

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570070	3. DUNS Number 147368641
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4. Recipient Organization

Massachusetts Technology Park 75 North Drive
 , Westborough, MA 01581-3335

5. Current Reporting Period End Date (MM/DD/YYYY) 03-31-2014	6. Is this the last Report of the Award Period? <input checked="" type="radio"/> Yes <input type="radio"/> No
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7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.

7a. Typed or Printed Name and Title of Certifying Official	7c. Telephone (area code, number and extension)
	7d. Email Address

7b. Signature of Certifying Official	7e. Date Report Submitted (MM/DD/YYYY):
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Project Indicators (This Quarter)

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

On July 1, 2010, the National Telecommunications and Information Administration (NTIA) awarded the Massachusetts Broadband Institute (MBI) \$45.4 million for its MassBroadband 123 (MB123) project to build new fiber networks in western and central Massachusetts to bridge the digital divide in the state and to provide the foundation for economic growth and opportunity in the region. MB123 was successfully completed on January 31, 2014 with additional state matching funds totaling \$36.6 million and a total project budget of \$82 million.

MB123 built 949 miles of new fiber-optic network and leased 231 miles (including 38 miles from municipalities and 193 to metro-Boston) through 133 communities (including 43 previously un- or underserved towns) in western and central Massachusetts, connecting 1,095 community anchor institutions (CAI) and providing improved service to 143 CAIs. The largely aerial network provides a fiber-based broadband infrastructure that runs within 3 miles of 98% of households, CAIs, and businesses in the service area, offering 22 network equipment nodes to allow easy interconnection and to facilitate future expansion of the network.

MBI's network operator and private sector partner Axia NGNetworks USA ("Axia") currently offers wholesale connectivity to 18 network service providers with speed tiers from 5 Mbps to 10 Gbps.

The availability of high-speed broadband and provider choice is a boon to many CAIs that previously only had access to T1's, satellite, or DSL lines and little or no choice of provider. After being fully operational for only a few months, MB123 has enabled multiple providers to serve CAIs in the towns of Otis, Pittsfield, South Egremont and Springfield, introducing competition in the market for the first time.

The early successes of MB123 can be attributed to MBI's broad range of collaborations and partnerships, including the Mass Executive Offices of Housing and Economic Development (EOHED), and Public Safety and Security (EOPSS) and the Information Technology Division (ITD), Axia, local service providers, regional planning agencies, grassroots broadband groups like WesternMA Connect and Wired West, and local governments in the project footprint. Some examples of these successes are listed below;

- MB123 enables EOPSS to transition western MA public safety sites onto the new network, increasing bandwidth to the Criminal Justice Information System from 56 Kbps to 50 Mbps while saving \$36,000 per year and enabling Next Generation Identification systems such as facial recognition and advanced fingerprinting. EOPSS is currently piloting the solution at ten locations before rolling it out to all their sites.
- MB123 enables the South Hadley Electric Light Department ("SHELD") to deploy electronic meter readers to obtain real-time information on the use and status of the electric grid, e.g., detecting outages immediately and reducing the response times for repair.
- The Farmington River School will use MB123 to introduce a year-long video exchange with students in Zambia that will address water issues in Zambia where students will apply what they learn to a study of their own Farmington River and Otis reservoir.
- In the Southwick-Tolland-Granville School District, their new 100 MB connection enables online teacher training, allowing administrators to track ongoing teacher evaluations online.
- The school district is also piloting a remote desktop application to enable students and parents to access educational software and applications hosted at the school from home.
- Through the Center for Education Leadership and Technology ("CELT"), small, rural schools in western Massachusetts will have access to the broadband speeds required to implement online testing.
- Some schools are also rolling out iPad and tablet initiatives to provide students with personalized technology in the classroom. In western Mass, CELT can only support these initiatives where adequate broadband speeds provided by MB123 are available.
- MB123 is enabling libraries on the MARS system to download and share greater amounts of bibliographic data and participate in remote video conferencing and training, including digital audiobooks and literacy training for the public.
- DSCI, the service provider for MA's voter registration system, won the contract based on using the MB123 network to provide connectivity to sites in western MA. They currently have 10 orders in for service.
- Every healthcare provider in the state is required to use electronic health records connected to the health information exchange by 2017. In addition the Massachusetts eHealth Institute (MeHI) will be required by 2017 to test image exchange services among healthcare providers. This exchange would not be possible for many of the providers in western Massachusetts without connectivity through the new network.
- The Franklin Regional Council of Governments (FRCOG) expects that MB123 will help Boards of Health in Franklin County report cases of contagious diseases to the Massachusetts Virtual Epidemiologic Network (MAVEN), a database reporting system for contagious diseases. Before MB123, the Boards of Health were not able to access MAVEN.
- The town of Leverett passed a municipal bond to fund a fiber to the home network connected to the MB123. Without MB123 the costs were too high to undertake the project.
- More affordable middle mile speeds has enabled last mile providers like Crocker Communications, Phoenix Communications, and Westfield Gas and Electric to expand their businesses and hire more workers.

