# Regional SCS Certification

Opportunities under which King County and Regional Partners & prime contractors make use of Small Contractors & Suppliers on its contracts.

## Benefits

<table>
<thead>
<tr>
<th>Regional Certification</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>King County</td>
<td>• Requirements for the use of SCS firms</td>
</tr>
<tr>
<td>Port of Seattle</td>
<td>• Accelerator – SCS Primes</td>
</tr>
<tr>
<td>Sound Transit</td>
<td>• Under $10K = 50% of dollars spent to be from SCS firms</td>
</tr>
<tr>
<td>Seattle Colleges</td>
<td>• Under $50K = At least one quote from SCS firm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formal Solicitations</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Requirements for the use of SCS firms</td>
<td></td>
</tr>
<tr>
<td>• Accelerator – SCS Primes</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Informal Solicitations</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Under $10K = 50% of dollars spent to be from SCS firms</td>
<td></td>
</tr>
<tr>
<td>• Under $50K = At least one quote from SCS firm</td>
<td></td>
</tr>
</tbody>
</table>

[www.kingcounty.gov/scscertification](http://www.kingcounty.gov/scscertification)

mary.rainey@kingcounty.gov

206 263-9731  NO COST
Professional / Architectural and Engineering (A&E) Roster

Esther Decker, Procurement and Payables (P&P)
Roster Contracts

- Under $300K excluding taxes
- Under 1 year contract duration
- Procured through web-based process
- Projects are listed in online roster
- Project Specific contracts for construction management, professional services or design
- Consultants sign up on county website by disciplines

Tolt Pipeline Protection Project
(aka Winkelmanman Revetment Reconstruction)

Chase Barton, Project Supervisor
Craig Garric, Project Manager

December 12, 2016

Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Project Overview
Project Construction Elements
Typical Cross-Section
Project Schedule & Cost

Preliminary and Final Design (2014-16)  
~currently executed~

Construction Management Services (2016-17)  
~currently executed~

Construction Procurement (Q1, 2017)

Construction (2017)

Estimated $4-5M Construction Cost
Questions?

Craig Garric, Project Manager
206-477-4694
craig.garric@kingcounty.gov
www.kingcounty.gov/rivers
428th Ave SE -
North Fork Snoqualmie Bridge
Risk Reduction

Mark Ruebel, Project Supervisor
Chris Ewing, Project Manager

December 12, 2016

Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Project Site
Near North Bend, WA
Existing Conditions

Sole-access roads are frequently flooded by North Fork Snoqualmie River.

Rapid channel migration threatens transportation infrastructure.
Roadway flooding

- 428th Ave SE
- SE 92nd St
- SE Reinig Rd

Flooding between 2- to 5-year event
Channel Migration

- 190 ft of bank loss since 2006
- Approx. 50 ft lost in WY 2015
- Several potential avulsion pathways through roadways

Dec. 2015 – ~5 year flood
Channel Migration

- 190 ft of bank loss since 2006
- Approx. 50 ft lost in WY 2015
- Several potential avulsion pathways through roadways
Alternatives Analysis

• Solutions being considered:
  – Bioengineered buried setback revetments
  – Bridge upgrades / replacement
  – Raising roadways
  – Culvert improvements

• Preferred alternative may be combination of the above.
Project Schedule

- Alternatives Analysis (2016)
  - *Currently executed. Complete in Q1 2017*

- Design Procurement (Q3, 2017)

- Construction Procurement (2018)

- Construction (2018-2019)
Questions?

Chris Ewing, Project Manager
206-477-3027
chris.ewing@kingcounty.gov
www.kingcounty.gov/rivers
Teufel Nursery-Large Wood Mitigation

Jennifer Rice, Green River Coordinator
Fatin Kara, Green River Supervising Engineer

December 12, 2016

Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Project Location
Green River-Left Bank-River Mile 20.35

Vicinity Map

Site Map
Project Overview

• Large wood project consisting of 85 logs along approximately 380 ft. of the Lower Green River at an inside bend.

