Presenters

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Design and Construction Management
Sound Transit Light Rail

Central Link
University Link
S. 200th Link Extension
Northgate Link Extension
East Link Extension
Lynnwood Link Extension
Federal Way Transit Extension
Operations & Maintenance Satellite Facility
## Tentative Solicitation Schedule

<table>
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<th>Quarter</th>
<th>Project Details</th>
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<td>Q1 2013</td>
<td>N150 Roosevelt Station GC/CM (NORTHGATE)</td>
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<td>Q2 2013</td>
<td>N125 TBM Tunnels D-B-B (NORTHGATE), Bel-Red - E340 GC/CM (EAST LINK)</td>
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<td>Q3 2013</td>
<td>N140 U District Station GC/CM (NORTHGATE), Downtown - E330 GC/CM (EAST LINK)</td>
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<td>Q4 2013</td>
<td>SR520 - E360 D-B (EAST LINK)</td>
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NORTHGATE LINK EXTENSION

Jonathan Gabelein
Principal Construction Manager
Northgate Link Extension
(University District to Northgate)

- 4.3-mile light rail extension
- Stations at U District, Roosevelt and Northgate
- 3.4 Miles of Tunnels
- .9 Miles of Elevated Guideway
- Completion: 2021
Scope of Work

✓ Twin bored tunnels connecting Maple Leaf Portal, Roosevelt Station, U District Station, and UW Station
✓ Cross Passages, Tunnels, Portal Construction, and Station Excavations/Shoring
N125 – TBM Tunnels (D-B-B)

Subcontracting Opportunities

- Hauling (Sand, Gravel, Rubble)
- Advanced Utility Work
- Demolition
- Temporary Site Facilities
- Plumbing (Tunnel, Drainage, Fire Protection)
- Freight Trucking
- Site Preparation
N150 – Roosevelt Station (GC/CM)

Scope of Work

- Open Cut retained Excavation
- Install Below and Above - Grade Structures
- Waterproofing, Station Finishes, Mechanical, and Electrical
- Site Restoration
N150 – Roosevelt Station (GC/CM)

Subcontracting Opportunities

- Concrete and Masonry
- Electrical
- Mechanical and Plumbing
- Steel and Rebar
- Sitework
- Interior Finishes
Scope of Work

- Open Cut Retained Excavation
- Below and Above-Grade Structures
- Waterproofing, Station Finishes, Mechanical, and Electrical
- Site Restoration
# N140 – U District Station (GC/CM)

## Subcontracting Opportunities

- Concrete and Masonry
- Electrical
- Mechanical and Plumbing
- Steel and Rebar
- Sitework
- Interior Finishes
EAST LINK EXTENSION

Tony Raben
Construction Manager
East Link Extension

14.5 mile light rail extension
IDS to Overlake Transit Center
10 LRT Stations
2 Parking Garages
1 Park and Ride

Construction Start – 2015
Planned Opening – 2023
✓ Preliminary Engineering Complete
✓ Final Environmental Impact Statement Published
✓ FTA and FHWA Record-of-Decisions Signed
✓ Final Design Underway
  – S. Bellevue to OTC Civil Contract – HJH Partners
  – I-90 Civil Contract – PB
  – Systems Contract – LTK
East Link - IDS to OTC
Scope of Work

I-90 Segment
• ~7.5 Miles LRT along D2 & I-90 Center Roadway
• Two (2) Stations
• Seismic Retrofits – 5 WSDOT Bridges
• Tunnel Retrofit
• Floating Bridge (Track Bridge, Track Attachments)

S. Bellevue to OTC
• ~7 Miles LRT - Bellevue, SR 520, Redmond
• Eight (8) Stations
• Interstate Crossings (I-90 & I-405)
• Downtown Bellevue Cut and Cover Tunnel

Corridor Wide Systems
• ~14.5 Miles
• Traction Power, Signals and Communication
• Tie into existing operating system
East Link Schedule

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<td><strong>Project Planning &amp; Environmental Review</strong></td>
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*Potential early work
*Scheduled work
*Additional Environmental Review as needed
Construction Delivery Plan

