Middle Mile Grant Program
Bi-Annual Performance Report Form

This form will serve as a tool to capture the Middle Mile Grant Program Bi-Annual performance Report.

The report for the Middle Mile Grant Program is due on a biannual basis for the periods ending March 31 and September 30 of each year. Reports will be due within 30 days after the end of the reporting period.

Technical reports shall contain information as prescribed in 2 C.F.R. § 200.329 (http://go.usa.gov/xkVgP) and Department of Commerce Financial Assistance Standard Terms and Conditions (dated November 12, 2020), Section A.01.

If you have any further questions, or require technical assistance, please reach out to your assigned Federal Program Officer.

Click on the link below to view the report form.

MMG Bi-Annual Performance Report

National Telecommunications and Information Administration (NTIA)
Middle Mile Grant Program
Bi-Annual Performance Report

Note: Form instructions and definitions will be created to support the report. Instructional guidance and training will be developed. Numbering to be updated based on final approved form.

RECIPIENT NAME:

California Department of Technology

OMB Control No.	0660-0052
Expiration Date:	4/30/2026

Middle Mile Grant Program Bi-Annual Performance Report

A. GENERAL INFORMATION

GENERAL	**1a. Recipient Organization:**	**California Department of Technology**	**1h. Award Identification Number:**	**06-40-MM438**
	1b. Recipient Street Address:	**10860 Gold Center Drive**	**1i. Report Date (MM/DD/YYYY):**	10/30/2023
	1c. City, Sate, and Zip Code:	**Rancho Cordova, CA 95670-6024**	**1j. Final Report:**	**Yes** [ ] **No** [✓]
	1d. Unique Entity Identification (UEI) Number:	**VTMETSLNMSW4**	**1k. Report Period Start Date (MM/DD/YYYY):**	**7/1/2023**
	1e. Award Start Date (MM/DD/YYYY):	**7/1/2023**	**1l. Report Period End Date (MM/DD/YYYY):**	**9/30/2023**
	1f. Award End Date (MM/DD/YYYY):	**12/31/2023**		
	1g. Name of Person Completing Report:	**Mark Monroe**		

B. PROJECT NARRATIVE

PROJECT NARRATIVE	Please use the section below to provide a project narrative of the project(s). This section aims to help reviewers better understand what project is being proposed and steps taken to achieve this goal.	
	2a. A brief description of the recipient's organization and scope of work/project priorities:	This project will fund construction of 'spurs' to extend the reach of the California Middle-Mile Broadband Initiative (MMBI) network. CDT began the design of the MMBI network in 2021 after Governor Gavin Newsom signed into law Senate Bill 156 and provided the initial $3.25 billion for the middle-mile broadband infrastructure necessary to bring internet connectivity to homes, businesses, and community institutions throughout California CDT is the lead agency for network design, engineering, and procurement efforts. This project is a major collaborative effort intended to address the vast need for broadband services in unserved and underserved areas across California. The MMG-funded spurs are designed to interconnect with the MMBI network and extend it to deliver middle-mile capacity to rural communities and serve as a jumping-off point for future last-mile networks.
	2b. An overview of the significant outputs and outcomes to be accomplished in the project:	This project is essential to filling the gaps in California's middle-mile infrastructure and advancing the national goals of increasing connectivity, affordability, and equity. The grant and matching funds would enable construction of 707 miles of middle-mile fiber across 39 spurs that are part of the larger statewide middle-mile network, bringing the network within 5 miles of 295,373 unserved addresses and 14 Tribal entities, and within 1,000 feet of 1,124 anchor institutions.
	2c. How would the project meet the recipient's business and/or administrative need(s)?	The project is designed to maximize the number of potential last mile connections for residents and businesses in rural areas on the edge of the MMBI state funded routes.
	2d. Provide an overview of key accomplishments achieved for this reporting period on the MM infrastructure project.	Since signing the grant agreement, the project team has been working with the FPO to begin the project. CDT is in process with a Budget Change Request and has begun working on the six-month expenditure plan, which we expect to file upon approval of the BCR.
	2e. Provide any roadblock experienced during this reporting period impacting the expansion of the MM infrastructure project (i.e., supply chain, availability of labor).	Not Applicable.
	2f. Provide any barriers to improving job quality experienced during this reporting period.	Not Applicable.

