

CITY COUNCIL AGENDA ITEM
CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Motion to Authorize the City Manager to Execute an Agreement with Herrera in the Amount of \$166,000 for the Design of the Goheen Revetment and Stream Enhancement Project		
DEPARTMENT:	Public Works		
PRESENTED BY:	Mark Relph, Public Works Director		
ACTION:	<input type="checkbox"/> Ordinance	<input type="checkbox"/> Resolution	<input checked="" type="checkbox"/> Motion
	<input type="checkbox"/> Discussion	<input type="checkbox"/> Public Hearing	

PROBLEM/ISSUE STATEMENT:

The 2013-2018 Capital Improvement Program adopted by Council includes the Goheen Revetment and Stream Enhancement Project (Goheen Project). Staff is requesting Council authorize the City Manager to execute a contract with Herrera for \$166,000 to design the Goheen Project.

FINANCIAL IMPACT:

The total project budget for this project is \$400,000. The Surface Water Capital Fund will fund the expenditures for this project.

RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute an agreement with Herrera for \$166,000 to design the Goheen Revetment and Stream Enhancement Project.

Approved By: City Manager ____ City Attorney ____

INTRODUCTION

The 2013-2018 Capital Improvement Program adopted by Council includes the Goheen Revetment and Stream Enhancement Project (Goheen Project). Staff is requesting Council authorize the City Manager to execute a contract with Herrera for \$166,000 to design the Goheen Project.

BACKGROUND

Prior to the City's incorporation, King County installed a dam structure on McAleer Creek downstream from the project location at NE 196th Street. The dam allowed for in-stream flow detention to alleviate downstream flooding within Lake Forest Park. As a condition of the installation, the County obtained a drainage easement and agreed to maintain the stream embankment at the Goheen residence. The maintenance responsibility was transferred to the City as part of the incorporation.

To uphold the conditions of the City's drainage easement, the City is required to maintain the revetment on the Goheen property to ensure a stable stream bank within their easement area. (A revetment is a sloping structure placed on banks or cliffs of streams in such a way as to absorb the energy of incoming water)

The existing revetment provides a low level of bank protection for the majority of the stream bank on the property, which has exhibited an eroding cut bank condition for approximately 60 feet of its length. Many of the rocks that comprise the revetment have been dislodged from their original positions and are no longer functioning to prevent erosion of the bank. This project will repair the erosion of the embankment.

This project will also take the opportunity to enhance stream habitat by creating friendly fish areas along the creek and adding shade trees to help maintain a cooler water temperature.

The City prepared an existing conditions and alternative analysis report in December 2011 to evaluate the current conditions of the project area and to recommend the best appropriate action to protect the Goheen property.

The report identified three options that would provide the necessary repairs and provide long term protection. The following alternatives were proposed by the consultant:

1. Revegetation and Soft Bank Protection – This would utilize small natural features (brush bundles, coir logs, small stakes) to protect the embankment followed with selective vegetation to protect the embankment.
2. Bioengineered Log and Rock Revetment – This would utilize a combination of rock and logs to stabilize the embankment
3. Launchable Setback Revetment – This would utilize pile-supported wall and large rock setback into the embankment.

The alternative analysis recommended the Bioengineered Log and Rock Revetment because it was a cost effective solution with the greatest benefit and least risk in terms

of success in protecting the bank. The estimate and budget approved in the 2013-2018 Capital Program is based on this alternative.

ALTERNATIVES ANALYSIS

This project was advertised for a consultant in February 2013 and on March 18, the City received Statements of Qualification from four engineering firms for evaluation. After a review of proposals, the candidates were shortlisted to two and interviews were held for each. After completing the evaluations, staff determined that Herrera was the most qualified firm for this project and is recommending that they be awarded the project. Qualifications were based on their knowledge of the project, experience working in streams, and permitting requirements. The alternative would be to not award the project to Herrera which would result in the project not proceeding.

FINANCIAL ANALYSIS

Surface Water Utility Funds will be used to fund this project. Following is a table on the estimated project costs:

Project Costs

Project Administration	
Design Contract	\$ 166,000.00
Construction Engineering	\$ 20,000.00
Direct City Costs	\$ 25,000.00
Construction	189,000.00
Total Project Costs	\$ 400,000.00

Project Revenue

Surface Water Capital Fund	\$400,000.00
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RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute an agreement with Herrera for \$166,000 to design the Goheen Revetment and Stream Enhancement Project.

ATTACHMENTS

Attachment A: Goheen Property Map with Before/Present Photos



SHORELINE
Geographic Information System

Goheen Property

Attachment A

— McAleer Creek (City)
— McAleer Creek (Outside)
--- City Limit-outline

1 inch = 80 feet
0 20 40 80 Feet

No warranties of any sort, including accuracy, fitness, or merchantability, accompany this product.

SHORELINE