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: GigEPAC Ohio Middle Mile Consortium Easy Grants ID: 7296

Service Area Name	Tract or Block Group #
Com Net Darke County	39037500100
Com Net Darke County	39037510100
Com Net Darke County	39037520100
Com Net Darke County	39037530100
Com Net Darke County	39037540100
Com Net Darke County	39037550100
Com Net Darke County	39037555000
Com Net Darke County	39037555101



Section 18.2

Network Diagrams

Com Net Inc.

Figure 1 shows the DWDM layout of the new project. The lines show the fiber runs between POPs. All the fiber used in this project is 96 strand count fiber. Six fibers will be lit with a 10 Gbps by 40 channel bandwidth.

Figure 2 shows the different links between POPs. This diagram shows the core routing network that uses Cisco 7600 series routers. The network gains internet access through the Lima, Columbus, and Toledo POPS.

Figure 3 shows the collocation facilities and the Broadband Service Provider POPs.

Figure 4 shows the stages on a Point to Point connection between Broadband service providers. The lines outside of the Com Net backbone square show where ownership of the fiber changes between Com Net and the Broadband Service Providers. Com Net and the Broadband service providers will use Network to Network interfaces for the connection.

Figure 5 shows the stages on a Point to Multipoint connection. This illustrates how a broadband service provider can access an exchange carrier using the Com Net backbone. The line along the path outside the square illustrates change of ownership between Com Net and the Broadband Service Provider. The connection to the Com Net back bone uses a Network to Network Interface.

Figure 6 shows the distances between the DWDM POPs. All of the distances labeled are in miles.





















Ms. Pam Bennett Indiana Historical Bureau 140 North Senate Avenue, Room 130 Indianapolis, Indiana 46204-2296

RE: Ohio – COM NET P&S #ARRA BTOP Round 2

Dear Ms. Bennett:

COM NET, Inc. is seeking input on potential environmental impacts in support of an application for federal funds in the second round of the Notices of Funds Availability (NOFA) from the U.S. Department of Commerce National Telecommunications and Information Administration (NTIA) Broadband Technology Opportunities Program (BTOP) to finance telecommunications facilities. The proposed facilities are needed to provide new broadband services to underserved subscribers. These facilities include installation of fiber optic cables in Wayne County of Indiana.

The information is required to complete the environmental questionnaire portion of the BTOP application. The questionnaire states applicants must gather information about the nature and location of historic properties. A listing of the National Register of Historic Places from U.S. Department of Interior National Park Service is available and these sites have been downloaded into the proposed project map. The environmental questionnaire also states that the State Historic Preservation Office be asked the following questions:

- Is the proposed project located on, within or adjacent to any properties listed in or eligible for listing in the National Register of Historic Places or to a National Historic Landmark?
- Will the proposed project impact, use or alter a building or structure that was constructed more than 50 years ago?

COM NET does not anticipate the project affecting any building more than 50 years in age. All construction will be along existing utility easements in previously disturbed lands with other existing cables and utilities services. However, COM NET requests your input to the proposed questions and on any concerns in the project area.

If a BTOP award is made to COM NET, NTIA will assume its role as the federal lead agency for Section 106 consultation.

Enclosed are maps identifying the proposed construction activities with site locations from the National Register of Historic Places, a project description and a response form. Typically a thirty day response is sought to avoid undue delay in construction. However due to the application deadline, a quicker response if possible is appreciated. If you need further information or wish to discuss the project in more detail, please feel free to call me at (806) 722-7683.

Thank you for your cooperation.

Sincerely,

Matt Kean

Matt Hearn Engineer – Network Planning

Enc.

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Thank you for your cooperation.

Sincerely,

Matt Hearn Engineer – Network Planning

Enc.

File: w:\Lubad01\engineering\Stimulus Grant Program\2ne NOFA\ Applications\BTOP\ComNet\Environmental \ComNet IHB Letter

PROJECT DESCRIPTION

General

This project will involve the construction of new facilities, electronic equipment, and approximately 1740 miles of outside plant facilities in order to provide broadband services to rural areas of Ohio, Michigan and Indiana. The proposed construction will take place in Allen, Auglaize, Champaign, Clark, Darke, Defiance, Delaware, Franklin, Fulton, Greene, Hancock, Hardin, Henry, Logan , Lucas, Madison, Mercer, Miami, Montgomery, Paulding, Preble, Putnam, Sandusky, Seneca, Shelby, Union, Van Wert, Williams, Wood and Wyandot of Ohio, Wayne County of Indiana and Hillsdale and Lenawee Counties of Michigan, as served by COM NET, Inc.