C. INFRASTRUCTURE MILESTONE CATEGORIES AND PROJECT TIMELINE

INFRASTRUCTURE MILESTONE CATEGORIES AND PROJECT TIMELINE

Please use the chart below to provide the start date and end date of your project.

OVERALL PROJECT	PROJECT DURATION	3a. PROJECT START DATE	3b. PROJECT END DATE
	1279	July 1, 2023	December 31, 2026

Please provide the duration for each milestone category of your project. The duration should be based on the start and end dates of each category. For example, if you expect to complete a particular milestone within two weeks, fill in the total days (14) in the duration field.

Please use the table provided to indicate your EXPECTED percentage of completion on a bi-annual basis for each year of your project. Year 1 begins with your award start date.

The percentage of completion should be based primarily on the expenditure of your project budget and should be reported cumulatively from award inception through the end of each semi-annual reporting period. For example, if you expect to complete a particular milestone within the first three periods of your project, the third period and all subsequent periods should state 100%.

Please write "0" in the duration field if your project does not include an activity. If necessary, please insert additional milestones at the end.

ANTICIPATED PROJECT MILESTONES				Year 1 Baseline		Year 2 Baseline		Year 3 Baseline		Year 4 Baseline		Year 5 Baseline	
3c. MILESTONE CATEGORIES	3d. DURATION (Days)	3e. START DATE	3f. END DATE	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
Overall Project	1279	July 1, 2023	December 31, 2026	14%	33%	48%	67%	81%	93%	100%	100%	100%	100%
Environmental Assessment	304	July 1, 2023	April 30, 2024	2%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Network Design	121	September 1, 2023	December 31, 2023	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rights of Way	549	July 1, 2023	December 31, 2024	10%	35%	60%	100%	100%	100%	100%	100%	100%	100%
Construction Permits and Other Approvals	364	October 2, 2023	September 30, 2024	10%	25%	60%	100%	100%	100%	100%	100%	100%	100%
Site Preparation	182	April 1, 2024	September 30, 2024	0%	0%	50%	100%	100%	100%	100%	100%	100%	100%
Equipment Procurement	181	October 2, 2023	March 31, 2024	80%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Network Build (all components - owned, leased, Indefeasible Rights of Use, etc.)	*820*	April 1, 2024	June 30, 2026	0%	30%	45%	50%	78%	100%	100%	100%	100%	100%
Equipment Deployment	729	July 1, 2024	June 30, 2026	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%
Network Testing	364	July 1, 2025	June 30, 2026	0%	0%	10%	20%	50%	100%	100%	100%	100%	100%
Status of Procurement	1095	July 1, 2023	June 30, 2026	62%	75%	85%	90%	95%	100%	100%	100%	100%	100%
Other (Please Specifiy):				0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

% OF PROJECT COMPLETION

Please use the table provided to indicate your ACTUAL percentage of completion on a bi-annual basis for each year of your project. Year 1 begins with your award start date.

The percentage of completion should be based primarily on the expenditure of your project budget and should be reported cumulatively from award inception through the end of each semi-annual reporting period. For example, if you expect to complete a particular milestone within the first three periods of your project, the third period and all subsequent periods should state 100%.

Please provide a brief description of the primary activities involved in meeting each milestone (a single description should be provided for each milestone, covering all periods in years one through N). Please write "N/A" if your project does not include an activity. If necessary, please insert additional milestones at the bottom of the chart. Please add additional milestones as applicable.

ACTUAL PROJECT MILESTONES		Year 1		Year 2		Year 3		Year 4		Year 5	
		Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
4a. MILESTONE	4b. DESCRIPTION	Actual Milestone Completion (Cumulative)									
Overall Project	**Completion of network buildout**	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Environmental Assessment	**Completion and acceptance of Environmental/NHP/Tribal consulta**	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Network Design	**Finalize Detailed Engineering/Design**	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Rights of Way	**Completion of licenses, general permits, and relevant agreements**	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Construction Permits and Other Approvals	**Completion of special permits as needed**	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Site Preparation	**Preparation of sites for construction**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Procurement	**Completion of procurement of materials and equipment**	80%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Network Build (all components - owned, leased, Indefeasible Rights of Use, etc.)	**Status of progress of network build**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Deployment	**Completion of deployment of business and operational support sys**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Network Testing	**Completion of Network Testing to ensure operations**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Status of Procurement	**Receipt of procured materials and equipment**	62%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other (Please Specify):	**N/A**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Subrecipient and Subawards

List of Subrecipient(s) that received a subaward or subcontract from the eligible entity and a description of the specific project for which grant funds were provided.

