CLACKAMAS
WATER ENVIRONMENT SERVICES

GREGORY L. GEIST | DIRECTOR

Water Quality Protection
Surface Water Management
Wastewater Collection & Treatment

August 13, 2026 BCC Agenda Item: _____

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

Approval of a Contract Amendment with Otak for additional engineering services to the Upper Kellogg Capital Improvements Project. Amendment Value is $139,213 and no time increase. Total Contract Value is $1,014,537.78 for 4 years. Funding is through WES Surface Water Construction Funds. No County General Funds are involved.

Previous Board Action/Review: Approval of Contract #8215 – September 14, 2023. Approval of Amendment #1 – March 14, 2024.
Performance Clackamas: 1. This project supports WES' strategic plan to upgrade WES' infrastructure to ensure the sustainable delivery of reliable, high-quality, and climate-resilient clean water services that support the growth and vitality of our communities, natural environment, and economy.
2. This project supports the County's Strategic Priorities of Strong Infrastructure, Vibrant Economy, and Safe, Secure and Livable Communities.
Counsel Review: Yes **Procurement Review:** Yes
Contact Person: Jeff Stallard **Contact Phone:** 503-742-4694

EXECUTIVE SUMMARY: Otak Inc. is under contract for engineering services for the design of the Upper Kellogg Capital Improvements Project. The purpose of this amendment is to add scope and budget to continue the alternatives analysis and preliminary design of the Wildlife Estates Project, which is part of the Upper Kellogg Capital Improvements Plan. It is anticipated that there will be another amendment for this contract to cover the final design and engineering services during construction.

The SE Wildlife Estates Drive Ditch Inlet and Upstream Detention project area is located near SE Wildlife Estates Drive, just west of the intersection of SE Stohler Road and SE Clackamas Road. A ditch inlet is located at the base of a steep slope where a small tributary stream discharges runoff and sediment to the roadway drainage system. The tributary conveys significant volumes of rocks and sediment on the order of several dump-truck-sized loads annually, which are deposited at the inlet. The accumulated sediment and rock periodically clog the inlet grate, resulting in roadway flooding along SE Stohler and SE Clackamas Roads. This project will develop and evaluate conceptual stormwater improvement alternatives and associated cost estimates to address sedimentation, flooding, and channel instability within the project area.

The project was identified in WES's 2022 Storm System Master Plan and is listed in WES's adopted FY 2026/27 – 2030/31 Capital Improvement Plan.

RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve Amendment #4 for Contract #8215 with Otak, Inc. for an area of improvement as outlined in the Upper Kellogg Capital Improvements Project.

Respectfully submitted,

Ronald E Wierenga

Ron Wierenga
Assistant Director, WES

Attachment: Amendment #4 for Contract #8215, Otak, Inc.

For Filing Use Only

AMENDMENT #4
TO THE CONTRACT DOCUMENTS WITH OTAK, INC.
FOR DESIGN AND CONSTRUCTION MANAGEMENT OF
THE UPPER KELLOGG CAPITAL IMPROVEMENTS
Contract #8215

This Amendment #4 is entered into between **Otak, Inc.** ("Contractor") and Water Environment Services ("District") and shall become part of the Contract documents entered into between both parties on **September 14, 2023** ("Contract").

The Purpose of this Amendment #4 is to make the following changes to the Contract:

1. ARTICLE I, Section 2. **Scope of Work** is hereby amended as follows:

District has requested an increase in Scope of Work for Contractor to proceed with Work related to the Wildlife Estates that was originally contemplated in the Contract. The additional Scope of Work for Wildlife Estates is further described in Exhibit A to this Amendment #4, hereby attached and incorporated by reference.

2. ARTICLE I, Section 3. **Consideration** is hereby amended as follows:

In consideration for the Contractor performing Work related to the Wildlife Estates, the District hereby authorizes additional compensation in an amount not to exceed $139,213.00. The total Contract compensation shall not exceed $1,014,537.78.

ORIGINAL CONTRACT	$ **287,481.58**
AMENDMENT #1	$ 587,843.20
AMENDMENT #2	Revised Scope of Work
AMENDMENT #3	Time Extension
AMENDMENT #4	**$ 139,213.00**
TOTAL AMENDED CONTRACT	**$ 1,014,537.78**

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 #4, effective upon the date of the last signature below.

Otak, Inc.

