CLACKAMAS
WATER ENVIRONMENT SERVICES

GREGORY L. GEIST | DIRECTOR
Water Quality Protection
Surface Water Management
Wastewater Collection & Treatment

October 2, 2025 BCC Agenda Date/Item: _____

Board of County Commissioners
Acting as the governing body of Water Environment Services
Clackamas County

Approval of an Amendment to a Public Improvement Contract with Carollo Engineers for Clackamas Area Interceptor Improvements Project design and bidding consultant services. Amendment Value is $526,957.43 and no time increase. Total Contract Value is $4,820,068.43 for 5 years. Funding is through WES Sanitary Sewer Construction Fund. No County General Funds are involved.

Previous Board Action/Review	• Approval of Contract #7185 for Carollo Engineering Inc. to provide design services for the Clackamas Area Interceptor project – November 23, 2022 • Approval of Amendment #1 – January 5, 2023 • Approval of Amendment #2 – February 8, 2024		
Performance Clackamas	1. Strategically plan and execute capital projects to meet the growth, reliability, and regulatory needs of our service area at the lowest life cycle cost. 2. This project supports the County's Strategic Priority of Strong Infrastructure.		
Counsel Review	Yes	**Procurement Review**	Yes
Contact Person	Jessica Rinner	**Contact Phone**	503-742-4551

EXECUTIVE SUMMARY: The Collection System Master Plan identified the Clackamas Area Interceptor system upstream of the Intertie 2 Pump Station, which serves Clackamas County and portions of the City of Happy Valley, as nearing its peak wet weather capacity and needing to be upsized. In late 2022 WES entered a contract with Carollo Engineering Inc. to provide the first phase of the project which included preliminary design and preliminary permitting for the project. The project will be constructed in four separate segments. This amendment includes consultant services to proceed with final design and bidding services for the Middle Clackamas Interceptor and Mt. Scott Interceptor portions of the project.

RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve Amendment #3 for Contract #7185 with Carollo Engineers for

For Filing Use Only

final design of the Middle Clackamas Interceptor and Mt. Scott Interceptor portions of the Clackamas Area Interceptor Improvements Project.

Respectfully submitted,

Greg Geist,
Director, WES

Attachment: Amendment #3 for Contract #7185 Carollo Engineers, Inc.

AMENDMENT #3
TO THE CONTRACT DOCUMENTS WITH CAROLLO ENGINEERS, INC., FOR ENGINEERING SERVICES NECESSARY TO DESIGN THE CLACKAMAS AREA INTERCEPTOR PROJECT
Contract #7185

This Amendment #3 is entered into between **Carollo Engineers, Inc.** ("Contractor") and Water Environment Services ("District") and shall become part of the Contract documents entered into between both parties on **November 23, 2022** ("Contract").

The Purpose of this Amendment #3 is to make the following changes to the Contract:

1. ARTICLE I, Section 2. **Scope of Work** is hereby amended as follows:
District has authorized an increase to the Scope of Work for consultant to provide final design documents and bidding services for Middle Clackamas Interceptor and Mt. Scott Interceptor. The additional Scope of Work and Budget Detail is attached as **Exhibit "A**" to this Amendment #3 and hereby incorporated by reference.

2. ARTICLE I, Section 3. **Consideration** is hereby amended as follows:
The District is authorizing additional compensation in the amount of **$526,957.43** for the performance of additional work described above and in accordance with the terms of the Contract. The maximum compensation authorized under this Contract shall not exceed **$4,820,068.43.**

ORIGINAL CONTRACT	$	**3,731,573.00**
AMENDMENT #1	$	296,238.00
AMENDMENT #2	$	265,300.00
AMENDMENT #3	**$**	**526,957.43**
TOTAL AMENDED CONTRACT	**$**	**4,820,068.43**

Except as expressly amended above, all other terms and conditions of the Contract shall remain in full force and effect. By signature below, the parties agree to this Amendment #3, effective upon the date of the last signature below.

Carollo Engineers, Inc.

09/19/2025
Authorized Signature Date

Erik Waligorski, Vice President
Printed Name

09/19/2025
Authorized Signature Date

Brian Matson, Senior Vice President
Printed Name

Water Environment Services

Chair

Date

Approved for Legal Sufficiency:

9/22/2025
County Counsel Date

Exhibit A
Scope of Work and Budget Detail

ENGINEERING SERVICES FOR CLACKAMAS WATER ENVIRONMENT SERVICES

CLACKAMAS AREA INTERCEPTOR IMPROVEMENTS PROJECT

AMENDMENT 3 - SCOPE OF WORK

INTRODUCTION

Clackamas Water Environment Services, referred to as "District" wants to complete capacity upgrades on the existing Clackamas Area Interceptors as hydraulic modeling completed as part of the Sanitary Sewer Master Plan (SSMP) work completed by Jacobs in 2019 indicated portions of the interceptor are at its peak wet weather capacity and need to be upsized. The Clackamas Area Interceptor Improvements Project (Project) will consist of taking an existing conceptual design through final design and construction. The Project includes approximately 5 miles of pipe and capacity upgrades which are needed at varying timeframes.

This scope will include the final design documents of the following two sections of the alignment:

- **Middle Clackamas Interceptor** - The Middle Clackamas Interceptor starts just east of the intersection of Highway 212 and SE 135th Avenue and travels in a northwesterly direction to just south of the intersection of Minuteman Way and Mather Road. This section of the interceptor will install approximately 12,600 linear feet (lf) of new 42-inch to 48-inch pipe.
- **Mt Scott Interceptor** - The portion of the Mt Scott Interceptor included in this project begins at the existing Sanitary Sewer Manhole 003804 and travels to the west parallel to the Union Pacific Railroad (UPRR) tracks until the end of the Clackamas Interceptor at the Intertie 2 Diversion Box located at the north end of SE Johnson Rd. This section of the Mt Scott Interceptor will install approximately 1,240 lf of 54-inch pipe.

CONSULTANT'S SERVICES

Consultant shall provide the following services:

TASK 100 - PROJECT MANAGEMENT (Amended)

Amend this Task to include additional duration of Project Management tasks.

Subtask 130 Assumptions

1. Agenda or meeting minutes will be provided for the monthly project management calls. Decisions made during the calls will be entered into the Decision Log. Attendees to include three consultant staff.
2. Middle Clackamas Interceptor and Mt. Scott Interceptor projects to be advertised in accordance to Attachment 1: Final Design Schedule.
3. Project Management extended from December 2025 to May 2026 (17 months)

Task 100 Deliverables

1. 17 monthly Invoices and Progress Reports.
4. Decision Log submitted at major milestones (90 percent and 100 percent design).

TASK 350 - FINAL DESIGN AND BID SERVICES (New)

The purpose of this task is to develop plans and specifications of the recommended improvements to a bid ready design level.

1. Verify sewer service lateral depths between existing interceptor and connection point.
    a. Use underground utility locate vendor to provide locate 78 lateral services.
    b. All traffic control and associated permitting to be included by utility locate vendor.
    c. Add verified depth to plans as necessary.
2. Prepare separate 90 Percent, 100 Percent and Bid Ready Design Packages for Middle and Mt. Scott Interceptor Projects. Design packages to include drawings and specifications. Bid list to be included in DIV 00:
    a. Consultant Sheets shall include sheets and approximate sheet counts based on Attachment 2: Preliminary Sheet List and generally includes the following packages of work:
        i. Interceptor Plan, Profile and Details
        ii. Pavement Restoration and Details.
            (1) Paving Restoration;
            (2) Curbs and sidewalks,
            (3) ADA curb ramps;
            (4) Driveways;
            (5) Roadside barriers;
            (6) Signage;
            (7) Pavement markings (to match existing, where impacted);
            (8) Traffic signals and illumination;
            (1) Stormwater pipes and structures.
        iii. Erosion and Sediment Control
            (1) The Consultant team shall design and prepare Erosion and Sediment Control Plans (ESCP) for the project's Design Packages (Task 300) and 1200-CA permit (Task 700.05). The ESCP includes temporary and permanent stabilization for construction impacts.
            (2) Per the requirements of the 1200-CA permit (Task 700.05) the ESCP will be phased to consider construction sequencing. The ESCP will be developed to include 2 phases of construction:
                (a) Phase 1: Perimeter Control during clearing, demolition and underground utility installation.
                (b) Phase 2: Temporary Stabilization during roadway construction, and above ground utility installation.
                (c) Phase 3: Permanent Stabilization
            (3) Permanent Stabilization consists of permanent landscaping features and is anticipated to include elements such as biodegradable matting, compost mulch and permanent seeding. Seed mixes will be designed to revegetate the site after construction, and separate seed mixes will be developed for areas with differing site conditions, such as riparian areas, wetlands and uplands. Permanent Stabilization is included in the last phase of the ESCP.