Associate projects names to any subrecipient or subaward associated with grant, approved grant funds, and expenditures to date.

5a. Project Name	5b. Project Description	5c. Subrecipient	5d. Minority Business Enterprise (MBE)	5e. Women's Business Enterprise (WBE)	5f. Labor Surplus Area Firm	5g. Awarded Funds	5h. Expenditures to Date	5i. Remaining Grant Balance	5j. % of work complete
N/A			Yes ☐	Yes ☐	Yes ☐				
N/A			Yes ☐	Yes ☐	Yes ☐				
N/A			Yes ☐	Yes ☐	Yes ☐				
N/A			Yes ☐	Yes ☐	Yes ☐				

D. INFRASTRUCTURE BUDGET EXECUTION DETAILS

INFRASTRUCTURE BUDGET EXECUTION DETAILS

Please provide details below on your total budget and total fund expended to date for each budget element, including detailed disbursements of both matching funds approved and federal funds obligated from project inception through end of this reporting period. Figures should be reported cumulatively from award inception to the end of the applicable reporting period.

6a. Projected Budget Element	6b. Federal Funds	6c. Non-Federal Funds	6d. Total Project Budget	6e. Total Federal Funds Expended to Date	6f. Total Non-Federal Funds Expended to Date	6g. Total Funds Expended	6h. Percent of Federal Funding Expended to Date (Cumulative)
Administrative and legal expenses	$ -	$ -	$ -	$ -	$ -	$ -	0%
Land, structures, rights-of way, appraisals, etc.	$ -	$ -	$ -	$ -	$ -	$ -	0%
Relocation expenses and payments	$ -	$ -	$ -	$ -	$ -	$ -	0%
Architectural and engineering fees	$ 25,387,800.00	$ -	$ 25,387,800.00	$ -	$ -	$ -	0%
Other architectural and engineering fees	$ -	$ 1,560,000.00	$ 1,560,000.00	$ -	$ -	$ -	0%
Project inspection fees	$ -	$ -	$ -	$ -	$ -	$ -	0%
Site work	$ -	$ -	$ -	$ -	$ -	$ -	0%
Demolition and removal	$ -	$ -	$ -	$ -	$ -	$ -	0%
Construction	$ 47,612,200.00	$ 104,091,247.87	$ 151,703,447.87	$ -	$ -	$ -	0%
Equipment	$ -	$ -	$ -	$ -	$ -	$ -	0%
Miscellaneous	$ -	$ -	$ -	$ -	$ -	$ -	0%
Subtotal	**$ 73,000,000.00**	**$ 105,651,247.87**	**$ 178,651,247.88**	**$ -**	**$ -**	**$ -**	**0%**
Contingencies	$ -	$ 8,934,958.16	$ 8,934,958.16	$ -	$ -	$ -	0%
Totals	**$ 73,000,000.00**	**$ 114,586,206.03**	**$ 187,586,206.04**	**$ -**	**$ -**	**$ -**	**0%**

E. COMMUNITY BENEFIT AGREEMENT

COMMUNITY BENEFIT AGREEMENT

As stated in the MM Grant Program NOFO a Community Benefit Agreement (CBA) is an agreement signed by community benefit groups and a developer, identifying the community benefits a developer agrees to deliver, in return for community support of the project.

Please use the fields below to state the Community Benefit Group and Developer Name and describe the activities in how this partnership has supported with the Middle Mile Infrastructure project (i.e. wage agreements, targeting hiring of apprentices and disadvantaged groups in labor marker, education and training opportunities, sub-contracting to local small business for construction, services, and supply chain needs).

Description of Community Agreement

7a. Community Benefit Group Name: Please provide the name of the Community Benefit Group

N/A

7b. Developer Name: Please provide the name of the Developer

N/A

7c. Community Benefit Group and Developer Partnership: Please describe in the space below the nature of the partnership and how the MM grant funds being used are assisting to provide community support for the infrastructure project.

