



# STATE ROUTE 520

## CONSTRUCTION PROGRESS REPORT

### SEPTEMBER 2014



*Aberdeen: Top slab on Pontoon K*



*Floating Bridge and Landings: Column pre-pour*



*Floating Bridge and Landings: Medina worksite*



*Eastside: Eastbound platform at 92nd Avenue Northeast transit stop (looking west)*

DATE PUBLISHED: OCT. 31, 2014





Floating Bridge & Landings: Pontoons U and V, looking west



Eastside: Finishing wall 4B-01

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## Executive Summary

### EXECUTIVE OVERVIEW

The SR 520 Bridge Replacement and HOV Program will improve safety and reliability throughout the SR 520 corridor, from I-5 in Seattle to the Eastside. Projects currently under construction include the new six-lane SR 520 floating bridge, the new six-lane Eastside corridor that includes culverts, improved transit facilities and lids, pontoon construction in Aberdeen, and the new west approach bridge for westbound traffic. Future work includes replacing the Portage Bay Bridge, building a new west approach bridge for eastbound traffic, building lids in Seattle, and connecting a bicycle/pedestrian path from the floating bridge to local and regional trails in Seattle.



Aberdeen: Wrapped columns on Pontoon L



Map of SR 520 Bridge Replacement and HOV Program

### CURRENTLY FUNDED PROGRAM

We are currently funded to move forward with:

- Constructing a new, safer floating bridge, as well as a fixed West Connection Bridge linking the new floating bridge to SR 520's existing four-lane segment in Seattle.
- Building pontoons at casting basin facilities in Tacoma and Grays Harbor.
- Constructing the Eastside Transit and HOV Project.
- Building the north half of the new west approach bridge, and connecting six lanes of traffic from the Montlake interchange to the new floating bridge.
- Continuing to design the remaining elements of the west side of the corridor.

### PROGRAM STATUS

**Pontoon Construction Project:** Crews completed work on Cycle 5. Waterproofing and punch list items were completed along with final staging preparations prior to float-out for pontoons I, J, K, L, GSW and GNW.

**Eastside Transit and HOV:** Crews continued landscaping, noise wall work, lid finishes and luminaire installation.

**Floating Bridge and Landings:** At Concrete Technology Corporation, crews continued concrete placement in pontoons (the last of six cycles) 2A, 2B, 2E and 2G. At the Port of Tacoma, supplemental pontoons were towed to Lake Washington. At Medina, toll gantries 1 and 2 were delivered and assembled. On Lake Washington, crews installed permanent ballast rock in pontoons B, C, D and E.

**West Connection Bridge:** Work on the West Connection Bridge was completed in September.

**West Approach Bridge North: (WABN):** The WABN contract was awarded to Flatiron West on July 23, 2014 and executed on August 23. The contractor began preliminary work on site on September 16.



FB&L: Pontoon KNW arriving from Terminal 7

### MAJOR RISKS

Notable major risks that could delay the program or increase costs include:

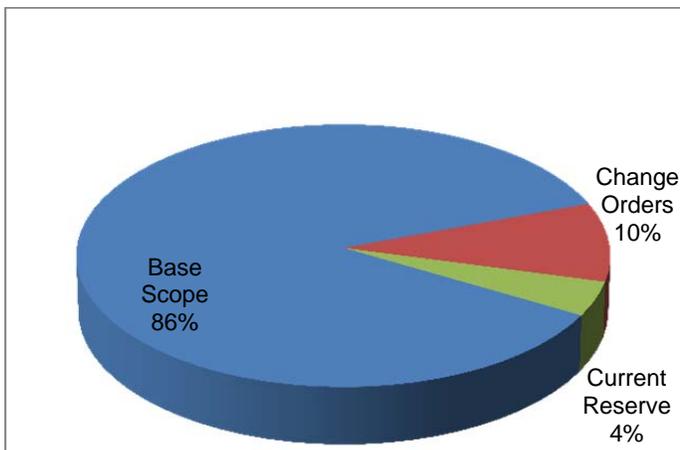
- Weather, tides or other natural events that delay pontoons needed for the FB&L project.
- Production and quality issues that further delay pontoons needed for the FB&L project.
- Inflation costs for labor, materials and equipment.
- New requirements or contract changes required by local communities, regulatory groups or agencies.
- Pontoon moorage is not available as needed.
- Pontoon joining complications.

### UPCOMING MILESTONES

- **Pontoons:** Crews will clean the casting basin, perform surveys, repair bond breaker and start setting exterior walls for Cycle 6 pontoons.
- **Eastside Transit and HOV:** At Evergreen Point Road and Fairweather Bay, crews will work on finishing all work for turnover to the FB&L contractor. At 84th, 92<sup>nd</sup>, Bellevue Way and 108th avenues, crews are working toward a Dec. 31, 2014, target for substantial completion.
- **Floating Bridge and Landings:** At CTC, crews will look to complete Cycle 4 supplemental pontoons (the last of six cycles) in November. At Medina, toll gantries 1 and 2 will be delivered and assembled. On Lake Washington, crews will continue joining supplemental and longitudinal pontoons. At the Kenmore site, crews will continue to precast deck panels.
- **WABN:** The contractor will begin demolishing the never-completed R.H. Thomson Expressway “Ramps to Nowhere” and the former Museum of History and Industry building, and begin building the work bridge at Foster Island.