(4) Plans will be developed for 90 Percent, 100 Percent, and Bid Ready Design packages, with specifications provided at all milestone submittals.

(2) The ESCP will be phased to meet the requirements of the 1200-CA permit, but Phased ESCP will be developed with the 90 Percent Design Package. The 90 Percent Design Package submittal will include a single set of plans to demonstrate the ESCP design concept prior to developing phased Plans.

iv. Landscape Restoration Planting Design and Details

(1) The Consultant team shall design and prepare planting plans for the purpose of restoring construction impacts to streams and applicable buffers.

(2) Restoration Planting consists of revegetation and is anticipated to include planting of trees, shrubs, groundcovers, and wetland plants, with associated permanent mulching such as bark mulch.

(3) Restoration Planting will incorporate any mitigation planting requirements causes from tree removals.

(4) Permanent seeding is included in the Erosion and Sediment Control Plan.

(3) Plans will be developed for 90 Percent, 100 Percent, and Bid Ready Design packages, with specifications provided at all milestone submittals.

v. Temporary Traffic Control

(a) Construction staging;

(b) Intersection and driveway detours;

(c) Bicycle and pedestrian accommodations (Oregon Department of Transportation [ODOT] Temporary Pedestrian Accessible Routes [TPAR]).

(1) Temporary Impacts on ODOT facilities will be coordinated with Mobility Advisory Committee (MAC). Assumed Consultant will prepare for and attend one MAC Presentation. Scope does not include LOS model.

(2) Consultant shall prepare and submit packages for Transportation Management Plan (TMP), Work Zone Decision Tree (WZDT), and Mobility Considerations Checklist (MCC) for submittal to ODOT at 90 Percent, 100 Percent, and Bid Ready milestones. ODOT will complete Work Zone Traffic Analysis to inform allowed lane restrictions.

(2) Consultant shall coordinate and attend up to two meetings with UPRR and/or ODOT Rail to coordinate required traffic control adjacent to UPRR right-of-way.

5. Conduct 90 percent and 100 percent design review meetings with District staff. These meetings will be held prior to submitting the design documents for District review and will include a review of constructability, permitting, real estate easement acquisition, and community impacts. A record of comments will be submitted with the 90 percent and 100 percent documents per Task 900.

6. The consultant will provide bid phase services. Bid Services and tasks would include the following:

a. Prepare and facilitate pre-bid meeting agenda, presentation and meeting minutes for Mt Scott and Middle Interceptor Projects.

b. Provide responses and support to the District to respond to bidder's questions. Prepare addenda to the contract to respond to bidder's questions.

c. Prepare conformed documents for construction of the project.

Subtask 351 - Cultural Resources Services (New)

Archaeological Site Evaluation

1. The field investigations will take place after completion of appropriate utility locates within the one archeological site area and following property access coordination. All work will be supervised by staff who meet the Secretary of Interior's Professional Qualifications Standards for their respective fields (36 Code of Federal Regulations Part 61). The Consultant and any contracted sub-consultants will not access private property without first obtaining written permission from the property owner.
2. Site evaluation investigations are used to assess National Register of Historic Places (NRHP) eligibility, which includes establishing vertical and horizontal site boundaries. Investigations under this task must comply with existing SHPO permit number 3892 and guidelines.
3. Field investigations will consist of shovel probes to delineate the boundary and quarter test units (QTU), and, if warranted, test units (TU) within site boundaries to investigate the surface and subsurface components. Shovel probes will be excavated at the site peripheries to document its horizontal extent. QTUs will be excavated at feature locations, where the highest surface concentrations of archaeological materials have been identified, and/or where there is any evidence of potentially stratified sedimentary deposits. TUs will be placed near QTUs containing substantial cultural material or at features needing further investigation.
4. Shovel probes will be round and measure at least 30 centimeters (cm) in diameter. QTUs will measure 50 by 50 cm square, and TUs will measure 100 by 100 cm square. Shovel probes, QTUs, and TUs will be excavated to a minimum depth of 50 cm plus two culturally sterile levels or until bedrock is encountered. All excavated soils will be screened through 1/8-inch hardware mesh, and all recovered artifacts will be collected for laboratory analysis and curation. Should excavation reveal extremely dense archaeological deposits or cultural features, soil samples may be collected for laboratory analysis.
5. Field personnel will record the environmental and cultural characteristics at the site, including descriptions of cultural deposits and boundaries. Features will be measured, photographed, and described in detail. An updated sketch map will be produced that includes the locations of prominent natural features, cultural activity areas or features, collected diagnostic artifacts, and excavation units. Photographs will be taken and recorded on a standardized photographic log.
6. The location of surface artifact concentrations, diagnostic artifacts, site boundaries, site datum, and excavation units will be recorded using GPS technology.

Lab Analysis and Curation

1. The archaeological permit will require Consultant to collect, analyze, and curate any encountered artifacts with an appropriate repository. Following fieldwork, collected artifacts will be transported to HRA's laboratory facilities for processing, inventory, and analysis. Artifacts will be processed in a manner that ensures their stability. Following processing, all artifacts will be inventoried using Microsoft Access. A tabular artifact inventory will be included as an appendix to the report. Analysis will include lithic/faunal/historic artifact analysis. All records, maps, photographs, and cultural materials will be cataloged and curated according to state and federal standards. After analysis is complete, the artifacts will be prepared for transfer to the appropriate repository.

Reporting

1. Consultant will prepare a cultural resources technical report that meets State Historic Preservation Office (SHPO) standards and guidelines and incorporates the results of the archaeological evaluation. Minimally, the report will include a SHPO coversheet, management summary, introduction and project description, cultural and environmental context, background research, methods, results of the field investigations, conclusions and recommendations, and an assessment of project effects on historic properties (to the extent possible). The report will include NRHP eligibility recommendations for the resource (eligible, not eligible, or, for resources with limited available data, unevaluated), recommendations for further work (if any), resource forms (as needed), and appropriate maps, figures, and photographs.
2. At the request of the client, Consultant can submit the final report to SHPO, appropriate Tribes, and/or other consulting parties as appropriate.