N/A

F. CLIMATE RESILIENCE

CLIMATE RESILIENCE

Recipients must demonstrate that they have sufficiently accounted for current and future weather and climate related risks to new MM infrastructure projects. At present, weather and climate related risks to broadband networks include wildfires, extreme heat and cold, inland and coastal flooding, and the extreme winds produced by weather events such as tornadoes, hurricanes, and other weather events. Because retrofitted and new infrastructure for broadband might be expected to have a lifetime of 20 years or more, recipients must account not only for current risks but also for how the frequency, severity, and nature of these extreme events may plausibly evolve as our climate continues to change over the coming decades.

Climate Resiliency Risk Mitigation

This purpose of this section is for the recipient to demonstrate that they have sufficiently accounted for current and future weather and climate-related risks to new MM infrastructure projects. In particular, each recipient should demonstrate how they've addressed the known and identifiable risks of current and future projected weather and climate conditions through measures such as (but not limited to) choice of a technology platform suitable to the climate risk of the region, reliance on alternatives siting of facilities (i.e., underground construction where appropriate), retrofitting, or hardening of existing assets, and use of network redundancy to safeguard against threats to infrastructure.

8a. Were any geographic areas identified for **this reporting period** subject to an initial and/or updated hazard screening for future weather and climate related risk? If so, please provide **the date of the screening and provide related documentation as an attachment to this report.**

No geographic areas were identified ***during this reporting period*** *were subject to an updated hazard screening.*

8b Climate Resilience Category	8c. Date of Most Recent Hazard Screening	8d. Name and Title of Representative Completing Most Recent Hazard Screening	8e. Date of Report Completion
N/A	**N/A**	**N/A**	N/A

8f. Identified Risk: For your MM project, what are the potential weather and climate hazards that may be most important to be addressed that could impact the resiliency of the middle mile infrastructure deployed (i.e. wildfires, extreme heat and cold, inland and coastal flooding, extreme winds: tornadoes, hurricanes and other weather events)?

Identified risks include: Wildfires, flooding, snow, high winds, extreme heat, and extreme cold.

8g. Weather and Climate Hazards: Were any significant climate or weather hazards experienced during this reporting period (i.e., floods, tornados) impacting infrastructure buildout or service? Briefly describe how you monitored for weather and climate caused issues for the reliability of the system. If so, please provide the date of the disaster, location and backup documentation related (i.e., news articles).

No significant climate or weather hazards were experienced during this reporting period. There was no construction during this time period.

8h. Risks to Deployment of New Infrastructure: Has the team identified any risks impacting the deployment of new or repaired infrastructure due to current and future weather and climate-related threats during this reporting period?

Yes. Due to the issues relating to aerial communications lines and their vulnerability to wildfires and high winds, a core decision was made by CDT and GoldenStateNet to primarily build the statewide middle-mile network underground along State highway rights-of-way. While there will be some minor exceptions where terrain or other geological factors make it impossible or too costly, the undergrounding at the depth of approximately 36 inches will help insulate and protect the conduit and fiber from effects of wildfires, floods, and other hazards. Additional climate related hazards that we anticipate may impact the project in the future include winter weather in the mountainous regions, earthquakes, potential flooding, high winds across various areas of the state, and extreme heat in the desert regions during the summer months.

8i. Risk Mitigation: How will the project avoid and/or mitigate the risk identified? If not applicable, please explain why.

Plans to avoid and/or mitigate climate change risks are considered and include the following: GoldenStateNet, in its role as TPA, oversees designing and constructing the statewide, open-access California Middle Mile Broadband Initiative (MMBI), a 10,000-mile network. GoldenStateNet has focused on resiliency and reliability as a core design element. It also has considered the vulnerability of aerial fiber lines given the frequency of wildfires in the high fire threat districts in the State. CDT and GoldenStateNet have ensured that the MMBI backbone network will be designed with a redundant ring topology throughout the State. Should there be a fiber cut due to an accident or a wildfire that melts the fiber, the network will intelligently reroute the Internet traffic away from the fiber cut and onto a different redundant path due to the ring topology design, allowing the data packets to be delivered to its destination. Should there be a middle-mile spur leading to a last-mile unserved/underserved project, the last-mile provider ideally will design the system to include fixed wireless backhaul to the Internet exchange point to ensure redundancy.

