | 0.00\% |  |  |  |  |

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


| Poles |  |  |  |  | \$0 |  | \$0 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | \$0 |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  | \$0 |  |  |
| Towers |  |  |  |  | \$0 |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  | \$0 |  |  |
| Repeaters |  |  |  |  | \$0 |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  | \$0 |  |  |
| Other | Pole Line Hardware/6M Strand | Cash Match | \$0.40 | 112,768 | \$45,107 | \$45,107.20 | \$45,107 | 9. Construction |  |
|  | Cable Route Markers | Cash Match | \$27.29 | 1,375 | \$37,524 | \$37,523.75 | \$37,524 | 9. Construction |  |
|  | Splice Cases | Cash Match | \$475.00 | 79 | \$37,525 | \$37,525.00 | \$37,525 | 9. Construction |  |
|  | Buried Cable Placement | Cash Match | \$7.00 | 774,372 | \$5,420,604 | \$5,420,604.00 | \$5,420,604 | 9. Construction |  |
|  | Aerial Cable Placement | Cash Match | \$4.75 | 112,768 | \$535,648 | \$535,648.00 | \$535,648 | 9. Construction |  |
|  | Bridge Attachments | Cash Match | \$60.00 | 13,250 | \$795,000 | \$795,000.00 | \$795,000 | 9. Construction |  |
|  | Splicing Labor | Cash Match | \$1,200.00 | 107 | \$128,400 | \$128,400.00 | \$128,400 | 9. Construction |  |
|  | Hand Holes | Cash Match | \$649.00 | 133 | \$86,317 | \$86,317.00 | \$86,317 | 9. Construction |  |


| COMMON NETWORK |  | 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 |  |  |  |  | \$332,000 | \$0 | \$332,000 | \$332,000 |  |  |
| New Construction |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Pre-Fab Huts | Node Shelter (12' $\times 20^{\prime}$ ) | Cash Match | \$58,000.00 | 4 | \$232,000 |  | \$232,000.00 | \$232,000 | 2. Land, structures |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Improvements \& |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Other | 45 kW Generator | Cash Match | \$25,000.00 | 4 | \$100,000 |  | \$100,000.00 | \$100,000 | 2. Land, structures |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| CUSTOMER PREMISE EQUIPMENT |  |  |  |  | \$0 | \$0 | \$0 | \$0 |  |  |
| Modems |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Set Top Boxes |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Inside Writing |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Other |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS |  |  |  |  | \$0 | \$0 | \$0 | \$0 |  |  |
| Billing Support |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Customer Care |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Other Support |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |


| COMMON |  | Match | Unit Cost | No. of | Total Cost | Last Mile | Middle Mile | Allocated Total | SF-424C Budget | Support of Reasonableness |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OPERATING EQUIPMENT |  |  |  |  | \$0 | \$0 | \$0 | \$0 |  |  |
| Vehicles |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Office Equipment / |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Other |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| PROFESSIONAL SERVICES |  |  |  |  | \$799,800 | \$0 | \$799,800 | \$799,800 |  |  |
| Engineering | OSP Engineering | Cash Match | \$1,000.00 | 186 | \$186,000 |  | \$186,000 | \$186,000 | 4. Architectural and engr. |  |
|  |  |  |  |  | \$0 |  | \$0 | \$0 |  |  |
|  |  |  |  |  | \$0 |  | \$0 | \$0 |  |  |
| Project | Project Management | Cash Match | \$6,240.00 | 40 | \$249,600 |  | \$249,600 | \$249,600 | 1. Admin and Legal |  |
|  | Project Inspection | Cash Match | \$4,160.00 | 35 | \$145,600 |  | \$145,600 | \$145,600 | 6. Inspection fees |  |
|  | Grant Administration | Cash Match | \$3,120.00 | 30 | \$93,600 |  | \$93,600 | \$93,600 | 1. Admin and Legal |  |
| Consulting | Environmental Assessment | Cash Match | \$50,000.00 | 1 | \$50,000 |  | \$50,000 | \$50,000 | 5. Other archit. and engr. |  |
|  |  |  |  |  | \$0 |  | \$0 | \$0 |  |  |
|  |  |  |  |  | \$0 |  | \$0 | \$0 |  |  |
| Other | Legal | Cash Match | \$400.00 | 100 | \$40,000 |  | \$40,000 | \$40,000 | 1. Admin and Legal |  |
|  | Grant Preparation | Cash Match | \$35,000.00 | 1 | \$35,000 |  | \$35,000 | \$35,000 | 1. Admin and Legal |  |
|  |  |  |  |  | \$0 |  | \$0 | \$0 |  |  |
| TESTING |  |  |  |  | \$0 | \$0 | \$0 | \$0 |  |  |
| Network |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| IT System |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| User Devices |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Test Generators |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Lab |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Servers/Computer |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |


| COMMON |  | Match | Unit Cost | No. of | Total Cost | Last Mile | Middle Mile | Allocated Total | SF-424C Budget | Support of Reasonableness |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OTHER UPFRONT COSTS |  |  |  |  | \$200,000 | \$0 | \$200,000 | \$200,000 |  |  |
| Site | Site preparation for node shelters | Cash Match | \$50,000.00 | 4 | \$200,000 |  | \$200,000 | \$200,000 | S Site work |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
| Other |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$0 |  |  | \$0 |  |  |
|  |  |  | PROJECT TOTAL: |  | \$0 |  |  | \$0 |  |  |
|  |  |  |  |  | \$12,529,059 | \$0 | \$12,529,059 | \$12,529,059 |  |  |