• Assume excavation and benching of bank.

• Assume structure will be anchored by piles and chains or bolts.

• Piles to be driven using vibratory pile driver along the margins of the river during low flow conditions in the fish window.

• Construction cost estimated ~$600,000
Project Goals and Objectives

• Fulfill habitat impact mitigation requirements for past tree cutting along Green River Levees in 2009.

• Enhance salmonid rearing and refuge habitat.

• Minimize exposure to potential recreational users of the river channel.

• Maintain or improve flood protection in the surrounding community.
Existing Site Conditions

views of project site from across the river
Project Design:

• Plan overview
Project Schedule

~currently underway

Construction Procurement (Q1, 2017 or 2018)

Construction (2017 or 2018)
Questions?

Jennifer Rice, Green River Coordinator,
Rivers and Floodplain Management Section
206-477-4813
Jennifer.Rice@KingCounty.gov
www.kingcounty.gov/rivers
Black River Pump Station CIP
- Replace High-Use Engines
- Replace Control Building

Lorin Reinelt, Managing Engineer
Tom Bean, Engineering Special Projects Lead

December 12, 2016

Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Birds-Eye View of BRPS

BRPS (lower left) and its tributary area along Springbrook Creek (looking Southeast)
Project Location
Green River-Right Bank-River Mile 11.0

Vicinity Map

Site Map
Project Background

- Flood Control Pump Station
- 1971 construction by USDA SCS (now NRCS)
- Dam prevents tidal and flood backflow in Renton
- Fish passage (2 way)
- 24.8 square mile urban drainage
- 8 flood pumps
Project Goals and Objectives

• Reliable outlet for Springbrook Creek runoff
  – Control flood hazard for public safety
  – Protect property from flood damage

• Efficient operation

• Protect water quality

• Protect fish and wildlife
BRPS Capital Needs

- Project recommendations total $26.5 million and sequenced for implementation within 20 years
  - Replace High-Use Engines
  - Replace Control Building
  - Support System Upgrades
  - Fish Passage Improvements
  - Fish Screen Extension
  - Replace Low-Use Engines
First phase: Replace High-Use Engines

- Replace two 400 hp diesel engines (Tier 4)
- Overhaul pumps for engines
- Evaluate BRPS support of upstream fish habitat
- Planning level estimates of cost
  - $183,000 for engineering and analysis
  - $975,000 for construction

<table>
<thead>
<tr>
<th>Design &amp; Analysis</th>
<th>Q2, 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Procurement</td>
<td>Q4, 2017</td>
</tr>
</tbody>
</table>
Second phase: Replace Control Building

- New Support Building
- Replace Trash Rake & Conveyor System
- Upgrade Screen Spray Water System
- Test Large Flood Pumps
- Evaluate & Monitor Airlift Capacity
- Planning level estimates of cost
  - $1,254,000 for engineering and analysis
  - $5,335,500 for construction

<table>
<thead>
<tr>
<th>Design &amp; Analysis Procurement</th>
<th>Q1, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Procurement</td>
<td>2019</td>
</tr>
<tr>
<td>- Construction Management &amp; Inspection</td>
<td></td>
</tr>
<tr>
<td>- Construction</td>
<td></td>
</tr>
</tbody>
</table>
Questions?

Tom Bean, Engineering Special Projects Lead
Rivers and Floodplain Management Section
206-477-4638
Tom.Bean@KingCounty.gov
www.kingcounty.gov/rivers
Sammamish River Bank Repairs

Dan Heckendorf, Project Manager
John Engel, Cedar/Sammamish Basin Supervising Engineer

December 12, 2016

Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Project Location

- Sammamish River, RM 4.7 and 4.9
- Right bank
Existing Site Conditions

West site

East site
Project Overview

• Bank repair at two locations along the right bank of the Sammamish River

• Assume excavation and reshaping of bank, installation of native woody vegetation, and relocation of recreational trail at both sites

• Assume installation of LWD elements

• Assume execution of roadway and traffic control plan for project duration

• Construction cost estimated ~$370,000
Project Goals and Objectives

- Repair two impaired sections of the right bank with a design that restores the integrity of the levee and reduces risk to the adjacent Sammamish River Trail.