### Total Program

	Total Budget	Actuals to Date	Remaining
<b>SR520 Program Totals</b>	<b>\$4,299,210,704</b>	<b>\$1,955,343,535</b>	<b>\$2,343,867,169</b>
<b>Funded Program</b>	<b>\$2,895,210,704</b>	<b>\$1,955,343,535</b>	<b>\$939,867,169</b>
<b>Federal</b>	<b>\$498,134,693</b>	<b>\$138,922,908</b>	<b>\$359,211,785</b>
FEDERAL GRANT FUNDS	\$3,000,000	\$3,000,000	\$0
FEDERAL FORMULA FUNDS	\$179,952,810	\$110,741,025	\$69,211,785
HIGHWAY SAFETY IMPROVEMENT	\$14,015,000	\$14,015,000	\$0
OUTDOOR ADVERTISING-INTERSTATE	\$855,000	\$855,000	\$0
STATE MATCHING (FUND 880)	\$311,883	\$311,883	\$0
TIFIA (USDOT - TIFIA LOAN)	\$300,000,000	\$10,000,000	\$290,000,000
<b>Local</b>	<b>\$2,303,701</b>	<b>\$1,224,678</b>	<b>\$1,079,023</b>
LOCAL PROJECT(CURRENT)	\$2,303,701	\$1,224,678	\$1,079,023
<b>State</b>	<b>\$2,235,372,310</b>	<b>\$1,815,195,948</b>	<b>\$420,176,362</b>
TRANSPORTATION PARTNERSHIP ACCOUNT (TPA)	\$525,890,609	\$364,010,990	\$161,879,619
NICKEL ACCOUNT STATE DOLLARS	\$52,243,840	\$52,243,840	\$0
SR520 CORRIDOR	\$549,032,022	\$549,032,022	\$0
SR520 GARVEE	\$924,454,490	\$818,845,442	\$105,609,048
SR520 TRIPLE BACKED BOND SECOND SALE	\$110,906,800	\$0	\$110,906,800
SR520 TOLL REVENUE	\$70,271,057	\$28,490,163	\$41,780,894
STATE FUNDS	\$2,573,492	\$2,573,492	\$0
<b>Deferred Sales Tax</b>	<b>\$159,400,000</b>		<b>\$159,400,000</b>
DEFERRED SALES TAX	\$159,400,000		\$159,400,000
<b>Unfunded Program</b>	<b>\$1,404,000,000</b>		<b>\$1,404,000,000</b>
I-5 TO THE FLOATING BRIDGE	\$1,404,000,000		\$1,404,000,000



Cumulative Reserve	\$403,500,000
Change Orders - Sept.	\$66,002
Previous Change Orders	(\$281,036,632.00)
<b>Current Reserve*</b>	<b>\$122,529,370</b>

*\*The current reserve number does not reflect pending or potential change orders.*

## Pontoon Construction Project

### ABERDEEN PONTOONS OVERVIEW

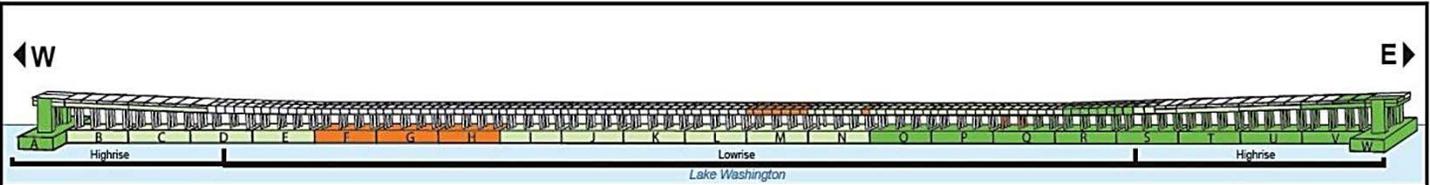
The Washington State Department of Transportation is continuing pontoon construction to replace the aging and vulnerable SR 520 floating bridge on Lake Washington. The Pontoon Construction Project broke ground in July 2011 at a 55-acre site in Aberdeen. As part of this project, contractor Kiewit-General (K-G) Joint Venture built a new casting basin facility and is constructing 33 concrete pontoons that will be used to replace the SR 520 floating bridge.



Pontoon K: Concrete pumping for interior door pour-backs

Original Engineers Estimate	\$600,000,006
Bid Price	\$367,330,000
Change Orders to date	\$81,855,340
<b>Current Contract Value</b>	<b>\$449,185,340</b>

Pontoon tracking on Lake Washington, 9/30/14

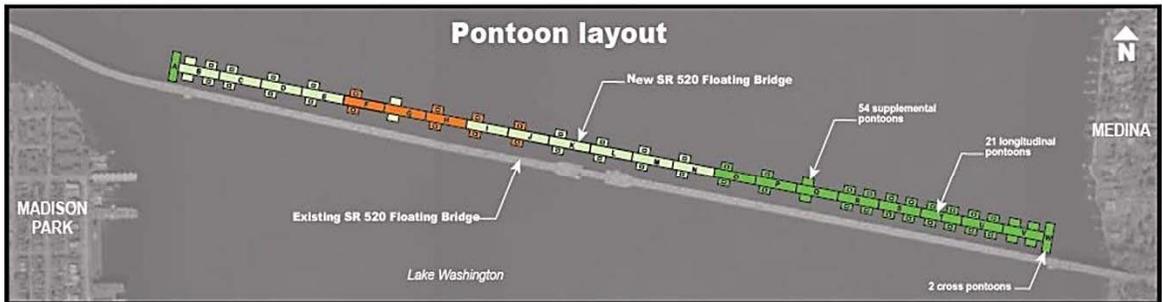


**GRAPHIC KEY AND FACTS**

- 776 low-rise roadway deck sections
- 23 high-rise roadway deck spans
- 331 girders
- 772 columns
- 21 longitudinal pontoons + 2 cross pontoons

Legend:

- In Final Location
- Construction Complete
- Under Construction
- Future Construction

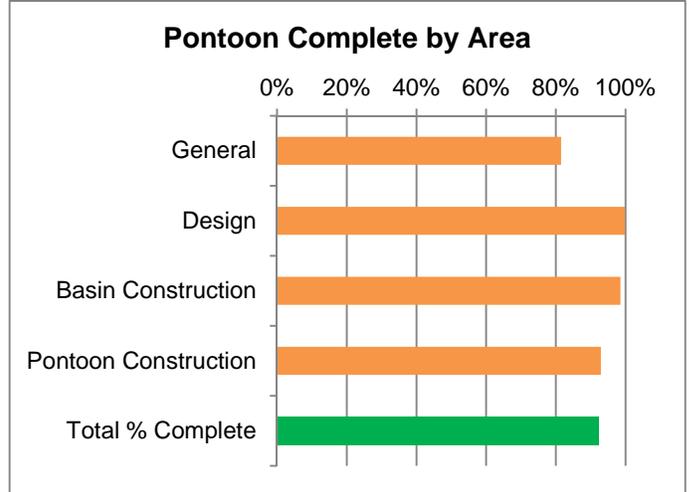


- Low-rise roadway deck includes pre-cast deck panels being constructed in Kenmore.
  - 290 out of 776 pre-cast deck panels have been constructed. 76 of 776 have been placed.
- High-rise roadway deck includes girders and cast-in-place deck.
  - 4 out of 23 cast-in-place deck spans have been constructed.
  - 224 out of 331 girders have been constructed. 91 of 331 have been placed.
- The number of columns shown is a representation of the total number of columns.
  - 203 out of 772 columns have been constructed.
- Current number of pontoons on Lake Washington: 66
- Total number of pontoons constructed to date: 66
- Pontoons currently under construction: 11

Note: not to scale, for illustrative purposes only

**SEPTEMBER ACCOMPLISHMENTS**

Final staging prep and float-out was completed for Cycle 5 Pontoons.



