AM NO. 11-058 (C9)

MEMO TO: City Council

FROM: John Marchione, Mayor

DATE: March 1, 2011

SUBJECT: **APPROVAL OF SUPPLEMENTAL CONSULTANT AGREEMENT NO. 3 FOR THE REDMOND WAY STORMWATER TRUNK/ SAFEWAY-BEAR CREEK WATER QUALITY FACILITY, PROJECT NOS. 101120 AND 100369**

I. RECOMMENDED ACTION:

Approve Supplemental Agreement No. 3 for final design of the Redmond Way Stormwater Trunk/Safeway-Bear Creek Water Quality Facility with RW Beck, Inc., in the amount of $267,991, and authorize the Mayor to sign the agreement.

II. DEPARTMENT CONTACT PERSONS:

Bill Campbell, Director of Public Works	425-556-2733
Ron Grant, Assistant Public Works Director/City Engineer	425-556-2742
Michael Haley, Project Manager	425-556-2843

III. DESCRIPTION:

Project Purpose

In 2006, the City Council approved a Regional Facilities plan that will transform the Downtown stormwater infrastructure. This transformation will allow redevelopment in our Downtown core by addressing the stormwater impacts associated with that development up front. The City of Redmond is proceeding with this new initiative to retrofit the most urbanized portions of the City to improve water quality in its streams and to conform to current regulatory standards for stormwater management. This new initiative includes implementing and executing capital improvement projects to construct regional stormwater facilities at strategic locations in the City to provide the greatest improvement to stormwater in the most economical manner.

Background

Redmond's City Center watershed is made up of about 500 acres of commercial and residential development that drains to the Sammamish River. To retrofit this watershed, the City is planning and constructing regional facilities. The recently completed McRedmond Water Quality Facility, which is located in the parking lot of Luke McRedmond Landing Park, was the first of these six new projects. The Leary Way Stormwater treatment wetland, the second facility constructed, was constructed with the Bear Creek Parkway Project. The Redmond Way Stormwater Trunk and Water Quality facility, the third and fourth projects, have been combined in design and are scheduled to begin construction in 2011 and 2012. This effort was delayed to allow time for the master plan process of the Burlington Northern Santa Fe (BNSF) railroad corridor. The Safeway Bear Creek Water Quality facility, which is the fifth project, is scheduled to begin construction in 2011. This project was awarded a Washington State Department of Ecology Stormwater Retrofit Grant on January 25, 2011, to assist in funding final design and construction.

Project Descriptions

The Redmond Way Stormwater Trunk will convey all stormwater run off directly from the east end of downtown Redmond to the Sammamish River. The trunk design of more than a mile of pipeline will allow for stormwater runoff peak flows from the Downtown to be discharged directly to the river without the need for large volumes of storage for detention. The new conveyance line will primarily follow the BNSF railroad corridor through downtown.

RW Beck, Inc. was originally selected to provide design services for the Regional Facilities plan, which includes the Redmond Way Stormwater Trunk and Safeway Bear Creek Water Quality facility in 2008.

The most recent phase of the effort to finalize the trunk drain pipe design began in the fall 2009. After the acquisition of the BNSF railroad corridor, the pipeline design effort was suspended for six months to allow for the BNSF corridor master plan process to study and determine the location of the regional trail and future Sound Transit rail alignment relative to pipeline. The design effort to define these features in the BNSF rail right-of-way resulted in additional effort by the design team to relocate the pipeline in the rail right-of-way. This supplemental agreement covers this additional effort.

The Safeway-Bear Creek Water Quality facility will treat and convey all stormwater runoff from the paved areas on the east side of the Bear Creek Shopping Center. This small drainage area, which discharges to Bear Creek, is all that will remain after flows are redirected to the Redmond Way Stormwater Trunk regional facility. To comply with the

Department of Ecology grant funding, the project scope has been expanded to include replacement of 900 feet of the existing asphalt trail with pervious asphalt on the Bear Creek trail north of Redmond Way.

The next phase of this design effort will finalize the Safeway Bear Creek Water Quality facility design in anticipation of construction beginning in the summer of 2011. The design effort will also define the extent of the asphalt trail replacement with the section of pervious asphalt. This supplemental agreement covers the additional design work required for the Safeway Bear Creek Water Quality facility to comply with the Department of Ecology grant.

