



May 25, 2023

David Peters, P.E.
Program Director, Bull Run Filtration Program
Portland Water Bureau (PWB)
1120 S.W. 5th Avenue, Suite 500
Portland, Oregon 97204-1926

Subject: Filtration Pipeline Project
GMP 1 Early Works

Dear David,

The Bull Run Conveyance Partners (BRCP) are pleased to resubmit this Updated Early Works Guaranteed Maximum Price (GMP 1) proposal addressing procurement of long lead items. This proposal is based on timely completion by BRCP of procurement activities under the existing PTE contract, possibly as modified by mutual agreement. These procurement activities may be needed to meet the project contracted milestones following a September 1, 2023 NTP-1 and will include

- The submittal review and approval of shop drawings;
- Fabrication;
- Turnover to the selected Trade Subcontractors;
- Limited Notice to Proceed (LNTP) for contracting with a tunnel subcontractor for equipment preparation in the S-02 Package; and
- General Conditions in preparation for GMP2 NTP

The Pre-Construction tasks for P-01, 02, 03, 04, and S-02, including bidding, negotiating, and executing purchase agreements are included in the PTE contract for preconstruction services.

Procurement Packages will include the following:

- P-01 - Large Diameter Steel Pipe and Fittings
- P-02 - Large Diameter Valves
- P-03 - Small Diameter Water Pipe
- P-04 - Electrical Equipment
- S-02 LNTP for Tunnel Contractor for equipment preparation and subcontractor management costs for processing submittals.

This proposal is based on the following:

- Procurement of long lead items that are critical to meet the contract milestone dates, due to today's marketplace making vendors unwilling to commit to delivery times until purchase orders are placed. The range of delivery lead-times we have been given are:
 - P-01 – Large Diameter Steel Pipe and Fittings – +120 days
 - P-02 – Large Diameter Valves – +300 days
 - P-03 – Small Diameter Water Pipe - +110 days



- P-04 – Electrical Equipment – +280 days
- S-02 – Tunnel Mining Equipment Preparation – + 210 days
- The delivery dates anticipated to maintain the schedule for GMP 2 are:
 - P-01 - Large Diameter Steel Pipe and Fittings – August 23, 2024
 - P-02 – Large Diameter Valves – May 6, 2025
 - P-03 – Small Diameter Water Pipe – July 19, 2024
 - P-04 – Electrical Equipment – June 5, 2025
 - S-02 - Tunnel Mining Equipment – September 27, 2024
- Estimated prices for the procurement packages are based on 90% OPCC budgetary quotes provided by vendors and are our best estimate at this time, but subject to change.
- The OWNER has established a management reserve as shown in Attachment C to this proposal to fund change orders authorizing the prepurchase of materials and fund preparation of tunneling equipment if acceptable bids are received.
- General Conditions costs for procurement and execution of the P01-04 and S-02 Packages including management of delivery of the products from September 1, 2023, to NTP-2, currently scheduled for March 15, 2024. These staff costs will be on a reimbursement basis subject to the cap in GMP 1, in accordance with Division 00 contract terms.
- General Conditions costs for construction management in preparation of GMP2, including preparation of all plans and documents required by contract prior to starting field construction activities required to be completed prior to GMP2 NTP, currently scheduled for March 15, 2024. Please see below a detailed summary of tasks and deliverables required to be completed. These staff costs will be on a reimbursement basis subject to the cap in GMP 1, in accordance with Division 00 contract terms.
- The escalation clause in 007300 (SC-1.05.D.6.d. – i.) will not apply to GMP-1, and the vendors will be directed in the Request for Proposal (RFP) to accept all risk of escalation in their bids.
- Additionally, the material and equipment payment clause in 007200 (SC-1.15) shall apply to GMP-1. Payments in GMP1 for material and equipment will be in accordance with payment schedules negotiated with successful bidders. In no event will OWNER pay more than 95% of contract value before date of substantial completion. It is anticipated that the payment schedule may include some or all of the following milestones:

% of Total	Cumulative	Basis	Criteria of Payment
10%	10%	Purchase Price	After receipt and engineers' approval of all required submittals
40%	50%	Purchase Price	Stored material for fabrication and assembly.
20%	70%	Purchase Price	After fabrication and accepted factory inspection
15%	85%	Purchase Price	After Delivery to site and acceptance of inspection at delivery
10%	95%	Purchase Price	Substantial Completion
5%	100%	Purchase Price	Retainage



This proposal is submitted for the purposes of:

- Obtaining approval of an Early Works procurement contract. The balance of project funding is anticipated to be secured via a second GMP proposal (i.e., GMP 2 Balance of Pipeline Project) to be submitted separately.
- Engaging Portland Water Bureau (PWB) staff in a detailed review of Early Works Product Procurement scope, schedule, and pricing.
- Review and confirmation of BRCP procurement pricing by the Bureau’s engineering cost estimator (Jacobs).

Pricing in this proposal was developed using the 90% design deliverable documents as detailed in **Attachment A**. Final pricing proposal will be based on the 100% Design Documents. If there are changes identified, they will be addressed with a change order request, within 45 days of issuance of any updated documents.

GMP-1 Approval and Notice-to-Proceed

GMP 1 – Early Works Package:

For the purposes of preparing this Early Works proposal, BRCP pricing is based on execution of the entirety of the early work packages and procurement scope and services described in this GMP-1 document, including the identified clarifications and exclusions. The complete scope is integral to our proposed schedule. If the PWB elects to modify the scope of services to be provided in the Early Works from what is described in this proposal, BRCP will work with the PWB to modify this proposal addressing the impacts of the changed scope of work. If actual conditions or requirements are contrary to any of the stated clarifications or exclusions, BRCP reserves the right to request an adjustment to estimated costs and schedule. This proposal is and will be managed in accordance with the final negotiated contract.

For the purposes of executing this Early Works proposal, BRCP has assumed a construction Notice-To-Proceed (NTP) for the entire Early Works scope will be issued on or before September 1, 2023. If an NTP for the complete Early Works GMP 1 is not authorized on or before September 1, 2023, BRCP will work with the PWB to modify this proposal addressing impacts of the changed start date and/or scope of work.

GMP 2 - Balance of Pipeline (BOP) Project:

Per the Pre-Construction Services Agreement, the CM/GC will provide the Owner with a proposal to perform GMP 2 Balance of Pipeline (BOP) Project services. A mutual agreement on a GMP 2 is a condition precedent to the issuance NTP #2. If a mutual agreement on GMP 2 is not reached, the parties shall have no further obligations.