8j. Additional Information: Is there any additional information you would like to share during this reporting period that the grant team should be aware of regarding the management of sustainable climate resiliency for your MM project?

Not at this time.

8k. Additional Resources
Has the team utilized the available resources to assist with mitigation and long-term planning efforts for this reporting period? If so, which resources?
2018 National Climate Assessment
NOAA's 2022 State Climate Summaries
NOAA Disaster and Risk Mapping Tool
NOAA's Storms Event Database
NOAA Climate Explorer and Digital Coast
FEMA National Risk Index
Consulted FEMA-approved Hazard Mitigation Plans prepared by states in which they propose to build middle mile infrastructure to help identify key risk and hazards

For the current reporting period, the team has not utilized the above resources, but all applicable resources from this list will be utilized in future reporting updates on climate resilience mitigation and long-term planning activities. Resources utilized by the program team to help identify risks as part of the application included the California Department of Forestry and fire protection (fire.ca.gov) and the California Public Utility Commission threat map resource.

G. Workforce

DAVIS-BACON ACT CERTIFICATION

For projects receiving over $5,000,000 (based on expected total cost), as determined by the U.S. Secretary of Labor by subchapter IV of chapter 31 of title 40, United States Code (commonly known as the "Davis-Bacon Act"), all laborers and mechanics employed by contractors and subcontractors in the performance of such project are paid wages at rates not less than those prevailing.

Davis-Bacon Act Certification

9a. Does the recipient have access to the information requested (all laborers and mechanics employed by contractors and subcontractors in the performance of such project are paid wages at rates not less than those prevailing?)	**Yes** ☐	**No** ☑	

LOCAL HIRE PRIORITIZATION AND IMPACT

Local Hire Prioritization and Impact

Local hiring is a goal or requirement to hire people who live close to the place of work. This aim is often more specifically structured as a requirement for contractors awarded certain types of publicly funded projects to recruit a certain proportion of the people working on the project from a particular area. Please **provide all direct hires and contractors supporting** the MM Infrastructure project.

Please use the table below to describe how the project prioritizes local hiring.

Hires by Race, Ethnicity and Gender	Number of Hires																				
	Race/Ethnicity																				
	9b. Hispanic or Latino			9c. Non-Hispanic/Non-Latino																	Totals
				9c-1. Men						9c-2. Women						9c-3. X					
	9b-1. Men	9b-2. Women	9b-3. X	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	
Number of Local Direct Hires	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Number of Non-Local Direct Hires	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Percentage of Local Direct Hires on Award	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Number of Local Subcontractors	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Number of Non-Local Subcontractors	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Percentage of Local Subcontractors on Award	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

DAVIS-BACON WAGES

Davis-Bacon Act Wages

Please confirm if wages are at least prevailing*

*As stated in the MM NOFO as determined by the U.S. Secretary Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly known as the "Davis-Bacon Act"), for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the State (or the District of Columbia) in which the work is to be performed.

10a. Are wage rates at least the Davis-Bacon prevailing wage for all laborers?	**Yes** ☐	**No** ☐	10c. Are wage rates at least the prevailing wage for all mechanics?	**Yes** ☐	**No** ☐	
10b. Please cite your source of how this information was gathered (for 10a).			10d. Please cite your source of how this information was gathered (for 10c).			

10e. If you answered "No" to either 10a. or 10c., please provide an attachment reporting the wages and benefits of workers on the project by job classification, and whether those wages are less than the prevailing wage.