**RISK**

- Changes to design, materials or construction methods
- Materials price escalation
- Weather impacts
- Tidal or tribal fishing season restrictions on float-out



*Cycle 5: Pontoons ready for float-out*

### SEPTEMBER COSTS

Preliminary engineering is complete. The right of way budget is complete. The total actual cost to date from the contractor is 90 percent of the budget.

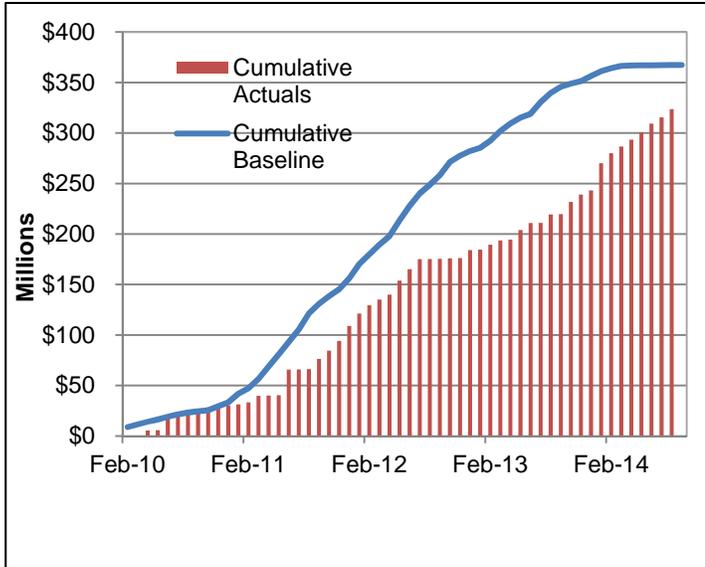
	Current Budget	Actuals to Date	Remaining Budget
<b>Pontoon Construction Project Totals</b>	<b>\$511,604,014</b>	<b>\$480,365,467</b>	<b>\$31,238,546</b>
Preliminary Engineering	\$32,568,750	\$32,568,750	\$0
Right of Way	\$5,789,554	\$5,611,771	\$177,783
<b>Construction</b>	<b>\$473,245,710</b>	<b>\$442,184,946</b>	<b>\$31,060,763</b>
<i>Current Contract Value</i>	\$449,185,340	\$424,609,622	\$24,575,718
<i>Agreements</i>	\$9,407,192	\$8,026,102	\$1,381,090
<i>Construction Engineering</i>	\$14,653,177	\$9,549,222	\$5,103,955
<i>State Force Work</i>	\$0	\$0	\$0
<i>State Materials</i>	\$0	\$0	\$0
<i>Vendor Supplied Materials</i>	\$0	\$0	\$0

Cost information through Sept. 30, 2014

### SEPTEMBER CHANGE ORDER SUMMARY

Ten (10) change orders were executed in September. All were zero cost. All PCP change orders total \$81,855,340.00 at the time of this report.

**SEPTEMBER PERFORMANCE**



The Schedule Performance Index (SPI) to date for the contractor is 1.1. This indicates the contractor is a little ahead of schedule due to change order 111's adjusted completion milestones.

Aberdeen: Preparing basin for planned flooding

**SUMMARY SCHEDULE**

The current contractor schedule shows project physical completion 97 days earlier than the contract date established in Change Order 111. The projected delivery dates for the remainder of the project are as follows:

Milestone	Contract Date	Actual/Trend
Notice to Proceed 1 - Design Initiated	2/18/2010	2/18/2010
Notice to Proceed 2 - Site Construction Start	1/10/2011	1/10/2011
Pontoon Cycle 2 Segment Complete	3/15/2013	5/4/2013
Pontoon Cycle 3 Segment Complete	10/10/13	10/10/2013
Pontoon Cycle 4 Segment Complete	4/28/2014	4/22/2014
Pontoon Cycle 5 Segment Complete	10/14/2014	9/30/2014
Pontoon Cycle 6 Segment Complete	4/14/2015	Early
Physical Completion	8/12/2015	Early
Final Completion	12/10/2015	Early

### SEPTEMBER QUALITY SUMMARY

“Audits – Actual” are audits performed by WSDOT Quality Verification staff on the design-builder’s compliance with contract requirements.

“Nonconformance Reports” are incidents recorded by the design-builder’s quality inspection staff that do not appear to be constructed in accordance with the approved drawings and specifications.

“Nonconformance Issues” are incidents recorded by WSDOT’s Quality Verification staff due to an audit finding based on their observance of the work.

	Previous Total	Current Period	Project Total	Open	Closed
Audits - Actual	1177	3	1180	2	1178

	Previous Total	Open	Current Period	Avg. Time Open
Nonconformance Reports (NCR)	757	23	6	289 days
Nonconformance Issues (NCI)	179	22	2	38 days

### SEPTEMBER SAFETY SUMMARY

“Recordable Incidents” are job-related safety incidents that have been recorded.

“Lost Time Incidents” are job-related safety incidents that result in personnel not being able to work.

“Contract Days without an Incident” are the number of days since a lost-time incident has occurred.

Design-Builder	Previous Total	Current Period	Project Total
Recordable Incidents	13	0	13
Lost Time Incidents	1	0	1
Contract Days without an Incident	28	30	58

No recordable incidents occurred in September.

### SEPTEMBER ENVIRONMENTAL SUMMARY

“Noncompliance Event (ECAP)” is an action not in compliance with environmental standards, permits or laws.