• I-90 Delivery Plan Underway – Spring 2013

• Systems Delivery Plan – In Development

• S. Bellevue to Redmond Delivery Plan
  • Preliminary delivery plan identified
  • Contractor outreach event
East Link Preliminary Construction Delivery
S. Bellevue to OTC

- S. Bellevue - E320 (D-B-B)
- Downtown - E330 (GC/CM)
- Bel-Red - E340 (GC/CM)
- SR520 - E360 (D-B)
East Link Status

Cost Saving Ideas

Potential Modifications to the Adopted Project

ST and City of Bellevue Selection – April 2013
Length ~2.5 Miles
Aerial ~ 1.1 Miles
Retained Cut ~ 0.2 Miles
At-Grade ~ 1.2 Miles
Preliminary Delivery D-B-B
Tentative Ad Date – 2015
S. Bellevue Station

- Aerial - Center Platform
- 1,400 Stall Parking Garage
- Bus Transfer Facilities

E. Main Station

- At-Grade Side Platform
- West Side of 112th Ave. NE
Project Elements

- Work in and Over I-90
- Work in and Adjacent to Wetlands and Parks
- Adjacent to Neighborhoods and Businesses
- Maintenance of Traffic and Access
- Coordination with Public and Private Utility Owners
- Historic Property (Winters House)
- Systems Coordination
Downtown - E330

Length ~1.3 Miles
Tunnel – 0.5 Miles
Aerial - 0.8 Miles
Preliminary Delivery GC/CM
Tentative Ad Date – Q3 2013
Downtown Station
- Underground Cut and Cover Station
- Center Platform
- Along 110th Avenue NE
- Adjacent to the Existing Bellevue Transit Center

Hospital Station
- Aerial Center Platform Station
- Connections off NE 8th and NE 16th
Project Elements

Urban Environment

Work Over I-405

Impact to City Hall and Garage

Duration of Construction

Adjacent to Neighborhoods, Residents and Businesses

Maintenance of Traffic and Access

Coordination with Public and Private Utility Owners

Systems Coordination
Bel-Red E340

Length ~1.5 Miles
Retained Cut ~ 0.3 Miles
Aerial ~ 0.3 Miles
At-Grade ~0.9 Miles
Preliminary Delivery GC/CM
Tentative Ad Date - Spring 2013
**120th Station**
- Retained Cut Side Platform Station
- Located in the Spring District – private mixed use development adjacent to future arterial extension of NE 15th/16th St

**130th Station**
- At-Grade Side Platform Station
- Adjacent to future arterial extension of NE 15th/16th St
- 300 Stall Park and Ride
Bel-Red - E340

Project Elements

*Coordination with Private Developments (Spring District & Potential TOD)

*Coordination with City Projects (120\textsuperscript{th}, 124\textsuperscript{th}, & 16\textsuperscript{th}/136\textsuperscript{th})

Maintenance of Traffic and Access

Stream Crossings (Kelsey, Goff Creek)

Adjacent to Neighborhoods, Residents and Businesses

Coordination with Public and Private Utility Owners

Systems Coordination

*Some work may be by others
SR 520 - E360

EAST LINK SITE MAP
SOUTH BELLEVUE TO OVERLAKE TRANSIT CENTER

Length ~1.8 Miles
Aerial ~ 1.1 Miles
Daylight Cut ~ 0.7 Miles
Preliminary Delivery D-B
Tentative Ad Date – Q4 2013
Overlake Village Station
- At-Grade Side Platform Station
- Located Adjacent to SR520
- Potential Pedestrian Bridge funded by Others

Overlake Transit Center Station
- At-Grade & Retained Cut Center Platform Terminus Station
- 320 Stall Parking Garage
- Public and Private Bus and Shuttle Transfer Services
- Potential Pedestrian Bridge funded by Others
Project Elements

Work in SR 520 ROW
Maintaining Transit Operations at OTC
Duration of Displaced Parking
Work Over Wetland
Potential Enhancements (Pedestrian Bridges and Station Elements)
Potential Early Delivery of OTC and Pedestrian Bridges
Coordination with Public and Private Utility Owners
Systems Coordination Including Design
East Link Contract Packaging Survey

SUBMIT SURVEY

- Hard-copy
- Via E-mail
East Link One-On-One Meetings

JAN 24 TO JAN 30

• 30 minute appointments available

SIGN-UP TODAY

• Sign-up Sheet

COMPLETE SURVEY

• Bring hard-copy to meeting
GC/CM
OVERVIEW

Tina Davis
Sr. Design & Construction Contracts Specialist
General Contractor/Construction Manager – means a firm with which a public body has selected and negotiated a maximum allowable construction cost to provide services during the design phase and to act as construction manager and general contractor during the construction phase.

