

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Resolution No. 382, authorizing execution of Amendment No. 1 to the professional services agreement for the Coal Creek Parkway Culvert Replacement project, with CH2MHill for engineering services associated with Parks trail design, in the amount of \$93,000 (CIP Plan Nos. D-103 and P-AD-89).

FISCAL IMPACT

Awarding this contract amendment commits the City to an additional contract amount of \$93,000. This revises the original contract from \$841,000 to \$934,000. This contract amendment will be fully funded from the Parks CIP Plan No. P-AD-89, Parks Levy – Trail and Natural Areas. There is sufficient funding available to fund this work.

CIP Plan No. D-103	Original Contract Amount	\$841,000
CIP Plan No. P-AD-89	Amendment No. 1	93,000
	Amended Contract Amount	\$934,000

STAFF CONTACT

Michael Jackman, Interim Deputy Director, 452-6012
Utilities Department

Dan Dewald, Natural Resource Manager, 452-6048
Geoff Bradley, Environmental Programs Supervisor, 452-2740
Parks & Community Services Department

POLICY CONSIDERATION

Department policies provide for the identification and implementation of capital projects via the CIP to rehabilitate or replace deteriorated elements of the storm water system. This policy ensures utility customers are provided with consistent and reliable services.

This project also addresses the community's vision for fishable waters and regional efforts to protect and enhance salmon populations by the removal of barriers that allow fish to reclaim suitable upstream habitat. State law requires the owners of culverts and fish ladders to make them passable for fish. CIP Plan No. D-103 has been designated to do this.

In addition, this project also furthers the following Parks policies:

POLICY PA-1. Establish a coordinated and connected system of open space and greenways throughout the city that provide multiple benefits including preserving natural

systems, protecting wildlife habitat and corridors, and providing land for recreation.

POLICY PA-5. Incorporate utility, storm drainage, and other public lands into the open space system through cooperative use agreements.

POLICY PA-13. Develop pedestrian and bicycle linkages between neighborhoods and major natural areas, recreation facilities, and education centers.

P-AD-89 has been designated to implement these policies.

BACKGROUND

In 2010, CH2MHill began design work on this project to replace the corrugated metal pipe (CMP) under Coal Creek Parkway with a larger concrete box culvert / bridge. The 9-foot diameter corrugated metal culvert was built in the early 1980's. The culvert is heavily corroded and has holes in the bottom which allow water to pass through and wash away the subgrade.

Due to its degraded condition, this culvert is at the end of its useful life. The roadway and several adjacent utilities rely on the continued serviceability of this culvert. Two high-pressure petroleum pipelines pass below as well as above the culvert in Coal Creek Parkway. A regional sewer pipeline, a natural gas transmission pipeline, a fiber optic cable, and power transmission lines are also located at the culvert crossing. Rehabilitation of the culvert is not feasible.

In order to reliably pass major storm flows and debris, and to provide fish passage and habitat, this project will replace the deteriorating corrugated metal culvert with a large open-bottom concrete box culvert. During the design process, Utilities and Parks determined that it will be beneficial to the City to widen the box culvert from 32 feet to 39 feet in width in order to add a walkway along the south wall of the culvert for hikers to safely cross under Coal Creek Parkway.

This trail connection beneath Coal Creek Parkway will provide a safe way for hikers to cross the road, and will eliminate an existing gap in the Coal Creek Park trail system. Parks had previously budgeted funds to construct a 0.2 mile trail extension to allow hikers to cross Coal Creek Parkway at an existing crosswalk at Forest Drive. Addition of this trail connection to the culvert will eliminate the need for the trail extension, thereby significantly reducing Parks' costs to connect the trail system.

This partnership between Utilities and Parks will save approximately \$60,000 from the cost to design and build the trail extension to Forest Drive. In addition, it provides a direct connection between the trail systems on each side of Coal Creek Parkway. Pedestrian safety will be improved as hikers will no longer be tempted to dash across four lanes of traffic, and the culvert path will provide a safe vantage point for hikers to view the creek as it passes through the new culvert. The concrete walkway will include a partial-height concrete barrier to keep high creek flows from entering the path and discourage hikers from walking through the creek.

CH2MHill will provide the engineering design, coordination, and environmental permit documentation necessary to incorporate the trail into the design of the Coal Creek Parkway Culvert.

The consultant selection process for this project was consistent with the City's contracting policies and procedures. CH2MHill was selected by a Utilities Department selection committee after reviewing eight targeted Statements of Qualification (SOQ's) submitted by top environmental and engineering firms in the region. Five of the firms were then invited to submit additional proposals addressing the specific issues involved to replace the culvert. After reviewing the proposals, the selection committee invited CH2MHill and three other firms (Inca, DEA, Otak) for interviews before finalizing the selection. CH2MHill demonstrated a thorough understanding of the issues and constraints associated with the project, as well as a proven record in designing and permitting projects of this type, and were considered most qualified to perform this work.

As required by state law relating to contracts for architectural and engineering services, the City selects the consultant deemed to be most highly qualified for a given project. State law precludes using cost as a basis for selection of engineering firms.