Subtask 352 – Hazardous Soils Testing (New)

1. Pre-field Activities will include the following:
    - Conduct a site reconnaissance of the proposed areas of investigation to evaluate drilling access
    - Contacting Oregon One-Call for subsurface exploration notification and subsurface utility marking.
    - Bidding, selection and coordination with subcontractors (drilling, private utility locating, traffic control, analytical laboratory, and waste disposal firm).
    - Working with the District to obtain a right-of-way encroachment permit from the Oregon Department of Transportation (ODOT), Clackamas County, and other permitting agencies, as necessary. From previous investigations, we assume we will need an ODOT permit for boring locations along Highway 212 and Clackamas County permits for Middle Clackamas Interceptor boring locations north of Highway 212.
    - Costs for development of traffic control plans and a health and safety plan.
    - Project management activities, including client communication, invoicing, internal project meetings, and staff coordination.
2. Soil Sampling and Analysis – Mt Scott Interceptor soil sampling will be conducted by a subcontracted drilling operator with oversight by Consultant personnel. Details are provided below:
    - One (1) boring will be advanced using a direct push drilling rig at the approximate location shown on Attachment 2, Figure 1. The boring will be advanced to 20 feet bgs. Based on the boring locations, it is anticipated that traffic control will not be required, and the work could occur during normal business hours.
    - Prior to boring advancement, the boring locations will be cleared for utilities using a private utility locator. The upper five feet will be cleared using a vacuum truck to further protect potential shallow utilities..
    - Continuous soil samples will be collected for lithologic logging and screening for contaminants using visual observations and a photoionization (PID) detector.
    -

- Recovered soil will be composited across the entire length of the boring to create a bulk soil sample representative of excavated soil between the ground surface to two feet below the planned pipeline depth. Terraphase will collect soil from the borehole in one-foot intervals during vacuum truck utility clearance. The soil will be mixed in a clean stainless-steel bowl using a clean stainless-steel spoon and placed into laboratory-supplied sample jars.
- The samples (one primary and one duplicate) will be labeled with the borehole number, range of sample depth, and time and date of collection. Soil samples will be placed in an ice-chest cooled with ice immediately after collection.
- The selected analytical laboratory will create one laboratory composite sample for the boring that will be analyzed for the following:
    - TPH in accordance with NWTPH-HCID
    - TPH quantification by NWTPH-Gx or NWTPH-Dx, depending on the results of the NWTPH-HCID analysis
    - RCRA 8 metals in accordance with USEPA 6020B
    - PAHs in accordance with EPA Method 8270E.
- If field evidence of contamination is observed, additional discrete samples may be collected. If PID readings indicate the potential presence of VOCs, discrete soil samples coincident with the highest PID readings will be collected in accordance with EPA Method 5035 and submitted for analysis of VOCs by EPA Method 8260D.
- An equipment blank will be collected and analyzed for the same constituents as the soil samples.
- Investigation derived waste will be temporarily stored at a location amenable to the District. After receipt of analytical results, the drums will be disposed of at an appropriate waste handling facility.
- After sample collection, soil borings will be backfilled with hydrated bentonite chips, and the surface will be completed to match the surrounding ground surface (i.e. gravel or topsoil).

3. Soil Sampling and Analysis – Middle Clackamas Interceptor soil sampling will be conducted by a subcontracted drilling operator with oversight by Consultant personnel. Based on the dense nature of shallow subsurface material, in order to achieve the target depths consistently, borings along the Middle Clackamas Interceptor will be advanced using a sonic drilling rig as detailed below:
    - Nine (9) borings will be advanced using a direct push drilling rig at the approximate locations shown on Attachment 2, Figures 2 and 3. Borings will be advanced to depths as described in Attachment 2, Table 1.
    - Based on previous investigations, we assume that borings advanced along Highway 212 will require traffic control and must be completed between 9 PM and 5 AM. Borings between Highway 212 and the northern end of the Middle Clackamas Interceptor will require traffic control but can be completed during normal business hours.
    - Prior to boring advancement, the boring locations will be cleared for utilities using a private utility locator. The upper five feet of each boring will be cleared using a vacuum truck to further protect potential shallow utilities.

- Continuous soil samples will be collected for lithologic logging and screening for contaminants using visual observations and a PID detector.
- Recovered soil will be composited across the entire length of the boring to create a bulk soil sample representative of excavated soil at each drilling location between the ground surface to two feet below the planned pipeline depth. Consultant will collect soil from the boreholes in one-foot intervals during vacuum truck utility clearance. The soil will be mixed in a clean stainless-steel bowl using a clean stainless-steel spoon and placed into laboratory-supplied sample jars.
- Each sample will be labeled with the borehole number, range of sample depths, and time and date of collection. Soil samples will be placed in an ice-chest cooled with ice immediately after collection.
- Composite soil samples (one per the 9 borings) will be submitted and analyzed for the following:
    - TPH in accordance with NWTPH-HCID
    - TPH quantification by NWTPH-Gx or NWTPH-Dx, depending on the results of the NWTPH-HCID analysis
    - RCRA 8 metals in accordance with USEPA 6020B
    - PAHs in accordance with EPA Method 8270E.
- If field evidence of contamination is observed, additional discrete samples may be collected. If PID readings indicate the potential presence of VOCs, discrete soil samples coincident with the highest PID readings will be collected in accordance with EPA Method 5035 and submitted for analysis of VOCs by EPA Method 8260D.
- Two (2) equipment blanks total will be collected and analyzed for the same constituents as the soil samples.
- Investigation derived waste will be temporarily stored at a location amenable to the District. After receipt of analytical results, the drums will be disposed of at an appropriate waste handling facility.
- After sample collection, soil borings will be backfilled with hydrated bentonite chips. The road surface will be capped per permit requirements. Previously, ODOT specified the following surface completion procedure:.
    - Backfill borings with bentonite to a depth of two feet below ground surface, add dry concrete within 8 inches of final grade. Cap the concrete with heated asphalt compacted in 2-inch lifts and sand seal around the pothole.

4. Data Evaluation and Reporting A report will be prepared after the completion of all work proposed herein that will include soil sample collection procedures, laboratory analytical results, and a discussion of the findings including comparison of the sample analytical results to appropriate regulatory screening and clean fill criteria. The report will be prepared under the supervision of an Oregon Professional Engineer or Geologist. A draft report will be provided for your review. Any comments regarding the draft report will be incorporated into the final electronically submitted report to be provided within 5 days after receipt of comments.

Task 350 Assumptions (New)

1. Both Middle Interceptor and Mt. Scott Interceptor Design Packages will have the same design and review schedules.
2. The work scoped under this task assumes that the proposed alignment from the 60 Percent Design does not materially change.
3. Assume ADA ramps adjacent to the project on ODOT right-of-way identified as failing on the FACS-STIP site will need to be updated; assumed 11 ramps.
4. Middle Interceptor and Mt. Scott Interceptor will be two complete and separate projects.
5. Budget is based on the Mt Scott and Middle Interceptor Projects Drawing List included as Attachment 2 to this amendment.
6. 100 Percent Design will be considered final design. Bid Ready set will include only responding to comments from the 100 Percent Design effort.
7. Assume up to a maximum of 10 bidder questions for each project.
8. Assume that there will be two published addenda for each project.
9. Consultant will provide the roadway, traffic control, stream/wetland impact restoration, erosion and sediment control, and specifications for those portions of deliverables for assembly into each complete milestone design package.
10. The ESCP and Site Restoration Planting tasks address temporary impacts from the Pipeline work. No permanent impacts requiring mitigation will occur.
11. Project base map and designs will be provided by the District and shall include elements necessary to prepare ESCP per DEQ 1200-CA requirements.
    a. Design sheets at 1 inch = 50 feet.
    b. Site Restoration Plans at 1 inch = 40 feet.
    c. Design Standards include ODOT Erosion Control Manual for the ESCP, and Clackamas WES Buffer Standards will be referenced for Site Restoration Planting and other design specifics as required.
    d. Traffic control plans will be based on Traffic Lane Restrictions as required by Clackamas County and/or ODOT, as applicable.
12. Consultant will complete the SHPO permit application and submit it within two weeks of notice to proceed (NTP).
13. WES will be responsible for gaining right of entry to the parcel.
14. SHPO issuance of the permit averages 30–45 days. Consultant will begin the field investigations within 30 days from the receipt of the SHPO permit.
15. Consultant will excavate up to 1.75 cubic meters of soil during archaeological site evaluation and up to 10 shovel probes as part of the site delineation.
16. Up to 50 artifacts, no more than 10 percent of which will require detailed research (i.e., temporally diagnostic lithic tools or diagnostic historic-period artifacts), will be recovered, analyzed, and curated. Should additional materials be identified, a contract modification may be required.
17. A draft report will be completed within 16 weeks of completion of the field investigations.
18. Consultant will submit the final technical report within four weeks of receiving comments on the draft.