- Maintain the existing level of flood protection

- Enhance aquatic habitat through self-mitigating vegetation measures.

- Develop a streamlined design alternative that may be applied elsewhere within the Sammamish River corridor.

- Generate a design consistent with the Sammamish River Corridor Action Plan and WRIA 8 Salmon Recovery Plan.
Project Schedule

~currently underway

Construction Procurement (Q1, 2017 or 2018)

Construction (2017 or 2018)
Questions?

Dan Heckendorf, Project Manager
Rivers and Floodplain Management Section
206-477-8459
dan.heckendorf@KingCounty.gov
www.kingcounty.gov/rivers
Project Location (Corridor scale)

- Cedar River, ~ RM 11.0 - 11.3
Existing Site Conditions

[Map showing existing site conditions with annotations and legend including occupied structure, previously acquired structure, existing levee or revetment, severe channel migration hazard area, moderate channel migration hazard area, Cedar River, 100-year floodplain, and habitat opportunity area.]

December, 2015
Existing Site Conditions

January, 2009
**Project Goals**

- Develop a comprehensive understanding of the existing flooding condition
- Generate alternative concept designs that demonstrate:
  - Reduction in the frequency of closures of SR 169
  - Access for adjacent at-risk homes during floods
  - Consistency with WSDOT traffic corridor and roadway drainage plans
  - Compliance with regulatory requirements
- Develop cost estimates for each alternative
- Document analyses in Technical Memorandum
Project Objectives

• Conduct Assessment of Existing Condition
  – Hydrologic & hydraulic modeling

• Alternatives Analysis
  – Alternative concept designs and cost estimates
  – Technical Memorandum

• Estimated project cost ~$260,000
Project Schedule

Feasibility Study Procurement (Q2, 2017)

• Assessment of Existing Condition

• Alternatives Analysis
Questions?

Dan Heckendorf, Project Manager
Rivers and Floodplain Management Section
206-477-8459
dan.heckendorf@KingCounty.gov
www.kingcounty.gov/rivers
Porter Reach Restoration Project

- Ecological Restoration & Engineering Services (ERES)

Fauna Nopp, Project Manager
Existing Site Conditions

- Landslide
- Upper revetment
- Lower revetment
- Containment levee
- Backwater
- Pond
Project Overview

• 2017 construction will include:
  – Removing 900’ of existing levee (top of levee & face rock)
  – 1,000’ of new bio-revetment and rock levee
  – Elevating 930’ of Green Valley Road, 1-2’ high
  – 3 buried floodplain jams, 3 exposed floodplain jams
  – 1 large wood and rock jam
  – 10 bank wood clusters
  – 1 excavated backwater channel (1,000’)
  – 1 culvert (length TBD)

• Estimated Construction Cost: $3,500,000

• Anticipated challenges
  – Protection of Water Quality during construction
  – Moderate Recreational Use of Green River in this location
  – Traffic Control
  – Timing of in-water work governed by fish window
Project Schedule

Final Design (1st Qtr, 2017)
Advertise Construction (1st Qtr, 2017)
Award – NTP (2nd Qtr, 2017)
Construction (summer 2017)
Maury Island Aquatic Reserve
Armoring Removal Project

- Ecological Restoration & Engineering Services (ERES)

Alex Hallenius, Project Manager
Project Overview

• Bulkhead removal and structure demolition project on Vashon and Maury Islands

• Construction (2017):
  – Removal of approximately 700 lf of shoreline armoring
  – Demolition of 2 single family homes and several outbuildings/cabins
  – Planting