EFFECTIVE DATE

If adopted, this Resolution will become effective immediately.

OPTIONS

1. Adopt Resolution No. 8382, authorizing execution of Amendment No. 1 to the professional services agreement for the Coal Creek Parkway Culvert Replacement project, with CH2MHill for engineering services associated with a Parks trail design, in the amount of \$93,000 (CIP Plan Nos. D-103 and P-AD-89).
2. Do not adopt the Resolution and provide alternative direction to staff.

RECOMMENDATION

Adopt Resolution No. 8382, authorizing execution of Amendment No. 1 to the professional services agreement for the Coal Creek Parkway Culvert Replacement project, with CH2MHill for engineering services associated with a Parks trail design, in the amount of \$93,000 (CIP Plan Nos. D-103 and P-AD-89).

MOTION

Move to adopt Resolution No. 8382, authorizing execution of Amendment No. 1 to the professional services agreement for the Coal Creek Parkway Culvert Replacement project, with CH2MHill for engineering services associated with a Parks trail design, in the amount of \$93,000 (CIP Plan Nos. D-103 and P-AD-89).

ATTACHMENTS

CIP Project Descriptions
Proposed Resolution No. ~~8382~~

AVAILABLE IN COUNCIL OFFICE

CH2MHill, Inc. Amendment #1

D-103 Replace Coal Creek Pkwy Culvert at Coal Creek

Category: Storm Drainage
Department: Utilities

Status: Approved and Begun
Location: Coal Creek, at Coal Creek Parkway

Programmed Funding

Programmed Funding	Appropriated To Date	FY 2011 Budget	FY 2012 Budget	FY 2013 Budget	FY 2014 Budget	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget
6,038,250	106,000	416,000	2,704,000	2,812,250	-	-	-	-

Description and Scope

This project will replace a 96-inch diameter, 110 foot long corrugated metal pipe built in the 1980s, that carries Coal Creek beneath Coal Creek Parkway. The current culvert impedes fish passage; resource agencies will likely require the new design to be designed for fish passage. This may mean construction of a bridge rather than a replacement culvert, although other design alternatives will be evaluated.

PROJECT NEED: System Renewal and Replacement

Rationale

Recent inspections revealed the pipe is heavily corroded, with limited remaining structural integrity. Holes in the bottom of the culvert allow water to leak through, threatening the integrity of Coal Creek Parkway and two high pressure fuel pipelines that pass near the pipe. Rehabilitation of the existing culvert is not feasible; engineers estimate the remaining culvert life at less than 5 years. This project will pre-empt eventual culvert collapse, which would have catastrophic consequences to Coal Creek Parkway, and Coal Creek, including the possible destruction of earlier projects to enhance stream stability, and downstream flooding of homes. A catastrophic culvert collapse and the damage to multiple important utility facilities would have ripple effect throughout the region, affecting air travel and surface transportation along with serious environmental impacts.

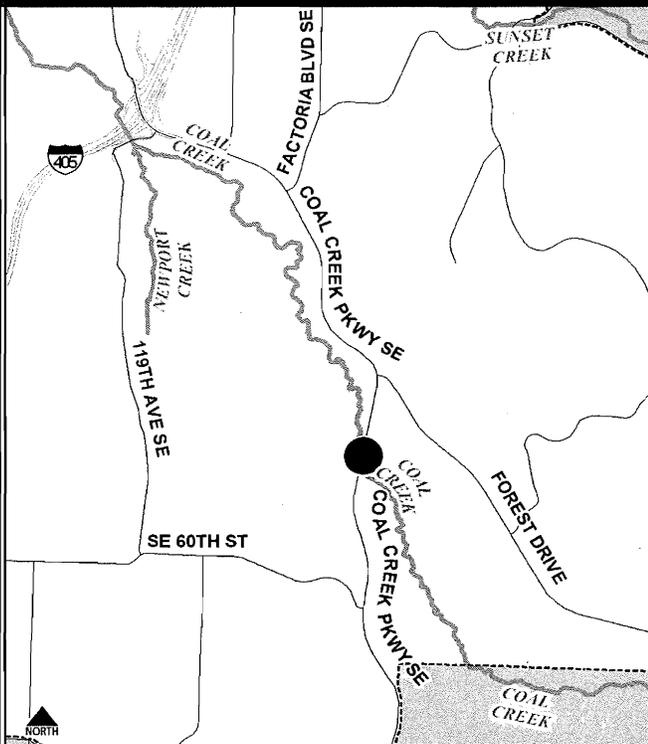
Environmental Impacts

The project will require SEPA review to identify environmental impacts and appropriate mitigation.

Operating Budget Impacts

At this time, this project has no known impact on operating revenues and/or expenditures, since it replaces an existing facility.

