WASHINGTON STATE
Recreation and Conservation Office

MJ
12/9/16

Amendment to Project Agreement

Project Sponsor: City of Aberdeen **Project Number:** 16-2030P
Project Title: Fry Creek Restoration - 30% Design **Amendment Number:** 1

Amendment Type:

Cost Change

Amendment Description:

Add $350,000 to the project to move from 30% design to 100% design including permitting. Construction permits would be acquired at a later date.

Project Funding:

The total cost of the project for the purpose of this Agreement changes as follows:

	Old Amount		New Amount	
	Amount	%	Amount	%
RCO - CBS Projects	$150,000.00	100.00%	$500,000.00	100.00%
Project Sponsor	$0.00	0.00%	$0.00	0.00%
Total Project Cost	$150,000.00	100%	$500,000.00	100%
Admin Limit	$0.00	0.00%	$0.00	0.00%
A&E Limit	$0.00	0.00%	$0.00	0.00%

Agreement Terms

In all other respects the Agreement, to which this is an Amendment, and attachments thereto, shall remain in full force and effect. In witness whereof the parties hereto have executed this Amendment.

State Of Washington
Recreation and Conservation Office

BY: Scott T. Robinson
Kaleen Cottingham

TITLE: Director

DATE: 11/14/16

Pre-approved as to form:

BY: /S/
Assistant Attorney General

City of Aberdeen

AGENCY: City of Aberdeen

BY: [signature]

TITLE: Mayor

DATE: 11-29-16

RECEIVED
DEC - 9 2016
WA STATE
RECREATION AND CONSERVATION OFFICE

Amendment Agreement Description

Project Sponsor: City of Aberdeen | **Project Number:** 16-2030 P
Project Title: Fry Creek Restoration - 30% Design | **Amendment Number:** 1

Agreement Description

Fry Creek passes through developed urban areas of Aberdeen and Hoquiam before discharging to Grays Harbor. During high rainfall events, the flow exceeds the capacity of the channel and the creek floods adjacent urban residential and commercial areas, affecting homes, businesses, roadways, and vital operations. In addition to direct flooding, city storm sewers that are hydraulically connected to the creek surcharge when it floods, contributing to significant flooding in low-lying areas not immediately adjacent to the creek such as Cherry Street farther east in the City of Aberdeen.
This project will build on the work completed in the Timberworks Master Plan (to be complete October 2016) to create a 30% design for restoration of Fry Creek to reduce flooding by improving conveyance, storage, and outfall conditions in the creek system. Additional goals include habitat restoration and improved public access to Fry Creek.
The outcome will be a 100% design and cost estimate for restoration of Fry Creek. The work will include performing a hydraulic/hydrologic analysis of the basin to determine the anticipated flow of Fry Creek where it passes through the cities, as well as to identify constrictions and model proposed restoration geometry. The final product will be 100% level plans and an engineer's estimate of probable costs that will be used to seek funding (taxes, levies, or grants) for final design and construction.

Amendment Special Conditions

Project Sponsor:	City of Aberdeen	**Project Number:**	16-2030 P
Project Title:	Fry Creek Restoration - 30% Design	**Amendment Number:**	1

Special Conditions

None

Amendment Eligible Scope Activities

Project Sponsor: City of Aberdeen
Project Number: 16-2030
Project Title: Fry Creek Restoration - 30% Design
Project Type: Planning
Program: Chehalis Basin Strategy
Amendment #: 1

Planning Metrics

Worksite #1, Fry Creek

Chehalis Basin Flood Hazard Reduction

Flood hazard reduction through restoration planning

Sponsor request

Bahr, Amee (RCO)

From:	Kris Koski <kkoski@aberdeenwa.gov>
Sent:	Thursday, November 03, 2016 1:28 PM
To:	Bahr, Amee (RCO)
Cc:	Boettcher, Scott
Subject:	Re: Please Submit ---------------- FW: Fry Creek Restoration | WCRI Support Doc
Follow Up Flag:	Follow up
Flag Status:	Flagged

Scott,

In response to your questions:

Will this include permit applications?

- Yes, the 100% design funding is intended to cover permits to the maximum extent possible. If construction is phased, permits for later phases may not be possible to obtain until those phases occur.

How much is project acquisition?

- Do you mean property acquisition (not project acquisition)? If so, I do no have a firm number for that but could provide an estimate. My gut says total property acquisition could be up to $500K although it really depends on how much we widen the channel and flood bench.

Kris Koski, PE
City Engineer
City of Aberdeen

Office: 360-537-3218
Cell: 360-589-6896

On Thu, Nov 3, 2016 at 12:44 PM, Bahr, Amee (RCO) <amee.bahr@rco.wa.gov> wrote:

Scott,

I will get this routed today. The amendment should be mailed early next week.