19. Laboratory analysis and curation will begin upon completion of fieldwork. Curation will be completed within three months of submission of the final report, pending SHPO issuance of Smithsonian trinomials for any archaeological resources.
20. Assumptions for Hazardous Soil Sampling, Subtask 352:
    - Costs do not include a contingency amount for unanticipated out-of-scope activities by Consultant and it's subs.
    - Standard (10-day) turn around on laboratory analysis.
    - The District will assist in obtaining the necessary right-of-way permit and pay permit/bond fees.
    - Electronic versions of the Phase II ESA report will be provided.
    - The draft reports will need only minor revisions, requiring not more than approximately 2 hours to produce the final reports.
    - The District will provide a location to temporarily store investigation-derived waste proximal to the Project Area.
    - The Phase II ESA fieldwork will be conducted by staff from the Portland, Oregon office.
    - Traffic control will not be needed for Mount Scott Interceptor borings.
    - Night work will only be necessary on borings along Highway 212.
    - Costs for up to 4 additional laboratory analyses are included (i.e. costs for follow-up analyses based on contamination detected in 2 of the initial composite samples).
    - Costs for 5 total samples for VOC analyses are included.
    - Costs for laboratory data validation are not included.
    - The report will not be submitted to a regulatory authority, unless used as part of the 1200-C
    - construction stormwater permit.
    - Traffic control costs assume the daytime work would utilize 3 flagging crews for 2 days and nighttime work would utilize 2 flagging crews for 3 nights. This is based on the distribution of borings and expected traffic control plan coverage. When transitioning from one traffic control coverage to another, it will be necessary to have two independent flagging teams.

Task 350 Deliverables (New)

1. 90 and 100 Percent Drawings and Specifications for the Middle Interceptor and Mt. Scott Interceptor Projects. Bid Item List to be included with DIV 00.
2. Spreadsheet of District comments for each project on all 90 Percent, Consultant responses, and District concurrence to responses
3. Bid Ready Packages will include signed and sealed bid documents for Middle Interceptor and Mt Scott Interceptor Projects.
4. Record of comment responses per Task 900.
5. Agenda, presentation and meeting notes from pre-bid meeting for both projects.
6. Responses to 10 bidder questions for each project.
7. One combined conformed drawings and specifications for each project.
8. Draft and Final Cultural Resources Report:
    a. SHPO cover sheet in PDF format.
    b. Artifact log and SHPO permit application

c. GIS shapefiles for SHPO submission.

9. Draft and Final Hazardous Soil Sampling Report

TASK 400 - OPINION OF PROBABLE CONSTRUCTION COST (Amended)

Amend this Task to include an opinion of probable construction cost (OPCC) at 90 percent and 100 percent design efforts.

1. Prepare an OPCC based on 90 Percent Design documents for the Middle Interceptor and Mt. Scott Interceptor Projects.
7. Conduct internal Quality Assurance/Quality Control (QA/QC) of the 90 Percent OPCC plans per Task 900 for each project.
8. Submit the Draft 90 Percent OPCC for each project to the District for review.
9. Prepare 100 Percent OPCC and convert it to Bid Tab format for bidding support.

Task 400 Assumptions

1. The OPCC generated during 90 percent shall be a Class 2 estimate based on AACE standards.
2. The OPCC generated during 100 percent shall be a Class 1 estimate based on AACE standards.

Task 400 Deliverables

3. 90 and 100 Percent OPCC for Middle Interceptor and Mt. Scott Interceptor Projects.

Task 500 - TASK 500 - PROPERTY/EASEMENT ACQUISITION (Amended)

In support of the right of way acquisition effort, Consultant will prepare legal descriptions and exhibits for easements or acquisitions for (up to) ten (10) properties. Consultant will also provide one (1) set of wooden stakes marking the locations of (up to) ten (10) proposed easement/acquisition areas.

Task 500 Assumptions

1. The District is responsible for final preparation of easement deed documents and recording with Clackamas County and any associated fees.
2. The District will prepare and coordinate rights of entry for all properties.
3. Amended task will reduce the number of permanent easements from 21 to 10.
4. Amended task will reduce the number of title reports from 50 to 10.
5. Consultant will respond to two rounds of client comments and will issue a final legal description and exhibit map upon completion.
6. Any re-staking of easement areas or staking of revised easement area locations, after the initial round of stakes have been set, will be considered additional services.

Task 500 Deliverables

1. Amended task will reduce the number of offer packages from 21 to 10.

TASK 600 - PUBLIC OUTREACH ASSISTANCE (Amended)

Amend this task to extend the duration of Public Outreach Assistance and add the following tasks.

1. Consultant will update the Project Communications Plan.
2. Consultant will preform targeted business outreach along HWY 212. This will amend the original scope which included 'targeted community engagement'. Business outreach will include coordinating with Design and District Staff to coordinate driveway access to businesses along HWY 212.
10. Consultant will update the informational fact sheet at 90 percent and 100 percent design. Draft and final versions will be provided.
11. Consultant will provide updated content for the Project webpage to be hosted on the District's website. The webpage may be updated twice during this phase.
12. Consultant will prepare up to two project updates to be distributed by the District using appropriate channels/methods at key Project.

Task 600 Assumptions

1. Updated Project Communications Plan will be updated.
2. Updated Informational fact sheet will be provided as directed by the District.
3. Updated Webpage content will be provided as directed by the District.

Task 600 Deliverables

1. Update Project Communications Plan.
2. Two updated Informational fact sheets.
3. Two updated Webpage content.

TASK 700 - PERMITTING ASSISTANCE (Amended)

This task is being amended to submit permits required to complete the construction project improvements for the Mt. Scott and Middle Clackamas Interceptor Projects, unless otherwise noted.

1. Joint Permit Application (JPA) (draft through submittal to agencies): This task includes coordination with and outreach to the District and the appropriate agencies. This task item is specific to the Mt. Scott Interceptor. The Middle Interceptor will have no wetland or waterway impacts and therefore will not require preparation of a JPA. A draft JPA will be prepared and submitted to the District for review.. The District's comments will be incorporated into a final JPA and submitted to the U.S. Army Corps of Engineers (USACE), Oregon Department of Environmental Quality (DEQ), and the Oregon Department of State Lands (DSL). This task also includes follow-up coordination and response to agency questions and requests for additional information:
    a. Some wetland delineation work was part of the original contract's Task 200 (e.g., most field work, original draft report). Remaining work will be covered in this amendment under Task 700 and includes the following: up to 1 day of field work for two biologists plus time for right of entry coordination, finalizing wetland delineation report, submittal to DSL and responding to comments in order to obtain concurrence from DSL. The wetland delineation report will cover the entire

project study area, similar to that developed under original contract with allowance for adjustments that can be covered with one additional day of field work.

b. It is presumed that the project will be designed and constructed to meet Standard Local Operating Procedures for Endangered Species (SLOPES) programmatic Endangered Species Act (ESA) compliance and therefore a Biological Assessment will not be required to address ESA species regulated by the National Marine Fisheries Service (NMFS).

c. It is presumed that no ESA species regulated by the U.S. Fish and Wildlife Service (i.e., terrestrial and freshwater species) will be affected by the project. Should the western pond turtle, or any other species with the potential to be affected by the project, become listed prior to permit issuance, then consultation and preparation of a Biological Assessment will likely be required. This would require a contract amendment.

2. Stream Functional Assessments: This task is in support of the JPA for the Mt. Scott Interceptor. Two streams, Mt. Scott Creek and Dean Creek, may be impacted and therefore may require an assessment. The assessments will conform to the latest version of the Stream Function Assessment Method for Oregon at the time of investigation (EPA 910-D-18-001) or other suitable methods based on discussions with and consent from the USACE and DSL. This method includes review of watershed characteristics as well as an on-site survey of stream habitat values and functions. Results shall be summarized in a brief Stream Functional Assessment Memo that will be included as an attachment to the Project's Joint Permit Application:

   a. Up to four assessments will be conducted to cover pre- and post- project conditions (i.e., two assessments for Mt. Scott Creek and two for Dean Creek).
   b. The project impact footprint will be required to define the study limits prior to field work.
   c. One day of field work by two Biologists will be required.
   d. Field work needs to occur during lower water period, when streams can be safely waded.