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2009 - 2013	6,038,250
Total Budgetary Cost Estimate:		6,038,250

Means of Financing

Funding Source	Amount	
Utility Rates/Fees	6,038,250	
Total Programmed Funding:		6,038,250
Future Funding Requirements:		0

P-AD-89 Parks Levy - Trails and Natural Area

Category: Acquisition & Development
 Department: Parks & Community Services

Status: New
 Location:

Programmed Funding

Programmed Funding	Appropriated To Date	FY 2011 Budget	FY 2012 Budget	FY 2013 Budget	FY 2014 Budget	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget
2,086,000	86,000	1,000,000	1,000,000	-	-	-	-	-

Description and Scope

This project, approved by voters as part of the 2008 Parks and Natural Areas Levy, will provide new trails and amenities for increased recreation opportunities in Bellevue's Parks and Open Space system. The program will plan, design, permit and build "missing links" in the Lake to Lake Greenway, Richards Valley Trail, and Coal Creek system connecting Bellevue's parks to regional trails and facilities. Access to a well planned and managed trail system provides a nature experience to help build an urban environment that supports personal health and well being.

Rationale

Pedestrian and bicycle circulation systems are becoming increasingly important for recreational use, as well as transportation routes. The public has identified trails as a top priority in recent citizen surveys, and heavy use of newly built walking and jogging paths is evidence of the need for continuing to fill gaps in the trail network. Well planned and developed trail systems add value to the community by connecting parks, neighborhoods, schools, and business with non-motorized transportation alternatives. It helps decrease environmental degradation, increase user safety, add mobility, and create quality neighborhoods by providing access to nature for recreation, exploration, environmental education and personal health and well being.

Environmental Impacts

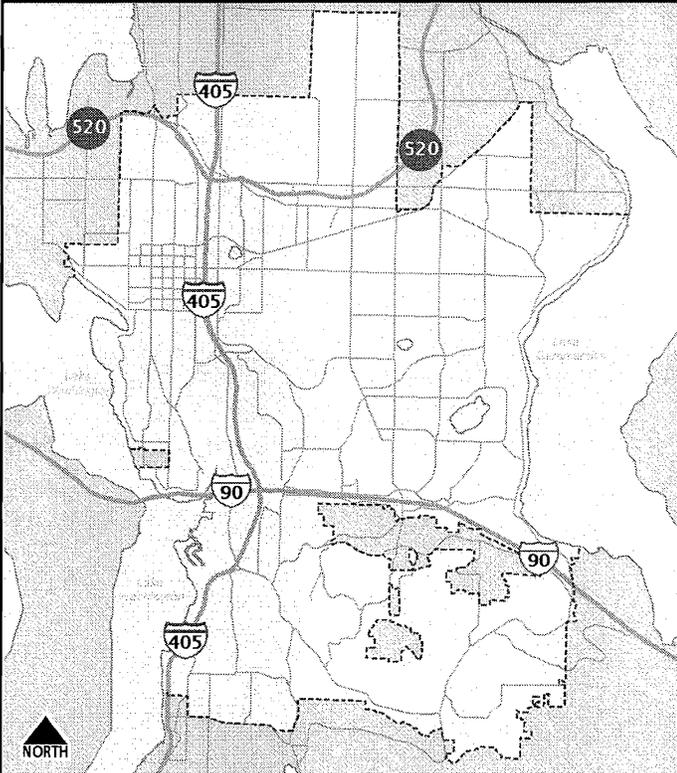
Trails are expected to be sensitively built in a variety of settings, including wetlands, old agricultural fields, wooded areas, on moderate to steep slopes, and in public street rights-of-way. Environmental impacts may include temporary peat displacement, clearing of vegetation, temporary soil erosion on steep slopes, and social factors such as intrusion of public paths on private property.

Operating Budget Impacts

Estimated annual maintenance costs of \$50,000 will begin in 2013. These costs will be funded by the ongoing M&O component of the 2008 levy.

Project Map

Schedule of Activities



Project Activities	From - To	Amount
Project Costs	2011 - 2012	2,086,000
Total Budgetary Cost Estimate:		2,086,000

Means of Financing

Funding Source	Amount	
2008 Parks Levy - Property Tax	2,086,000	
Total Programmed Funding:		2,086,000
Future Funding Requirements:		0

CITY OF BELLEVUE, WASHINGTON

RESOLUTION NO. 8382

A RESOLUTION authorizing the execution of amendment number one to the professional services agreement for the Coal Creek Parkway Culvert Replacement project with CH2MHill for engineering services associated with a Parks trail design in an amount not to exceed \$93,000, for a total contract of \$934,000 (CIP Plan No. P-AD-89).

THE CITY COUNCIL OF THE CITY OF BELLEVUE, WASHINGTON, DOES RESOLVE AS FOLLOWS:

Section 1. The City Manager or his designee is hereby authorized to execute an amendment to the Professional Services Agreement with CH2MHill (CR# 46541), adding an additional \$93,000 (CIP Plan No. P-AD-89), for engineering services associated with additional design work to add a parks trail to the Coal Creek Parkway Culvert Replacement project, copy of which amendment has been given Clerk's Receiving No. _____.

Passed by the City Council this _____ day of _____, 2012, and signed in authentication of its passage this _____ day of _____, 2012.

(SEAL)

Conrad Lee, Mayor

Attest:

Myrna L. Basich, City Clerk