“Minor Environmental Event” is an environmental impact that does not meet the requirements to become an ECAP.

	Previous Total	Current Period	Project Total
Noncompliance Event (ECAP)	42	1	43
Minor Environmental Event	27	1	28

On 8/29 an ECAP Event was identified. Fish removal from August 20th-24th resulted in appx. 80,000 fish released from Ponds 1 and 3 into the launch channel with appx. 4,000 fatalities. Most fish were sticklebacks. Five other species (~65 fish) were identified: starry flounder, stag horn sculpin, pipe fish, saddleback gunnel, and shiner perch. WDFW’s Area Habitat Biologist visited the site and discussed the path forward. KG will resume draining pond cells and moving fish if found in significant numbers

On 8/9/14 a Minor Event occurred. K-G Observed and photographed spilled concrete slurry from Eco-Pans on west access road. It appeared a forklift driver had driven right through slurry to the north. Informed Norma, and ~ 2 hrs later K-G’s Matt Dicrescentis said the spilled material would be cleaned up. Shared photographs with Norma at ETF Meeting, and expressed concerns.

## Eastside Transit and HOV

### EASTSIDE OVERVIEW

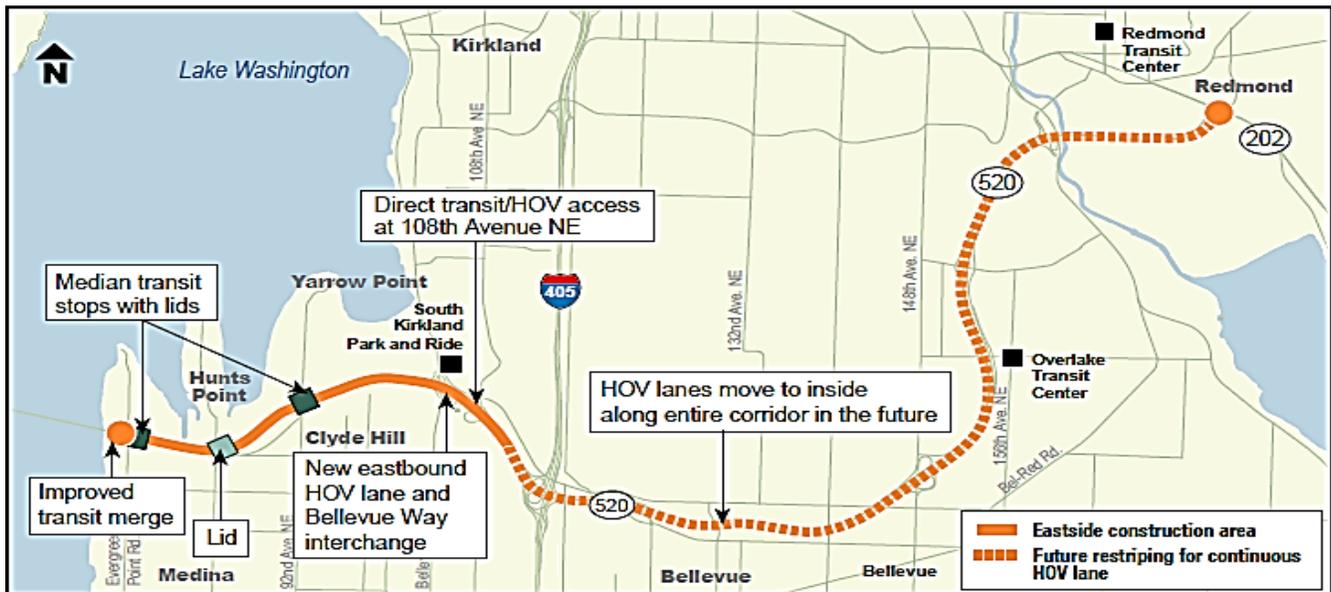
The Eastside Transit and HOV Project will complete and improve the 2.5-mile HOV system from Evergreen Point Road to the I-405 interchange. The improved six-lane corridor will include two general-purpose lanes and one transit/HOV lane in each direction, as well as two new transit station facilities, three community-connecting lids, and eight new fish-passage culverts.

Original Engineers Estimate	422,064,082
Bid Price	306,278,000
Change Orders to date	\$30,354,052
<b>Current Contract Value</b>	<b>\$336,632,052</b>



Bellevue Way Bridge (facing north)

Eastside Project Area Map



**SEPTEMBER ACCOMPLISHMENTS**

Evergreen Point Road: Grading, prep and landscaping work was done in front of noise wall 5C on the south side of SR 520. Crews applied sealer to platform and stairs at the new transit station.

92nd Avenue Northeast: Crews landscaped behind wall 4B-01 along the south side of SR 520. Crews also continued work on lid finishes, waterproofing and installation of bollards at the plaza. Finish work continued at the roundabout.

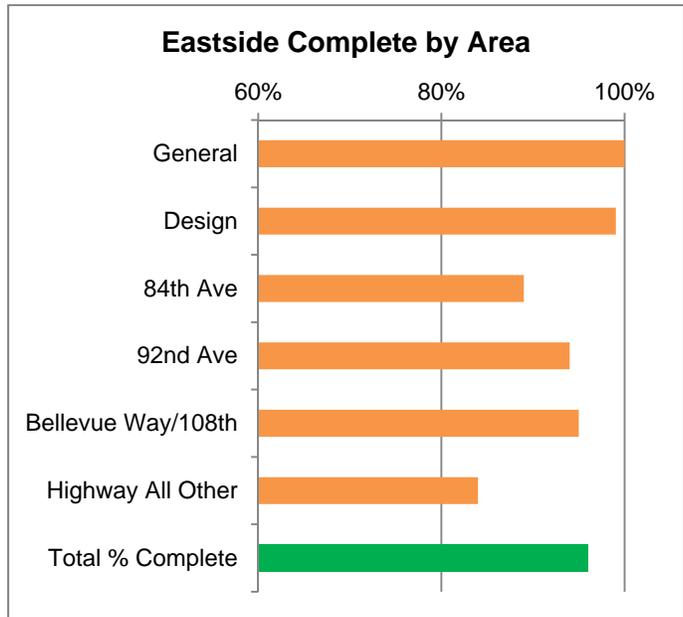
84th Avenue Northeast: Crews continued working on lid finishes, installing landscape plants and an irrigation system. Stairs were formed and poured near wall 3-18 on the north side of SR 520.

