



BHMGM Engineers, Inc.

9735 Landmark Parkway Drive  
Suite 110A  
St. Louis, MO 63127

Mr. Blake Toliver  
Superintendent of Electric Operations and Generation

October 15, 2024

E: btoliver@rmu.net

P: (815) 561-2034

Ref: Power Plant Feeder Exit Upgrades PCR #1

Dear Mr. Blake Toliver,

This project change request captures additional design effort outside of the original project scope for the Power Plant Feeder Exit Upgrades project. Additional effort breakdown is captured below:


- **Design Changes**
  - Riser poles location changes, removal of all north-south overhead, added junction cabinet to the north UG line, change out of fused junction cabinet to switchgear
- **Line Design to RR Museum & RR Permitting**
  - Added effort to design, BOM, and drawings for RR museum line
  - Manage and coordinate submittal and payment for RR permitting
- **Grant Support Work**
  - Effort to support grant submittal and inefficiencies from halting project

Table 1 breaks down the current and revised project NTE contract amounts. BHMGM appreciates this opportunity to provide Rochelle with these services. Should any questions arise, please contact me at your convenience.

**Table 1: Current and Revised Project NTE Contracted Amounts**

BHMGM Cost Proposals:	Amount:
Initial Proposal	\$ 86,800.00
PCR #1	\$ 31,100.00
<b>Project Total NTE Amount</b>	<b>\$ 117,900.00</b>

Sincerely,

  
**Chris Couch**  
Assistant Project Manager

[bhmg.com](http://bhmg.com)  
636.296.8600



Blake Toliver

April 14, 2023

Superintendent of Electric Operations / RMU

E: btoliver@rmu.net

P: 815.561.2034

Ref: Cost Proposal for Power Plant Feeder Exits Design

Dear Blake,

Thank you again for coming to BHMGG for a proposal on the engineering and design work on the Power Plant Feeder Exits. The project scope is detailed in Appendix A and includes design considerations, submittal requirements, project contacts, roles/responsibilities, and clarifications.

BHMGG 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	Hours	Cost
Survey	-	\$ 0.00
Preliminary Design	72	\$ 13,014.00
IFR / IFP	169	\$ 30,366.00
IFB	96	\$ 17,352.00
IFC	77	\$ 13,882.00
Construction Support and Project Closeout	67	\$ 12,146.00
<b>Project NTE Total</b>	<b>482</b>	<b>\$ 86,800.00</b>

The following appendices are included for additional information:

- Appendix A: Detailed Project Scope

BHMGG appreciates this opportunity to provide RMU with these services. Should any questions arise, please contact me at your convenience.

Sincerely,

**Jason F. Jackson, P.E.**  
Consulting Department Manager

## Appendix A – Scope Document

Power plant feeder exits  
Rochelle Municipal Utilities

Rev. 00  
April 14, 2023

### A. GENERAL DESCRIPTION

The Rochelle Municipal Utilities has elected to proceed with the design and installation of replacement new feeder exit routing for three of the existing 5kV feeder from the power plant. These new routings will exit the building to the west underground to a vault, then extend underground to the north and south to risers on the other side of the RR tracks.

### B. DETAILED WORK DESCRIPTION

#### a. Protective Relay Design:

- i. None

#### b. Civil Design:

- i. If a civil/structural firm is required to complete foundation design or other unspecified work, BHM will select a civil/structural firm to complete the required civil/structural work at an additional cost.

#### c. Line Design:

- i. Design of three 5kV UG feeder exits from the existing metal clad switchgear in the power plant to risers on the existing OH feeders.
  1. Feeder #6 – extend from breaker to north of RR tracks
  2. Feeder #7 – extend from breaker to north of RR tracks
  3. Feeder #8 – extend from breaker to south of RR tracks
- ii. Design cable tray routing inside basement of plant to exit west of basement to street.
- iii. Design a cable junction vault west of plant.
- iv. Design directional boring to north and south under RR tracks
- v. Design Risers for the three (3) feeder exits.
- vi. Design removal drawings for the existing OH items
- vii. Design/Coordinate two (2) RR crossing permits

### C. Assumptions/Clarifications

- a. Project will utilize existing ROW and easements etc.
- b. Design will utilize RUS and RMU framing and standards and be NESC compliant
- c. Structures will be directly embedded standard class wood poles with guying when necessary
  - i. Steel/composite/other pole specifications will not be needed.
  - ii. Drilled pier foundation design will not be required
- d. Conductor Type – 477 ACSR “Hawk”, underground conductor to 500kcmil copper, 15kV
- e. Where new conductor is being terminated on existing poles, it is assumed that the existing poles will be adequate for the new installation and not require replacement
- f. No technical specifications are anticipated for this project
- g. Attendance at City Council meetings will not be required
- h. It is assumed FAA filings for new structures will not required determinations



## Appendix A – Scope Document

Power plant feeder exits

Rochelle Municipal Utilities

Rev. 00  
April 14, 2023

### **D. ROLES AND RESPONSIBILITIES**

#### **a. Rochelle Responsibilities:**

- i. All detailed engineering reviews to include but not limited to:
  - 1. 30% design package
  - 2. IFR design package
  - 3. Bill of materials
  - 4. IFB drawing package
  - 5. IFC drawing package
  - 6. Construction specifications

#### **b. BHMGM Engineers Responsibilities:**

- i. Project Management
  - 1. Prepare Project Scope Document.
  - 2. Develop and Maintain Project Schedule.
  - 3. Prepare cost estimate (material and labor)
  - 4. Attend pre-bid meeting
  - 5. Review and recommend preferred bidder
  - 6. Contract document preparation
  - 7. Pre-construction meeting
  - 8. Provide construction supervision support
- ii. Engineering/Design
  - 1. Prepare design criteria
  - 2. Perform necessary survey work
  - 3. Prepare IFR review package
  - 4. Prepare IFB drawing package
  - 5. Prepare IFC drawing package
  - 6. Provide onsite visits to resolve technical issues
    - a. Two (2) visits w/ two (2) personnel
  - 7. Verification of punch list items
  - 8. Prepare and submit final as-built drawings
  - 9. Road crossing permit assistance
- iii. Material Procurement
  - 1. Assist in receiving competitive material quotes from approved vendors
- iv. Construction Support
  - 1. Construction staking including new pole locations and bisector offset(s) when necessary.
  - 2. Provide onsite visits to support construction
    - a. Two (2) visits w/ two (2) personnel



## Appendix A – Scope Document

Power plant feeder exits  
Rochelle Municipal Utilities

Rev. 00  
April 14, 2023

- E. CRITICAL DATES** – These are tentative dates and are subject to change.
  - a. Issued for Bid Drawing Package
    - i. 14 weeks after receipt of order
  - b. In-Service Date:
    - i. TBD
  
- F. WORK ORDER(S)**
  - a. n/a
  
- G. BHMGM JOB NUMBER**
  - a. 3202
  
- H. PROJECT TEAM**
  - a. Oglesby Engineering Contact Details:
    - i. Primary Contact: Blake Toliver – Superintendent of Electric Operations
      - 1. Office: (815) 561-2034
      - 2. Cell:
      - 3. Email: [btoliver@rmu.net](mailto:btoliver@rmu.net)
    - ii. Any questions, comments or concerns related to S/S should be addressed to the above-named individual.
  - b. BHMGM Contact Details
    - i. See Contact Information in Appendix B of Proposal