WORKFORCE DEMOGRAPHICS

Workforce Demographic Data

Jobs by Race, Ethnicity and Gender	Number of Jobs																				
	Race/Ethnicity																				
	11-a. Hispanic or Latino			11b. Non-Hispanic/Non-Latino																	Totals
				11b-1. Men						11b-2. Women						11b-3. X					
	11a-1. Men	11a-2. Women	11a-3. X	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	
Jobs Created	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jobs Retained	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

UNIONIZED WORKFORCE

12-a. Does this project include some workforce elements that are unionized?	**Yes** ☐	**No** ☐	12-c. Does your MM project utilize a project labor agreement?	**Yes** ☐	**No** ☐
12-b. Are workers provided access to union educators/organizers on employer property or during the work day?	**Yes** ☐	**No** ☐	12-d. Did workers receive additional information or training about their workplace rights in addition to already required notice postings?	**Yes** ☐	**No** ☐

H. Workforce Continuity Plan
National Labor Relations Act (29 U.S.C. 158 (f)

WORKFORCE CONTUNITY PLAN NATIONAL LABOR RELATIONS ACT

As stated in the MM NOFO, if a recipient has not provided a certification that a project either will use a unionized project workforce or included a project labor agreement, meaning a pre-hire collective bargaining agreement consistent with section 8(f) of the National Labor Relations Act (29 U.S.C. 158 (f)), then the recipient must provide a project workforce continuity plan.

Workforce Continuity Plan

13a. Please describe the steps taken to ensure the project has ready access to a sufficient supply of appropriately skilled and unskilled labor to ensure construction is completed skillfully throughout the project's life (as required in Section III.B of the MM NOFO). As stated in the MM NOFO, the middle mile grant recipient is capable of carrying out the proposed project in a competent manner, including a plan to attract or retain an appropriate skilled and credentialed workforce.

For your MM project, please provide a brief description of efforts made to attract, train or retain a skilled and credentialed workforce.

Has the team offered any of the following resources to assist with maintaining a sufficient supply of appropriately skilled labor force for this reporting period? If so, which resources (please provide a brief description of any of the following that apply):
Professional Certifications
In-House Training
Registered Apprenticeships
Labor-Management Partnerships
Partnerships with entities like unions, community colleges, or community-based groups

There have been a variety of competitive procurements to help the state ensure it is getting the most qualified personnel. A recent competitive public bid process was undertaken for additional and alternative staffing needs to supplement Caltrans needs. Enabling legislation (SB 156 https://legiscan.com/CA/text/SB156/id/2425443) for the MMBI program as a whole provides and authorizes additional flexibility. The ability of contractors to ensure Professional Certifications, In-house Training, Registered Apprenticeships, Labor-Management Partnerships and Partnerships with entities like unions, community colleges, or community-based groups were important attributes in making award decisions. These stakeholders have included organizations such as the Communications Workers of America and the Nevada Conference of Operating Engineers where the CDT team has had in person meeting to discuss workforce needs.

13b. Please describe below, the steps taken to minimize risks of labor disputes and disruptions that would jeopardize the timeliness and cost-effectiveness of completing the MM project.

The program team engages in outreach with the various stakeholder organizations to ensure, among other areas, that potential risks of labor disputes and disruptions are minimized. As noted above, the program team will regularly meet with stakeholders (including organizations such as the Communications Workers of America and the Nevada Conference of Operating Engineers where the CDT team has had in person meeting to discuss workforce needs). Further, the state requires its contractors to adhere to CalOSHA laws and regulations. CDT has authorized agents (California Department of Transportation, Alternative Delivery Methods/ADMs) on their behalf to implement protocols to minimize risks of labor disputes and disruptions that might jeopardize the timeliness and cost-effectiveness of completing the MM project.

13c. Please describe below the steps to ensure a safe and healthy workplace that avoids delays and costs associated with workplace illnesses, injuries, and fatalities.

As above, the program team engages in outreach with multiple stakeholder organizations to ensure, among other areas to ensure a safe and healthy workplace. Further, the state requires its contractors to adhere to CalOSHA laws and regulations. CDT has authorized agents (California Department of Transportation, Alternative Delivery Methods/ADMs) on their behalf to implement these protocols.

13d. For your MM project, please provide a brief description below of efforts made to ensure a safe and healthy workplace.

Has the team offered any of the following resources to assist with maintaining a safe and healthy workplace for this reporting period? If so, which resources (please provide a brief description of any of the following that apply):
Safety Training
Certifications and/or Licensure Requirements for all relevant works (e.g., OSHA 10, OSHA 30, confined space, traffic control, or other training required of workers employed by contractors)
Issues raised by workplace safety committees and their resolutions

Because construction has not yet started, resources were not offered to assist with maintaining a safe and healthy workplace for this reporting period.

13e. Please provide the name(s) below of any subcontracted entities performing work on the project, and the total number of workers employed by each entity.