Bellevue Way: Crews continued landscaping and installed a fence around pond E3. At the Bellevue Way pedestrian tunnel, crews completed the tunnel's slab.

108th Avenue Northeast: Crews continued work on the stream and culvert within the Yarrow Creek area. At the 108th and Northrup Way intersection with 112th Avenue Northeast, crews paved and striped 108th as well as landscaped from culvert G to H.

**RISK**

- Completion of remaining Evergreen Point Area 2 work
- Reach substantial completion on all project work before end of the year



92nd Avenue Northeast lid's plaza area (facing south)

### SEPTEMBER COSTS

Preliminary engineering is complete. The right of way budget is 85 percent complete. The total actual cost to date from the contractor is 96 percent of the budget.

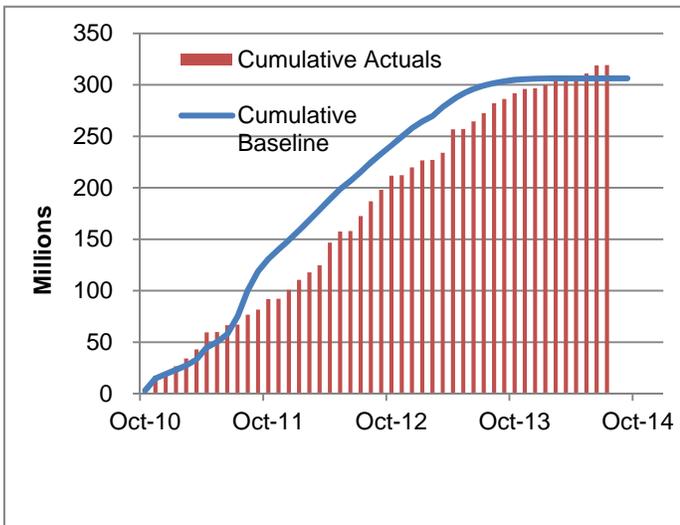
	Current Budget	Actuals to Date	Remaining Budget
<b>Eastside Construction Project Totals</b>	<b>\$428,232,846</b>	<b>\$411,799,357</b>	<b>\$16,433,489</b>
<b>Preliminary Engineering</b>	<b>\$31,694,510</b>	<b>\$31,694,510</b>	<b>\$0</b>
<b>Right of Way</b>	<b>\$31,879,512</b>	<b>\$27,180,846</b>	<b>\$4,698,666</b>
<b>Construction</b>	<b>\$364,658,824</b>	<b>\$352,924,001</b>	<b>\$11,734,823.25</b>
<i>Current Contract Value</i>	<i>\$336,644,150</i>	<i>\$327,825,253</i>	<i>\$8,818,897</i>
<i>Agreements</i>	<i>\$12,299,552</i>	<i>\$10,182,297</i>	<i>\$2,117,255</i>
<i>Construction Engineering</i>	<i>\$13,306,410</i>	<i>\$12,516,405</i>	<i>\$790,005</i>
<i>State Force Work</i>	<i>\$372,626</i>	<i>\$369,460</i>	<i>\$3,166</i>
<i>State Materials</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>
<i>Vendor Supplied Materials</i>	<i>\$2,036,087</i>	<i>\$2,030,587</i>	<i>\$5,500</i>

Cost information through Sept. 30, 2014

### SEPTEMBER CHANGE ORDER SUMMARY

Eastside project executed change orders total \$30,354,052.00 at the time of this report. There was one zero-cost change order in September.

### SEPTEMBER PERFORMANCE



The Schedule Performance Index (SPI) to date for the contractor is .88 on the current budget value. This signifies the contractor is behind schedule for substantial completion.



Eastside: Finishing wall 4B-01

### SUMMARY SCHEDULE

The current contractor schedule estimates construction completion in fall 2014. This forecasted completion date is part of the ongoing discussions between WSDOT and ECC. Contract milestones will be adjusted when WSDOT and ECC reach a settlement to the wall 4B-24 geotechnical design claim.

Milestone	Contract Date	Actual/Trend
Notice to Proceed		12/1/2010
East Approach & Maintenance Facility Area Work Completion	3/30/2012	3/30/2012
Evergreen Point Area Phase I Work Completion	7/28/2013	Late
Evergreen Point Area Phase II Work Completion	11/1/2013	Late
Construction Substantial Completion	12/31/2013	Late
Construction Physical Completion	3/20/2014	Late

### SEPTEMBER QUALITY SUMMARY

“Audits – Actual” are audits performed by WSDOT Quality Verification staff on the design-builder’s compliance with contract requirements.

“Nonconformance Reports” are incidents recorded by the design-builder’s quality inspection staff that do not appear to be constructed in accordance with the approved drawings and specifications.

“Nonconformance Issues” are incidents recorded by WSDOT’s Quality Verification staff due to an audit finding based on their observance of the work.

No major concerns with NCIs for September 2014 were identified.

	Previous Total	Current Period	Project Total	Open	Closed
Audits - Actual	3018	2	3020	41	2979

	Previous Total	Open	Current Period	Avg. Time Open
Nonconformance Reports (NCR)	573	53	6	172 days
Nonconformance Issues (NCI)	306	41	3	295 days

### SEPTEMBER SAFETY SUMMARY

“Recordable Incidents” are job-related safety incidents that have been recorded.

“Lost Time Incidents” are job-related safety incidents that result in personnel not being able to work.

“Contract Days without an Incident” are the number of days since a lost-time incident has occurred.

Design-Builder	Previous Total	Current Period	Project Total
Recordable Incidents	13	0	13
Lost Time Incidents	0	0	0
Contract Days without an Incident	15	30	45

No safety incidents occurred in September 2014.

### SEPTEMBER ENVIRONMENTAL SUMMARY

“Noncompliance Event (ECAP)” is an action not in compliance with environmental standards, permits or laws.

“Minor Environmental Event” is an environmental impact that does not meet the requirements to become an ECAP.