Kris, you can provide the permit application information at any time. We can add it to PRISM easily. Thank you.

Scott, are we following acquisition protocol for RCO? If not, how do you want to proceed with documentation verification for the acquisition piece?

Thanks.

Amee Bahr

Outdoor Grants Manager

Recreation and Conservation Office

(360) 725-3943

amee.bahr@rco.wa.gov

Schedule Monday-Thursday 7:00 a.m. – 4:30 p.m, Flex every other Friday, alternate Fridays 7:00 a.m. to 3:30 p.m.

WASHINGTON STATE
RECREATION AND CONSERVATION OFFICE
Salmon Recovery
Funding Board

Natural Resources Building

PO Box 40917

1111 Washington St. SE

Olympia, WA 98501

From: Scott Boettcher [mailto:scottb@sbgh-partners.com]
Sent: Thursday, November 03, 2016 12:38 PM
To: Bahr, Amee (RCO)
Cc: Kris Koski
Subject: FW: Please Submit ---------------- FW: Fry Creek Restoration | WCRI Support Doc

Amee – Here is another one which should be processed as a $350K amendment to 16-2030 (https://secure.rco.wa.gov/prism/search/ProjectSnapshot.aspx?ProjectNumber=16-2030). Kris at Aberdeen (cc'd above) can provide more detail. Funding is to move from 30% design to final design (100% design).

Kris – Will this include permit applications?

Kris – How much is project acquisition?

Scott

From: Kris Koski [mailto:kkoski@aberdeenwa.gov]
Sent: Wednesday, October 26, 2016 2:21 PM
To: Scott Boettcher <scottb@sbgh-partners.com>
Cc: Rick Sangder <rsangder@aberdeenwa.gov>; VRaines@co.grays-harbor.wa.us; colronjanaverill@comcast.net
Subject: Re: Please Submit ---------------- FW: Fry Creek Restoration | WCRI Support Doc

Scott,

Attached are two project recruitment forms:

- Fry Creek 30-100% design - $350,000 (2015-2017 biennium)
- Fry Creek partial construction - $2,585,000 (2017-2019 biennium) -- this partial construction amount assumes approval of WCRI funds to complete construction funding

Note: If we need to allocate more dollars to the 2015-2017 biennium, we could add funds for property acquisition, either by revising the recruitment form to include it or by adding an additional (third) recruitment form into the mix. Thoughts?

Kris Koski, PE

City Engineer

City of Aberdeen

Office: 360-537-3218

Cell: 360-589-6896

On Fri, Oct 21, 2016 at 11:54 AM, Kris Koski <kkoski@aberdeenwa.gov> wrote:

I'll jump on it! Very excited about this!

Kris Koski, PE

City Engineer

City of Aberdeen

Office: 360-537-3218

Cell: 360-589-6896

On Fri, Oct 21, 2016 at 5:45 AM, Scott Boettcher <scottb@sbgh-partners.com> wrote:

Kris and Rick – Per yesterday's conversation at the Flood Authority meeting, can you please submit this project to me ASAP as follows:

- Cost, scope, timeline to complete (# days/weeks/months) remainder of Fry Creek design (30-100%).
- Cost, scope, timeline to complete (# days/weeks/months) construction.

Please use local form here -- https://www.ezview.wa.gov/site/alias__1492/34489/local_projects.aspx

CHEHALIS
RIVER BASIN
FLOOD AUTHORITY

2017-19 Local Projects Recruitment Form

Chehalis Basin Flood Relief

A. What are local flood relief projects? -- In general, local projects are those projects that provide predominantly localized and quantifiable benefit, are capable of being completed within the funding cycle, are supported by the jurisdiction within which the project is proposed, and are vetted and advanced through a public entity like a City, County, Conservation District, Agency, etc. Furthermore, local projects are envisioned as helping with flooding, not adverse to fish or habitat and (where possible) providers of multiple, quantifiable benefits.

B. What kinds of local flood relief projects are likely to be logical funding candidates for 2017-19?

- Projects that complete an effort previously funded/started.
- Projects that advance improved emergency response.
- Projects that advance improved public infrastructure protection.
- Projects that advance improvements in local or community flood hazard reduction, including local flood proofing projects (e.g., elevations, buy-outs, foundation venting/opening, etc.).
- Projects that advance Conservation District initiated flood hazard reduction (e.g., farm pads, evacuation routes, bank erosion/bank stabilization, etc.)
- Projects that demonstrate innovation (e.g., thinking beyond traditional bank stabilization techniques in favor of natural system designs), partnerships, cost-sharing/leveraging resources, multiple benefits, and proactive vetting with agencies and tribes.
- Projects typically not in excess of $3M for the stage/phase being funded.

