

Staff Report

Department of Public Utilities

To: Honorable Mayor Baliles and Members of the City Council

Through: Danny Roberts, City Manager

From: Brandon Phillips, Director of Utilities

Date: March 14, 2024

Subject: Chandler Haulk Force Main Project Engineering

RECOMMENDATION:

Staff recommends the City Council approve Precision Planning Inc. to provide design and engineering, surveying, bid administration, & construction support.

FISCAL IMPLICATION:

PPI's quote for this project total \$97539.75 (5% contingency). Funding source capital recovery & and/or ARPA.

BACKGROUND:

The Chandler Haulk pump station and force main was installed in 2001. The existing force main is approximately 5,500 linear feet in length. Due to age and hydrogen sulfide the 8-inch ductile iron pipe needs to be replaced. We plan to evaluate an alternate route to Claude Brewer Road to reduce property disturbances, and to improve future maintenance access.



February 16, 2024

City of Loganville
Mr. Brandon Phillips, Public Utilities Director
P.O. Box 39
Loganville, GA 30052

Re: Engineering Services Proposal - Chandler Haulk Sewer Force Main Replacement Project

Brandon:

Precision Planning, Inc. (*PPI*) appreciates the opportunity to submit this proposal to the City of Loganville (*Client*) for the design of a new 8-inch sewer force main from the existing Chandler Haulk Pump Station to Baker-Carter Drive; including combination air release valves as required. Based on our experience with similar projects, we present the following scope of services and fee proposal for the City's review and consideration.

PROJECT UNDERSTANDING AND APPROACH

As reported by City staff, the existing Chandler Haulk force main consists of severely corroded 8-inch ductile iron pipe, likely due to hydrogen sulfide (H₂S) concentrations originating at the Chandler Haulk Pump Station. The current force main route is approximately 5,500 linear feet in length, beginning at the Chandler Haulk Pump Station and running mostly cross country through portions of the Chandler Walk, Huntington Ridge and Towler Shoals residential subdivisions. The force main discharge point is an existing gravity manhole located on the south side of Baker Carter Drive.

Based on our preliminary evaluation of the existing force main route, a 30' sanitary sewer easement was recorded on the final plats for the Chandler Walk and Huntington Ridge Subdivisions, however most of the recorded easement is shared with the existing gravity sewer. The final plat for the Towler Shoals subdivision does not reference the existing sewer force main or any dedicated easements. Given that the existing recorded easements would not provide sufficient width to replace the existing force main without additional permanent and/or temporary easements, we would like to evaluate an alternate route for the force main replacement project within the right-of-way of Claude Brewer Road to reduce required easement acquisition and improve future maintenance access.

The project will be designed and bid under a single contract including new 8-inch PVC or HDPE sewer force main, combination air/vacuum release valves and miscellaneous appurtenances. PPI will provide survey and engineering services to prepare final design drawings and contract documents; as well as permitting, bid phase, and construction phase support services.

Based on our understanding of the project, we have developed the following Scope of Work.

SCOPE OF WORK

Task 1 – Force Main Routing Assessment

Due to anticipated issues with additional easement acquisition through portions of the existing Chandler Walk, Huntington Ridge, and Towler Shoals residential subdivisions; PPI proposes an alternate force main alignment from the existing Chandler Haulk pump station due east to Claude Brewer Road. The new sewer force main would then proceed north within the right-of-way of Claude Brewer Road to a discharge point to be defined by the City of Loganville.

PPI will prepare a preliminary alternate alignment, and assist City staff in meeting with local property owners regarding potential easement acquisition.

Task2 - Preliminary Engineering and Topographic Survey

Once the force main route is identified, PPI will perform a field run topographic and location survey of the proposed force main route, pump station site, and proposed discharge manhole location. PPI will horizontally locate all existing visible utilities and other existing ground features. The City of Loganville will request 811 utility locates along the project corridor. Right-of-way widths and property boundary information will be obtained from available County records. Information gathered will be compiled in a CAD file and will serve as a base map for final design. Survey services will include:

- Establish survey control points on Georgia State Plane Datum
- Prepare easement exhibits and agreements for acquisition purposes

Task 3 – Detailed Design & Permitting

Using the survey information collected, PPI will assess project static and friction losses in the proposed sewer force main; and verify current pump station design criteria and/or modifications required. PPI will also perform detailed design of the proposed sewer force main and required combination air/vacuum release valves. Work under this task will include the following:

- Sewer Force Main Design
 - Identify and confirm force main alignment, location, potential utility conflicts, environmental concerns, and required connection points.
 - Identify any required easements or land acquisition requirements.
 - Design sewer force main and related appurtenances.
 - Erosion Control Plans
- Chandler Haulk Pump Station Evaluation
 - PPI will complete an inspection and drawdown test at the Chandler Haulk Pump Station to assess current pump condition and capacity. The City of Loganville will provide current pump station data including pump type, model, installation date, impeller size, and available asbuilt data.
 - PPI will complete a hydraulic assessment of the proposed force main route to identify any required operational improvements at the Chandler Haulk Pump Station.
 - We assume existing electrical and instrumentation systems are sufficient for future pump station operations, and no IEC improvements are included in this scope of services.
- Permitting
 - Prepare construction plans, specifications, and technical reports for GaEPD submittal
 - Obtain County/City/NRCS Erosion Control approval

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PPI will prepare the final construction drawings and contract documents in accordance with the *City of Loganville Sewer System Standards* latest edition. Technical Specifications will be developed as needed for items not covered in the Standards. PPI will submit copies of the construction drawings to County, City and Georgia EPD as necessary for review and approval. The construction documents prepared for bids will include:

- Title Sheet
- Sewer Force Main Plan and Profile Sheets
- Construction Details
- Erosion, Sedimentation and Pollution Control Plan (ES&PC)
- Erosion and Sedimentation Control Details
- Division 0 and Division 1 Contract Documents
- Technical Specifications as necessary

Following final plan approval, PPI will prepare and submit a preliminary opinion of probable construction costs. Upon completion of construction, PPI will prepare record drawings based on the contractor's red lined set of plans. City will receive one full size hard copy of the record drawings and one digital copy in .pdf format.

Task 4 - Bid Phase Assistance

Once agency approvals have been obtained, PPI will provide up to ten (10) sets of bid plans and ten (10) copies of the contract documents for use in advertising and bidding the project. PPI will assist the City with bidding the project including bid document distribution to prospective bidders, plan holders list management, addendum preparation (if any), pre-bid meeting attendance, bid opening attendance, bid tabulation, bid review/contractor qualifications, and recommendation of award.

Task 5 - Construction Phase Support

Work under this subtask will be provided on an hourly basis as requested by the City. PPI may provide periodic site visits, review and respond to contractor request for information, assist in the review of monthly pay requests/change order requests, or other support services as requested.

ASSUMPTIONS AND EXCLUSIONS

- The City of Loganville will provide day to day construction inspection and administration services, with hourly supplemental assistance from PPI.
- Geotechnical services are included as an allowance in the Compensation section of this proposal for geotechnical investigation of the selected force main route.
- Easement acquisition services are not included. The preparation of, and the survey for, meets and bounds easement plats for condemnation or contested easements are not included, but may be provided at additional cost.
- A United States Army Corps of Engineers (USACE) Individual Permit Application or Preconstruction Notification (PCN) is not anticipated and, therefore, was not included as a part of this Scope.
- Plan review fees shall be considered as an additional direct reimbursable cost or shall be paid for separately by the City.
- Up to ten (10) sets of final construction plans will be provided. Reproduction of additional plan sets shall be billed separately.
- The City shall be responsible for all coordination with existing residents regarding construction schedule and other project related issues.
- Construction staking is not included in the Scope of this project. If requested, construction staking may be provided at our standard hourly rates.

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COMPENSATION


The following table provides a breakdown of the project fees and anticipated schedule, for your review.

PROJECT TASK	DURATION* (Months)	FEE (Lump Sum)
Task 1 – Force Main Routing Assessment	0.5	\$5,020.00
Task 2 – Preliminary Engineering and Topographic Survey	1.0	\$26,935.00
Task 3 – Detailed Design and Permitting	3.0	\$29,540.00
Task 4 – Bid Phase Assistance	1.5	\$4,155.00
DESIGN SERVICES SUB-TOTAL:	6 Months	\$65,650.00
Task 5 – Construction Phase Assistance (<i>Hourly Allowance</i>)		\$18,845.00
Geotechnical Allowance		\$8,000
Direct Expenses (<i>Mileage, Plan Reproduction, etc.</i>)		\$400.00
TOTAL PROJECT FEE:		\$92,895.00
Additional Services if Requested:		
Formal Easement Plat for Condemnation (Add'l Cost per Each)		\$1,200.00

*** Work will be invoiced on a monthly basis, based on the percentage of work complete.*

Again, we appreciate the opportunity to this proposal for engineering services, and we look forward to assisting you in the successful completion of this very important project. Should you have any questions or comments regarding this proposal, please feel free to contact me by phone at 404-790-9000 or by email at jparker@ppi.us.