	Previous Total	Current Period	Project Total
Noncompliance Event (ECAP)	70	2	72
Minor Environmental Event	212	0	212

9/2 - Noncompliance Event - A small amount of motor oil spilled inside fish passage structure H. Per our Water Quality Monitoring and Protection Plan, the spill was reported to regulatory agencies. The impacted stream bed gravel was removed and replaced with clean gravel.

9/26 - Noncompliance Event - Turbid storm water entered. Yarrow Creek near the maintenance office. This was out of compliance with the permit, which is owned by the contractor, Eastside Corridor Constructors.

## Floating Bridge and Landings Project

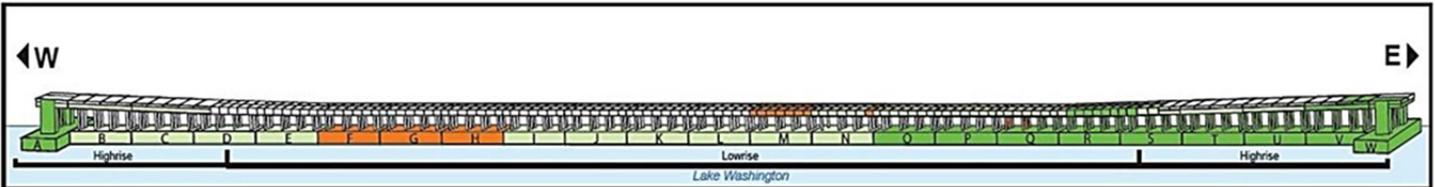
### FLOATING BRIDGE AND LANDINGS

The SR 520 Floating Bridge and Landings (FB&L) Project will replace the existing, vulnerable four-lane structure with a new six-lane bridge that can withstand windstorms of up to 89 mph. The new six-lane facility will include a bicycle/pedestrian path and a bridge maintenance facility on the east end. The project includes construction of 44 supplemental stability pontoons in Tacoma.



FB&L: Pontoon V crossbeam pour

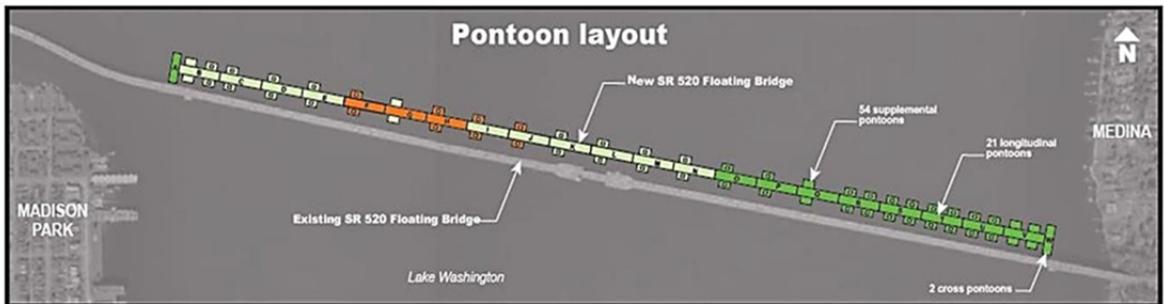
Original Engineers Estimate	\$640,769,000
Bid Price	\$586,561,000
Change Orders to date	\$165,998,101
<b>Current Contract Value</b>	<b>\$752,559,101</b>



**GRAPHIC KEY AND FACTS**

- 776 low-rise roadway deck sections
- 23 high-rise roadway deck spans
- 331 girders
- 772 columns
- 21 longitudinal pontoons + 2 cross pontoons

■ In Final Location  
■ Construction Complete  
■ Under Construction  
 Future Construction



- Low-rise roadway deck includes pre-cast deck panels being constructed in Kenmore.
- 290 out of 776 pre-cast deck panels have been constructed. 76 of 776 have been placed.
- High-rise roadway deck includes girders and cast-in-place deck.
- 4 out of 23 cast-in-place deck spans have been constructed.
  - 224 out of 331 girders have been constructed. 91 of 331 have been placed.
- The number of columns shown is a representation of the total number of columns.
- 203 out of 772 columns have been constructed.
- Current number of pontoons on Lake Washington: 66
  - Total number of pontoons constructed to date: 66
  - Pontoons currently under construction: 11

Note: not to scale, for illustrative purposes only

Floating bridge area map

**SEPTEMBER ACCOMPLISHMENTS**

Concrete Technology Corp. (CTC) in Tacoma: Crews continued work on Cycle 4 (6th of 6 cycles, the last cycle of pontoons that will be constructed at CTC).

Floating Bridge: Crews continued joining operations for both supplemental and longitudinal pontoons. Crews on the floating bridge continued with high-rise and low-rise columns, cross beams and precast girders. Crews also continued installation of precast roadway deck panels on the floating bridge.

East Approach Bridge: Crews continued to construct westbound span deck reinforcement steel from Pier 2. Crews backfilled Pier 1 footings.

Medina Area: Crews continued to build out maintenance facility walls and floors. Crews also installed HVAC ducts, sprinkler pipe, electrical and plumbing at the maintenance facility’s mezzanine level and shop levels.

Kenmore: Crews are continuing to build precast deck panels for the low-rise superstructure.

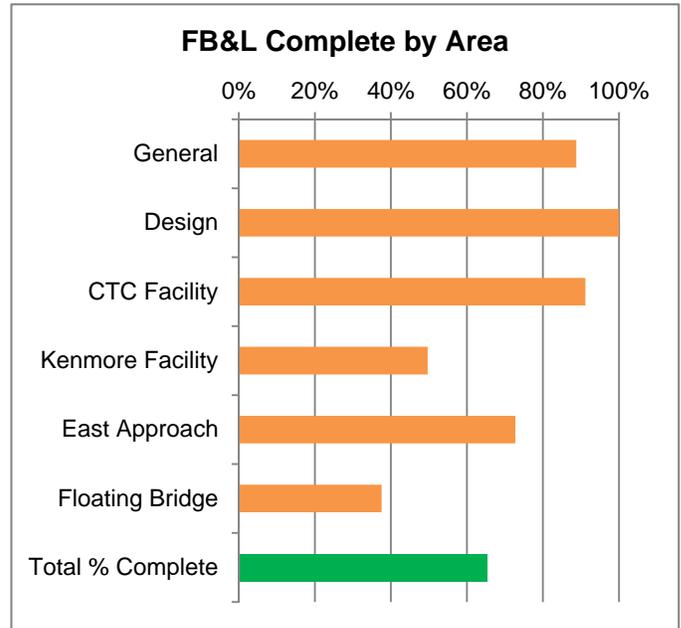
**RISK**

There have been environmental concerns regarding project use of the Kenmore site. WSDOT is monitoring the situation.