Details regarding the scope, schedule, and pricing of this Early Works GMP proposal are included below. This work and proposal are based on the assumptions, clarifications, and exclusions shown in **Attachment B**.



Scope of Work

This Early Works GMP proposal includes Procurement of material and equipment for the P-Packages listed below, to be bid, negotiated, purchased, and eventually provided to the awarded best value subcontractor by BRCP after consulting with and obtaining the approval of the OWNER. For the S-Package, BRCP intends to make the Best Value Subcontractor selection, enter into a Trade Subcontract, and then issue the Tunneling Subcontractor a Limited Notice to Proceed (LNTP) for the preparation of tunnel equipment. The 90% Opinion of Probable Construction Cost (OPCC) Quotes for each of the Product Procurement Packages, along with the owner allowances included in this Early Works GMP-1, are provided in **Attachment C**.

Early Works Packages

Procurement work to be completed by BRCP includes the following Product Procurement Packages:

- P-01 - Large Diameter Steel Pipe and Fittings
- P-02 - Large Diameter Valves
- P-03 - Small Diameter Water Pipe
- P-04 - Electrical Equipment
- S-02 LNTP for Tunnel Contractor to prepare Tunnel Mining Equipment and subcontractor management costs for processing submittals.

Pricing for the above Packages has been estimated for inclusion as an OWNER's Management Reserve and are based on the budgetary quotes received during development of the 90% OPCC estimate performed by BRCP. These estimates are not based on competitive bids.

BRCP will bid and secure purchase agreements with vendors for each P-Package and S-Package above in accordance BRCP Procurement Plan. After review and approval by the OWNER, the OWNER may issue a change order authorizing BRCP to enter into purchase agreements for some or all of the five packages. The packages will be awarded on a lump sum pricing basis and for the P packages, controlled by BRCP. It is anticipated the BRCP may assign control of the material to the installing Trade Subcontractors under terms that will be developed for GMP 2. The final delivery dates and configuration of P-Packages of pipe will be coordinated with Trade Subcontractors during the bidding process.

BRCP has assumed that the Trade Subcontractor's packages pricing in GMP2 will include coordination of any modifications to pipe configurations at its cost, re-submittal of documents as necessary, delivery, receipt of materials, unloading and inspection at job site, handling, storing, installing, and testing of product.

The Tunnel Mining Equipment, S-02 LNTP Allowance, is an early out package for the selected best-value tunneling Sub-contractor, so that it can prepare tunnel equipment before the issuance of NTP -2. It is the intention of the CMGC, and PWB to give the Subcontractor additional time to prepare equipment to meet



the schedule needs to start tunneling operations.

After PWB approves the best value selection and issues a change order authorizing expenditures, BRCP will execute a LNTP with the S-02 Tunnel Subcontractor to prepare Tunnel Mining Equipment and the Tunnel Trade Subcontractor will own all risk related to the preparation, purchase, and associated coordination, delivery, management, handling, use and maintenance of equipment.

The S-02 Tunnel Package Request for Proposal (RFP) and contract will include two lump sum line items; (1) the cost needed to prepare Tunnel Mining Equipment, including the trade subcontractor's management of submittals and coordination during fabrication and delivery, and (2) a lump sum for the balance of scope in the S-02 package under GMP2 NTP.

BRCP's goal to optimize Equity contractor participation in the purchase of the products includes a 5% participation goal in the large diameter steel pipe package, which can be met through trucking and fitting manufacturing. We have also identified that, with the now smaller value trade subcontractor packages due to the cost of material being removed, it opens the potential for Equity contractors to be Tier 2 subcontractors. The percentage of equity contractor's participation goals has been increased in the trade subcontractor packages, with the P-Packages being bid separately.

General Conditions for P-01 –04, S-02

The following is a summary of our anticipated scope of services for General Conditions including submittal review and approval for GMP 1 early work package. The CM/GC shall provide a delivery schedule for required documentation. Work under this task shall be completed as a not to exceed value as listed in the pricing summary.

General

- GMP contract establishment and initiation (in PTE contract)
- Vendor contract negotiation and establishment (in PTE contract)
- Vendor coordination
 - Project kick off meetings and record keeping
 - Initial payment terms and material tracking (Stored Materials) Large Pipe
 - Final payment terms and payment for stored materials Large Pipe
 - Initial schedule from Line and Lay drawing for large diameter pipe
 - Initial schedule from Line and Lay drawing for large fittings
 - Initial schedule for large valves and cast fittings.
 - Initial Schedule coordination from Trade packages to pipe production.
 - Initial coordination of Line and lay drawings submittal
 - second review of line and lay drawings
 - coordination of break points, angle points dished heads
 - large fittings, fitting dimensions, shipping constraints onsite storage
 - large fittings field fit-up geometry, lifting points, erection calcs
 - final review of line and lay drawings
 - finalize limits pipe runs, numbering delivery constraints
 - finalize coordination of break points, angle points dished heads



- finalize fitting dimensions, shipping constraints onsite storage
 - large fittings field fit-up geometry, lifting points, erection calcs
- Initial Schedule for delivery
- Finalize schedule for delivery to actual NTP
- Handoff schedule to trade package subcontractors
- Payment terms and payment for stored materials small Pipe
- Initial schedule from project schedule small diameter pipe
- Initial coordination of small diameter pipe submittal
- Initial vendor coordination electrical components
- Initial schedule for electrical components
- Initial Schedule coordination from Trade packages to electrical components
- Initial vendor coordination Digger Shield and Road Header
- Initial Schedule coordination from Trade contractor
- Contract management
- Reviewing and Processing Submittals
 - Initial submittals
 - Initial Line and Lay drawing for large diameter pipe
 - Pipe Shop drawings, materials list, welding data, product data AIS Certs
 - Test specimens, independent test certs, calibration certs for testing
 - initial large fittings geometry field fit up
 - Fittings Shop drawings, materials list, welding data, product data AIS Certs
 - Test specimens, independent test certs, calibration certs for testing
 - Initial submittal large valves and cast fittings
 - Valve and fitting shop drawings, mill certs, manufacture qualifications factory test certs quality control and testing
 - Initial coordination of pipe production submittal
 - Initial Small diameter pipe shop drawings, mill certs, manufacture qualifications factory test certs quality control and testing
 - Initial coordination of small diameter pipe production submittal
 - Initial electrical components Product Data (hardware) Calcs for Power and I/O req's Product Data (software) Control Logic Application Software (full annotated copy) Product Data Shop Drawings O&M Data
 - manufacture qualifications factory test certs quality control and testing
 - Initial coordination electrical components production submittal
 - Resubmittals (1 round)
 - Submittal modifications and (1 each) re-submittal initial submittal review
- Project management
 - Document control system initiation and usage
 - Cost control system initiation and usage
 - GMP1 schedule updating and management
 - Pay application review and processing of vendors submissions
- Coordination with PWB and Program Team
- Coordination with GMP2 Proposed Subs
 - Alternative submittals
 - Updated planned delivery schedule



