



Blake Toliver

February 2, 2024

Superintendent of Electric Operations

E: btoliver@rmu.net

P: (815) 561-2034

Ref: Cost Proposal for 3303 Downtown UG Conversion

Dear Mr. Toliver,

Thank you again for coming to BHMGM for a proposal on the engineering and design work on the Downtown UG Conversion. The project scope is detailed in Appendix A and includes design considerations, submittal requirements, project contacts, roles/responsibilities, and clarifications. The project scope assumes the layout will remain similar to the image attached at the end of the scoping documents.

BHMGM will provide engineering and design services to support all work required by the project, as stated in the provided scoping document. See 'Table 1' below for proposed project costs:

Table 1: Consultant Design Cost Proposal

Description	Cost
Engineering Services	\$ 110,300
Project NTE Total	\$110,300.00

*Note: Construction Management not included in above amount but available as T&E

The following appendices are included for additional information:

- Appendix A: Detailed Project Scope

BHMGM appreciates this opportunity to provide Rochelle Municipal Utilities with these services. Should any questions arise, please contact me at your convenience.

Sincerely,

Chris Couch
Assistant Project Manager



Appendix A - Scope Document
Rochelle Downtown Underground Conversion
UG Design

Rev. 0
2/2/2024

A. GENERAL DESCRIPTION

The scope of the job entails converting downtown feeder #4 from 6th avenue to 4th avenue along the alley between Lincoln and Main; connecting onto existing feeder #41. This converts the feeder section from OH 4160V to UG 13,800V. This upgrade will improve the reliability and safety of the line and load growth for EV charging. This project will lead to all utilities being underground in this corridor for the downtown area and bring better aesthetics for the critical retail area.

B. DETAILED WORK DESCRIPTION

a. Protective Relay Design:

i. None

b. Civil Design:

i. Asphalt alley patching

c. Line Design:

i. Design approximately 1,000 ft. of underground 13.8kV Line

1. Ampacity: 200A (to be finalized)

2. Conduit Size: TBD

3. Junction Styles: Above grade junction boxes

4. Open cut trench and direct bury conduit

5. Transferring 3 fibers to underground conduit

6. Existing secondary taps will be buried and brought to existing exterior wall meters

ii. See image at end of the scope document

C. MAJOR EQUIPMENT TO BE REMOVED

a. Existing OH Line to be removed

D. CLIENT PROVIDED DRAWINGS AND INFORMATION

a. RMU's existing GIS system

b. RMU design standards

E. ROLES AND RESPONSIBILITIES

a. RMU Responsibilities:

i. Review IFR design deliverable and provide design direction and comments within ten (10) working days.

ii. Quoting, procuring, and coordinating any material required for project, that is not included in the Contractor's scope.

iii. RMU will coordinate outages on feeders as required for construction.

iv. RMU will coordinate and acquire any permits needed for installation and construction of design.

v. RMU will acquire exhibits and easements for the required alignment of this project.

vi. RMU will acquire any survey services. Level of survey will be specified in project KO meeting

vii. RMU will complete (design/procure/construct) any distribution work, not included in this scope, that is required and/or desired for the taps to the 13.8kV circuit.



Appendix A - Scope Document
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viii. If new metering is required out of spec after IFR, RMU to spec out and install

b. BHMg Engineers Responsibilities:

- i. Project Management
 - 1. Scope of work (this document)
 - 2. Cost proposal
 - 3. Site Visits
 - 4. Client Project Status Meetings
 - 5. Start-up Procedure Support
 - 6. Outage Sequence Planning Support
- ii. Provide design deliverables within milestones listed in Section G.
 - 1. Issued for Review (IFR) Design
 - a. Engineering design package
 - i. Plan Drawings
 - ii. Riser Diagrams
 - b. Google Earth layout file (.kmz)
 - c. Long Lead Time Material Quantities
 - 2. Issued for Bid (IFB) Package
 - a. Bid Specification
 - b. Itemized Bid Units
 - c. Bid level construction package
 - d. Bill of Material
 - 3. Issued for Construction (IFC) Package
- iii. BHMg will provide list of required easements (parcels and Width) for RMU to acquire.
- iv. Procurement / Bid Solicitation
 - 1. Long Lead Time material support
 - 2. Labor and Material bids
 - a. Prepare and manage sealed bids
 - 3. Contract Management
- v. Construction Support
 - 1. Construction staking is included as part of this proposal.
- vi. Construction Administration (the services can be provided T&E outside of contract)
 - 1. Hosting Pre-Bid, Pre-Construction, and biweekly construction update calls.
 - 2. Remote (phone, virtual meetings, etc.) design support during construction.
 - 3. Field visits during construction, at RMU or Contractors request.
 - 4. Final walkdown of completed project.
- vii. Record Drawings
 - 1. BHMg will provide final Record Drawings after construction is complete.

F. CLARIFYING COMMENTS & ASSUMPTIONS

- a. No real estate or easement support by BHMg is anticipated as part of this proposal.
- b. Design will be NESC compliant.

G. SUBMITTALS / DELIVERABLES



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- a. Long Lead Time Considerations
 - i. Transformers = 52 weeks
 - ii. Cable = 52 weeks
- b. Submittal Milestones (*These dates are assuming BHMg has received a Purchase Order for this proposed/scoped work by 02/09/2024*)
 - i. Design Start = 04/15/2024
 - ii. Issued for Review (IFR) Design = 05/15/2024
 - iii. Issued for Bid (IFB) Design / Final Bill of Material (BOM) = 06/15/2024
 - iv. Issued for Construction (IFC) = 2 weeks prior to construction start
 - v. Construction Start = TBD (Depends on long lead time materials)

H. CRITICAL DATES – These are tentative dates and subject to change

- a. In Service Date: TBD

I. WORK ORDER

- a. TBD

J. PURCHASE ORDER

- a. TBD

K. PROJECT TEAM

- a. Project Management Contact Details:
 - i. Chris Couch – Assistant Project Manager
 - 1. Tel: (636) 237-7823
 - 2. Email: ccouch@bhmg.com
 - ii. Any questions, comments or concerns related to Project Management should be addressed to the above-named individuals.
- b. Line Engineering Contact Details:
 - i. Jake Beerman – Project Engineer
 - 1. Tel: (636) 692-8082
 - 2. Email: jbeerman@bhmg.com
 - ii. Designer - TBD
 - iii. Any questions, comments or concerns related to Line Design should be addressed to the above-named individuals.
- c. RMU:
 - i. Blake Toliver – Superintendent of Electric Operations
 - 1. Tel: (815) 561-2034
 - 2. Email: btoliver@rmu.net
 - ii. Jay Mulholland – Electric / Water Department
 - iii. Any questions, comments or concerns related to Customer Relations should be addressed to the above-named individuals.



Replace existing XFMR with 13.8kV

Need to verify where source converts to 13.8kV from 4.16kV

New 3-ph pad mtg xfmr

New UG secondary feed

Connect into existing JB as starting spot for line

New 1-ph pad mtg xfmr

#4/0 UG in conduit, one 4" for city fiber, and 2-4" for Metrolink fiber

Risers for fiber and telecom, plan for several per block

New 3-ph pad mtg xfmr, need to plan for USPS electrification

Need to verify if this OH is fed from another location

New pad mtg 3-ph xfmr 120/208

New pad mtg 3-ph xfmr verify voltage

New UG secondary conduits

#4/0 UG in conduit, one 4" for city fiber, and 2-4" for Metrolink fiber

Fiber will need to extend to rise up poles

Rochelle Downtown UG conversion 12/04/2023