C. Are there projects that would not be good candidates?

- Projects that seek to utilize State Capitol Budget dollars for uses not typically allowed (e.g., maintenance and repair work, cost-sharing under select circumstances, etc.).
- Projects likely to increase potential for flood damage upstream or downstream.
- Projects with unmitigable adverse environmental impacts or significant uncertainty regarding potential environmental impacts.
- Projects not sponsored by a public entity.

Instructions:

a. Please submit local flood relief project requests (via this form) to Scott Boettcher (scottb@sbgh-partners.com) <u>no later than 5:00 p.m., Friday, August 12, 2016</u>.

b. Please submit one request form for each project proposed, even those past projects previously or partially funded.

c. Note: Parts III and IV below [marked by "(**)"] will be scored as part of the Flood Authority Projects Committee's review and evaluation. Part I and II will not be scored.

CHEHALIS
RIVER BASIN
FLOOD AUTHORITY

Part I General	
1. **Date:**	October 26, 2016
2. **Project Name:**	Fry Creek Restoration and Flood Reduction – 100% Design
3. **Project Location** -- Please identify the location of the project as precisely as possible, including providing decimal degree latitude/longitude coordinates.	Fry Creek is located in Grays Harbor County in the Cities of Aberdeen and Hoquiam, with its mouth located at the Port of Grays Harbor. Approximate latitude and longitude: 46°58′27″ N, 123°51′02″W.
4. **Project Contact** -- Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.).	Kris Koski, City Engineer City of Aberdeen Public Works 200 East Market Street, Aberdeen, WA 98520-5207 (360) 537-3218 kkoski@aberdeenwa.gov
5. **Lead Organization** -- Please identify the lead organization, agency, entity, etc. responsible for this project. Please identify key partners responsible for assisting in the delivery or implementation of the project.	The City of Aberdeen will administer the project. The project will occur in the Cities of Aberdeen and Hoquiam.

Part II Description, Timing and Cost	
6. **Project Description** -- Please describe the project, what is intended to be accomplished, the benefits to be accrued, and to whom.	Fry Creek passes through developed urban areas of Aberdeen and Hoquiam before discharging to Grays Harbor. (See attached Vicinity Map.) The creek channel has been filled in and constricted over time as the cities have developed, and today it is generally a narrow channel passing through many culverts and under roadway crossings. (See attached photos for current conditions.) During high rainfall events, the flow exceeds the capacity of the channel and the creek floods adjacent urban residential and commercial areas, affecting homes, businesses, roadways, and vital operations such as the Grays Harbor PUD and Pacific Care and Rehabilitation Center. In addition to direct flooding, city storm sewers that are hydraulically connected to the creek surcharge when it floods, contributing to significant flooding in low-lying areas not immediately adjacent to the creek such as Cherry Street farther east in the City of Aberdeen.

	The Cities of Aberdeen and Hoquiam are in the final stages of developing a comprehensive flood risk master plan – the "Timberworks Master Plan" – to be completed in November 2016. The draft Master Plan has identified restoration and flood reduction measures for Fry Creek. (See attached Fry Creek concept figures.) Funds to proceed with 30% design of the project were previously awarded by the Flood Authority to the City of Aberdeen. This project will add to the 30% design funds to produce a final (100%) design for restoration of Fry Creek to reduce flooding by improving conveyance, storage, and outfall conditions in the creek system. Additional goals include habitat restoration and improved public access to Fry Creek. The outcome of the project will be a 100% design, specifications, and cost estimate to be used for permitting, bidding, and construction. The project will benefit the City of Aberdeen, City of Hoquiam, Grays Harbor PUD, Pacific Care and Rehabilitation Center, and many others. It will be a multi-benefit project to decrease damaging floods in a depressed area while improving wildlife habitat and access.
7. **Project Timeline** -- Please describe the overall timeline for completion of the project as well any interim stages or phases.	Incorporating the 30% design into a full 0-100% design project, the project timeline is as follows: 10/2016 – RFQ for consultant team 11/2016 – Selection of consultant team 12/2016-2/2017 – Kick-off, survey, hydraulic analysis 2/2017-4/2017 – 30% design, 60% design milestones 4/2017-6/2017 – 90%, 100% design milestones
8. **Project Cost and Funding** -- What is the cost of this project? What are the on-going maintenance and operation requirements and costs? Is it clear who will be responsible for covering on-going maintenance and operation costs?	Estimated project costs are as follows: 30% design – $150,000 – PREVIOUSLY FUNDED **100% design – $350,000 – THIS REQUEST** Construction – $2,585,000 – SEPARATE REQUEST Construction - $2,215,000 – WCRI FUNDING (see below)
9. **Other Funding** -- Please explain the extent to which other funding sources or funding partners are available.	The Washington Coast Restoration Initiative has included $2,215,000 for this project in their 2017-2019 biennium funding ask which still requires legislative approval. If approved, those funds will allow the City to begin or continue phased construction of the project in the 2017-2019 biennium.