General Conditions staffing begins at NTP-1 on September 1, 2023, and continues to the NTP-2, which is anticipated to occur March 15, 2024. The basis of the General Conditions staffing and the level of effort is summarized in the staffing worksheet in **Attachment D1** for GMP 1 P-01 - 04 and S-02 Package Procurement

General Conditions for Preparation for GMP2 NTP

The following is a summary of the anticipated scope of services for General Conditions for the preparation of deliverables required by the contract to be completed prior to field construction starting for GMP 2.

General

- Develop procedures and processes for the following:
 - Spill Prevention Control and Countermeasures Plan
 - Site Security Plan
 - Noise Control Plan
 - Site Staging Plan
 - Temporary drainage plan
 - Dust control plan
 - Site condition pre-construction survey
 - Utility locating and reporting plan
 - Removal and Disposal of contaminated Media
- Develop a project-wide survey plan.
- Continue craft outreach started under PTE contract
- Setup of project accounting systems for accounts payable, accounts receivable and cost tracking systems.
- Setup of project management, cost management, and document control systems.
- Develop a Cost Control and Recovery Plan.
- Develop project governance and performance reporting templates.
- Develop staff on-boarding program and material.
- Establish programs for maintaining current job site records, labor relations, and Equity Contractor participation that meets the requirements of the Regional Workforce Equity Agreement and the Construction Diversity and Inclusion Policy.
- Setup and training for compliance systems.
- Develop site-specific safety plan and safety indoctrination and training materials.
- Develop site quality orientation program and training materials.
- Develop a Schedule Control and Recovery Plan.
- Develop procedures and processes for management of all trade subcontractor submittals including safety, work plans, material submittals, technical submittals, contractor engineering services, quality plan, survey, schedules, schedule of values and the following:
 - Civil
 - Groundwater control plan
 - Environmental Management Plan
 - Temporary on-site water treatment system needed to treating stormwater and



- groundwater
 - Settlement monitoring plan
 - Demolition plan
 - Aggregate product data
 - Asphalt product data
 - Asphalt mix design trial batching
 - Concrete mix design trial batching
 - Soil sterilant product data
 - Erosion control barrier product data
 - Temporary seeding product data
 - Geotextile product data
 - Precast Waterline Structures
 - Shoring designs
- Mechanical
- Utility protection plan
 - Trench excavation and backfill plan
 - Trench bedding and backfill product data
 - Underdrain product data
 - Connection shutdown, dewatering, and testing / commissioning plans
 - Welded steel pipe and fittings
 - Long lead DIP and C300 pipe
 - Long lead pipe lining and coating systems
 - Underground butterfly valves and actuators
 - Gate valves
 - Flexible connectors
 - Sleeve couplings
 - Bolts Nuts Gaskets
 - Pipe saddles
 - Flange coupling adapters
 - Pipe accessories
- Electrical
- Develop and submit for approval the temporary power plan
 - Electrical Panel

General Conditions staffing begins at NTP-1 on September 1, 2023, and continues to the NTP-2, which is anticipated to occur March 15, 2024. The basis of the General Conditions staffing and the level of effort is summarized in the staffing worksheet in **Attachment D2** for Preparation for GMP2 GeneralConditions.



Schedule

A review of the overall schedule has shown that certain materials may have long lead-times affecting project completion. Early purchase may enhance construction of the project to meet the the required schedule. Without these early purchases, the contractor may not be able to meet the timeframe required in the contract. Approval of this GMP 1 helps to assure that the contractor will meet the completion deadlines. It is anticipated that the BRCP will submit a revised schedule showing the need to early procurement.

The BRCP developed the 90% Design draft schedule submitted March 27, 2023 and is addressing comments received from the OWNER. This draft schedule incorporates the known specifications for items such as weather delays from the 007200 and the identified milestone dates in specification section 01 31 30 shown below. While BRCP is addressing comments from the OWNER and finalizing the project schedule, the March 27 submittal is the basis for determining the need for this Early Works GMP.

- Facilities of Raw Water complete connection date of March 25, 2027
- Facilities Finish Water complete connection date of July 1, 2027

The draft schedule suggests that the critical and sub critical paths (within 2 weeks of critical) for the project runs through the procurement of the Tunnel Mining Machine and the subsequent Raw Water Tunneling activities as well as the S-01 Cut and Cover Pipeline package. The latest project schedule demonstrates the need to initiate fabrication of the pipe and TBM by March 2024. The OWBER has asked BRCP to address comments received from the OWNER, confirm the schedule analysis, and submit a final approval schedule. This suggests the need to prepare the tunneling equipment and enter into pipe supplier contracts as early as possible to ensure that the submittals can be prepared and approved and that these items can be released for fabrication upon receipt of GMP 2 NTP.

An Early Works GMP 1 will help assure that the milestones are met and will also lock in a large portion of the materials cost milestones. This Early Works proposal is based on:

- Completion of bidding activities by BRCP during the PTE phase
- Receipt of a NTP for the entire Early Works scope on or before September 1, 2023.
- The GMP 1 Early Works proposal is based on the work period from September 1, 2023, to March 15, 2024.

PWB or BRCP delays approval of this proposal or completing prerequisite work, issuance of the Early Work NTP-1, or release of a partial scope of work, may necessitate a revised schedule and pricing, which may include changes to vendor pricing, our proposed means and methods, and/or activity sequencing. If delays do occur outside of BRCP's control, BRCP will work as a partner with the PWB and the selected Vendors to minimize any negative impacts to the overall project. If impacts are realized, BRCP will need to revise this proposal to capture those changes.