IV. IMPACT:

A. Service/Delivery:

This work will result in final design for the Redmond Way Stormwater Trunk and the Safeway-Bear Creek Water Quality facility.

B. Fiscal:

Design:	
RW Beck Inc. Supplement No. 3 (Ecology grant compliance)	$ 61,548
RW Beck Inc. Supplement No. 3 (Additional pipeline design)	206,443
City Administration	20,000
Total	**$287,991**
Funding:	
Ecology Grant	$ 71,548
Stormwater CIP	216,443
Total	**$287,991**

V. ALTERNATIVES:

The City Council could choose not to approve the supplemental consultant agreement; however this action would delay the Redmond Way Stormwater Trunk and Safeway-Bear Creek Water Quality facility design and construction.

VI. TIME CONSTRAINTS:

The current schedule is to complete the water quality design for bidding in the spring/ summer 2011 and construction of the facilities will begin in summer/fall 2011.

VII. LIST OF ATTACHMENTS:

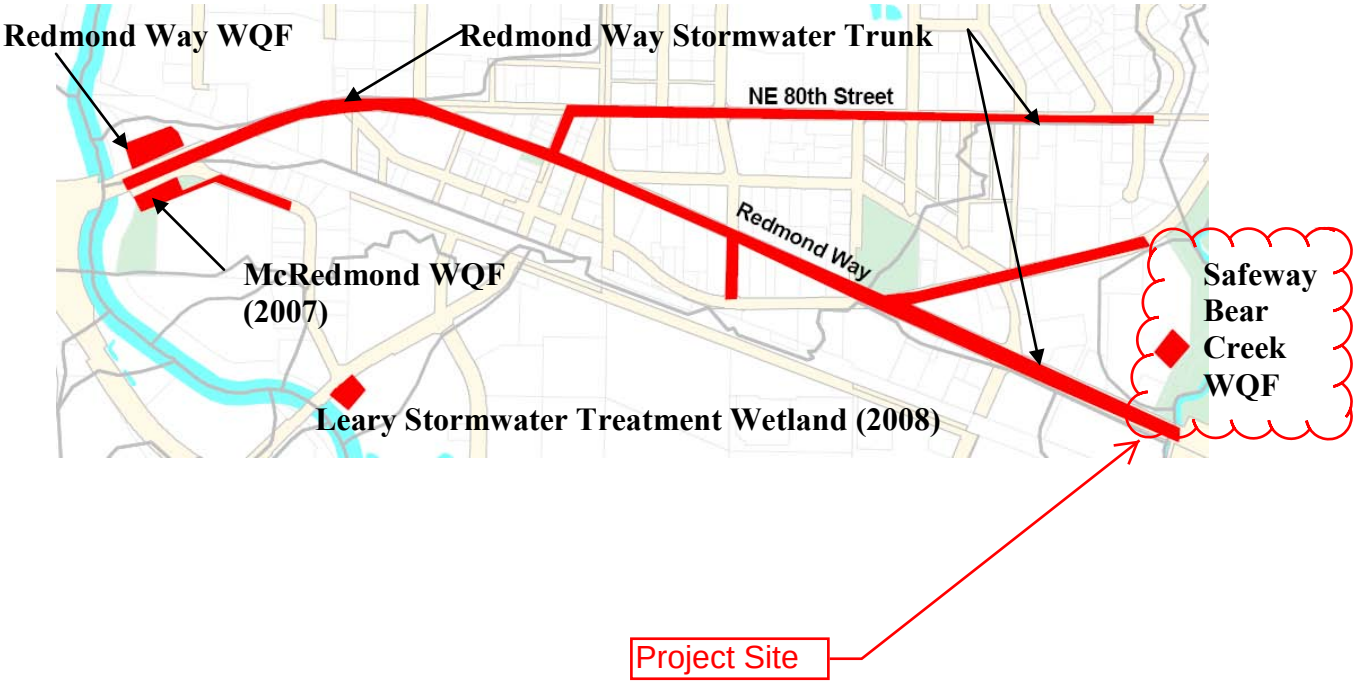
A. Vicinity Map
B. Supplemental Agreement No. 3

/s/ 2/18/2011
William J. Campbell, Director of Public Works Date

Approved for Council Agenda /s/ 2/22/2011
John Marchione, Mayor Date

ATTACHMENT A

VICINITY MAP



"Attachment B"
Redmond Way Stormwater Trunk and Safeway Bear Creek Water Quality Facility
Project No.101120/101114/100369

SUPPLEMENTAL AGREEMENT NO. 3

This SUPPLEMENTAL AGREEMENT, made and entered into this ____ day of _____, 20___ between the City of Redmond, Washington, hereinafter called the CITY, and RW Beck Inc., hereinafter called the CONSULTANT, amends an earlier Agreement (AGREEMENT) dated January 28, 2008.