CHEHALIS RIVER BASIN
FLOOD AUTHORITY

Part III (**) Completion and Doability by June 30, 2019	
10. **Project Completion** -- Does the funding requested complete (or substantially complete) a project that has already been started? If so, please explain.	This funding will add to 30% design funds previously awarded and will allow the City to produce a final (100%) design to be used for permitting, bidding, and construction.
11. **Project Doable** -- Can this project or the stage/phase for which funding is sought be completed by June 30, 2019? Please describe any circumstances with potential to impact the project's doability or timeline (e.g., permitting or regulatory unknowns, lack of availability of other cost-share funding resources, etc.). Please describe any advance coordination or vetting with agencies, tribes, other entities, etc. and the outcomes of that effort.	The project provides funds to produce a final (100%) design for subsequent permitting, bidding, and construction. The field work, analyses, and design work needed to produce the 100% design can be completed by June, 2017. Coordination and vetting with WDFW and DOE will occur concurrently with design.
12. **Project Impacts** -- Please identify how any project impacts will be mitigated, funded and if that mitigation will be accomplished by June 30, 2019?	There are no physical impacts with this phase of work (design). Impacts will be identified as design progresses and mitigation will be proposed where needed.

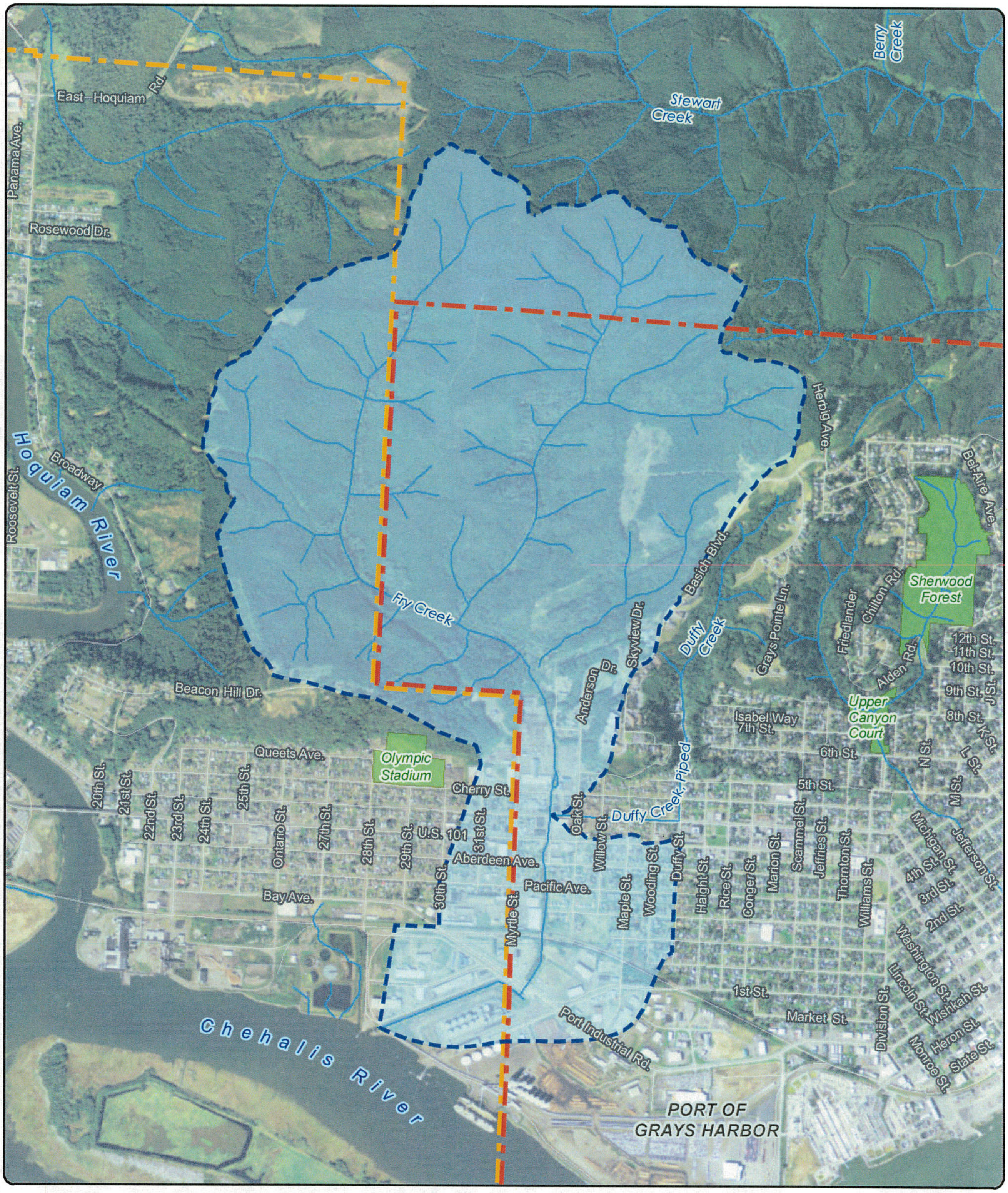
Part IV (**) Benefits Stated and Quantified	
13. **Emergency Response Benefits** -- Please describe (and quantify) how this project enhances emergency response in a flood emergency (e.g., does it keep critical access roads and transportation facilities open and functional, does it enable easy movement of cattle, equipment and farm chemicals out of harm's way, etc.).	After the project has been constructed, it will reduce or eliminate flooding in the vicinity of Fry Creek. This area includes vital infrastructure that is impacted by flooding, including the Grays Harbor PUD, Pacific Care and Rehabilitation Center, and the main arterial to Grays Harbor Community Hospital (Oak Street). Reducing or eliminating flooding in this area will greatly improve access to these vital facilities and improve the services that they provide.
14. **Essential Infrastructure Protection Benefits** -- Please describe (and quantify) how this project protects essential infrastructure and the risks or consequences of not acting this funding cycle.	Fry Creek flows past a power substation, Grays Harbor PUD, Pacific Care and Rehabilitation, commercial properties, dozens of homes, US 101, and through the Port of Grays Harbor. Repeated flooding from Fry Creek has caused significant damage to these properties, several of which are critical to the community (e.g. power substation), as well to broader nearby areas where