Pricing Summary

Pricing of this Early Works GMP is summarized as follows:
GMP 1 Initial Contract

Item	Basis	Price
General Conditions (GMP1 Procurement)	GMP	\$595,254
General Conditions (GMP2 CM Preparation)	GMP	\$1,040,562
Contractor Contingency	GMP	\$200,000
Subtotal		\$1,835,816
Bonds (1.01%)	GMP	\$18,542
Subtotal		\$1,854,358
CMGS Fee(9.75%)	GMP	\$180,800
Subtotal for CM/GC Initial Contract		\$2,035,158

Owner's Management Reserve for Anticipated Procurement Packages

P-01 - Large Diameter Steel Pipe, and Fittings	Estimate	\$27,062,045	
P-02 - Large Diameter Valves	Estimate	\$5,598,254	
P-03 - Small Diameter Water Pipe	Estimate	\$251,650	
P-04 - Electrical Generator and Panelboards	Estimate	\$109,751	
S-02 - Tunnel Mining Equipment Preparation	Estimate	\$3,759,108	
Subtotal		\$36,780,808	
Owner Contingencies		\$12,976,111	
Subtotal			\$49,756,919
Total amount for initial contract and OWNER's Management Reserve			\$51,792,077

- See Attachment C for P-Package and S-Package Pricing and Owner Allowance Summary. The Owner Management Reserve is for the sole purpose of possible change orders for the 5



procurement packages, at the actual agreed contract values subsequent to bidding.

BRCP appreciates the opportunity to submit this Early Works GMP proposal. We appreciate working closely with PWB staff finalizing this effort.

Sincerely,

A handwritten signature in blue ink, appearing to read "Joe Sesil".

Joe Sesil
Preconstruction Manager
Bull Run Conveyance Partners

- Attachments:
- A Source Documents
 - B Assumptions/Clarifications/Exclusions
 - C P-Package Pricing with Owner Allowance Summary
 - D1 General Conditions for Early Works Procurement
 - D2 General Conditions for Preparation of GMP 2
 - E Contractor Risk and Contingency Log



ATTACHMENT A
Source Documents

BRCP utilized the following documents in preparation of this Early Works GMP proposal:

1. 90% Drawing Updates for LFWP Deletion, March 22, 2023
2. 03 Drawings LFWP Scope Markups, February 02, 2023
3. 90% Design Memo, December 22, 2022
4. 90% Drawings (606 sheets)
5. 90% Specifications
6. 90% Calculations
7. GBR
8. Final GDRs and GERs, January 2023



ATTACHMENT B Assumptions/Clarifications/Exclusions

ASSUMPTIONS and CLARIFICATIONS

1. This proposal is based on the final Prime Contract between the City of Portland and BRCP.
2. For the purposes of preparing this Early Works proposal, BRCP pricing is based on execution of the entirety of the Scope of Services described in this GMP document including the identified assumptions, clarifications, and exclusions. The complete scope is integral to meeting the pipeline schedule milestones, which are controlled by meeting the Facilities project milestones. ***If the PWB elects to modify the scope of services to be provided in the Early Works from what is described in this proposal, BRCP will work with the PWB to modify this proposal addressing the impacts of the changed scope of work.*** If actual conditions or requirements are contrary to any of the stated clarifications or exclusions, the BRCP reserves the right to adjust estimated costs and schedule.
3. For purposes of preparing this Early Works proposal, BRCP has assumed an NTP for the entire Early Works scope will be issued on or before September 1, 2023. Beginning contract to allow for the submittals, is integral to BRCPs planned means and methods priced herein. If an NTP for the complete scope of work is not authorized prior to September 1, 2023, BRCP will work with the PWB to modify this proposal addressing impacts of the changed start date and/or scope of work.
4. This requires that Engineer (Jacobs) be available to review and approve construction submittals beginning September 1, 2023.
5. BRCP's GMP 1 Early Works proposal includes pricing for the Product Procurement Packages beginning at GMP 1 NTP on September 1, 2023, and ending by March 15, 2024, with the anticipated NTP for GMP 2 BOP. All Product Procurement Package management after March 15, 2024, will be part of GMP 2 BOP. If GMP 2 is not awarded by March 15, 2024, BRCP will work with PWB to transfer responsibility of the work package management. The cost for such a transfer is not included in this proposal.
6. BRCP's current draft project schedule has been developed inclusive of both GMP 1 Early Works and GMP 2 BOP schedule. This draft schedule meets the milestone dates for the Raw Water of March 25, 2027, and Finish Water of July 1, 2027, connections for the Facilities start up and commission efforts. BRCP is addressing comments from the OWNER and will submit a revised schedule for review and approval.
7. Contractor Contingency, excluding material escalation is available as a total amount to the project. Individual risk and contractor contingency line-item totals are for identification and tracking only and do not represent Not to Exceed values for individual line items.
8. This Early Works GMP proposal was developed based on the pricing included as Attachment C. This Early Works GMP proposal does not include all the work shown on Jacob's 90% design deliverable. Where differences exist between the pricing shown in Attachment C and the scope of work shown on Jacob's 90% design deliverable, then the pricing shown in Attachment C shall govern.
9. CM/GC's submittals will be provided in accordance with the contract.
10. CM/GC will be provided with a copy of the project's Masterworks (PMIS) database at project completion specifically including, but not limited to, copies of all submittals, RFIs, design clarifications, change orders, in accordance with the contract.



11. This proposal includes the cost of Payment and Performance bonds for GMP 1 Early Works only. Separate Payment and Performance bonds will be provided for GMP 2 BOP.
12. Current lead times for materials do not cover changes due to material availability and /or supply chain issues.
13. BRCP assumes that there will be no rejection or modification of proposed S-02 Tunnel Contractor post BRCPs issuance of a limited notice to proceed (LNTP). Any rejection of this Trade Subcontractor, modifications to scope, modifications to design, specification, schedule, and/or contract documents will require changes to the proposed scope and potential cost and schedule of supply.
14. BRCP expects to flow down all applicable and required language from the Prime Contract into the Vendor Agreements once this GMP 1 is fully executed. As BRCP has not had the opportunity to negotiate any exclusions or clarifications provided by the proposed Vendors in preparation of this proposal, BRCP reserves the right to modify specific inclusions and exclusions associated with each product procurement package, subject to review and approval by the OWNER prior to award. BRCP will negotiate all terms and conditions with included Vendors in good faith and to the mutual benefit of the PWB and BRCP.