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

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	100	In this section, we are calculating Percentage Complete with reference to the approved NTIA budget. Actual Costs are now 123% of the approved budget. MassTech has secured additional non-federal funds from the Commonwealth of Massachusetts to cover those amounts that exceed the approved NTIA budget.
2b.	Environmental Assessment	100	Compliance requirements with environmental mitigation included in Design-Build RFP and the Owner's Project Manager oversaw work. Complete and actual costs are 159% of baseline budget.
2c.	Network Design	100	Some costs included in Network Build were categorized under Network Design. High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs were 260% of baseline budget.
2d.	Rights of Way	100	Pole survey work and make ready application costs are complete. Actual costs were 128% of baseline budget.
2e.	Construction Permits and Other Approvals	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs were 140% of the baseline budget.
2f.	Site Preparation	100	Although some of these costs have been allocated to other categories, actual costs were higher than budgeted. Actual costs were 107 of the baseline budget.
2g.	Equipment Procurement	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs were 121% of the baseline budget.
2h.	Network Build (all components - owned, leased, IRU, etc)	96	Behind on budgeted expenditures by 4%; some costs included in the baseline report under this category were captured under Network Design.
2i.	Equipment Deployment	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs were 334% of the baseline budget.
2j.	Network Testing	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs were 162% of the baseline budget.
2k.	Other (please specify):	100	Costs included in this category were: -Federal Compliance Staff -BTOP Non-Construction Staffing -Application and Post Application Submission Costs included in approved budget -Staff, Consulting, and legal costs Costs were offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs were 135% of the baseline budget.

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

Our challenges in the last quarter were completing fiber and CAI testing and final review of test results and documentation.

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

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	949	Behind on baseline projection by 26.5 miles due to route changes as described more fully in MassTech's Award Action Requests.
New network miles leased	231	Behind on baseline projection by 76.5 miles. Lease miles reductions were due to a switch to all dark fiber IRUs, as described more fully in MassTech's Award Action Requests.
Existing network miles upgraded	0	Behind on baseline projection by 55 miles. After consultation with NTIA, it was determined that all existing I-91 miles upgraded were removed from the project and replaced with cash-match, as described more fully in MassTech's Award Action Requests.
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	1,180	Behind on baseline by 158 miles for the following reasons: Reduction of 114.5 miles in total planned IRU mileage to the metro-Boston area due to change to all dark-fiber IRUs, reduction of 55 miles due to removal of in-kind contribution of I-91 fiber. These reductions were partially offset by a net increase of 11.5 miles of other fiber mileage.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	39	Ahead of project baseline by 17. The number of POIs increased to 39 due to the addition of POIs for connections to municipal IRUs and reclassification of some locations from CAI to POI. Twenty-two of these POIs are able to support service provider equipment.

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

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

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	18
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	3
Average term of signed agreements (in quarters)	76

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers:

- Axia Networks, USA
- Massachusetts Information Technology Division (ITD)
- Crocker Communications
- FTG Technologies
- Center for Education Leadership (CELT)
- Access Plus
- Community WISP, Inc.
- Streamline Networks
- Cornerstone Communications
- Holyoke Gas & Electric
- Addition Networks (formally MEC Net)
- Ayacht Technology Solutions
- Warwick Broadband Service
- Berkshire Unified Phone
- WiredWest
- Lighttower
- Windstream
- DSCI

NOTE: The average term of signed agreements in 5a reflects the average length of fixed-term contracts. Per NTIA clarifications we no longer count the Massachusetts Executive Office of Public Safety and Security (EOPSS) as a service provider. MassTech has executed contracts with the above-referenced entities to provide service via the Mass Tech BTOP funded network.

