

Christian Valley Park CSD Kenneth Loop Design Phase Scope of Work and Fee Proposal

Our scope of work of the detailed design and preparation of contract documents for the Kenneth Loop Pipeline project are attached. The design effort is based on the recommended pipeline alternative included in the Kenneth Loop Planning Study completed in June 2023.

Task descriptions are included below.

Task 1 – Topographic Survey and Easements. Hydros Engineering, Inc. (HEI) will coordinate the completion of the topographic survey included aerial photo and ground survey for existing utilities and surface features. Giuliani & Kull will provide surveying for the project under a subcontract with Hydros Engineering. We have assumed there will be four permanent easements necessary and one temporary easement.

Task 2 – Geotech. The Nevada Irrigation District (NID) is requiring that the pipeline cross under the canal. The subsurface crossing necessitates the need for a geotechnical evaluation to evaluate the soils for rock, seepage from the canal, soil characteristics pertinent to trenchless pipeline construction. Blackburn Consulting will provide geotechnical services. We have assumed that the depth of the canal crossing will be less than eight feet below grade. This could be dug with a backhoe or excavator and avoiding a drilling contractor resulting in a savings of approximately \$7,000 to \$8,000. Based on the initial survey data we have we expect that a backhoe/excavator will be suitable.

Task 3 – NID Coordination. The NID will require coordination and design review meetings. This task includes meetings to discuss preliminary design, design review and overall coordination with NID engineering staff.

Task 4 – Stakeholder Outreach. There are multiple stakeholder groups in the project area including two road associations and individual property owners along Kimo Way. This task includes outreach efforts and assistance to the District in negotiating easements including phone calls, written and electronic correspondence and in person meetings. We have assumed that District representatives will be present at meetings with the stakeholders as needed.

Task 5 – Preparation of Contract Documents. Preparation of the contract drawings including technical specifications and design drawings. We anticipate 13 drawings per the preliminary drawing list below.

PRELIMINARY LIST OF DRAWINGS
G001 - PROJECT TITLE, VICINITY MAP AND LOCATION - INDEX
G002 - ABBREVIATIONS, LEGENDS AND PIPING SYMBOLS
G003 - STANDARD ABBREVIATIONS
G004 - KEY MAP
C001 - TYPICAL CIVIL DETAILS
C002 - TYPICAL CIVIL DETAILS 2
C003 - POINT OF CONNECTIONS AND PRV STATION
C004 - TREE REMOVAL PLAN
C005 - NID CANAL CROSSING 1
C010 - PIPING PLAN 1
C011 - PIPING PLAN 2
C012 - PIPING PLAN 3
C013 - PIPING PLAN 4

The source of the Funding for the project is unknown currently. We have excluded the front-end specifications which include the bid schedule, general and special conditions. Requirements for this portion of the specifications are dependent on the funding agency's requirements and should be completed prior to bidding once the funding agency/source is determined.

Task 6 – Project Management and Administration. Project management and administration includes monthly billing, monitoring of budgets and general administrative activities associated with the project.

Work to be completed on a time and expense basis not to exceed \$91,500 without prior written approval. See Fee estimate worksheet attached.