EXCLUSIONS (i.e., items not included in this Early Works GMP proposal)

1. Labor of any sort to receive, inspect on delivery, store, or maintain materials (which will be included in GMP 2).
2. All installation, testing and disinfection activities. Installation, testing and disinfection activities will be included in GMP 2 BOP.
3. All commissioning and start-up activities. Commissioning and start-up along with testing activities will be included in GMP 2 BOP.
4. Owner's costs during construction, such as staff and/or Owner's contingency.
5. Special inspection fees and third-party testing related to special inspections of the manufactured products.
6. Schedule changes beyond the control of BRCP.

WORK PACKAGE SPECIFIC ASSUMPTIONS/CLARIFICATIONS/EXCLUSIONS

Unless stated otherwise below, work shall comply with the pricing documents included as **Attachment C** to this proposal. Assumptions/clarifications/exclusions specific to certain work packages are as follows:

General Conditions

1. This product procurement package, Early Works GMP 1, is priced for a period beginning on September 1, 2023, and ending by March 15, 2024. Any additional cost will be included in GMP2 Balance of Project (BOP).
2. GMP 1 includes management of securing purchase agreements with vendors, which will include submittals, purchasing, manufacturing, factory inspection and delivery.
3. This package excludes BRCP mobilizing to project site. Costs of the mobilization will be included in GMP 2 BOP.



Package P-01, 02, 03, 04, and 05 – Direct Purchase of Key Long Lead Equipment

1. The estimate for these product procurement packages is based on the 90% OPCC pricing performed by BRCP and will be adjusted to final bids received and based on the 100% design documents.
2. These product procurement packages include only the purchase of the product based on approved shop drawings and submittals.
3. Requires having Engineer and PWB to review shop drawing submittals starting on September 1, 2023.
4. Prime contract Terms and Conditions will be flowed down to Vendors.
5. CM/GC has included one inspection trip to the manufacturer. BRCP assumes that the owner or owners' representative inspection and trips will participate in inspection at OWNER's cost.
6. All purchasing of long lead items described in this GMP may not be completed prior to March 15, 2024. Should the March 15, 2024, date not be extended by change order, or GMP 2 not execute, the work related to this scope will cease prior to the March 15, 2024, date to allow the CM/GC time to transfer items over to the PWB.

Package P-01 Large Diameter Steel Pipe, and Fittings

1. This allowance is included to purchase the long lead large diameter steel pipe and fittings included in the 90% design documents and the proposed allowance is based on 90% OPCC pricing provided by BRCP. Allowance will be updated to actual bid pricing based on the 100% documents.
2. In this allowance BRCP will secure purchase agreements with vendors, which will include submittals, purchasing, manufacturing, factory inspection, storage, and delivery of the product. It is anticipated that the Vendor will manufacture and store an approximate amount of pipe prior to delivery beginning. That storage will be at the vendor's cost and included in the Purchase Agreement. If the vendor chooses to manufacture more or less pipe, it will be at its own storage and manufacturing cost to comply with the agreement terms. GMP2 will include inspection at the job site with the trade subcontractor.
3. GMP2 trade subcontractor will coordinate delivery, receipt, unloading and inspection at job site, handling, storing, installing, and testing of the product.
4. Pipe has been assumed to be supplied at the longest practical lengths and as noted in the scope of work. Any modifications required by installation contractors will be requested at time of bid and any additional manufacturing costs associated with those modifications will be included in the trade subcontractor bids.

Package P-02 - Large Diameter Valves

1. An Allowance is included to purchase the long lead large diameter valves included in the 90% design documents and the proposed allowance is based on 90% OPCC pricing provided by BRCP. Allowance will be updated to actual bid pricing based on the 100% documents.



2. In this allowance BRCP will secure purchase agreements with vendors, which will include submittals, purchasing, manufacturing, factory inspection, and delivery of the product. GMP2 will include inspection at the job site with the trade subcontractor.
3. GMP2 trade subcontractor will coordinate delivery, receipt, unloading and inspection at job site, handling, storing, installing, and testing of the product.

Package P-03 - Small Diameter Water Pipe

1. An Allowance is included to purchase the long lead small diameter pipe, valves and fittings required for the relocation of the Pleasant Homes Water Line on Lusted Rd. and Altman Rd. as shown in the 90% design documents and is based on 90% OPCC pricing provide by BRCP.
2. In this allowance BRCP will secure purchase agreements with vendors, which will include submittals, purchasing, manufacturing, factory inspection, and delivery of the product. GMP2 will include inspection at the job site with the trade subcontractor.
3. GMP2 trade subcontractor will coordinate delivery, receipt, unloading and inspection at job site, handling, storing, installing, and testing of the product.

Package P-04 - Electrical Generator and Panelboard Equipment

1. An allowance is included to purchase the long lead electrical gear including the generator, automatic transfer switch, loadbank and panelboard equipment for the Finish Water Intertie as shown in the 90% design documents and is based on 90% OPCC pricing provide by BRCP.
2. In this allowance BRCP will secure purchase agreements with vendors, which will include submittals, purchasing, manufacturing, factory inspection, and delivery of the product. GMP2 will include inspection at the job site with the trade subcontractor.
3. GMP2 trade subcontractor will coordinate delivery, receipt, unloading and inspection at job site, handling, storing, installing, and testing of the product.

Package P-05 - Tunnel Mining Equipment (Digger Shield - Road Header)

1. An allowance is included for preparation of the Tunnel Mining Equipment (Digger Shield - Road Header) to meet requirements shown in the 90% design documents and is based on 90% OPCC pricing provided by BRCP.
2. This allowance does not include any receipt, or management and use of the product, which will be included in GMP 2 subcontractor packages for managing receipt and management and use of the product.
3. The Tunnel Mining Equipment, S-02 LNTP allowance is an early out package for the selected best- value tunneling Sub-contractor such that they can prepare a TBM or modify an existing TBM before the NTP of GMP-2. It is not the intention of the GC/CM nor PWB to own a TBM but give the Sub-contractor additional time such that, the TBM delivery staying out of critical path,



this should save expediting time by the TBM Sub-contractor and ultimately saving money for PWB.

4. After Best Value Selection is approved by PWB the CMGC will sign a Limited Notice to Proceed with the S-02 Tunnel subcontractor to prepare the Tunnel Mining Equipment and the subcontractor will own all risk related to the purchase, and associated coordination, delivery, management, handling, use and maintenance of equipment.
5. The S-02 Tunnel Package Request for Proposal (RFP) and contract will include two lump sum line items; one for the cost needed to prepare the Tunnel Mining Equipment, including the trade subcontractors management of submittals cost, which will be contracted under this GMP1 as a LNTP to the S-02 Tunnel Contractor, and a lump sum for the remaining S-02 package contract under GMP2 NTP.