WHEREAS the CITY desires to supplement the original AGREEMENT;

NOW THEREFORE, it is mutually agreed that the terms, stipulations, and conditions of the original AGREEMENT shall be binding upon the parties hereto except insofar as amended by this SUPPLEMENTAL AGREEMENT as follows:

I

Section II, SCOPE OF WORK, is amended by the additional tasks summarized in Exhibit A-3 attached hereto.

II

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the completion date for all work to read January, 2012.

III

Section V, PAYMENT, shall be amended to compensate the CONSULTANT for the work described in Exhibit A-3

A breakdown of the CONSULTANT'S cost proposal is attached hereto as Exhibit B-3. By this reference the exhibit is made a part of this SUPPLEMENTAL AGREEMENT.

Summarized below are the costs as listed in the original AGREEMENT and as modified by this SUPPLEMENTAL AGREEMENT.

Summary					
Description	**Original Agreement**	**Supplement No. 1**	**Supplement No. 2**	**Supplement No. 3**	**Total**
Labor Cost	$1,160,226	$711,443	$159,726	$245,031	$2,031,395
Reimbursables	$28,616	$30,032	$1,270	$2,960	$59,918
Total	$1,188,842	$741,475	$160,996	$247,991	$2,091,313
Contingency	$182,359	$100,000	$31,000	$20,000	$313,359
Grand Total	$1,371,201	$841,475	$191,996	$267,991	$2,404,672

EXECUTION

IN WITNESS WHEREOF, the parties have executed this SUPPLEMENTAL AGREEMENT by having their representatives affix their signatures below.

R.W. Beck Inc.

By_____

_____
(Title)

CITY OF REDMOND

By _____
John Marchione, Mayor

Attested:

By_____
City Clerk

Approved as to Form:

By_____
City Attorney

EXHIBIT A-3
SCOPE OF SERVICES

PROJECT SCOPE

The scope of services described below is to provide supplemental design services related to the Redmond Way regional stormwater treatment project. Included is an update to the 100% design of the Stormwater Treatment Wetland (between the Bear Creek Shopping Center and Bear Creek) to meet the requirements of a Department of Ecology grant received for this project. The design update includes the replacement of impervious sections of the existing trail with pervious open-graded asphalt, a temporary construction access to Avondale, a detour route for the trail during construction and interpretive signs along the trail. The services described below include preparation of the additional plans, details, specifications and cost estimates required for these changes and additions.

The services described below also include additional services required to support the Redmond Way stormwater trunk design. Included is the realignment of the pipeline to accommodate the trail requirements along the railroad corridor and additional design requirements beyond those originally estimated to be required.

The proposed facility improvements are in accordance with the City of Redmond Regional Stormwater Facilities Plan that has been endorsed by the Washington State Department of Ecology.

TASK 1.0 PROJECT MANAGEMENT (R. W. Beck)

Task 1.1 Project Administration

The Consultant shall conduct project management activities including scheduling, budget monitoring, invoicing, contract and subconsultant administration, and coordination with the client and subconsultants

Task 1.2 Quality Assurance/Quality Control

The Consultant shall adhere to Quality Assurance/Quality Control (QA/QC) reviews of products to be submitted to the City. QA/QC reviews of draft and final deliverables will be conducted before transmittal to the City. Reviews will be performed by a senior member of Consultant's staff external from the project working team. QA/QC activities shall be tracked under Task 1.2 to ensure these activities are budgeted, scheduled, and performed.

Task 1 Assumptions

- The project duration will be up to 3 months.

Task 1 Deliverables

Task 1 deliverables include:

- Monthly progress reports and invoices.

TASK 2.0 100 Percent Design Re-Submittal and Bid Set (R.W. Beck)

The purpose of this task is to update the design to include temporary access to Avondale Way, a trail detour route during construction and open-graded asphalt replacing the existing trail surface (from a point approximately 200 feet north of Redmond Way, extending northward to Avondale Way). The re-submittal will also incorporate previous review comments received on the prior submittal. The outcome of this task will be a re-issuance of the 100 Percent Design and preparation of the final Bid set. The addition of interpretive signs will be performed under Task 3.0.

