



January 21st, 2026

To all Engineering Firms:

INVITATION TO QUOTE

**Sanitary Sewer Infrastructure Revamp & Mapping
Alexandra Road, Mary Victoria Road, & Cedar Park**

1. Quotations are invited for the attached Scopes of Works for the Bermuda Housing Corporation associated with the above-mentioned project.
2. Bidders are instructed to carefully read and cost all items as listed in the scopes.
3. The above-mentioned locations will be available for a site walkthrough and viewing of existing conditions upon request on Mondays through Fridays between the hours of 10:00 a.m. and 4:00 p.m.
4. Any questions or queries regarding the Locations &/or the Scope of Works can be addressed during the above allotted time. A BHC representative will be available at this time and can be contacted at **533-9023**
5. Quotations can either be delivered to the offices of the Bermuda Housing Corporation in an enclosed addressed envelope or emailed to my attention tenders@bhc.bm:

Quotations – Sewer Infrastructure Revamp & Mapping
Attention: Montoya Lawrence – Master Plumber

6. All quotations must reach the offices of the Bermuda Housing Corporation no later than **4:00 p.m. on Monday, March 9th, 2026**
7. All quotations must be valid for a one (6) month period.
8. **INDICATE AVAILABLE START DATE AND THE DURATION OF PROJECT.**

Yours Faithfully,

Montoya Lawrence



Bermuda Housing Corporation
P.O. Box HM 662, Hamilton, HM CX Bermuda
Telephone (441) 295-8623, Fax (441) 295-2605



REQUEST FOR PROPOSAL: ENGINEERING CONSULTANCY SERVICES

DATE: January 21, 2026

PROJECT: Sanitary Sewer Infrastructure Revamp & Mapping

LOCATIONS: Alexandra Road, Mary Victoria Road, & Cedar Park

ISSUED BY: Montoya Lawrence,

1.0 PROJECT BACKGROUND

The Bermuda Housing Corporation (BHC) manages the sewage infrastructure for properties located at Alexandra Road, Mary Victoria Road, and Cedar Park. The existing infrastructure consists primarily of **6-inch vitrified clay pipes**.

Over the last 5 years, BHC maintenance records and sewage camera inspections have confirmed:

- Critical deterioration and end-of-lifespan status of the system.
- Severe root intrusion at joints causing frequent blockages.
- Structural collapse in multiple sections.
- Significant logistical challenges, including pipe depths exceeding **10 feet** and routings located directly **underneath residential buildings**.

2.0 OBJECTIVE

BHC requires a qualified Engineering Firm to provide **comprehensive site surveying, hydraulic design, and construction documentation** for a complete system revamp. The objective is to transition from the failing clay system to a modern, sealed system utilizing trenchless technologies and mechanical lift solutions.

3.0 SCOPE OF ENGINEERING SERVICES

The selected Engineering Firm will be responsible for the following phases:

Phase 1: Site Survey & Existing Conditions Mapping



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- **Topographical Survey:** Conduct a full topographical survey of the three locations (Alexandra Rd, Mary Victoria Rd, Cedar Park).
- **Investigation:** Review existing sewage camera footage provided by BHC and coordinate any necessary supplementary investigative work (e.g., test pits or ground-penetrating radar) to verify depths.
- **The Deliverable:** Produce a "**Current State**" **Sewage Mapping Plan** identifying the exact location, depth, and grade of existing lines and the locations of failed/collapsed sections.

Phase 2: Detailed Engineering Design

The Engineer shall design a replacement system that addresses the site constraints. The design **must** incorporate the following BHC-mandated methodologies:

1. **Trenchless Pipe Bursting:** Design profiles for replacing external clay runs with **Polyethylene Butt Fusion Pipe (HDPE)** via pipe bursting to minimize surface disruption.
2. **Sewage Lift Stations:** Design and size duplex sewage lift stations for areas where gravity flow is compromised or depths exceed 10 feet. This includes hydraulic calculations for force mains and pump sizing (grinder pumps preferred).
3. **CIPP Relining:** Provide specifications for Cured-In-Place Pipe (CIPP) lining for sections running underneath building foundations.
4. **Material Specification:** All new piping must be specified as HDPE Butt Fusion to eliminate root intrusion.

Phase 3: Construction Documentation & Tender Package

- **Drawings:** Produce a complete set of "For Construction" drawings (Plans, Profiles, Details).
- **Scope of Works:** Draft the technical Scope of Works and Specifications for the civil/plumbing contractor.
- **Cost Estimation:** Provide a pre-tender engineering cost estimate for the construction works.

Phase 4: Final Deliverables

Upon completion of the design phase, the Engineering Firm must provide:

1. **Master Sewage Mapping Plan:** A finalized "As-Built" style design map showing the new layout, elevations, and maintenance points (GPS coordinated).



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2. **Stamped Engineering Drawings:** Suitable for submission to the Department of Planning (if required) and for contractor bidding.

4.0 PROPOSAL REQUIREMENTS

Interested Engineering Firms are requested to submit a proposal including:

- **Fee Structure:** Lump sum or hourly rates for the design and mapping phases.
- **Experience:** Examples of previous projects involving sewer infrastructure, lift station design, and trenchless technology (pipe bursting).
- **Timeline:** Estimated duration to complete the survey and design package.



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