Attachment C - Pricing

Work Package	Package Description	Item Description	Vendor Budgetary Quote Amount	Owner Controlled Contingency - Scope Adjustments and Quote Exclusion Amount	Owner Controlled Contingency - Contract T&C Adjustment Amount	Owner Controlled Contingency - Forecasted Material Escalation Amount	Total Recommended Amount
P-01	Large Diameter Steel Pipe & Fittings		\$ 27,062,045	\$ 830,805	\$ 1,350,000	\$ 1,460,000	\$ 30,702,850
		Northwest Pipe Budget Quote dated 03/24/23	\$ 27,062,045	\$ -	\$ -	\$ -	
		CAT Tax Excluded from Northwest Pipe Quote	\$ -	\$ 154,254	\$ -	\$ -	
		2.5% Scope changes between 90% and 100% and material quote exclusions	\$ -	\$ 676,551	\$ -	\$ -	
		5% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 1,350,000	\$ -	
		5.0% Adjustment for Escalation (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 1,460,000	
P-02	Large Diameter Valves		\$ 5,598,254	\$ 451,898	\$ 170,000	\$ 150,000	\$ 6,370,153
		KGS Northwest (Pratt) Quote for V317 Ball Valves dated 03/20/23	\$ 1,852,234	\$ -	\$ -	\$ -	
		Warranty, spare parts, submittals (w/ seismic calcs), torque limiting device, freight, and CAT Tax excluded from quote	\$ -	\$ 166,817	\$ -	\$ -	
		3.0% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 60,000	\$ -	
		2.5% Adjustment for Escalation (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 50,000	
		VAG Quote for V961 Plunger Valves dated 03/03/23	\$ 639,800	\$ -	\$ -	\$ -	
		Warranty, spare parts, submittals (w/ seismic calcs), freight, and CAT Tax excluded from quote	\$ -	\$ 52,162	\$ -	\$ -	
		3.0% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 20,000	\$ -	
		2.5% Adjustment for Escalation (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 20,000	
		KGS Northwest (Pratt) Quote for V504 Butterfly Valves dated 03/20/23	\$ 432,792	\$ -	\$ -	\$ -	
		Warranty, spare parts, submittals (w/ seismic calcs), freight, and CAT Tax excluded from quote	\$ -	\$ 36,483	\$ -	\$ -	
		3.0% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 10,000	\$ -	
		2.5% Adjustment for Escalation (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 10,000	
		Cascade Consultants (Armacon) Quote for V540 Butterfly Valves dated 03/20/23	\$ 2,673,428	\$ -	\$ -	\$ -	
		Warranty, spare parts, submittals (w/ seismic calcs), valve supports and anchors, freight, and CAT Tax excluded from quote	\$ -	\$ 196,437	\$ -	\$ -	
		3.0% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 80,000	\$ -	
		2.5% Adjustment for Escalation (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 70,000	
P-03	PHWD Waterline Pipe & Fittings		\$ 251,650	\$ 25,165	\$ 10,000	\$ 10,000	\$ 296,815
		Ferguson Budget Quote dated 03/24/23	\$ 251,650	\$ -	\$ -	\$ -	
		10% Scope changes between 90% and 100% and material quote exclusions	\$ -	\$ 25,165	\$ -	\$ -	
		5.0% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 10,000	\$ -	
		2.5% Adjustment for Escalation (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 10,000	
P-04	Finished Water Intertie Electrical Gear		\$ 109,751	\$ 626	\$ 20,000	\$ 20,000	\$ 150,377
		Colorado Standby (Cummins) Generator Quote dated 03/22/23	\$ 75,918	\$ -	\$ -	\$ -	
		CMGC Carried Excluded Costs from Quote (CAT Tax)	\$ -	\$ 433	\$ -	\$ -	
		Graybar Quote dated 03/22/23 for Panelboards, Transformer, CT Cabinet, and Break	\$ 33,833	\$ -	\$ -	\$ -	
		CMGC Carried Excluded Costs from Quote (CAT Tax)	\$ -	\$ 193	\$ -	\$ -	
		15.0% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 20,000	\$ -	
		15.0% Adjustment for Escalation (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 20,000	
S-02	Tunnel Mining Equipment		\$ 3,759,108	\$ 93,978	\$ 190,000	\$ 320,000	\$ 4,363,085
		Herrenknecht Tunnelling Systems USA Budget Quote dated 02/17/23	\$ 3,759,108	\$ -	\$ -	\$ -	
		2.5% Excluded Costs from Quote	\$ -	\$ 93,978	\$ -	\$ -	
		5.0% Adjustment for Firm Bid Price per Material Contract T&C's vs. Budget Quote (rounded to nearest \$10k)	\$ -	\$ -	\$ 190,000	\$ -	
		8.0% Adjustment for Escalation and Currency Exchange (rounded to nearest \$10k)	\$ -	\$ -	\$ -	\$ 320,000	
Owner Controlled Contingency							\$ 12,976,111
			\$ 36,780,808				\$ 49,756,919

Attachment D-1 - General Conditions for P-Package Procurement

GMP2 - Anticipated Notice To Proceed Date

3/16/2024



Staff Position	Billing Rate (04/01/23 to 03/31/24)	Vehicle (Y/N)	Vehicle Billing Rate (01/01/23 to 03/31/24)	Travel Expenses Lump Sum Amount	GMP1 Start Date	GMP1 Finish Date	GMP1 Duration (Wks.)	GMP1 Extended Labor Amount	GMP1 Extended Equipment Amount	GMP1 Extended Travel Expenses Amount
Project Manager	\$215.40	No	\$0.00	\$20,000	9/1/23	3/15/2024	14.50	\$124,932.00	\$0.00	\$20,000
Pipe/Tunnel Manager	\$205.42	No	\$0.00	\$10,000	9/1/23	3/15/2024	6.40	\$52,587.52	\$0.00	\$10,000
Senior Project Engineer	\$182.17	No	\$0.00	\$0	9/1/23	3/15/2024	23.10	\$168,325.08	\$0.00	\$0
Office Engineer	\$101.93	No	\$0.00	\$0	9/1/23	3/15/2024	25.60	\$104,376.32	\$0.00	\$0
Project Controls (1)	\$109.45	No	\$0.00	\$0	9/1/23	3/15/2024	9.50	\$41,591.00	\$0.00	\$0
Project Clerk (1)	\$62.90	No	\$0.00	\$0	9/1/23	3/15/2024	4.50	\$11,322.00	\$0.00	\$0
Sitewide Services Quality Control Manager	\$280.80	No	\$0.00	\$20,000	9/1/23	3/15/2024	3.75	\$42,120.00	\$0.00	\$20,000
							87.35	\$545,253.92	\$0.00	\$50,000