Craig Recob
Authorized Signature Date

Craig Recob / C.F.O.
Printed Name

Water Environment Services

Chair Date

Recording Secretary

Approved for Legal Sufficiency

7/9/2026
County Counsel Date

Exhibit A
Scope of Work for Wildlife Estates Project

Clackamas County Water Environment Services

Upper Kellogg Capital Improvement Project – Amendment No. 4

Wildlife Estates (WES CIP 1005)

Otak Project No. 21050.100

April 3, 2026

Background and Understanding

The SE Wildlife Estates Drive Ditch Inlet and Upstream Detention project area (CIP 1005) is located near SE Wildlife Estates Drive, just west of the intersection of SE Stohler Road and SE Clackamas Road. The project is part of the Upper Kellogg Capital Improvements Project, and this amendment is a continuation of the work Otak started previously. A ditch inlet is located at the base of a steep slope where a small tributary stream discharges runoff and sediment to the roadway drainage system. The tributary conveys significant volumes of rocks and sediment, on the order of several dump-truck-sized loads annually, which are deposited at the inlet.

The accumulated sediment and rock periodically clog the inlet grate, resulting in roadway flooding and localized impacts to several nearby homes. Flooding has been reported to occur at least once per year along SE Stohler Road and SE Clackamas Road as a result of the inlet becoming clogged.

The primary source of sediment is a small creek, Tributary C of Kellogg Creek, located upstream of the inlet. Several portions of the tributary's banks are unstable and actively eroding, with bank failures contributing sediment directly to the stream channel. Streamflow within the tributary is significantly influenced by runoff from a residential neighborhood located southwest of SE Norma Road on the ridge above the problem area. Increased and concentrated runoff from this developed area is contributing to channel instability, erosion, and sediment transport to downstream infrastructure. Additional new development is proposed aon the adjacent hillslope and will contribute additional stormwater volume to this problem area.

Clackamas County Water Environment Services (WES) seeks to develop and evaluate conceptual stormwater improvement alternatives and associated cost estimates to address sedimentation, flooding, and channel instability within the project area. Otak will build upon the existing XP-SWMM model previously developed to assess the benefits and potential impacts of the alternatives. This scope of work includes the following tasks: project management, data review and surveying, alternatives analysis, and hydraulic modeling.

The duration of this scope of work is assumed to be five months (5) months, from May 4, 2026, to November 6, 2026.

Scope of Work

Task 11 Management and Coordination for Wildlife Estates

The purpose of this task is to monitor project progress with respect to scope, schedule, and budget; to maintain regular communication with WES and the design team; and to manage the quality control process. To perform this task, the Consultant shall:

- Setup project systems for tracking and reporting
- Prepare project schedule with one update
- Hold kick-off meeting with design team and WES
- Track progress with respect to scope, schedule, and budget and prepare six (6) monthly invoice Progress Reports to send with invoice
- Conduct ten (10) regular 30-minute coordination meetings with the WES Project Manager, approximately every-other week when other active task orders are also being discussed.
- Quality Assurance / Quality Control
  - Otak will provide internal quality review and revisions for each project deliverable
- Prepare Work Plan for next phase of design

TASK 1 DELIVERABLES

1. Project Schedule (.PDF file)
2. Progress Reports (.PDF file)
3. Work Plan (.PDF file and .docx file)

Task 12 Data Review and Survey for Wildlife Estates

Task 12.1 – Background Data Review

The purpose of this task is to review the as-built data previously provided by WES, development proposals in the study area provided by WES, and the existing XP-SWMM model, get familiar with the project site, and collect drone imaging. To perform this task, the Consultant shall:

- Review existing data, mapping, reports, models, and regulatory information anticipated to include:
  - Existing Storm As-Builts and Stormwater Plans
  - Proposed development plans
  - Storm System Master Plan (2022)
  - XP-SWMM Model
- Conduct a 2-hour site visit for staff to observe the site, existing issues, and challenges with topography.

Task 12.2 – Surveying and Mapping

The purpose of this task is to provide topographic surveying and mapping to fill in missing data needed to complete the alternatives analysis. To perform this task, the Consultant shall:

- Perform survey research.
- Establish survey control. Control shall be on OCRS Portland Zone and NAVD 88.
- Collect topographic data and provide mapping of constructed and natural features (up to five, 8 hour days of field work for a two-person survey crew) to collect information identified in the background data review.

- Prepare a topographic survey basemap drawing in AutoCAD utilizing Otak mapping standards.
- Conduct an unmanned aerial vehicle (UAV) flight over the study area to photograph conditions along the alternative alignments and capture photos and video.