The Consultant will prepare the additional design drawings, modify existing design drawings as well as update the specifications and cost estimate for the design additions and changes.

One meeting is included in this task to discuss design options or to go over review comments.

The following is the assumed list of additional drawing sheets that will be required.

Sheets	Sheet No.	No. of Sheets
Temporary Avondale Access Plan, Profile and Details	C9	1
Trail Detour Route During Full Closure	C10	1
Total Sheets[1]		2

1) The total of 2 sheets is approximate and used for developing the cost estimate accompanying this scope.

Task 2 Assumptions

- The City will consolidate all review comments on the submitted 100 Percent documents and reconcile any conflicting comments as necessary before returning the comments to the Consultant.
- The City will coordinate the design review meeting and arrange for the attendance of City staff as appropriate.
- It is assumed that other modifications of the 100% design will be minimal and will not include changes to the wall or grading.

- The temporary trail detour shown in the drawings is still appropriate.
- No additional permitting or sensitive area work will be required.
- The details for the open-graded asphalt will be shown on an existing plan sheet.
- No cultural resources work will be required.
- The existing basemap and geotechnical report are sufficient to cover the remaining work.
- Full trail closure during the installation of the open-graded pavement.

Task 2 Deliverables

Task 2 deliverables include:

- Attendance at up to two (2) design review meeting;
- Eight (8) half-size copies and an electronic copy (AutoCAD or Microstation format) of the 100 Percent plan set;
- An electronic copy (PDF and MS Word or EXCEL formats) of the 100 percent estimate.
- An electronic copy (PDF or MS Word format) of the 100 percent specifications
- Eight (8) half-size copies and an electronic copy (AutoCAD or Microstation format) of the Bid plan set; and
- An electronic copy (PDF and MS Word or EXCEL formats) of the bid estimate.
- An electronic copy (PDF or MS Word format) of the bid specifications

3.0 Interpretive Sign Design (The Watershed Group)

This task involves preparation of the interpretive signs for the Bear Creek Trail. The interpretive sign design will be incorporated into the design package as part of Task 2.0. Up to four signs will be developed. The maximum size of any sign will be 18”x 24”, but the theme of the particular sign will dictate the ultimate size. The emphasis will be on the quality of the graphics and the content of each sign relative to its location along the trail and durability.

Assumptions

- The City will consolidate all review comments on the submitted 30 and 90 Percent sign mock up and reconcile any conflicting comments as necessary before returning the comments to the Consultant.

Task 3 Deliverables

Task 3 deliverables include:

- Preliminary theme ideas and locations for each sign.
- A 30 percent- level mock up of each sign.
- A 90-percent-level mock up of each sign including draft copy and captions.
- Present draft signs to Parks and Trails Commission.
- Final graphics for each sign to the City in electronic form
- Final cost estimates for at least two different types of signs and opinion of preferred alternative emphasizing durability.
- Sign plans for inclusion in the bid package.

TASK 4.0 Supplemental Design Services for the Redmond Way Trunk and Water Quality Treatment Facility (R.W. Beck and HDR)

This task covers a range of supplemental services required to advance the design of the Redmond Way Trunk and Water Quality Facility. Included is coordination and design adjustments to accommodate other projects under design (e.g. 161st and the railroad corridor trail); adjustment to the trunk design to address deficiencies noted in the City's comprehensive analysis of stormdrains within the catchment area, and other various design changes as noted in the bulleted list below.

- The alignment of the pipeline along the railroad was revised to accommodate the proposed trail along the corridor. Prepared new plan and profile drawings reflecting the conceptual trail plans prepared by others. This also resulted in a project delay waiting for the trail alignment to be selected. The delay caused some project inefficiencies caused by having to "restart" the design after a delay of several months.
- The conversion of the drawings to a different vertical datum, requiring changes to the base map and edits to the callouts for structures.
- The extension of the trunk northward on 170th Ave NE to Avondale Way, requiring additional design and added plan sheets.
- Preparation of a second 60% complete plan set submittal showing the extended and realigned pipeline along with the changed vertical datum.
- Coordination with regard to utility locates required by the change in pipeline alignment and/or extensions of the storm drain improvements.
- Preparation of traffic control drawings and detour plans to accommodate construction within the downtown center (not included in the original scope).