RCW 39.10.210
GC/CM Overview

PROCUREMENT PROCESS

QUALIFICATIONS

SOQ
Interviews

RFFP

General Conditions
GC/CM Fee %

PRECONSTRUCTION CONTRACT

Negotiated Professional Services Contract

CONSTRUCTION CONTRACT

Negotiated MACC
Fixed Fee
General Conditions
Bid at RFFP Phase
GC/CM Procurement
Three Step Process

**RFQ/PA**
- Issue RFQ/PA
- Receive & Evaluate SOQ/PAs
- Short List

**INTERVIEWS**
- Conduct Interviews
- Short List Most Qualified Firms

**RFFP**
- Issue Request For Final Proposals
- Sealed Bid/Public Opening
- Score RFFP & Reveal Scores
- Identify Highest Ranked Firm
Determining Highest Ranked Firm

SOQ/PA Score

Interview Score

Final Proposal Score

Highest Ranked Firm
Major Phases of GC/CM

**PRECONSTRUCTION SERVICES**
- Negotiate and Award Contract
- Perform Preconstruction Scope of Work
- Electrical/Mechanical > $3M

**MACC NEGOTIATIONS**
- Construction Documents at least 90% complete

**CONSTRUCTION**
- Negotiated MACC
- Bid GCS
- Bid GC/CM Fee %
Subcontract Packages

- Bidding Administered by the GC/CM
- Competitively Bid with Public Bid Openings

- Select Packages may be Pre-Qualified

GC/CM SELF PERFORM
- Capped at 30% of MACC
- ST administers bidding process
GC/CM Training

Associated General Contractors of WA

- General Contractor Construction Manager Workshop
- 01/31/13 – 02/01/13, Seattle, WA
- http://www.constructionfoundation.org/
DESIGN-BUILD OVERVIEW

John Santiago
Sr. Design & Construction Contracts Specialist
Design-build procedure – means a contract between a public body and another party in which the party agrees to both design and build the facility, portion of the facility, or other item specified in the contract.

RCW 39.10.210
Design-Build Overview

PROCUREMENT PROCESS

QUALIFICATIONS

SOQ

PROPOSALS

Alternative Technical Concepts (ATCs)
Technical Proposal
Price

ONE CONTRACT AWARED:

DESIGN-BUILD CONTRACT

Negotiated, Fixed Price Contract
D-B Procurement Process

**RFQ**
- Issue Request for Qualifications
- Receive & Evaluate SOQ
- Short List →

**RFP**
- Issue Request For Proposals
- Review Alternative Technical Concepts *(if applicable)*
- Receive and Score Proposal Packages (technical and price)
- Identify Highest Ranked Firm
Determining Highest Ranked Firm

**RFO**

- SOQ Score
- Short Listed Firms

**RFP**

- Technical Proposal
- Price
  
  =
  
  Highest Ranked Firm
D-B Subcontracting

- D-B Subcontracting Similar to D-B-B
- Early Selection of Some Trades
- May Start Construction Early
Additional Resources

Associated General Contractors of WA
- 01/31-02/01 General Contractor Construction Manager Workshop

Design Build Institute of America
- http://www.dbia.org/

Revised Code of Washington
- RCW 39.10
DIVERSITY PROGRAM
OVERVIEW

Jim Evans
Diversity Program Specialist
Small Business/DBE Goals

SBE Goal
Of Total Contract Cost

DBE Goal
Determination of Goal

Prospective Subcontracting Opportunities Identified by Sound Transit

Availability of Small Businesses/DBE Firms in Relevant NAICS Codes
Questions & Answers
NETWORKING SESSION

Jim Evans
Diversity Program Specialist
Meeting Documents posted to: www.soundtransit.ebidsystems.com