13e-1. Name of Subcontracted Entity Performing Work	13e-2. Total Number of Workers within this Subcontract	13e-3. Job Categories of Workers Supporting Project within this Subcontract
N/A		

13f. Please describe below the steps taken to ensure that workers on the project receive wages and benefits sufficient to secure an appropriately skilled workforce in the context of the local and regional labor market.

The contracts require use of prevailing wages or better. All workers employed on public works projects must be paid the prevailing wage determined by the Director of the Department of Industrial Relations, according to the type of work and location of the project. The prevailing wage rates are usually based on rates specified in collective bargaining agreements. (https://www.dir.ca.gov/Public-Works/Prevailing-Wage.html)

I. ANCHOR INSTITUTIONS

TITUTIONS

Please provide Anchor Institution (AI) data for the current period only (not cumulative). Please add rows as needed.

14a. Anchor Institution Name	14b. Street Address	14c. City	14d. State	14e. Type of Anchor Institution	14f. Interconnection within 1,000 Feet of AI Enabling Gig Symmetrical Service	14g. Narrative Description of how the Anchor Institution may benefit from the Grant Funded Infrastructure
N/A						

ANCHOR INS						

J. BROADBAND ACCESS KEY INDICATOR: SUBSCRIBERS AND SPEED

PROJECTED NUMBER OF SUBSCRIBERS AND SPEED

Please use the following table to provide **anticipated key indicators with the projected totals for each beneficiary category, access type and speed category for your infrastructure service or project**. Except as indicated, information should be reported cumulatively from award inception through the end of the semi-annual period for Semi-Annual Indicators. Please write "N/A" if your project does not include this indicator.

PROJECTED NUMBER OF SUBSCRIBERS AND SPEED		Year 1		Year 2		Year 3		Year 4		Year 5	
SUBSCRIBER TYPE	ACCESS TYPE	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
15a. Anchor Institutions (AIs)	15a-1. Total number of AIs passed	0	248	496	744	992	1268	1268	1268	1268	1268
	15a-2. Number of AIs within 1,000 feet of the middle mile infrastructure	0	248	496	744	992	1268	1268	1268	1268	1268
	15a-3. Total number of AIs served	0	0	0	0	0	0	0	0	0	0
	15a-4. AIs with new access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15a-5. AIs with improved access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15a-6. Total number of AIs served with speeds of at least 1/1Gbps	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15b. Broadband Wholesalers or Last Mile Providers	15b-1.Total number of broadband wholesalers or last mile providers served	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15b-2. Broadband wholesalers or last mile providers with new access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15b-3. Broadband wholesalers or last mile providers with improved access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15b-4. Total number of broadband wholesalers or last mile providers offering speeds of at least 25/3 Mbps	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15b-5. Total number of broadband wholesalers or last mile providers offering speeds of at least 100/20 Mbps	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15b-6. Total number of broadband wholesalers or last mile providers offering speeds of at least 1/1 Gbps	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

K. BROADBAND ACCESS KEY INDICATOR: NETWORK BUILD PROGRESS

NETWORK BUILD PROGRESS

Please use the following table to provide **anticipated key indicators and progress of your Infrastructure project.** Except as indicated, information should be reported cumulatively from award inception through the end of the semi-annual period. Please write "N/A" if your project does not include this indicator.

NETWORK BUILD PROGRESS	Year 1		Year 2		Year 3		Year 4		Year 5	
KEY INDICATOR	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
16a. Total of new fiber miles (aerial or buried)	0	0	272	408	544	680	680	680	680	680
16b. Total of fiber miles leased	0	0	0	0	0	0	0	0	0	0
16c. Total of existing fiber miles upgraded	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16d. Total of new microwave links	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16e. Total of new towers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16f. Total of new interconnection points	0	0	1	2	3	3	3	3	3	3
16g. Total of signed agreements with broadband wholesalers or last mile providers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16h. Total of potential agreements (i.e., agreements currently being negotiated) with broadband wholesalers or last mile providers (This Total should NOT be reported cumulatively)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

L. QUANTIABLE METRICS

FIBER OPTIC BASED

Quantifiable Metrics - Section designed to assist with **reporting** and **audit** purpose to quantify how much progress was made and track the location of where the progress was made.