TASK 2 DELIVERABLES

1. Survey basemap (AutoCAD 2026 .dwg)
2. UAV images and video

Task 13 Alternatives Analysis for Wildlife Estates

The purpose of this task is to develop alternative conceptual level designs and cost estimates. The development of alternatives will rely on as-builts, LiDAR, GIS data, existing XP-SWMM model, and survey data (Task 12) if collected. To perform this task, the Consultant shall:

- Create basemaps in CAD using GIS data.
- Develop eight (8) conceptual alternatives for improving storm system performance and one (1), Alternative 0, continued maintenance. The expected alternatives include the following (see Figure 1 for locations):

ALT	DESCRIPTION
0	Calculate the current annual maintenance costs over the next 50 years.
1	Purchase & Demo Existing House downstream but adjacent to the problem. Then construct a sedimentation basin and adjust storm to Wildlife Estates Drive or to Stohler.
2	Intercept flow in the tributary C drainage, convey it over to the 4.75 acre parcel at 1530 SE Stohler Rd to reduce volume reaching Wildlife Estates, and add detention storage on new parcel.
3A& 3B	Re-route Storm on Norma to Roethe Rd and then along two different alignments. Maybe one follows the sanitary sewer and the other follows the road alignment proposed by Majestic subdivision application.
4	Tightline the water from Norma down through the existing Tributary C drainage channel and connect to the overflow at Wildlife Estates. Then backfill/restore eroded channel in ravine.
5	Consider possible options on the property at 6320 SE Roethe Rd. Propose options that could be constructed by the planned development that would make it easier for the County to gain access to the corridor for maintenance.
6	Re-route storm sewer from Norma along the sanitary sewer alignment, down Brownlee Rd. to the large beaver pond WES just purchased for the Upper Kellogg Capital improvements project.
7	Intercept drainage from Tributary C and convey across 6831 SE Brownlee Rd and connect to Stohler Road

- Prepare conceptual plan and profile sheet layout of the design for each alternative.
- Prepare conceptual construction cost estimate for each alternative.
- Prepare bullet list of unique site challenges associated with each of the alternatives.
- Prepare an Alternatives Analysis memorandum.
- Meet with WES PM and Operations and Engineering staff for 2 hours to review alternatives and select up to three (3) alternatives for additional hydraulic modeling.

TASK 13 DELIVERABLES

1. Alternatives Analysis summary memo (.PDF)
2. Cost Estimate for Current Annal Maintenance (Alt 0)
3. (8) Conceptual Design Plan and Profile drawings (11”x17” .PDF)
4. (8) Conceptual Design Cost Estimates (.XLS & .PDF)