- Preparation of grading plans to accommodate the disposal of excavated material and the future trail along the railroad corridor. Included completing earthwork calculations, preparation of plan view drawings and cross sections (not included in the original scope).

- Additional design services for the Westgate properties as required for the preparation/refinement of easements.

- Extended coordination regarding the permits. Included was additional analyses and site visit with representatives of National Marine Fisheries to gain approval for a new outfall to the Sammamish River.

- Ongoing coordination regarding pipe sizes, utility relocates, trail construction and other projects. In addition, reviews and analyses have been conducted to validate the design against the conveyance improvement plans being developed by the City using the PCSWMM model. Additional analyses are still required to confirm the system performance during the interim condition (assuming the trunkline is constructed and is in operation before the 2nd outfall is constructed).

Task 4 Deliverables

Task 4 deliverables include:

- The revised 60 percent complete plan set submitted for review (showing updated pipeline alignments, pipeline extensions and revised vertical datum).

- Traffic control plans (to be included in 90 percent complete and 100-percent complete submittals)

- Rough grading plans for the railroad corridor (to be included in 90 percent and 100 percent complete submittals)

- Pollutant loading analyses, preparation of summary exhibits and meeting with resource agencies concerning the proposed outfall to the Sammamish River.

- Project coordination meetings concerning utilities, traffic control, survey extensions and PCSWMM model results.

- Attendance at meetings and production of a summary memorandum concerning PCSWMM model review compared to the pipeline design.

- Easement drawings for the Westgate property showing construction and permanent easements.

- Meetings with City staff concerning traffic control, coordination with other City projects and utility conflicts.

Exhibit B-3, 1 of 2

Consultant Fee Determination

Project Name: Redmond Way Water Quality Facility
Project Number:
Consultant: R.W. Beck

NEGOTIATED HOURLY RATES

Classification	Hours	Rate		Cost
Bear Creek Safeway				
Project Principal/PM	6	$229	$	1,374
Senior Engineer	21	$213	$	4,473
Project Engineer	0	$177	$	-
Staff Engineer	140	$135	$	18,900
Junior Engineer	0	$100	$	-
CADD	62	$125	$	7,750
Editor	0	$109	$	-
Project Assistant	8	$89	$	712
Financial Operations	6	$107	$	642
Supplemental Design Services				
Project Principal/PM	96	$229	$	21,984
Senior Engineer	72	$213	$	15,336
Project Engineer	48	$177	$	8,496
Staff Engineer	180	$135	$	24,300
Junior Engineer	120	$100	$	12,000
CADD	60	$125	$	7,500
Editor	0	$109	$	-
Project Assistant	16	$89	$	1,424
Financial Operations	16	$107	$	1,712
Subtotal:	851			$126,603

REIMBURSABLES

Mileage (inc car rental)		$	150
Reproduction (copies, plots, etc.)		$	400
Miscellanous		$	160
Computer		$	-
Subconsultant B&O Tax		$	2,250
	Subtotal:		$2,960

SUBCONSULTANT COSTS

Watershed Company			$19,800
HDR (See Exhibit C)		$	98,628
	Subtotal:		$118,428

TOTAL	$247,991
CONTINGENCY	$20,000
GRAND TOTAL	$267,991

Exhibit B-3 2 of 2

Sub-consultant Fee Determination

Project Name:	Redmond Way Water Quality Facility
Project Number:	
Consultant:	HDR

NEGOTIATED HOURLY RATES

Classification	Hours	Rate	Cost
Senior Environmental Planner	12	$167	$2,006
Staff Planner/Biologist		$137	
Senior Planner/Biologist		$182	
Principal Engr	60	$204	12,221
Senior Engr	40	$182	7,296
Staff Engr I	245	$127	31,133
Staff Engt II	24	$152	3,648
Senior Traffic Engr	24	$204	4,888
Landscape Arc h		$97	
Traffic Engr	8	$102	813
CADD	224	$116	25,876
Principal/qc	15	$219	3,283
Project Assist	15	$91	1,368
Project Controls	20	$128	2,554
Subtotal:	687		$95,086

REIMBURSABLES

Mileage				$500
Reproduction (copies, plots, etc.)			$	500
Tech. charge $3.70/hour	687	3.7	$	2,542
		Subtotal:		$3,542

TOTAL $98,628