• Anticipated Challenges:
  – Site access
    • Maury Island - walk-in or beach access only
    • Big Beach/Forest Glen - road access to structures
    • Lost Lake - long, winding, narrow road access
    • Barge-based bulkhead removal
  – Fish window
  – Tidal fluctuations
  – Adjacent residential areas

• Estimated Construction Cost: $570,000
Northilla #1 Bulkhead Removal
Parcels 6175800500
and 6175800510

Piner Point #2 Bulkhead & Structure Removal
Parcel 6175600300

Structure removal area

Bulkhead removal area

Note: Oblique photograph, not to scale
Project Schedule

• Final Design (Q2 2017)
  ~ Design currently underway in-house
• Advertise Construction (Q2 2017)
• Construction (Q3 2017)
Middle Boise Creek – Van Wieringen Stream Restoration Project

- Ecological Restoration & Engineering Services (ERES)

Sarah McCarthy, Project Manager
Project Overview

• Habitat Restoration Project on Boise Creek

• Construction in 2018 will include:
  – Widen Boise Creek to create juvenile salmon habitat
  – Excavate approximately 10,000 CY within 4-acre forested floodplain
  – Relocate 12’ wide farm road and install barbed wire cattle fence
  – Install approximately 100 pieces of wood to enhance habitat and direct flow
  – Plant approximately 2 acres with native vegetation

• Anticipated challenges
  – Protection of Water Quality during construction
  – Timing of in-water work governed by fish window; possible stream diversion
  – Protection of significant trees during construction
  – Coordination with landowner to minimize disruption to farming operations

• Estimated Construction Cost: $1 - $1.5M
Project Schedule

Final Design (2017)
Design currently underway in-house

Advertise Construction (Q1 2018)

Construction (Q3 2018)
Riverbend Levee Setback and Floodplain Restoration Project

- Ecological Restoration & Engineering Services (ERES)

Jon Hansen, Project Manager
Project Overview

- Removal and setback of left bank levees and/or revetments
- Construction in 2018-2019 will include:
  - Removal of approximately 1600 lf of existing levee/bank protection
  - Excavation of >100,000 cubic yards of fill and native materials
  - Placement of excavated materials to raise pond bottom
  - Construction of several rough graded side channels
  - Installation of numerous large wood structures
  - 20+/- acres of planting
- Anticipated challenges
  - Timing of in-water work governed by fish window (July - August)
  - River isolation and water quality
  - Residential areas – sensitivity of adjacent landowners to noise
- Estimated Construction Cost: $7,500,000
Riverbend Levee Setback and Floodplain Restoration

Riverbend

- CIP Project
- Water body
- Major Streams
- Municipal Watershed
- Major Roads
- Public Lands Adjacent Cedar River
- Freeway/highway
- Selected Parks in King County
- Levees and Erosion Control
- Floodplain
- Incorporated Area
- Renton Airport
- Cedar Basin Boundary

Map showing locations such as Riverbend, Elliott Levee Setback and Floodplain Reconnection, Cedar Rapids Setback Levee Repair, and Rainbow Bend Levee Removal & Floodplain Reconnection.
Potential Pond Modification

Bathymetric Cross Section
Riverbend Levee Setback

Approx Winter Low Flow Elev = 125'
Approx Winter Low Flow Elev = 117'
Project Schedule

- Final Design (Q2 2018)
  ~ Design currently underway in-house
- Advertise Construction (Q2 2018)
- Construction (Q3 2018)
Work Order Contract

- Water and Land Resources Division (WLRD)

Tammy Carbaugh, Lead Contract Specialist
WO Contracts Overview

Construction Management & Inspection (CM&I) Services on a Work Order Basis

• These services include, but are not limited to, inspection and other field services, project management, contract administration services, project control, etc. This replaces two CM&I work order contracts soon to expire.

• Advertise early March 2017.

• Award Two Possible Contracts.

• Contract Value $1 million each with up to 3 years duration.