3. Land Use Application: This task includes coordination with and outreach to the District and the appropriate agencies. This task is in support of the development and submittal of the final draft of the land use application. Some land use application and coordination work was conducted under the original contract. Following the June 10, 2025 Pre-application Conference with Clackamas County, land use application requirements were clarified. The remaining work will be covered in this amendment under Task 700 and includes the following: preparation of one draft Floodplain Permit for the Mt. Scott Interceptor segment; incorporation of consultant and client comments and a final draft for submittal. This amendment includes incorporating the District's comments into the final land use application and submitting to Clackamas County. This task also includes follow-up coordination and response to agency questions and requests for additional information.

   a. One Type II Land Use Application (Floodplain Permit) for the Mt. Scott Interceptor through Clackamas County. This application will include materials for the following review:

      i. Floodplain Development Permit (including NMFS coordination to ensure ESA compliance in floodplain management districts).

         (1) Per the County's notes following the Pre-Application Conference, final land use applications require that the project be at "final design stage for all of the following that

apply to the particular proposal: site plan, building elevations/materials, access location/width and frontage improvements."

(2) The City of Happy Valley indicated in the Pre-Application Conference that there would be "No permits needed for work inside the county or state right of way. The City will defer to the Clackamas County Transportation and Engineering requirements."

4. Pre-construction Permitting: This task includes coordination with and outreach to the District and the appropriate agencies. This task assumes, unless otherwise noted, that the Consultant will prepare applications, including forms and exhibits, as per permit instructions, and that the submittal of and payment for applications, as well as submittal and management of permit-related design changes will be managed by the District. The current permit list includes the following, but permit list below may be revised following further agency outreach:
   a. Oregon DEQ 1200-CA.
   b. ODOT:
      i. Utility Permit.
         (1) This permit application includes responses to up to 3 rounds of comments from ODOT.
      ii. State Highway Construction Permit.
         (1) This permit application includes responses to up to 3 rounds of comments from ODOT.
   c. UPRR:
      i. Encroachment Agreement at Mt. Scott Interceptor Segment.
         (1) This permit application includes responses to up to 2 rounds of comments from UPRR.
         (2) No grading will be required within the UPRR property.
         (3) Construction easement, acquired by the District, will be required to access UPRR property.
         (4) Flagger will be required; flagging coordination to be provided by Construction Contractor.
   d. Clackamas County:
      i. Two Utility/Development Permits (one for Mt. Scott and one for Middle Clackamas)
      ii. Right of Way Permits (prepared and submitted by Construction Contractor).
      iii. Grading Permits (prepared and submitted by Construction Contractor).
      iv. Building/Construction Permits (prepared and submitted by Construction Contractor).
      v. Noise variance permit, as required (prepared and submitted by Construction Contractor)
   e. City of Happy Valley Engineering Division:
      i. Per the Pre-Application Conference on June 10, 2025, "No permits needed for work inside the county or state right of way. The city will defer to the Clackamas County Transportation and Engineering requirements." Any proposed work on private property within City limits may require additional permitting, which is not included within this scope.
5. Permit Tracking and Reporting:
   a. Consultant to develop and maintain a permit tracking database that includes permit, issuing agency, requirements for application, status of agency communication/permit issuance, and relevant notes. Tracker to be updated and provided at construction coordination meetings after initial submittal.

Task 700 Assumptions

1. Construction for Middle and Mt. Scott Interceptors will span from 2026 – 2029.
2. Land use approvals expire four years from the date of approval; this scope of work does not include land use approval renewals or extensions. Construction is estimated to occur from 2026 through 2029, and that the Land Use approvals, once acquired, will expire four years from approval date.
3. Scope assumes that Cow Creek in the Middle Clackamas Interceptor will not be impacted and therefore will not require federal, state or local land use permitting.
4. A cultural resource report (not included in this Task) will be needed for the Joint Permit application. The cultural resource report will be provided by others.
5. Oregon Department of Fish and Wildlife fish passage is not included in this task with the assumption that Dean Creek and Mt. Scott Creek culvert connections will not be disturbed.
6. The following design information will be needed for Mt. Scott Interceptor JPA and land use applications:
    a. Updated design showing proposed creek impacts (permanent and/or temporary, including any staging areas):
        i. Plan view, profile, and cross-sections.
    b. Construction sequencing description/bullet list, including estimated work durations.
    c. Impact quantities (areas and volumes below Ordinary High Water).
    d. If permanent access road is proposed, then a stormwater management plan will be required to comply with SLOPES (not included in this task).
    e. Dewatering and work area isolation plans and descriptions.
7. Construction management plans, to be developed by the Construction Contractor, will be required as part of Clackamas County Utility/Development Permit applications for locations along both Mt. Scott and Middle Clackamas Interceptor segments that impact Habitat Conservation Areas (HCAs) and Water Quality Resource Areas (WQRAs).
8. Permit fees are not included.
9. Project will be covered by District's existing 1200-CA and that fees and portal management would be addressed by District.
10. District will secure all Rights of Entry, easements and site access when necessary.
11. Permits listed within this subtask assume stamped design drawings from the Final Design Task.
12. As advised by Clackamas County, Mt. Scott and Middle Clackamas Interceptor Projects will be permitted separately for both land use and utility/development permits.
13. Property owner outreach (approvals and signatures), easement acquisition, right-of-way, and Real Estate outreach will be conducted by the District.
14. Exhibits and pre-construction drawings required for permit application are to be prepared by Subconsultant(s).
15. Permit condition management is not included within this scope.

Task 700 Deliverables

1. Final JPA.
2. Draft and Final Stream Functional Assessment Report.
3. Final Permit Strategy
4. Draft and final land use application.
5. Pre-construction permit applications, as described above in 700.5 – Pre-Construction Permitting.
6. Permit tracking database.

TASK 800 - COORDINATION WITH OTHER AGENCIES AND UTILITIES (Amended)

Amend this Task duration through bid phase.

The purpose of this task is to coordinate with other agencies and utilities directly impacted by the proposed project improvements and to inform the roadway and railroad permitting described in Task 700. Task 800 includes the following:

1. Design Specific Meetings (Roadway/Traffic Control focus):
    a. Consultant attendance at up to four design coordination meetings with ODOT and other agencies, as appropriate.
2. UPRR:
    a. Up to four coordination meetings with UPRR. Conduct 60 percent, 90 percent and 100 percent design review meeting with Clackamas County Transportation Department staff. This meeting will be held prior to submitting the design documents for District review and will include a review of constructability, permitting, and infrastructure improvement requirements. A record of comments will be submitted with the 60 percent, 90 percent and 100 percent documents per Task 900
3. Permitting Meetings:
    a. One meeting each with USACE, Oregon Department of State Lands, Oregon Department of Environmental Quality, Oregon Department of Fish and Wildlife, and National Marine Fisheries Service.
    b. Up to four meetings with Clackamas County to discuss and coordinate on land use, site development, right-of-way utility and other permit conditions of approval.

Task 800 Assumptions:

1. ODOT coordination will be needed for Mt. Scott Creek Interceptor and the Middle Interceptor. No coordination regarding Lower or Upper Interceptor will occur beyond what was shared with ODOT at the 60 percent milestone.
2. Additional design changes may be needed to address comments based on Clackamas, ODOT, UPRR or other agency input.
3. Coordination with ODOT and UPRR should start as soon as possible to facilitate timely feedback and ability to meet overall project schedule.
4. All meetings are assumed to be virtual.
5. Up to two consulting team members will attend each meeting.