Overall Total: \$595,254

Tasks	WK	14.5	6.4	23.1	25.6	9.5	4.5	3.8
	HR	580	256	924	1024	380	180	150
	Positions	PM	Pipe/Tunnel	Sr PE	OE	PCI	PC Clerk	QA/QC
project initialization meeting with vendors								
P-01 Large Diameter Steel Pipe & Fittings		40	40	40	60	2	4	
P-02 Large Diameter Valves		20	20	40	40	2	4	
P-03 PHWD Waterline Pipe & Fittings		20	0	40	40	2	4	
P-04 Finished Water Intertie Electrical Gear		20	0	40	20	2	4	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		40	40	60	60	2	4	
submittal development support and review, #1								
P-01 Large Diameter Steel Pipe & Fittings		8	16	16	40	4	4	
P-02 Large Diameter Valves		8	10	10	16	4	4	
P-03 PHWD Waterline Pipe & Fittings		2	2	10	16	4	4	
P-04 Finished Water Intertie Electrical Gear		8	0	16	24	4	4	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		8	24	24	40	4	4	
submittal development support and review, #2								
P-01 Large Diameter Steel Pipe & Fittings		4	4	8	8	2	2	
P-02 Large Diameter Valves		2	2	4	4	2	2	
P-03 PHWD Waterline Pipe & Fittings		2	2	4	4	2	2	
P-04 Finished Water Intertie Electrical Gear		2	0	4	4	2	2	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		4	4	8	8	2	2	
document control system establishment and usage, #1								
P-01 Large Diameter Steel Pipe & Fittings		4		8	16	16	8	
P-02 Large Diameter Valves		4		8	16	16	8	
P-03 PHWD Waterline Pipe & Fittings		4		8	16	16	8	
P-04 Finished Water Intertie Electrical Gear		4		8	16	16	8	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		4		8	16	16	8	
submittal of documents, #1								
P-01 Large Diameter Steel Pipe & Fittings		8	4	8	8	2	2	
P-02 Large Diameter Valves		2		8	8	2	2	
P-03 PHWD Waterline Pipe & Fittings		2		8	8	2	2	
P-04 Finished Water Intertie Electrical Gear		2		8	8	2	2	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		4	4	8	8	2	2	
submittal of documents, #2								
P-01 Large Diameter Steel Pipe & Fittings		4	2	4	8	2	2	
P-02 Large Diameter Valves		2		4	8	2	2	
P-03 PHWD Waterline Pipe & Fittings		2		4	8	2	2	
P-04 Finished Water Intertie Electrical Gear		2		4	8	2	2	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		4	2	4	8	2	2	
pay application development								
P-01 Large Diameter Steel Pipe & Fittings		8		16	16	8	4	
P-02 Large Diameter Valves		8		16	16	8	4	
P-03 PHWD Waterline Pipe & Fittings		8		16	16	8	4	
P-04 Finished Water Intertie Electrical Gear		8		16	16	8	4	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		8		16	16	8	4	
pay application review and approvals of vendors submissions to PWB, #1								
P-01 Large Diameter Steel Pipe & Fittings		40		80	80	40	20	
P-02 Large Diameter Valves		40		80	80	40	20	
P-03 PHWD Waterline Pipe & Fittings		40		80	80	40	20	
P-04 Finished Water Intertie Electrical Gear		40		80	80	40	20	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		40		80	80	40	20	
Site Visit to Vendor Facility								
P-01 Large Diameter Steel Pipe & Fittings		20	20				20	
P-02 Large Diameter Valves		20	20				20	
P-03 PHWD Waterline Pipe & Fittings		0	0				0	
P-04 Finished Water Intertie Electrical Gear		20	0	20			20	
P-05 Tunnel Mining Equipment (Digger Shield and Roadway Header)		40	40				40	



GMP2 - Anticipated Notice To Proceed Date

3/16/2024

Staff Position	Billing Rate (04/01/23 to 03/31/24)	Vehicle (Y/N)	Vehicle Billing Rate (01/01/23 to 03/31/24)	GMP1 Start Date	GMP1 Finish Date	GMP1 Duration (Wks.)	GMP1 Extended Labor Amount	GMP1 Extended Equipment Amount	Participation in Preparation for GMP2 for Defined Duration
Project Manager	\$215.40	No	\$0.00	9/1/23	3/15/2024	14.00	\$120,624.00	\$0.00	1/2 time shared with GMP1 Procurement GCs
Project Construction Manager	\$240.03	Yes	\$43.24	10/15/23	3/15/2024	22.30	\$214,106.76	\$19,285.04	Full time
Project Manager - Construction Manager Waterline	\$205.42	Yes	\$43.24	11/1/23	3/15/2024	17.50	\$143,794.00	\$15,134.00	Full time
Project Manager - Tunnel Manager	\$205.42	No	\$0.00	12/15/23	3/15/2024	8.20	\$67,377.76	\$0.00	1/2 time shared with GMP1 Procurement GCs
Project Engineer	\$148.28	No	\$0.00	9/1/23	3/15/2024	16.80	\$99,644.16	\$0.00	Full time
Schedule Engineer	\$174.12	No	\$0.00	12/15/23	3/15/2024	4.20	\$29,252.16	\$0.00	Full time
Schedule Engineer VCD/BIM	\$237.71	No	\$0.00	2/15/24	3/15/2024	4.20	\$39,935.28	\$0.00	Full time
Superintendent 1 - "Grading/Traffic/Erosion"	\$148.28	Yes	\$43.24	2/15/24	3/15/2024	5.80	\$34,400.96	\$5,015.84	Full time
Field Engineer 1 - "Grading/Traffic/Erosion"	\$101.93	Yes	\$43.24	2/15/24	3/15/2024	5.80	\$23,647.76	\$5,015.84	Full time
Project Controls (2)	\$109.45	No	\$0.00	2/15/24	3/15/2024	4.70	\$20,576.60	\$0.00	Full time
Project Clerk (2)	\$62.90	No	\$0.00	2/15/24	3/15/2024	4.70	\$11,825.20	\$0.00	Full time
Contract Labor Compliance	\$148.77	No	\$0.00	12/15/23	3/15/2024	8.20	\$48,796.56	\$0.00	Full time
Field Engineer	\$101.93	No	\$0.00	2/15/24	3/15/2024	16.80	\$68,496.96	\$0.00	Full time
Sitewide Services Quality Control Manager	\$280.80	No	\$0.00	1/15/24	3/15/2024	4.90	\$55,036.80	\$0.00	3/4 time shared with GMP 1 Procurement GCs
Sitewide Services - Safety/Fire	\$133.35	Yes	\$43.24	1/15/24	3/15/2024	3.00	\$16,002.00	\$2,594.40	Full time
						141.10	\$993,516.96	\$47,045.12	