Sincerely,



Jimmy Parker, P.E.
 Executive Vice President

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Attachment: Standard General Conditions
 Standard Hourly Rates Schedule

Authorization given this _____ day of _____, 2024

By: _____

Title: _____

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2023 CIVIL STANDARD HOURLY RATE SCHEDULE

Senior Principal Engineer	\$200.00/Hour
Principal Engineer	\$185.00/Hour
Senior Project Manager	\$165.00/Hour
Project Manager.....	\$140.00/Hour
Project Engineer III.....	\$125.00/Hour
Project Engineer II.....	\$110.00/Hour
Project Engineer I.....	\$95.00/Hour
Senior Landscape Architect.....	\$150.00/Hour
Landscape Architect.....	\$90.00/Hour
Senior Project Architect	\$150.00/Hour
Project Architect	\$125.00/Hour
Principal Planner	\$125.00/Hour
Senior Engineering Technician	\$95.00/Hour
Engineering Technician	\$80.00/Hour
CADD Designer	\$60.00/Hour
Project Administrator.....	\$90.00/Hour
Senior Project Assistant	\$80.00/Hour
Project Assistant.....	\$60.00/Hour
Construction Observer	\$100.00/Hour
Registered Land Surveyor (RLS)	\$150.00/Hour
Survey Manager	\$125.00/Hour
Survey Coordinator	\$110.00/Hour
Survey Technician	\$90.00/Hour
Surveying Crew.....	\$175.00/Hour
Senior Electrical Engineer	\$150.00/Hour

STANDARD GENERAL CONDITIONS

- A. In accepting and utilizing any drawings, reports and data on any form of electronic media generated and furnished by Precision Planning, Inc., the Owner/Client agrees that all such electronic files are instruments of service of Precision Planning, Inc., who shall be deemed the author, and shall retain all common law, statutory law and other rights, without limitation, including copyrights.

Intelligent data, including but not limited to Building Information Modeling (BIM) and 3D Grading/Surface Modeling, are instruments of service. When transmitted, this data shall be for the sole purpose of visualization of design ideas by the Owner/Client and shall not constitute or supplement the contract documents. Differences may exist between these models and the corresponding hard copy contract documents, and Precision Planning, Inc. makes no representation about their accuracy or completeness.

The Owner/Client agrees not to reuse these electronic files, in whole or in part, for any purpose other than for the Project. The Owner/Client agrees not to transfer these electronic files to others without the prior written consent of Precision Planning, Inc. The Owner/Client further agrees that Precision Planning, Inc. shall have no responsibility or liability to Owner/Client or others for any changes made by anyone other than Precision Planning, Inc. or for any reuse of the electronic files without the prior written consent of Precision Planning, Inc.

In addition, the Owner/Client agrees, to the fullest extent permitted by law, to indemnify and hold harmless Precision Planning, Inc., its officers, directors, employees and subconsultants (collectively, Consultant) against all damages, liabilities or costs, including reasonable attorneys' fees and defense costs, arising from any changes made by anyone other than Precision Planning, Inc. or from any use or reuse of the electronic files without the prior written consent of Precision Planning, Inc..

Under no circumstances shall delivery of electronic files for use by the Owner/Client be deemed a sale by Precision Planning, Inc., and Precision Planning, Inc. makes no warranties, either express or implied, of merchantability and fitness for any particular purpose. In no event shall Precision Planning, Inc. be liable for indirect or consequential damages as a result of the Owner/Client's unauthorized use or reuse of the electronic files.

- B. There shall be no assignments of any portion of the work as described within the above proposal or during any phase of the work without the written consent by Precision Planning, Inc. There shall be no disclosures of the scope of services and/or fees, as outlined within this proposal, to any third parties without the written consent of Precision Planning, Inc. There shall not be any re-use or reproduction of this proposal or design documents without the written consent of Precision Planning, Inc.
- C. Our professional services shall be performed, our findings obtained, and our recommendations prepared in accordance with generally accepted planning, engineering, land surveying, architectural and landscape architectural practices. This warranty is in lieu of all other warranties either implied or expressed. Precision Planning, Inc. assumes no responsibility for interpretation made by others based upon the work or recommendations made by Precision Planning, Inc.