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

Wholesale services currently being provided are:
 -Ethernet-100 Service - Ethernet-based bandwidth services that provide up to 100% of the line rate speed of the physical connection. It services a single User Network Interface (UNI) and a single Virtual Private Network membership (VPN).
 -NNI (Network-to-Network Interface Service) - Allows customers to access "off-net" services determined by the customer network.
 -Gigabit Ethernet Boston Transport Service - Provides connectivity from either network Regional Gateway to the Boston Global Gateways at the following speeds: 20 Mbps increments, 1, 2.5, & 5Gbps.
 -Broadband Service - Provides Ethernet-based bandwidth service at the following rates: 5, 10, 20 & 50Mbps.
 -Wavelength Service - Provides connectivity from a chosen location to a Regional Gateway or from a Regional Gateway to a Global Gateway. This is a wavelength-based service and is available at the following rates: 2.5 & 10Gbps

The speed tiers available across the variety of service offerings are; 5, 10, 20, 50, & 100 Mbps and 1, 2.5, 5 & 10 Gbps. Note that the Boston Transport service includes an offering that is scalable in 20Mbps increments.

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

MassTech hired Axia NGNetworks USA as a contractor to run the entirety of the MassBroadband 123 network. They also assisted with equipment specifications and network and fiber design during the construction period. Allison Cutts, Director, may be contacted at Allison.Cutts@axia.com.

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

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	18	Ahead on baseline by 5; interest of service providers exceeded expectations held at the time of grant submission.
	Providers with signed agreements receiving improved access	0	N/A
	Providers with signed agreements receiving access to dark fiber	0	Per NTIA guidance, MassTech now lists service providers who receive access to both lit and dark services on the primary method they will use to obtain services. MassTech now anticipates that all service providers will primarily receive lit services, causing the value to remain at zero.
	Please identify the speed tiers that are available and the number of subscribers for each	9	5Mbps-(0), 10Mbps-(0), 20Mbps-(0), 50Mbps-(0), 100Mbps-(0), 1Gbps-(6), 2.5Gbps-(0), 5Gbps-(0), 10Gbps-(1) Note: The counts above represent active services being provided to paying wholesalers or service providers.
Community Anchor Institutions (including Government institutions)	Total subscribers served	1,238	Behind on baseline by 150 for the following reasons: facilities closing or relocating during the project, removal of some duplicate or unqualified facilities from the baseline list, removal of CAIs that refused connections, removal of CAIs where municipalities identified them as lacking need or with existing fiber optic network connections; reclassification of some planned CAIs as POIs, and removal of CAIs where construction proved infeasible within project timelines. Specific details have been incorporated into MassTech's Award Action Requests.
	Subscribers receiving new access	1,095	Behind on baseline by 165 for the following reasons: facilities closing or relocating during the project, removal of some duplicate or unqualified facilities from the baseline list, removal of CAIs that refused connections, removal of CAIs where municipalities identified them as lacking need or with existing fiber optic network connections; reclassification of some planned CAIs as POIs, and removal of CAIs where construction proved infeasible within project timelines. Specific details have been incorporated into MassTech's Award Action Requests.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	Subscribers receiving improved access	143	Ahead on baseline by 15 due to reclassification of CAIs with existing network connections. Specific details have been incorporated into MassTech's Award Action Requests.
	Please identify the speed tiers that are available and the number or subscribers for each	9	5Mbps-(93), 10Mbps-(44), 20Mbps-(30*), 50Mbps-(9), 100Mbps-(47), 1Gbps-(5), 2.5Gbps-(0), 5Gbps-(0), 10Gbps-(11). Note: The counts above represent active services being provided to paying CAI customers *-Includes 1 incremental "to scale" Boston Transport service customer whose total provided bandwidth is 300Mbps.
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Businesses	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

7. Please describe any special offerings you may provide (600 words or less).

MassTech offers a 15% discount off of wholesale rates to our state partners, Information Technology Division and Executive Office of Public Safety and Security. Our state partners contributed matching funds to the MassBroadband 123 grant application and they have committed to being an anchor tenant on the new network.

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

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

N/A

9. Community Anchor Institutions:

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

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
See separate addendum	See separate addendum	See separate addendum	See separate addendum	Addendum attached separately

Project Indicators (Next Quarter)

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1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).

Beyond project close-out, MassTech will be actively engaged in overseeing network operations by Axia, encouraging CAI and service provider network adoption and working closely with state, local and private sector partners to educate municipalities and CAIs about the benefits of the new infrastructure.

MBI is in the process of developing a technical assistance program to aid municipalities and CAIs in their efforts to utilize services on the new network. MB123 brings significant new capabilities to the region that local municipalities do not yet understand, including; (a) the ability to purchase service from multiple service providers competing on an open access middle-mile fiber infrastructure (b) the ability to converge telephone and data services through one connection, and (c) the ability to create Virtual Private Networks that connect CAIs and municipalities as if they are on a shared local area network.