17a. Fiber Optic Based	Year 1		Year 2		Year 3		Year 4		Year 5	
	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
17a-1. Is the fiber a buried/aerial or undersea application?	Buried Application						N/A	N/A	N/A	N/A
17a-2. Number of strands deployed	0						N/A	N/A	N/A	N/A
17a-3. Number of miles of buried fiber deployed	0						N/A	N/A	N/A	N/A
17a-4. Number of miles of aerial fiber deployed	0						N/A	N/A	N/A	N/A
17a-5. Estimated capacity of fiber (i.e. throughput)	0						N/A	N/A	N/A	N/A
17a-6. Deployment cost per mile of buried fiber optics	0						N/A	N/A	N/A	N/A

17a-7. Deployment cost per mile of aerial fiber optics	0						N/A	N/A	N/A	N/A
17a-8. Total Spent on Buried Fiber Deployment this reporting period	0						N/A	N/A	N/A	N/A
17a-9. Total Spent on Aerial Fiber Deployment this reporting period	0						N/A	N/A	N/A	N/A
17a-10. Total spent on Fiber Deployment this reporting period	0						N/A	N/A	N/A	N/A
17a-11. Please provide any additional information about the Fiber Optic deployment (200 words or less)	**N/A**									
17a-12. Please provide the digital mappings (e.g., CAD, Revit, KMZ, KML) for the microwave nodes created during this reporting period.										

MICROWAVE BASED

17b. Microwave Based	Year 1		Year 2		Year 3		Year 4		Year 5	
	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
17b-1. How many microwave nodes have been deployed?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-2. How many microwave nodes are operating for reporting period?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-3. Installation cost per microwavable node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-4. Number of new towers built to support microwave structure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-5. If applicable, what type of tower was constructed (a) Monopole (b) Self-Support, or (c) Guyed during this reporting period?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-6. Average cost per tower installed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-7. Total spend on Tower deployment this reporting period	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-8. Total spend on microwave deployment this reporting period	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17b-9. If you answered "other" to question 5a.6 or if it is a combination of multiple types, please provide a detailed narrative description detailing what type of tower or what combination of towers is used for the project and the their associated costs. (200 words or less).	N/A									
17b-10. Please provide the digital mappings (e.g., CAD, Revit, KMZ, KML) for each new aerial fiber and buried fiber equipment installed during this reporting period.										

SATELLITE

17c. Satellite	Year 1		Year 2		Year 3		Year 4		Year 5	
	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
17c-1. What satellite provider is being used?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17c-2. What is the estimated capacity of the satellite link (i.e. throughput)?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17c-3. What is the associated cost to use this satellite service?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17c-4. Please provide any additional information about the Satellite deployment (200 words or less)	N/A									
17c-5. Please provide the digital mappings (e.g., CAD, Revit, KMZ, KML) for each new aerial fiber and buried fiber equipment installed during this reporting period.										

CERTIFICATIONS

Certifications

18. Please provide certification evidencing compliance with Federal labor and employment laws along with the requirements of Infrastructure Investment and Jobs Act and Middle Mile Grant Program, for the bi-annual period for which this report is being filed.

I hereby certify compliance with Federal labor and employment laws along with the requirements of the IIJA and Middle Mile Grant Program for the period ending September 30, 2023.

19. Please provide certification evidencing compliance with the Build America, Buy America Act. The Build America, Buy America Act requires that all of the iron, steel, manufactured products (including but not limited to fiber-optic communications facilities), and construction materials used in the project or other eligible activities are produced in the United States unless a waiver is granted.

I hereby certify compliance with the Build America, Buy America Act for the IIJA and Middle Mile Grant Program for the period ending September 30, 2023.

MM GRANT PROGRAM BI-ANNUAL REPORT CERTIFICATION

20. I certify to the best of knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.

20a. Typed or Printed Name and Title of Authorized Certifying Official:	**20c. Telephone (area code, number and extension):**	**916-956-6768**
Mark Monroe	**20d. Email Address:**	mmbi.ntia@state.ca.gov
20b. Signature of Certifying Official:		
Mark Monroe Mark Monroe (Jan 16, 2024 16:08 PST)	**20e. Date:**	Jan 16, 2024