Task 800 Deliverables

1. Scheduling and coordination of meetings, agendas, and meeting minutes for the design coordination meetings.
2. Tracking of plan review comments and resolutions will be documented in a comment log.

TASK 900 - QUALITY MANAGEMENT (Amended)

Amend this Task duration through bid phase.

Task 900 Deliverables

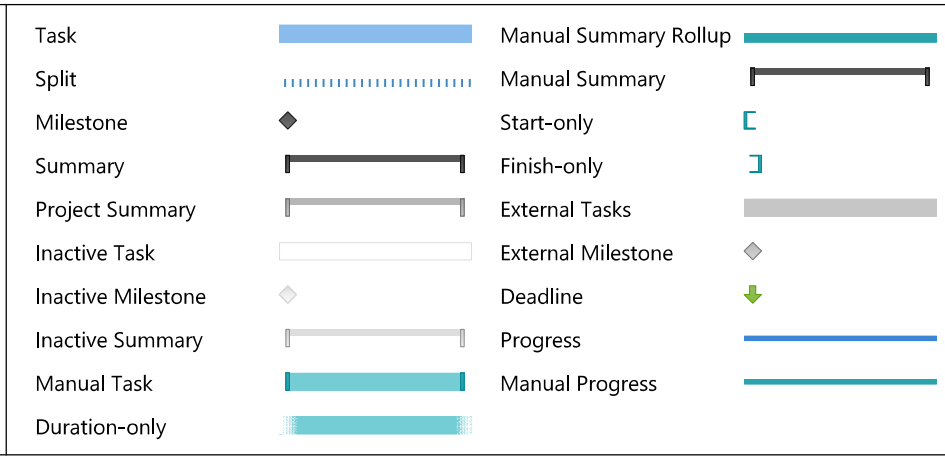
1. Perform internal QA/QC review of 90 percent and 100% design and OPCC for both projects.
2. Record of Comment documentation for major work products.

Attachment 1

Design Schedule

ID	Task Name	Duration	Start	Finish	Mar 1 S
1					
2	**Middle Interceptor & Mt Scott Interceptor 90%**	**130 days**	**Thu 4/17/25**	**Wed 10/15/25**	
3	Lateral Locating	2 mons	Thu 4/17/25	Wed 6/11/25	
4	Design	65 days	Thu 6/12/25	Wed 9/10/25	
5	Internal QA/QC	1 wk	Thu 9/11/25	Wed 9/17/25	
6	Incorporate QA/QC Review Comments	1 wk	Thu 9/18/25	Wed 9/24/25	
7	Submit 90% to WES	0 days	Wed 9/24/25	Wed 9/24/25	
8	WES Review of 90%	2 wks	Thu 9/25/25	Wed 10/8/25	
9	Respond to WES Comments	5 days	Thu 10/9/25	Wed 10/15/25	
10	90% Review Workshop	0 days	Wed 10/15/25	Wed 10/15/25	
11	**Middle Interceptor & Mt Scott Interceptor 100%**	**75 days**	**Thu 10/16/25**	**Wed 1/28/26**	
12	Design	40 days	Thu 10/16/25	Wed 12/10/25	
13	Internal QA/QC	1 wk	Thu 12/11/25	Wed 12/17/25	
14	Incorporate QA/QC Review Comments	1 wk	Thu 12/18/25	Wed 12/24/25	
15	Submit 100% to WES	0 days	Wed 12/24/25	Wed 12/24/25	
16	WES Review of 100%	3 wks	Thu 12/25/25	Wed 1/14/26	
17	Respond to WES Comments	5 days	Thu 1/15/26	Wed 1/21/26	
18	WES review and approve comment responses	5 days	Thu 1/22/26	Wed 1/28/26	
19	**Middle Interceptor - Bid Documents**	**15 days**	**Thu 1/29/26**	**Wed 2/18/26**	
20	Incorporate WES 100% Comments in Bid Documents	3 wks	Thu 1/29/26	Wed 2/18/26	
21	**Middle Interceptor Bid Period Services**	**0 days**	**Wed 2/18/26**	**Wed 2/18/26**	
22	Submit signed and sealed documents	0 days	Wed 2/18/26	Wed 2/18/26	
23	**Mt Scott Interceptor - Bid Documents**	**15 days**	**Thu 1/21/27**	**Wed 2/10/27**	
24	Incorporate WES 100% Comments in Bid Documents	3 wks	Thu 1/21/27	Wed 2/10/27	
25	**Mt Scott Interceptor Bid Period Services**	**0 days**	**Wed 2/10/27**	**Wed 2/10/27**	
26	Submit signed and sealed documents	0 days	Wed 2/10/27	Wed 2/10/27	

Project: Middle and Mt Scott In
Date: Tue 6/10/25



Attachment 2

Drawing and Specifications List

Clackamas Area Interceptor Improvements Project - Middle Interceptor
Preliminary Drawing List

Title
General
Cover Sheet
Drawing Index and General Notes
Key Plan and Survey Control Points - Middle Interceptor
Abbreviations, Legend, and Symbols
Erosion Control
Erosion Control Plan Details - 1
Erosion Control Plan Details - 2
Erosion Control Plan - Middle - STA MD 13+98 TO STA MD 39+00
Erosion Control Plan - Middle - STA MD 39+00 TO STA MD 62+00
Erosion Control Plan - Middle - STA MD 62+00 TO STA MD 86+00
Erosion Control Plan - Middle - STA MD 86+00 TO STA MD 110+00
Erosion Control Plan - Middle - STA MD 110+00 TO STA MD 134+00
Erosion Control Plan - Middle - STA MD 134+00 TO STA MD 140+00
Plan and Profile
Middle Clackamas Interceptor
Plan and Profile - Middle - STA MD 13+98 TO STA MD 26+00
Plan and Profile - Middle - STA MD 26+00 TO STA MD 39+00
Plan and Profile - Middle - STA MD 39+00 TO STA MD 50+00
Plan and Profile - Middle - STA MD 50+00 TO STA MD 62+00
Plan and Profile - Middle - STA MD 62+00 TO STA MD 74+00
Plan and Profile - Middle - STA MD 74+00 TO STA MD 86+00
Plan and Profile - Middle - STA MD 86+00 TO STA MD 98+00
Plan and Profile - Middle - STA MD 98+00 TO STA MD 110+00
Plan and Profile - Middle - STA MD 110+00 TO STA MD 122+00
Plan and Profile - Middle - STA MD 122+00 TO STA MD 134+00
Plan and Profile - Middle - STA MD 134+00 TO STA MD 140+00
Sliplining
Sliplining Plan - Middle Interceptor
Sliplining Plan - Middle Interceptor
Sliplining Plan - Middle Interceptor
Bypass
Schematic Bypass Plan - 1
Abandonment
Abandonment Plan - 1
Abandonment Plan - 2
Abandonment Plan - 3
Civil - Traffic Control
Traffic Control Plan - Middle - STA MD 13+98 TO STA MD 39+00
Traffic Control Plan - Middle - STA MD 39+00 TO STA MD 62+00
Traffic Control Plan - Middle - STA MD 62+00 TO STA MD 86+00
Traffic Control Plan - Middle - STA MD 86+00 TO STA MD 110+00
Traffic Control Plan - Middle - STA MD 110+00 TO STA MD 134+00
Traffic Control Plan - Middle - STA MD 134+00 TO STA MD 140+00

Civil - Paving Restoration
Paving Restoration Plan - Middle - STA MD 13+98 TO STA MD 39+00
Paving Restoration Plan - Middle - STA MD 39+00 TO STA MD 62+00
Paving Restoration Plan - Middle - STA MD 62+00 TO STA MD 86+00
Paving Restoration Plan - Middle - STA MD 86+00 TO STA MD 110+00
Paving Restoration Plan - Middle - STA MD 110+00 TO STA MD 134+00
Paving Restoration Plan - Middle - STA MD 134+00 TO STA MD 140+00
Landscape - Restoration
Restoration Plan - Legend and Details
Restoration Plan - Planting List
Typical Details
Typical Civil Details - 1
Typical Civil Details - 2
Typical Civil Details - 3
Typical Civil Details - 4
Typical Civil Details - 5
Typical Details (Pavement Restoration)