Electronic Equipment

Electronics are utilized to improve service by increasing transmission distances and channel capacity. Network equipment and subscriber electronics equipment will be located at several Carrier Serving Area sites utilizing cabinets placed adjacent to existing established roadways. The cabinets will vary in size from one foot by three feet to three feet by six feet and up to three feet tall. During construction, every effort will be made to minimize the environmental effects of placing these cabinets

Buried Plant

The buried plant will consist of fiber optic cables placed at a minimum depth of 36 - 42 inches below the surface in most areas along established streets, roadways or travel routes in town areas. Cable installed adjacent to road ROW will generally be within 5 - 10 feet of the public easement. This construction requires plowing of the cable with a ripper attachment. The ripper opens a narrow slot, inserts the cable and covers in one operation. This is useful in areas where rock contents are minimal and construction paths are free of obstructions. An alternate method, used when applicable, is making a trench, placing the appropriate sized cables, backfilling and compacting to restore the ground to its original condition. If concrete or paving is required to be cut, it is restored as appropriate. In situations where the cable must be placed under large roads, a

bore will be made under the obstruction. The cable will then be pulled through the bore into place leaving only a minimal surface disturbance. When river or stream crossings or U.S. water crossings are encountered, the construction will be either bored or via bridge attachments. Every effort is made to minimize environmental damage during the construction phase.

Buried cable will be placed to connect subscribers to the switching equipment. Above ground appearances will be limited to locations required for connecting subscribers to the system. This will occur in pedestals (enclosures) supported by stakes or poles. The pedestals will vary in size, depending on the size of the cable to be spliced, from about six inches square to about one foot by three feet square.

Wireless Towers

No wireless towers are proposed for this project.

Ms. Pam Bennett Indiana Historical Bureau 140 North Senate Avenue, Room 130 Indianapolis, Indiana 46204-2296

Response Form

RE: COM NET, Inc. Ohio – COM NET P&S #ARRA BTOP Round 2

We have reviewed your proposed telephone facilities construction as outlined in your request. We understand that the purpose of your ER is to identify any environmental issues that may need investigation before any actual construction occurs.

Based upon our review of your construction areas, we have determined the following:

_____ We do not see any environmental issues and do not need to be contacted further.

- _____ We do see environmental issues, as identified below, but do not need to be contacted further.
- We do see environmental issues, as identified below, and do need to be contacted further.

Environmental Issues

Additional Comments

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Sincerely,

Name

Title

Date

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Solutions

Mr. Brian D. Conway Michigan State Historic Preservation Office 702 W. Kalamazoo St. Lansing, Michigan 48909-8240

RE: Ohio – COM NET P&S #ARRA BTOP Round 2

Dear Mr. Conway:

COM NET, Inc. is seeking input on potential environmental impacts in support of an application for federal funds in the second round of the Notices of Funds Availability (NOFA) from the U.S. Department of Commerce National Telecommunications and Information Administration (NTIA) Broadband Technology Opportunities Program (BTOP) to finance telecommunications facilities. The proposed facilities are needed to provide new broadband services to underserved subscribers. These facilities include installation of fiber optic cables in Hillsdale and Lenawee Counties of Michigan.

The information is required to complete the environmental questionnaire portion of the BTOP application. The questionnaire states applicants must gather information about the nature and location of historic properties. A listing of the National Register of Historic Places from U.S. Department of Interior National Park Service is available and these sites have been downloaded into the proposed project map. The environmental questionnaire also states that the State Historic Preservation Office be asked the following questions:

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Thank you for your cooperation.

Sincerely,

Mutt deam

Engineer – Network Planning

Enc.

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PROJECT DESCRIPTION

General

This project will involve the construction of new facilities, electronic equipment, and approximately 1740 miles of outside plant facilities in order to provide broadband services to rural areas of Ohio, Michigan and Indiana. The proposed construction will take place in Allen, Auglaize, Champaign, Clark, Darke, Defiance, Delaware, Franklin, Fulton, Greene, Hancock, Hardin, Henry, Logan , Lucas, Madison, Mercer, Miami, Montgomery, Paulding, Preble, Putnam, Sandusky, Seneca, Shelby, Union, Van Wert, Williams, Wood and Wyandot of Ohio, Wayne County of Indiana and Hillsdale and Lenawee Counties of Michigan, as served by COM NET, Inc.

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Wireless Towers

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Response Form

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Environmental Issues

Additional Comments

Sincerely,

Name

Title

Date

LTR 1 OF 1 CHARLIE FARRAR (806) 722-7600 CHR SOLUTIONS 4747 S. LOOP 289 LUBBOCK TX 79424-2224	MI 489 0-02
SHIP TO: MR. BRIAN D. CONWAY	UPS 2ND DAY AIR TRACKING #: 1Z FW8 674 02 4276 1553
(806) 722-7683 MICHIGAN STATE HISTORIC PRESERVATIO 702 W. KALAMAZOO STREET LANSING MI 48909-8240	
REF 1:COM NET - ARRA BTOP ROUND 2	BILLING: P/P
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Mr. Burt A. Logan Ohio Historic Preservation Office 1982 Velma Avenue Columbus, OH 43211-2497

RE: Ohio – COM NET P&S #ARRA BTOP Round 2

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Matt Hearn Engineer – Network Planning

Enc.

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SHIP TO: ME. BURT A. LOGAN (806) 722-7683 OHIO HISTORIC PRESERVATION OFFICE 1982 VELMA AVENUE COLUMBUS OH 43211-2497	UPS 2ND DAY AIR TRACKING #: 1Z FW8 674 02 4068 1938
REF 1:COM NET - ARRA BTOP ROUND 2	BILLING: P/P W5 12 0.14 Gesteiner 500 99 0A 01/2010

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