Overall Total: \$1,040,562.08

Wk	14	22	18	8	17	4	4	6	6	5	5	8	17	5	3
HR	560	892	700	328	672	168	168	232	232	188	188	328	672	196	120
Positions	Project Manager	Project Construction Manager	Project Manager - Construction Manager Waterline	Project Manager - Tunnel Manager	Project Engineer	Schedule Engineer	Schedule Engineer VCD/BIM	Superintendent 1 - "Grading/Traffic/Erosion"	Field Engineer 1 - "Grading/Traffic/Erosion"	Project Controls (2)	Project Clerk (2)	Contract Labor Compliance	Field Engineer	Sitewide Services Quality Control Manager	Sitewide Services - Safety/Fire
Tasks															
Develop procedures and processes for the following:															
- Spill Prevention Control and Countermeasures Plan	24	24	16	4	16	0	0	16	16				16	12	
- Site Security Plan	24	24	16	4	16	0	0	16	16				16	12	
- Noise Control Plan	24	24	16	8	16	0	0	16	16				16	12	
- Site Staging Plan	24	40	40	8	16	0	0	40	40				16	12	
- Dust control plan	24	40	16	4	16	0	0	16	16				16	12	
- Site condition pre-construction survey	16	24	16	8	16	0	0	16	16				16	16	
- Utility locating and reporting plan	16	24	16	4	16	0	0	16	16				16	8	
- Develop a project-wide survey plan.	24	40	16	16	16	0	0	40	40				16	16	
Setup of project accounting systems for accounts payable, accounts receivable and cost tracking systems.	24	40	16	4	40	24	24	16	16	40	40	24	40		
Setup of project management, cost management, and document control systems.	24	40	16	4	40	24	24	0	0	24	24	24	40	20	
Develop a Cost Control and Recovery Plan.	24	40	16	4	20	8	8	0	0	24	24	40	40	20	
Develop project governance and performance reporting templates.	40	24	24	8	40	24	24	16	16	24	24	40	40		
Develop staff on-boarding program and material.	12	8	8	2	20	0	0	0	0	24	24	40	20		
Setup and training for compliance systems.	12	4	4	2	8	0	0	0	0	16	16	40	8		
Develop craft safety indoctrination and training materials.	12	8	8	4	8	0	0	0	0	8	8	40	8		80
Develop site quality orientation program and training materials.	12	8	8	4	8	0	0	0	0	8	8	40	8		80
Develop a Schedule Control and Recovery Plan.	12	8	8	4	8	40	40	0	0	4	4	0	8		
Develop procedures and processes for management of all trade subcontractor submittals including safety, work plans, material submittals, technical submittals, contractor engineering services, quality plan, survey, schedules, schedule of values and the following:	24	40	40	24	40	24	24			16	16	40	40	16	40
§ Environmental Management Plan	8	16	16	8	12								12		
§ Temporary on-site water treatment system needed to treating stormwater and groundwater	40	40	40	40	40								40		
§ Settlement monitoring plan	16	40	24	12	12								12		
§ Demolition plan	4	8	8	4	40								40		
§ Aggregate product data	4	8	8	4	8								8		
§ Asphalt product data	4	8	8	4	8								8		
§ Asphalt mix design trial batching	4	8	8	4	8								8		
§ Concrete mix design trial batching	4	8	8	4	8								8		
§ Soil sterilant product data	4	8	8	4	8								8		
§ Erosion control barrier product data	4	8	8	4	8								8		
§ Temporary seeding product data	4	8	8	4	8								8		
§ Geotextile product data	4	8	8	4	8								8		
§ Precast Waterline Structures	4	8	8	4	8								8		
§ Shoring designs	4	16	40	40	8								8		
§ Utility protection plan	4	16	24	8	8								8		
§ Trench excavation and backfill plan	4	8	16		8								8		
§ Trench bedding and backfill product data	4	8	16		8								8		
§ Underdrain product data	4	8	8		8								8		
§ Connection shutdown, dewatering, and testing / commissioning plans	40	80	40		8	24	24	24	24				8		
§ Welded steel pipe and fittings	4	8	24		8								8		
§ Long lead DIP and C300 pipe	4	8	8	24	8								8		
§ Flexible connectors	2	8	8		8								8		
§ Sleeve couplings	2	8	8		8								8		
§ Bolts Nuts Gaskets	2	8	8		8								8		
§ Pipe saddles	2	8	8		8								8		
§ Flange coupling adapters	2	8	8		8								8		
§ Pipe accessories	2	8	8		8								8		
§ Develop and submit for approval the temporary power plan	2	40	8	24	12								12		
§ Electrical Panel	2	16	8	16	12								12		

**ATTACHMENT E
GENERAL CONDITIONS CONTINGENCY LOG**

Item #	Risk Category	Risk Description	CMGC Contingency (SEE NOTES 1, 2)
3	General Conditions	Increased CMGC general conditions staffing costs to support the Work, including but not limited to the need to add staff to manage Equipment Vendor submittals and coordination with Subcontractors, cost reimbursable billing, off-site inspections, etc.	\$200,000
CM/GC Contingency Total			\$200,000

Notes

1. CM/GC Contingency is available as a total amount to be used by the CM/GC as needed
2. CM/GC contingency excludes costs resulting from Owner caused delays. MWH-Fowler JV assumes that costs resulting from owner caused delays will be paid by Change Order in accordance with the Contract documents.