Bolt-hole alignment will continue to be a risk to joining as pontoons are brought into the joining sequence and the alignment of the bolt holes is known.

Because of the interface between two contracts (Floating Bridge and Landings, and Eastside Transit and HOV), there are continued concerns with the coordination of the overlapping areas of work in the vicinity of Evergreen Point Road.

The West Approach Bridge North (WABN) contract was awarded in July 2014 and work has commenced. Coordination is required between contractors and WSDOT project offices.



FB&L: Low-rise column pour

### SEPTEMBER COSTS

Preliminary engineering is complete. The right of way budget is complete. The total actual cost to date from the contractor is 67 percent of the budget.

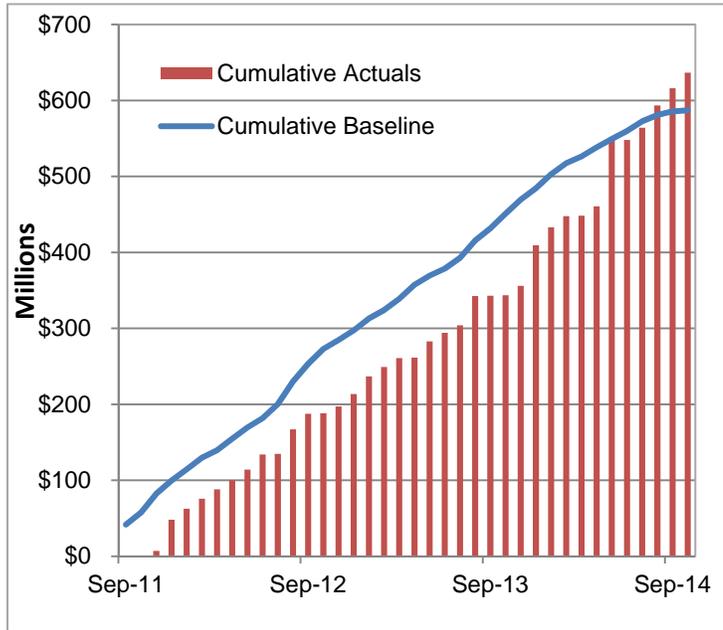
	Current Budget	Actuals to Date	Remaining Budget
<b>Floating Bridge and Landings Construction Project Totals</b>	<b>\$836,272,498</b>	<b>\$589,288,924</b>	<b>\$246,983,574</b>
<b>Preliminary Engineering</b>	<b>\$10,659,063</b>	<b>\$10,659,063</b>	<b>\$0</b>
<b>Right of Way</b>	<b>\$4,893,334</b>	<b>\$3,360,743</b>	<b>\$1,532,591</b>
<b>Construction</b>	<b>\$820,720,101</b>	<b>\$575,269,118</b>	<b>\$245,450,983</b>
<i>Current Contract Value</i>	<i>\$752,559,101</i>	<i>\$525,070,407</i>	<i>\$227,488,694</i>
<i>Agreements</i>	<i>\$35,886,860</i>	<i>\$29,622,873</i>	<i>\$6,263,987</i>
<i>Construction Engineering</i>	<i>\$21,534,140</i>	<i>\$13,868,351</i>	<i>\$7,665,789</i>
<i>State Force Work</i>	<i>\$60,000</i>	<i>\$2,629</i>	<i>\$57,371</i>
<i>State Materials</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>
<i>Vendor Supplied Materials</i>	<i>\$10,680,000</i>	<i>\$6,704,857</i>	<i>\$3,975,143</i>

Cost information through Sept. 30, 2014

### SEPTEMBER CHANGE ORDER SUMMARY

Seven (7) change orders were executed in September for a total of \$55,429. Change orders total \$165,998,101.00 for the FB&L project at the time of this report.

**SEPTEMBER PERFORMANCE**



The Schedule Performance Index (SPI) is at 1.1 through September 2014. Contractor is ahead of contract dates.

FB&L: East approach looking west at Pier 1 and 2

**SUMMARY SCHEDULE**

The contractor’s current schedule submittal is showing on-time substantial completion by April 28, 2016, consistent with the revised contract date.

Milestone	Revised Contract Date	Actual/Trend
Notice to Proceed 1 - Design Initiated	9/1/2011	9/1/2011
Notice to Proceed 2 - Site Construction Start	9/1/2011	9/1/2011
Pier 36 Construction	11/15/13	8/23/2013
Substantial Completion	4/28/2016	On Time
Physical Completion	2/22/2017	Early

### SEPTEMBER QUALITY SUMMARY

“**Audits – Actual**” are audits performed by WSDOT Quality Verification staff on the design-builder’s compliance with contract requirements.

“**Nonconformance Reports**” are incidents recorded by the design-builder’s quality inspection staff that do not appear to be constructed in accordance with the approved drawings and specifications.

“**Nonconformance Issues**” are incidents recorded by WSDOT’s Quality Verification staff due to an audit finding based on their observance of the work.

	Previous Total	Current Period	Project Total	Open	Closed
Audits - Actual	2193	171	2364	25	2339

	Previous Total	Open	Current Period	Avg. Time Open
Nonconformance Reports (NCR)	269	58	10	233 days
Nonconformance Issues (NCI)	576	37	20	112 days

### SEPTEMBER SAFETY SUMMARY

“**Recordable Incidents**” are job-related safety incidents that have been recorded.

“**Lost Time Incidents**” are job-related safety incidents that result in personnel not being able to work.

Design-Builder	Previous Total	Current Period	Project Total
Recordable Incidents	26	1	27
Lost Time Incidents	1	0	1
Contract Days without an Incident	54	19	19

On 9/1/14, a Recordable Incident – At CTC, a worker disassembling a stair tower was loosening a connection bracket with a hammer. The worker swung the hammer, which glanced off a bracket, striking the worker in the face. The worker lost two teeth.