Initials: _____

January 27, 2021

- D. In recognition of the relative risks and benefits of the Project to both the Owner/Client and Precision Planning, Inc., the risks have been allocated such that the Owner/Client agrees, to the fullest extent permitted by law, to limit the liability of Precision Planning, Inc. and its officers, directors, employees, shareholders, owners and subconsultants for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes, including attorney's fees and costs and expert-witness fees and costs, so that the total aggregate liability of Precision Planning, Inc. and its officers, directors, employees, shareholders, owners and subconsultants shall not exceed \$50,000 or the amount of Precision Planning, Inc.'s total fee for services rendered on this Project, whichever is greater. It is intended that this limitation apply to any and all liability or cause of action, including without limitation active and passive negligence, however alleged or arising, unless otherwise prohibited by law. In no event shall the Consultant's liability exceed the amount of available insurance proceeds.

If Owner/Client prefers to have higher limits of professional liability, the limits can be increased to a maximum of one million (\$1,000,000.00) dollars upon Owner/Client's written request at the time of acceptance of this proposal provided that the Owner/Client agrees to pay an additional consideration of ten percent (10%) of the total fee or \$1,000.00, whichever is greater. The additional charge for the higher liability limits is because of the greater risk assumed and is not a charge for additional professional liability insurance.

- E. Precision Planning, Inc. agrees, to the fullest extent permitted by law, to indemnify and hold harmless the Owner/Client, its officers, directors and employees (collectively, Owner/Client) against all damages and liabilities, to the extent caused by Precision Planning, Inc.'s negligent performance of professional services under this Agreement and that of its subconsultants or anyone for whom Precision Planning, Inc. is legally liable.

The Owner/Client agrees, to the fullest extent permitted by law, to indemnify and hold harmless Precision Planning, Inc., its officers, directors and employees and subconsultants (collectively, Precision Planning, Inc.) against all damages and liabilities, to the extent caused by the Owner/Client's negligent acts in connection with the Project and the acts of its contractors, subcontractors or consultants or anyone for whom the Owner/Client is legally liable.

Neither the Owner/Client nor Precision Planning, Inc. shall be obligated to indemnify the other party in any manner whatsoever for the other party's own negligence or for the negligence of others.

- F. In the event the Owner/Client makes a claim against Precision Planning, Inc. at law or otherwise, for an alleged error, omission or other act arising out of the performance of our professional services, and the Owner/Client fails to prove such claim, then the Owner/Client shall bear all cost incurred by Precision Planning, Inc. in defending itself against such claim(s). The reciprocal of this clause (i.e., a claim made by Precision Planning, Inc. against the Owner/Client where failure of proof of claim is established, financial responsibility for Owner/Client's defense shall rest upon Precision Planning, Inc.) is hereby made a part of this agreement.
- G. It is understood and agreed that Precision Planning, Inc. shall not be held responsible for any inaccuracies in any materials, data or records of any other person, firm or agency which are provided to it and/or may be utilized by it in the performance of specific services.



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January 27, 2021

- H. Reimbursable expenses including mileage, photographic enlargements, reductions and reproduction, blueprinting, and courier services shall be billed at a rate of actual cost times 1.1. When overnight stay is required, it shall be billed as actual subsistence cost times 1.1.

NOTE: No back-up data or copies of bills will be provided for reimbursable expenses invoiced under this agreement. Should back-up data be requested, it will be provided for an administrative fee of \$100.00 per monthly invoice requiring verification, plus \$1.00 per copy of back-up data provided.

- I. In the event additional services beyond the scope of work listed above are required by Owner/Client, Precision Planning, Inc. shall perform these services for an amount equal to normal hourly charges on work actually performed upon receipt of an approved Change Order signed by both parties. Precision Planning, Inc. shall submit monthly invoices for services outlined in this agreement. Payment is due upon receipt of invoice. Finance charges of one and one-half percent (1.5%) will be added to any unpaid balance at the end of thirty (30) days (APR 18%).
- J. The Owner/Client or Precision Planning, Inc. may terminate this Agreement without penalty upon giving the other party ten (10) calendar days' notice in writing. In the event either party terminates for convenience, the Owner/Client shall pay Precision Planning, Inc. within seven (7) calendar days of receipt of Precision Planning, Inc.'s invoices for all services rendered and all reimbursable costs up to the date of termination. In addition, the Owner/Client shall pay Precision Planning, Inc. for all expenses reasonably incurred by Precision Planning, Inc. in connection with the orderly termination of this Agreement, including but not limited to associated overhead costs and all other expenses directly resulting from the termination. In the event government regulations are amended or changed in any way, or if the services outlined in this proposal have not been authorized within thirty (30) days of the date of this proposal, fees quoted are subject to renegotiation.
- K. Services required by unexpected events which are outside Precision Planning, Inc.'s reasonable control including, but not limited to, services resulting from extended schedules shall be compensated as additional services.