	floodwaters spread (Cherry Street in Aberdeen). Improving the ability of the creek to convey water to Grays Harbor as well as reducing the surcharge into the city storm sewers will protect this infrastructure.
15. **Public Health, Safety and Welfare Benefits** -- Please describe (and quantify) how this project protects public health, safety and welfare.	Chronic flooding has resulted in depressed property values and rising flood insurance rates. In a community suffering from long-term economic depression, reducing flood insurance costs and increasing property values will greatly benefit the community's welfare. In addition, because flooding contributes to water quality problems, reducing the flooding of homes and businesses will decrease the likelihood of contaminants from these properties from entering Fry Creek and Grays Harbor. Improving conveyance and capacity of the creek will also increase the amount of public open space that can be accessed outside of flood events. Research has shown that creating publicly-accessible open space has measureable public health benefits. Finally, reducing flood risk decreases the risk to public safety and essential infrastructure (e.g. power substation, Grays Harbor PUD, Pacific Care and Rehabilitation) that provide critical public health, safety, and welfare.
16. **Residential, Commercial and/or Agricultural Protection Benefits** -- Please describe (and quantify) how this project protects residential, commercial and/or agricultural interests and communities and the benefits of acting (or consequences of not acting) this funding cycle. Consider factors like number of structures at risk, number of people at risk, historic frequency of flood damage, magnitude of benefit to be gained for the cost, etc.).	As noted above, this project will protect both commercial as well as residential property by restoring Fry Creek, improving storage and conveyance of flood waters associated from rainfall events. The creek floods multiple times every winter causing repeated damages to these properties estimated to be in the tens of thousands of dollars with each instance. Completing this project will protect over 100 commercial and residential structures, as well as Grays Harbor PUD, Pacific Care and Rehabilitation, and a power substation.
17. **Other Project Impacts** -- Please explain how this project impacts or is potentially impacted by another project.	Through the Timberworks Master Plan, the community has called for reducing flood risk in Fry Creek in such a way that it would not only reduce flood insurance rates in this area but also open up the creek corridor to more public access and improved wildlife (e.g. salmonid) habitat. This project aims to achieve those goals. Also, the City is currently in the process of designing the North Shore Levee project, which will intersect with Fry Creek. Completing a final design for Fry Creek allows for the two projects to more effectively coordinate and to develop a more comprehensive overall design.

18. **Anything Else --** Please feel free to offer any additional information (e.g., photos, maps, video, drawings, etc.) that would help to better understand the scope, timing and benefits of this project.	The following are attached for reference: watershed map, vicinity map, photos, and concept figures.