The opportunities for collaboration, regionalization, and sharing of services are limited only by lack of education and imagination. MassTech and MBI will work with municipalities and CAIs to help them understand the opportunities before them, to highlight early adopter stories and uses, and to offer technical assistance where needed to assist with adoption and sustainability of the network. Axia has completed its first few network extensions to businesses that were not a part of the scope of the BTOP grant, and they are in the process of preparing cost estimates another twelve new network extensions. Axia expects to further spur economic growth by building more demand-based fiber extensions from the MB123 network to other locations that were not connected during the grant. Axia also plans to provide opportunities for service providers to build from the network.

The Franklin Regional Council of Governments (FRCOG) is promoting the use of broadband for municipalities to help town governments operate more efficiently and spur economic development. For example, the county has volunteer Boards of Health at the municipal level, and volunteers have to travel to Boston for training. FRCOG is encouraging towns to transition to video conference training so the volunteers do not have to miss a day of work and spend money traveling to Boston.

Building a middle-mile network was an important first step in closing the digital divide that exists in Massachusetts. However, today there are still 45 communities in western Massachusetts whose residents and businesses are without widespread broadband capable infrastructure. The House of Representatives in the Massachusetts legislature passed a bond bill that authorizes \$50 million to support MBI's efforts to build last mile infrastructure off of the MassBroadband 123 network in underserved communities. The bill is expected to be taken up by the Senate in the spring of 2014.

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

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	100	In this section, we are calculating Percentage Complete with reference to the approved NTIA budget. Actual Costs are now 123% of the approved budget. MassTech has secured additional non-federal funds from the Commonwealth of Massachusetts to cover those amounts that exceed the approved NTIA budget.
2b.	Environmental Assessment	100	Compliance requirements with environmental mitigation included in Design-Build RFP and the Owner's Project Manager will oversee work. Complete and actual costs are 159% of baseline budget.
2c.	Network Design	100	Some costs included in Network Build are now categorized under Network Design. High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 260% of baseline budget.
2d.	Rights of Way	100	Pole survey work and make ready application costs are complete. Actual costs are 128% of baseline budget.
2e.	Construction Permits and Other Approvals	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 140% of the baseline budget.
2f.	Site Preparation	100	Although some of these costs have been allocated to other categories, actual costs are higher than budgeted. Actual costs are 107 of the baseline budget. Site preparation is essentially complete.
2g.	Equipment Procurement	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 121% of the baseline budget.
2h.	Network Build (all components - owned, leased, IRU, etc.)	96	Behind on budgeted expenditures by 4%; some costs included in the baseline report under this category are being captured under Network Design.
2i.	Equipment Deployment	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 334% of the baseline budget.
2j.	Network Testing	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 162% of the baseline budget.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2k.	Other (please specify):	100	Costs included in this category are: -Federal Compliance Staff -BTOP Non-Construction Staffing -Application and Post Application Submission Costs included in approved budget -Staff, Consulting, and legal costs Costs will be offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 135% of the baseline budget.

3. Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

Not Applicable

Infrastructure Budget Execution Details

Activity Based Expenditures (Infrastructure)

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

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$1,871,196	\$598,342	\$1,272,854	\$2,816,149	\$1,195,537	\$1,620,612	\$2,816,149	\$1,195,537	\$1,620,612
b. Land, structures, right-of-ways, appraisals, etc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$9,317,022	\$2,979,253	\$6,337,769	\$16,759,134	\$7,404,134	\$9,354,258	\$16,759,134	\$7,404,876	\$9,354,258
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$2,218,560	\$709,417	\$1,509,143	\$2,094,959	\$1,810,370	\$284,589	\$2,094,959	\$1,810,370	\$284,589
g. Site work	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$51,193,858	\$19,660,308	\$31,533,549	\$50,880,727	\$22,542,613	\$28,338,114	\$50,880,727	\$22,542,613	\$28,338,114
j. Equipment	\$7,044,808	\$2,252,680	\$4,792,129	\$9,533,477	\$3,685,606	\$5,847,871	\$9,533,477	\$3,685,606	\$5,847,871
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
l. SUBTOTAL (add a through k)	\$71,645,444	\$26,200,000	\$45,445,444	\$82,084,446	\$36,638,260	\$45,445,444	\$82,084,446	\$36,639,002	\$45,445,444
m. Contingencies									
n. TOTALS (sum of l and m)	\$71,645,444	\$26,200,000	\$45,445,444	\$82,084,446	\$36,638,260	\$45,445,444	\$82,084,446	\$36,639,002	\$45,445,444

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

a. Application Budget Program Income: \$0	b. Program Income to Date: \$638,409
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