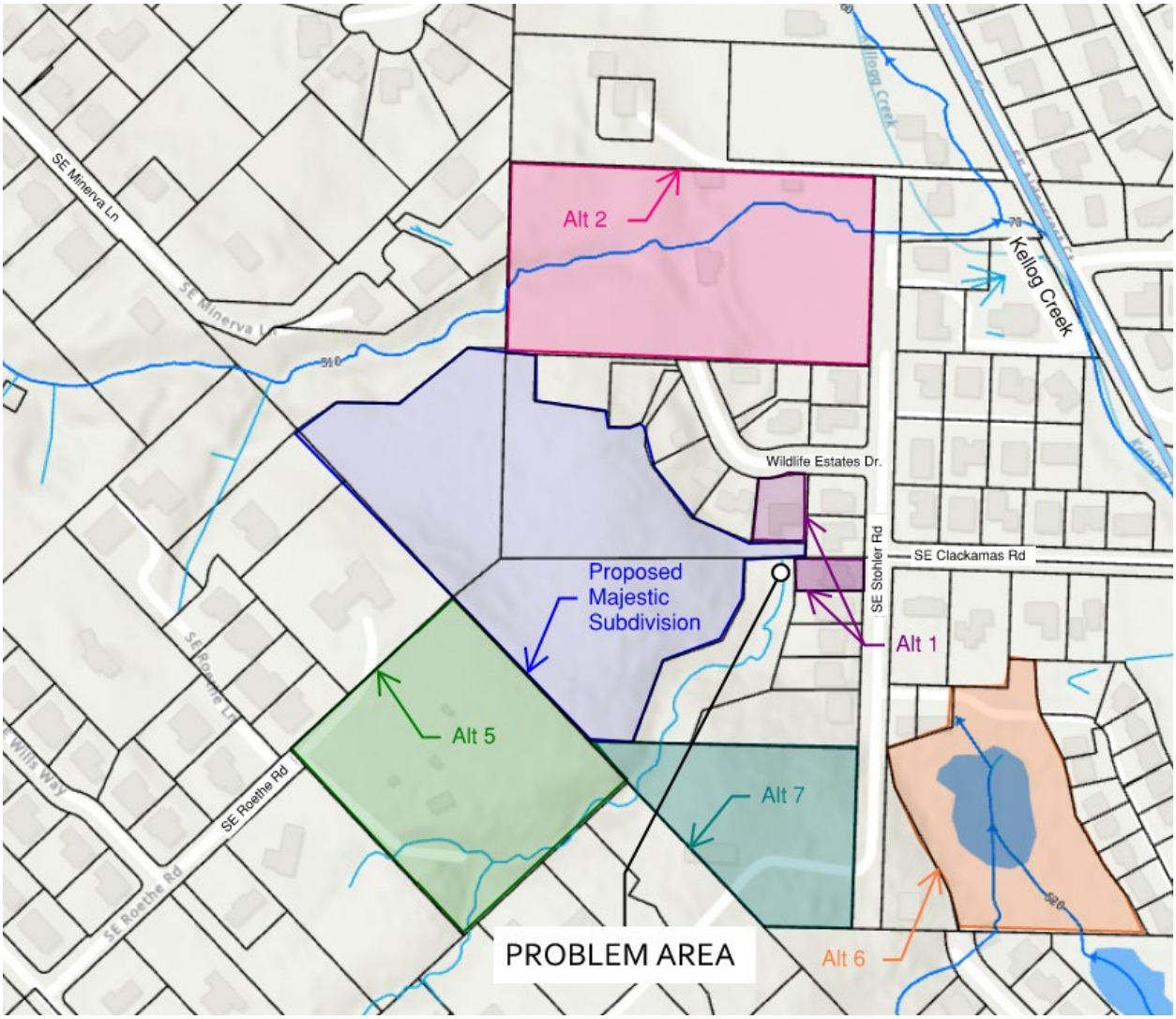

FIGURE 1 – LOCATION OF ALTERNATIVES

Task 14 Hydraulic Modeling for Wildlife Estates

The purpose of this task is to analyze the three preferred alternatives for proposed benefits and potential impacts. The existing XP-SWMM model will be modified to reflect the improvements of the alternatives. To perform this task, the Consultant shall:

- Expand the model limits (if required) for the proposed conditions

- Add missing information to the model (if required or survey data is collected)
- Create a proposed conditions model for the three (3) selected alternatives
- Meet with WES PM and Operations and Engineering staff for 2 hours to review hydraulic results and select the preferred alternative to advance design to construction documents.
- Prepare a brief memo to document the preferred alternative decision.

TASK 14 DELIVERABLES

1. Preferred Alternative memo (.PDF)

Wildlife Estates (WES CIP 1005)

Upper Kellogg Capital Improvement Project - Amendment No. 4

Fee Estimate

Otak Project # 021050.100

Task	Description	Engineer 8	Engineer 5	Engineer 1	Scientist 6	Project Surveyor 6	Survey Data Analyst 4	Survey Crew Chief 2	Survey Field Tech 3	Survey Crew Chief 3	Project Coordinator 3	Total Hours	Total Budget by Task
11	**Management and Coordination for Wildlife Estates**												
	Setup Project for Tracking and Reporting		8								12	20	$3,484.00
	Project Schedule	1	4									5	$1,197.00
	Kick-off Meeting	2	4	2		2						10	$2,352.00
	Progress Meetings		12									12	$2,616.00
	Invoice and Progress Report		6								6	12	$2,178.00
	QC Review	12	8		8							28	$7,428.00
	Work Plan for Next Phase	2	16									18	$4,138.00
12	**Data Review and Survey for Wildlife Estates**												
12.1	**Background Data Review**												
	Data Review	2	12	16								30	$5,538.00
	Site Visit		6	4								10	$1,876.00
12.2	**Survey and Mapping**												
	Topographic Survey	1	2			8	32	40	40			123	$16,857.00
	Drone Images		2							8		10	$1,716.00
13	**Alternatives Analysis for Wildlife Estates**												
	GIS Basemaps		2	16								18	$2,708.00
	Develop Design of Alternatives	14	28	56								98	$18,606.00
	Plans and Profile Sheets		21	56								77	$12,530.00
	Cost Estimates		23	32								55	$9,558.00
	Alternatives Analysis Memo		24	32							4	60	$10,356.00
	Meeting with WES	2	4	2								8	$1,806.00
14	**Hydraulic Modeling for Wildlife Estates**												
	Extend WWHM-SWMM Model Extents		4	16	16							36	$6,712.00
	Update WWHM-SWMM model with additional information		2	16	4							22	$3,600.00
	Proposed Conditions WWHM-SWMM Models	3	15	45	22							85	$15,541.00
	Meeting with WES	2	4	2								8	$1,806.00
	Memo for Preffered Alternative Selection	2	16	16								34	$6,410.00
	Total Hours	43	223	311	50	10	32	40	40	8	22	779	
	Current Billing Rate	$325.00	$218.00	$142.00	$223.00	$273.00	$151.00	$132.00	$95.00	$160.00	$145.00		
	Total Labor Cost	*$13,975.00*	*$48,614.00*	*$44,162.00*	*$11,150.00*	*$2,730.00*	*$4,832.00*	*$5,280.00*	*$3,800.00*	*$1,280.00*	*$3,190.00*		***$139,013.00***
	Direct Expenses												***$200.00***
	Project Total												**$139,213.00**