Appendix A

Process/Schedule (current as of 7-22-2017)	
July 21, 2016 (FA In-Person Mtg.)	• Post and distribute **local projects recruitment** request on 7/22/2016 following Flood Authority review/discussion at their 7/21/2016 meeting. • Allow three weeks for project proposals/submittals (i.e., due no later than 5:00 p.m., Friday, August 12, 2016).
August 18, 2016 (FA Conf. Call Mtg.)	• Receive proposals/submittals. • **Update Flood Authority** at their 8/18/2016 meeting on number received, type of projects received, distribution, etc.
September 15, 2016 (FA In-Person Mtg.)	• **Update Flood Authority** at their 9/15/2016 meeting on status of Projects Committee's effort to review, rank, discuss with Tribes, discuss with agencies, preliminarily sort and rank, etc.
October 20, 2016 (FA In-Person Mtg.)	• Review/discuss **DRAFT ranked and prioritized list** with Flood Authority at their 10/20/2016 meeting.
November 17, 2016 (FA Conf. Call Mtg.)	• Seek Flood Authority approval of **FINAL ranked and prioritized list** at their 11/17/2016 Flood Authority meeting.



Source: Aerial photograph obtained from Esri ArcGIS Online

Legend

- Fry Creek Watershed
- Streams
- Parks
- Aberdeen Boundary
- Hoquiam Boundary

Fry Creek Watershed

Timberworks: Resiliency and Restoration Plan
Aberdeen/Hoquiam, Washington

0 1,000 2,000
Feet

MAUL FOSTER ALONGI
www.maulfoster.com

Project: 1122.01 Produced By: joelerich Approved By: klombardi Print Date: 5/13/2016 Path: X:\1122.02 Forterra\Projects\Fig_Fry Creek Watershed_103.mxd

