

Design-Build Re-Certification

May 24, 2018

Sound Transit and Design Build

Linneth Riley-Hall, DBIA, CPPO

Utilizing Design Build at Sound Transit

Nick Datz, Assoc. DBIA, CPPB

Design Build Project Experience

Jon Mihkels, DBIA, AIA

Sound Transit Small & Disadvantaged Business Utilization

Questions

Presentation Overview

Sound Transit and Design Build

Linneth Riley-Hall, DBIA, CPPO Deputy Project Director, Federal Way Link Extension



Current Service

Light rail

- University of Washington, Capitol Hill, Downtown Seattle, Sea-Tac Airport, Angle Lake
- Tacoma Dome to Theater District
- Sounder rail
- Everett to Seattle
- Lakewood/Tacoma to Seattle

ST Express bus

• 28 regional bus routes



Alternative Delivery Opportunities

]) Light rail

- West Seattle to Ballard Ext.
- Everett Ext.
- Federal Way to Tacoma Ext.
- Issaquah to Kirkland Ext.

Bus

- Bus Rapid Transit
- Sounder
- Sounder Capital Improvements



Design-Build Projects Since Certification

Utilizing Design Build at Sound Transit

Nick Datz CPPB, Assoc. DBIA Manager, Design and Construction Contracts Contract Packaging Workshop

Recommend Delivery Method

Phase Gate Review DB Project Review Request

Design-Build Delivery Selection Process

Evaluate Project

Based on TCRP-131 Model

Review Project

Goals

- Evaluate delivery methods against criteria and packages
- Determine best delivery method & contract packaging

Establish Evaluation Criteria

- Define criteria for each category
- Score risk of each category (+/-)
- Prioritize categories
- Evaluate contract packaging options

Contract Packaging Workshop

Previous Phase Gate Process

- No Delivery Method Gate
- Not Built to Handle Alternative Delivery, including Design Build

Revised Phase Gate Process

- Added Gate 2 Select Delivery Method
- Occurs:
 - After Contract Packaging Workshop
 - Before Formal Approval of Delivery Method

Phase Gate Improvements



Agency and Staff Experience

Preliminary Design Contracts

- Experience Writing Performance/Prescriptive Project Requirements
- Experience Assisting With DB Procurements

DB Project Management Consultants

- Design Build Experience
- Similar Complex Negotiating Experience
- Managing Integrated Teams

Supplemental Consultant Experience

STOLES DE STATELES :

Design Build Project Experience

Jon Mihkels, AIA, DBIA

Deputy Project Director, Facility Design

3 Contracts, One Integrated Result







South 200th Link Extension

- \$176M Design-Build
- PCL/HDR
- Sept 2016

Angle Lake Parking Garage

- \$32.5M Design-Build
- HPG / Berger ABAM
- Sept. 2016

Roadworks

- \$12M Bid Build
- Johansen
- Sept 2016

South 200th Link Extension





South 200th St Link Extension

- 1.6 miles elevated double track guideway includes train systems and elevated station (Angle Lake Station)
- Pre-cast segmental construction, including a 380-foot long span
- 1.5 year procurement, 4-years design & construction (2011-2016)
- LEED Gold Certified Station One of the first in the County
- 2018 ACEC National Honor Award Engineering Excellence







Angle Lake Station Parking Garage

- 7-story 1,100 stall commuter parking garage first one associated with Link light rail.
- Cast in-place concrete moment frame parking garage with iconic façade of blue anodized aluminum planks on curved girt system
- 10,000 SF public plaza
- 50 KW photovoltaic array
- Created a 35,000 SF Transit Oriented Development parcel

Assisted In Delivering Project 4-years Earlier Than Planned

Total Project Completed \$40M Dollars Under Budget

Quicker Responses To Challenging or Changed Conditions

Low Change Orders & Claims

- S200th Station Contract
- Awarded At \$169M, Completed At \$176M (4.1% Change Orders)
- 3 Claims Filed 2 Denied & 1 Negotiated
- S200th Garage Contract
- Awarded At \$30M, Completed At \$32.5m (8.3% Change Orders)
- 2 Claims, Both Negotiated

Successful Design Build Management

Design Build Lessons Learned

- The Procurement Is The Critical Period To Capture Value Design It Accordingly.
- Including Members Of The Jurisdiction In Developing Project Criteria And Selection, Benefits All Parties.
- Colocation & Collaboration With DB Team Is Critical.
- Allow For Innovation & Creativity In The Procurement.
- Clarify And Communicate Roles And Responsibilities For Construction Quality Program Between Entities.



OMF East Program Highlights

\$218 DB Contract – NTP issued June 2017

Facility to service, deploy and store 96 LRVs, supported by 250 FTE.

Vehicle maintenance shop with 14 service bays

Mainline track, systems & station maintenance functions (Maintenance of Way)

LRV parts storage and car wash

Includes all systems, equipment and furnishings – "turnkey" delivery

24/7, 365 day operations

Operational Fall 2020





OMF East – Overall Site Plan

Lessons Implemented

Integrated Jurisdiction Throughout Process

- Procurement Development And Selection
- Resulted In Advanced Permitting Timeline

Design Build Team Responsible For Land Use Permits

Extensive One-on-one Meetings

Pre-proposal Submittal With Written Feedback

Negotiation / Concept Validation Period

2-year Warranty w/ Energy & Water Performance Guarantee

Sound Transit Small & Disadvantaged Business Utilization

Leslie Jones

Director, Small Business Development and Labor Compliance



•To influence stakeholders so that Sound Transit improves mobility for Central Puget Sound in ways that include the diverse people of the region."

Our Responsibilities:

- Disadvantaged Business Enterprise Program
 - Small Business Program
- Title VI Program
- Project Labor Agreement

Overall Agency Goal

- Agency Goal for FFY 2018 16.1%
- Estimated Attainment 19.8% (Finalized June 1st)

Program Overview

Project	Goal Type	Goal	Attainment	Project Status
S. 200 th Link Extension	DBE	5%	10.1%	Complete
	SBE	18%	19%	
Angle Lake Garage	DBE	5%	6.8%	Complete
	SBE	16%	40.6%	
Maintenance of Way	DBE	4%	4.25%	Complete
	SBE	12.5%	13.4%	
Bel-Red to Overlake	DBE	6%	15.0%	27%
	SBE	22%	15.6%	
OMF: East	DBE	6%	6.0%	21%
	SBE	12%	17%	

Design Build S/DBE Utilization

Questions?