Clackamas Area Interceptor Improvements Project - Middle Interceptor

Preliminary Spec List

DIVISION 01 - GENERAL REQUIREMENTS

SECTION NO.	TITLE
01_11_00	SUMMARY OF WORK
01_11_02	CONTRACT DOCUMENT LANGUAGE
01_14_00	WORK RESTRICTIONS
01_15_00	MITIGATION AND MONITORING REQUIREMENTS
01_20_20	MEASUREMENT AND PAYMENT
01_21_00	ALLOWANCES
01_24_13	VALUE ENGINEERING
01_26_00	CONTRACT MODIFICATION PROCEDURES
01_29_73	SCHEDULE OF VALUES
01_29_77	APPLICATIONS FOR PAYMENT
01_31_19	PROJECT MEETINGS
01_31_24	WEB BASED CONSTRUCTION DOCUMENT MANAGEMENT
01_32_21	SCHEDULES AND REPORTS
01_32_34	PHOTOGRAPHIC AND VIDEOGRAPHIC DOCUMENTATION
01_33_00	SUBMITTAL PROCEDURES
01_35_21	SELECTIVE ALTERATIONS AND DEMOLITION
01_35_44	HAZARDOUS MATERIAL PROCEDURES
01_35_61	WORK WITHIN PUBLIC RIGHT-OF-WAY
01_41_00	REGULATORY REQUIREMENTS
01_45_00	QUALITY CONTROL
01_45_24	REGULATORY QUALITY ASSURANCE
01_50_00	TEMPORARY FACILITIES AND CONTROLS
01_55_26	TRAFFIC CONTROL
01_56_17	EROSION AND SEDIMENT CONTROL
01_56_39	TEMPORARY TREE AND PLANT PROTECTION
01_57_00	ENVIRONMENTAL CONTROLS
01_57_19	TEMPORARY WATER MANAGEMENT
01_60_01	PRODUCT REQUIREMENTS
01_71_23	FIELD ENGINEERING
01_75_19	WATER LEAKAGE TEST FOR CONCRETE STRUCTURES
01_77_00	CLOSEOUT PROCEDURES
01_78_36	WARRANTIES AND BONDS

DIVISION 03 - CONCRETE

SECTION NO.	TITLE
03_11_07	CONCRETE FORMWORK
03_15_00	CONCRETE ACCESSORIES
03_15_14	HYDROPHILIC RUBBER WATERSTOP
03_15_15	THERMOPLASTIC ELASTOMERIC RUBBER WATERSTOPS
03_20_00	CONCRETE REINFORCING
03_30_00	CAST-IN-PLACE CONCRETE
03_30_01	CONCRETE WORK
03_60_00	GROUTING
03_63_01	EPOXIES
03_63_02	EPOXY RESIN/PORTLAND CEMENT BONDING AGENT
03_64_25	HYDROPHILIC AND HYDROPHOBIC FOAM POLYURETHANE RESIN INJECTION SYSTEM

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION NO.	TITLE
07_92_00	JOINT SEALANTS

DIVISION 09 - FINISHES

SECTION NO.	TITLE
09_96_01	HIGH-PERFORMANCE COATINGS
09_97_18	MANHOLE AND STRUCTURE REHABILITATION AND CORROSION PROTECTIVE COATING SYSTEM

DIVISION 10 - SPECIALTIES

SECTION NO.	TITLE
10_14_00	SIGNAGE

DIVISION 31 - EARTHWORK

SECTION NO.	TITLE
31_00_00	EARTHWORK
31_05_15	SOILS AND AGGREGATES FOR EARTHWORK
31_09_13	GEOTECHNICAL INSTRUMENT AND MONITORING
31_10_00	SITE CLEARING
31_23_22	DEWATERING
31_23_24	CONTROLLED LOW STRENGTH MATERIAL (CLSM)
31_23_35	TRENCHING
31_32_18.02	FILTER FABRIC
31_32_18.04	STABILIZATION FABRIC
31_50_00.01	TRENCHLESS SHAFT EXCAVATION SUPPORT AND PROTECTION
31_50_00	EXCAVATION SUPPORT AND PROTECTION

DIVISION 32 - EXTERIOR IMPROVEMENTS

SECTION NO.	TITLE
32_12_15	ASPHALTIC CONCRETE PAVING
32_16_14	CONCRETE CURBS, GUTTERS, AND SIDEWALKS
32_17_23	PAVEMENT MARKINGS
32_92_19	SEEDING

DIVISION 33 - UTILITIES

SECTION NO.	TITLE
33_01_30.12	CCTV INSPECTION OF SEWER PIPELINES
33_01_30.78	SLIPLINING WITH SEGMENTED LINER PIPE
33_01_35	SEWER PIPE AND STRUCTURE CLEANING
33_05_00.01	COMMON WORK RESULTS FOR GENERAL PIPING
33_05_00.03	PIPE IDENTIFICATION
33_05_00.09	PIPING SYSTEMS TESTING
33_05_01	SUBSURFACE UTILITY ENGINEERING
33_05_11	TEMPORARY BYPASS PUMPING
33_05_35.67	FIBERGLASS REINFORCED POLYMER MORTAR PIPE (FRPMP) FOR OPEN-CUT AND DIRECT JACKING/MICROTUNNELING
33_05_61.01	CONCRETE MANHOLES

Clackamas Area Interceptor Improvements Project - Mt Scott Interceptor

Title
General
Cover Sheet
Drawing Index and General Notes
Key Plan and Survey Control Points - Mt Scott
Abbreviations, Legend, and Symbols
Erosion Control
Erosion Control Plan Details - 1
Erosion Control Plan Details - 2
Erosion Control Plan - Mt Scott - STA MS 10+00 TO STA MS 21+62
Plan and Profile
Mount Scott Interceptor
Plan and Profile - Mt Scott - STA MS 10+00 TO STA MS 19+00
Plan and Profile - Mt Scott - STA MS 19+00 TO STA MS 21+62
Bypass
Schematic Bypass Plan - Mt Scott Interceptor
Civil - Traffic Control
Site Access Plan
Civil - Paving Restoration
Paving Restoration - Mt Scott - STA MS 10+00 TO STA MS 23+00
Landscape - Restoration
Restoration Plan - Legend and Details
Restoration Plan - Planting List
Typical Details
Typical Civil Details - 1
Typical Civil Details - 2
Typical Civil Details - 3
Typical Civil Details - 4
Typical Civil Details - 5
Typical Details (Pavement Restoration)

Clackamas Area Interceptor Improvements Project - Mt Scott Interceptor

Preliminary Spec List

DIVISION 01 - GENERAL REQUIREMENTS

SECTION NO.	TITLE
01_11_00	SUMMARY OF WORK
01_11_02	CONTRACT DOCUMENT LANGUAGE
01_14_00	WORK RESTRICTIONS
01_15_00	MITIGATION AND MONITORING REQUIREMENTS
01_20_20	MEASUREMENT AND PAYMENT
01_21_00	ALLOWANCES
01_24_13	VALUE ENGINEERING
01_26_00	CONTRACT MODIFICATION PROCEDURES
01_29_73	SCHEDULE OF VALUES
01_29_77	APPLICATIONS FOR PAYMENT
01_31_19	PROJECT MEETINGS
01_31_24	WEB BASED CONSTRUCTION DOCUMENT MANAGEMENT
01_32_21	SCHEDULES AND REPORTS
01_32_34	PHOTOGRAPHIC AND VIDEOGRAPHIC DOCUMENTATION
01_33_00	SUBMITTAL PROCEDURES
01_35_21	SELECTIVE ALTERATIONS AND DEMOLITION
01_35_61	WORK WITHIN PUBLIC RIGHT-OF-WAY
01_41_00	REGULATORY REQUIREMENTS
01_45_00	QUALITY CONTROL
01_45_24	REGULATORY QUALITY ASSURANCE
01_50_00	TEMPORARY FACILITIES AND CONTROLS
01_56_17	EROSION AND SEDIMENT CONTROL
01_56_39	TEMPORARY TREE AND PLANT PROTECTION
01_60_01	PRODUCT REQUIREMENTS
01_71_23	FIELD ENGINEERING
01_75_19	WATER LEAKAGE TEST FOR CONCRETE STRUCTURES
01_77_00	CLOSEOUT PROCEDURES
01_78_36	WARRANTIES AND BONDS