FRY CREEK AND VICINITY

FRY CREEK - CONSTRICTED CHANNEL

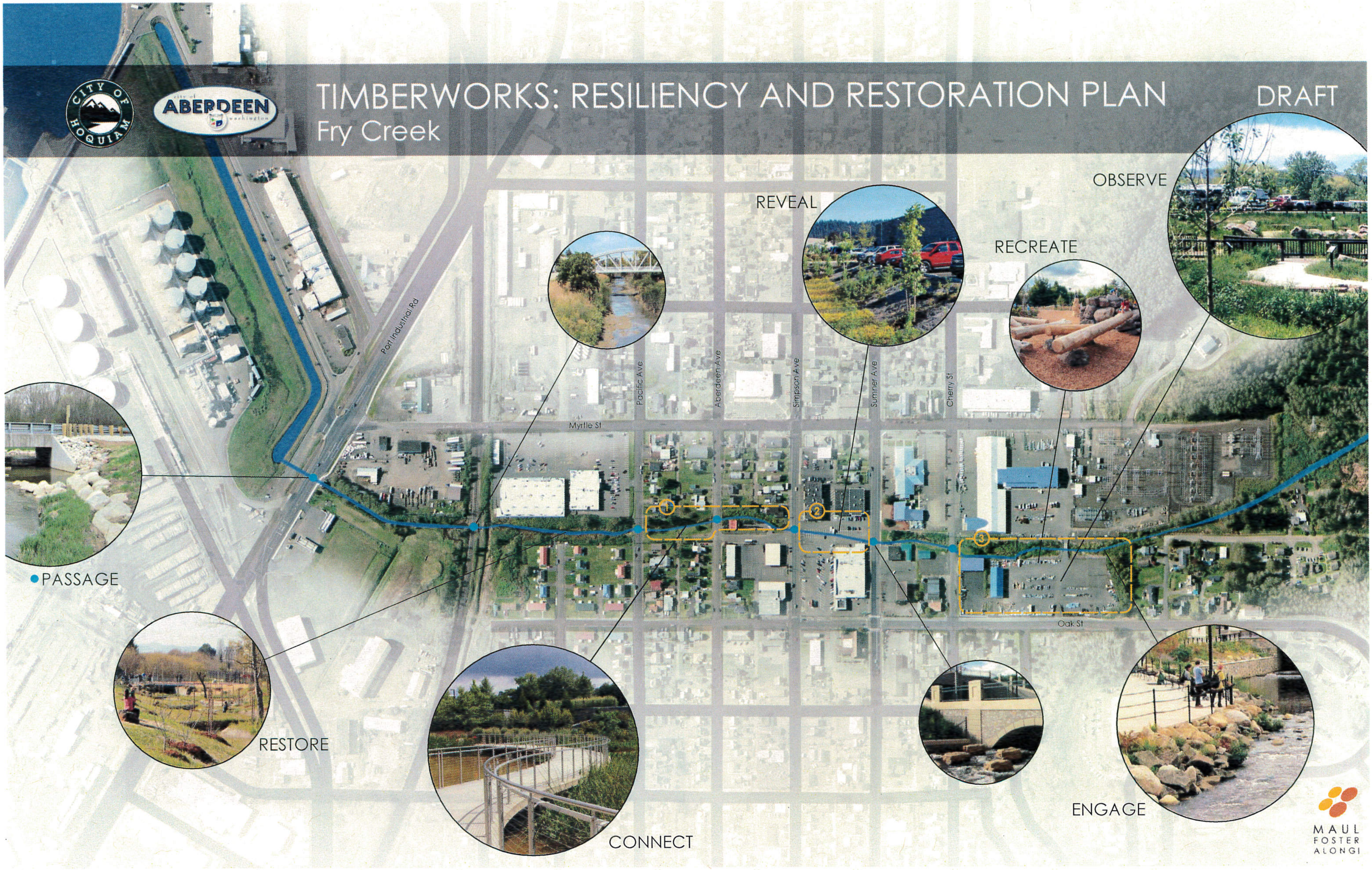
FRY CREEK - CONSTRICTED CHANNEL

FRY CREEK - CULVERT CONSTRICTIONS

FRY CREEK - CULVERT CONSTRICTIONS

FRY CREEK - CULVERT CONSTRICTIONS

FRY CREEK - CULVERT CONSTRICTIONS



TIMBERWORKS: RESILIENCY AND RESTORATION PLAN
Fry Creek
DRAFT
CITY OF HOQUIAM
ABERDEEN
washington
OBSERVE
REVEAL
RECREATE
Port Industrial Rd
Pacific Ave
Aberdeen Ave
Simpson Ave
Sumner Ave
Cherry St
Myrtle St
Oak St
1
2
3
PASSAGE
RESTORE
CONNECT
ENGAGE
MAUL FOSTER ALONGI

