



Engineering Services for Light Rail Fiber Optic Design

Presented to:

Operational Planning & Infrastructure Committee

December 3, 2024

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Engineering Services for Light Rail Fiber Optic Design

Project Overview:

- Currently communications along the Trunk, Blue, and Green Lines are by leased lines, radios, and copper cable.
- A new fiber optic network will encompass the entire light rail system.
- A new fiber optic network was recently installed on the Red Line.



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Project Overview:

- The fiber optic network shall be a state-of-the-art communication system.
- The anticipated useful life is at least 20 years.
- Design will be by consultant.

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Scope of Work includes:

- Inspection of the Blue and Green Lines
- Complete plans and specifications
- Coordination with the Trunk Line consultant
- Preparation of construction estimates
- Light signal (link) loss budget calculation
- Project Bid Support
- Project Construction Support

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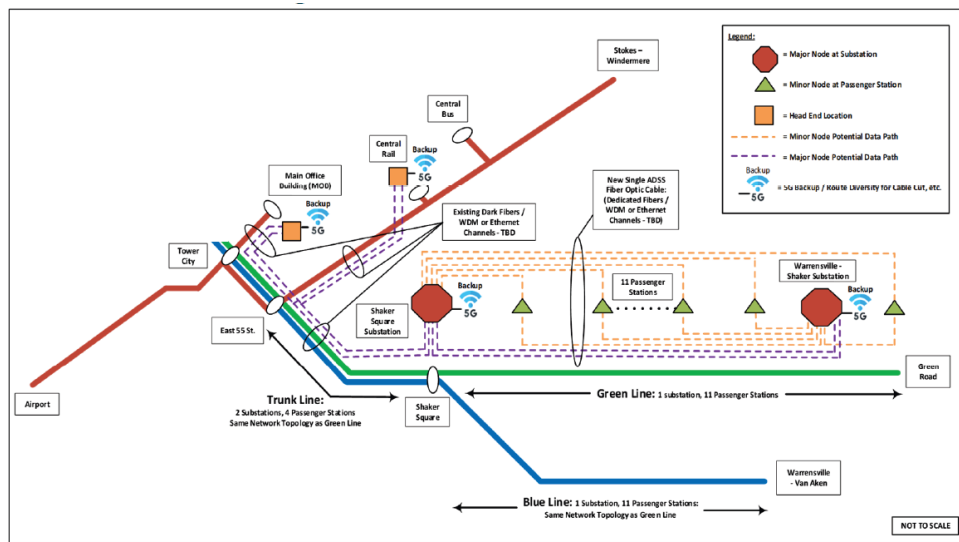


Fiber optic cable project design –
Blue & Green Lines only

Greater Cleveland Regional Transit Authority

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Engineering Services for Light Rail Fiber Optic Design



Fiber optic network design –
Blue, Green and Trunk Lines

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Procurement Overview:

- Request for Proposal (RFP) issued June 16, 2024
- Accessed on the GCRTA website by forty-one (41) interested parties
- One (1) firm submitted a proposal
- One (1) firm was interviewed

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Evaluation Panel Members:

- Engineering and Project Development
- Power & Way
- Office of Management and Budget
- Safety
- Transit Police (Security)
- Procurement

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Evaluation Criteria:

- Project Manager
- Assigned Staff
- Past Performance
- Project Approach
- Location of Majority of Work
- DBE Participation

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Most technically qualified vendor:

- Burns Engineering, Inc., Philadelphia, PA

An 6% DBE goal was assigned to this project and will be met by utilizing:

- Integrations Communications Plans, LLC
- Denise's Flagging and Construction Services, Inc.

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Firm Experience:

- Burns Engineering, Inc. has successfully completed projects for the Port Authority of New York, Massachusetts Bay Transportation Authority, Amtrak, and Wabtec, among others.
- A history of performing on rail projects.
- A clear and acceptable project approach.

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Recommendation:

Staff Requests that the Operational Planning and Infrastructure Committee recommend award to Burns Engineering, Inc. for Engineering Services for the Light Rail Fiber Optic Design. The contract is not to exceed \$1,026,609.82.

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Questions

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