DIVISION 03 - CONCRETE

SECTION NO.	TITLE
03_11_07	CONCRETE FORMWORK
03_15_00	CONCRETE ACCESSORIES
03_15_14	HYDROPHILIC RUBBER WATERSTOP
03_15_15	THERMOPLASTIC ELASTOMERIC RUBBER WATERSTOPS
03_20_00	CONCRETE REINFORCING
03_30_00	CAST-IN-PLACE CONCRETE
03_30_01	CONCRETE WORK
03_60_00	GROUTING
03_63_01	EPOXIES
03_63_02	EPOXY RESIN/ PORTLAND CEMENT BONDING AGENT
03_64_25	HYDROPHILIC AND HYDROPHOBIC FOAM POLYURETHANE RESIN INJECTION SYSTEM

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

07_92_00	JOINT SEALANTS

DIVISION 09 - FINISHES

SECTION NO.	TITLE
09_96_01	HIGH-PERFORMANCE COATINGS
09_97_18	MANHOLE AND STRUCTURE REHABILITATION AND CORROSION PROTECTIVE COATING SYSTEM

DIVISION 10 - SPECIALTIES

SECTION NO.	TITLE
10_14_00	SIGNAGE

DIVISION 31 - EARTHWORK

SECTION NO.	TITLE
31_00_00	EARTHWORK
31_05_15	SOILS AND AGGREGATES FOR EARTHWORK
31_09_13	GEOTECHNICAL INSTRUMENT AND MONITORING
31_10_00	SITE CLEARING
31_23_22	DEWATERING
31_23_24	CONTROLLED LOW STRENGTH MATERIAL (CLSM)
31_23_35	TRENCHING
31_32_18.02	FILTER FABRIC
31_32_18.04	STABILIZATION FABRIC
31_50_00	EXCAVATION SUPPORT AND PROTECTION

DIVISION 32 - EXTERIOR IMPROVEMENTS

SECTION NO.	TITLE
32_92_19	SEEDING

DIVISION 33 - UTILITIES

SECTION NO.	TITLE
33_01_30.12	CCTV INSPECTION OF SEWER PIPELINES
33_05_00.01	COMMON WORK RESULTS FOR GENERAL PIPING
33_05_00.03	PIPE IDENTIFICATION
33_05_00.09	PIPING SYSTEMS TESTING
33_05_01	SUBSURFACE UTILITY ENGINEERING
33_05_11	TEMPORARY BYPASS PUMPING
33_05_35.67	FIBERGLASS REINFORCED POLYMER MORTAR PIPE (FRPMP) FOR OPEN-CUT AND DIRECT JACKING/MICROTUNNELING
33_05_61.01	CONCRETE MANHOLES

Attachment 3

Hazardous Soils Table and Figures

Table 1
Proposed Boring Details
Mount Scott and Middle Clackamas Interceptors Soil Characterization
Clackamas, Oregon

Boring	Depth (feet)	Traffic Control?	Permit?	Note
MSI-01	20	No	Access Agreement	Downgradient of Precision Castparts Building 1.
MCI-01	20	Yes - Northbound Minuteman Way	Clackamas County	Closest boring to NW Pipe and Casing. Will offset from existing sewer.
MCI-02	18	No	Possible Access Agreement	Will offset from existing sewer.
MCI-03	15	Yes - Northbound 102nd Avenue	Clackamas County	Close to LUST case at bus parking area.
MCI-04	16	Yes - Eastbound Right Lane Highway 212	ODOT	
MCI-05	18	Yes - Eastbound Right Lane Highway 212	ODOT	
MCI-06	20	Yes - Eastbound Right Lane Highway 212	ODOT	
MCI-07	24	Yes - Eastbound Right Lane Highway 212	ODOT	
MCI-08	24	Yes - Eastbound Right Lane Highway 212	ODOT	Moved west to avoid 130th Ave intersection.
MCI-09	25	Yes - Eastbound Right Lane Highway 212	ODOT	Close to Space Age gas station.

Depth is from 60% design drawings, assuming 2 feet below pipeline.

Clackamas County Water Environment Services
Mt Scott and Middle Interceptor Final Design
Level of Effort Estimate Summary
August 2025

WORK TASKS	Carollo Hours	Subtotal Carollo Cost	Subconsultant Cost								Total Cost	Remaining Budget as of June 2025	Amendment Amount
			JNM Services	Terraphase	DEA	Delve	Historical Research Associates	Common Street	Consor	Sub Mark Up 5%			
TASK 100 - PROJECT MANAGEMENT													
Task 100 Subtotal	370	$94,158	$0		$99,016	$15,872	$3,459	$0	$0	$5,917.34	$218,422.27	$22,392.67	$196,029.60
Task 200 - Preminary Design													
Task 200 Subtotal	0	$0	$0	$0	$0	$0	$0	$0	$0	$0.00	$0.00	$577,114.97	-$577,114.97
TASK 300 - 60% Design													
Task 300 Subtotal	0	$0	$0	$0	$0	$0	$0	$0	$0	$0.00	$0.00	$83,435.87	-$83,435.87
TASK 350 - Final Design													
Task 300 Subtotal	1,535	252,767	$50,208	$117,202	$348,629	$33,130	$72,233	$0	$0	$31,070.08	$905,238.49	$0.00	$905,238.49
TASK 400 - OPINION OF PROBABLE CONSTRUCTION COST (OPCC)													
Task 400 Subtotal	82	$14,709	$0		$17,991	$0	$0	$0	$0	$899.56	$33,600.11	$25,740.75	$7,859.36
TASK 500 - PROPERTY/EASEMENT ACQUISITION													
Task 500 Subtotal	60	$12,970	$0		$37,448	$0	$0	$20,116	$0	$2,878.18	$73,411.83	$47,799.68	$25,612.15
TASK 600 - PUBLIC OUTREACH ASSISTANCE													
Task 600 Subtotal	70	$16,987	$0		$0	$0	$0	$0	$60,804	$3,040.20	$80,831.26	$135,041.31	-$54,210.06
TASK 700 - PERMITTING ASSISTANCE													
Task 700 Subtotal	236	$42,724	$0		$137,304	$0	$0	$0	$0	$6,865.21	$186,893.09	$106,943.21	$79,949.88
TASK 800 - COORDINATION WITH OTHER AGENCIES AND UTILITIES													
Task 800 Subtotal	120	$26,863	$0		$30,723	$0	$0	$0	$0	$1,536.15	$59,122.47	$56,956.67	$2,165.80
TASK 900 - QUALITY MANAGEMENT													
Task 900 Subtotal	90	$23,130	$0		$67,164	$0	$0	$0	$0	$3,358.18	$93,652.21	$68,789.16	$24,863.05
TOTAL CONTRACT AMOUNT	**2563**	**$484,309**	**$50,208**	**$117,202**	**$738,274**	**$49,002**	**$75,692**	**$20,116**	**$60,804**	**$55,564.90**	**$1,651,171.72**	**$1,124,214**	**$526,957**
Total Amendment for Mt. Scott and Middle Interceptors													**$526,957.43**

Mt Scott and Middle Budget
$218,422.27
$0.00
$0.00
$905,238.49
$33,600.11
$73,411.83
$80,831.26
$186,893.09
$59,122.47
$93,652.21
$1,651,172