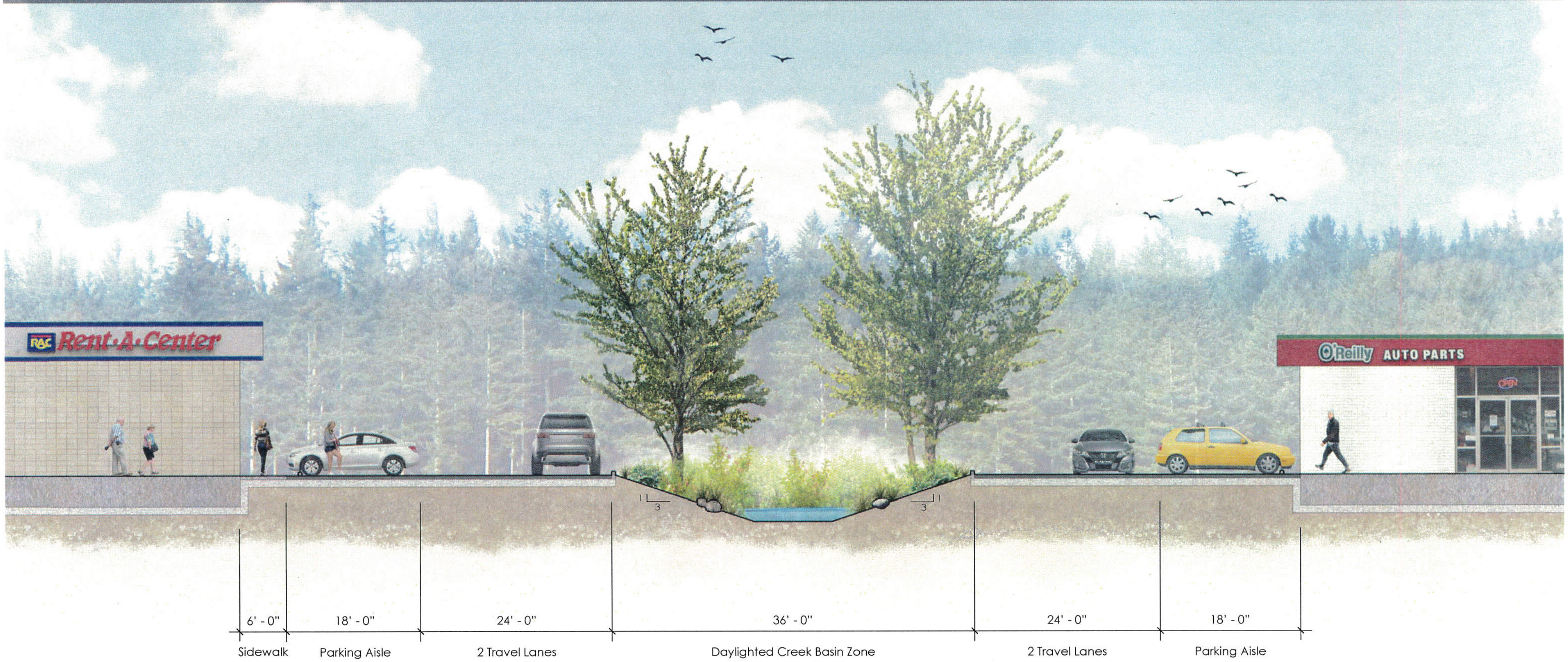
1 SIMPSON AVE PERSPECTIVE

Fry Creek

DRAFT

2 SUMNER AVE PARKING LOT CROSS SECTION
Fry Creek

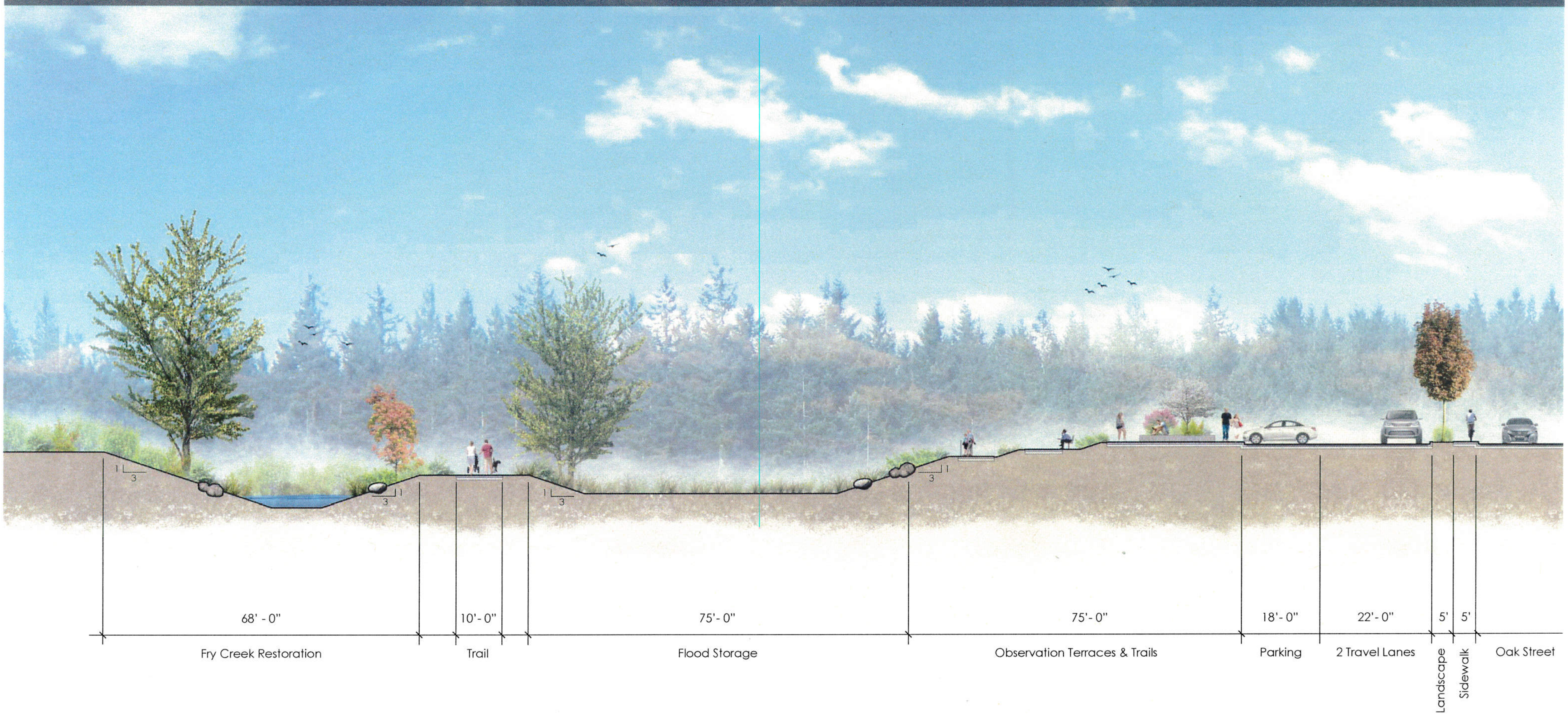
DRAFT



MAUL FOSTER ALONGI

3 OAK ST PARK CROSS SECTION
Fry Creek

DRAFT



MAUL FOSTER ALONGI