### SEPTEMBER ENVIRONMENTAL SUMMARY

“**Noncompliance Event (ECAP)**” is an action not in compliance with environmental standards, permits or laws.

“**Minor Environmental Event**” is an environmental impact that does not meet the requirements to become an ECAP.

	Previous Total	Current Period	Project Total
Noncompliance Event (ECAP)	32	0	32
Minor Environmental Event	35	1	36

On 9/22, a Minor Environmental Event – At an Eastside parking / construction staging area, a forklift being used to move a hydraulic pump hit a bump causing the pump to fall onto the ground, shearing the bolts on the fuel tank. Approximately 15 gallons of hydraulic fluid was discharged to asphalt and base course. The contaminated base course material was excavated and transported to CEMEX for disposal.

## West Connection Bridge

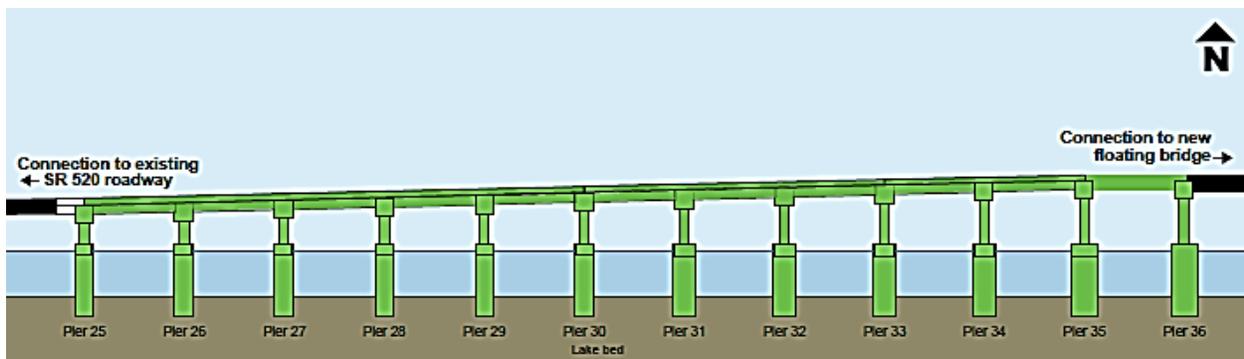
### CONSTRUCTION OVERVIEW

The West Connection Bridge (WCB) project builds an interim four-lane structure that connects the new SR 520 floating bridge to the existing west approach bridge.



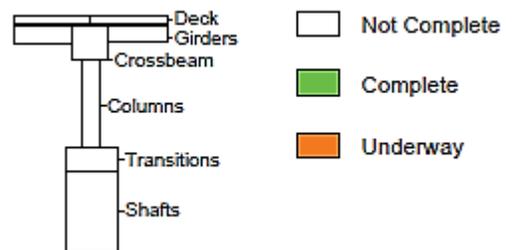
West Connection Bridge – Project Complete

Original Engineers Estimate	\$20,639,667
Bid Price	\$22,129,243
Change Orders to date	\$2,796,323
<b>Current Contract Value</b>	<b>\$24,938,566</b>



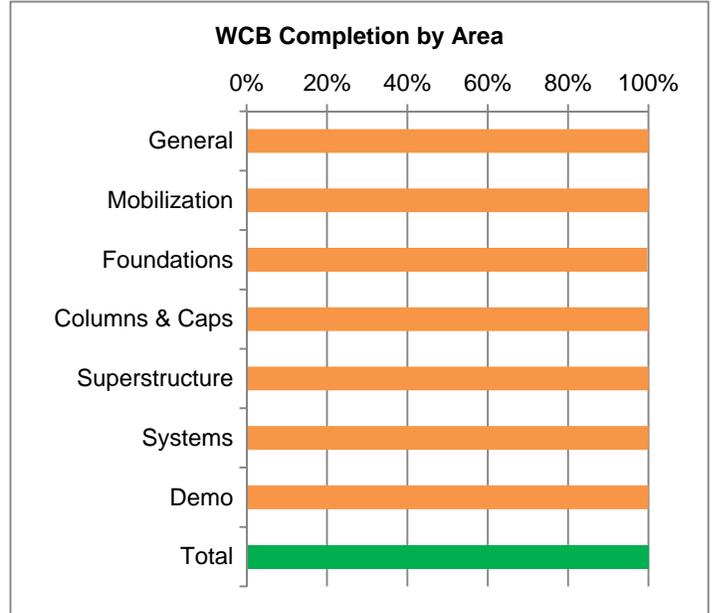
West Connection Bridge progress tracker, as of September 16, 2014

#### Legend



### SEPTEMBER ACCOMPLISHMENTS

The Contractor achieved Physical Completion on September 16, 2014. All work was completed and equipment demobilized.



### RISK

No risks remain.



*West Connection Bridge – Project Complete*

### SEPTEMBER COSTS

The Preliminary and Construction phases are complete. Minimal remaining expenditures are expected to cover final project documentation and closeout.

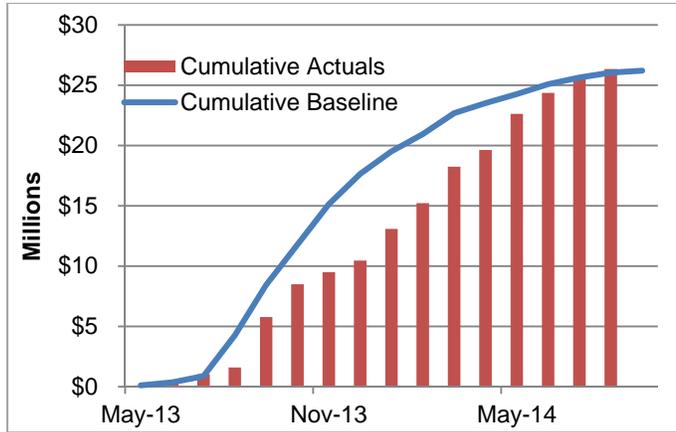
	Current Budget	Actuals to Date	Remaining Budget
<b>West Connection Bridge Project Totals</b>	<b>\$33,505,555</b>	<b>\$28,436,921</b>	<b>\$5,068,634</b>
<b>Preliminary Engineering</b>	<b>\$4,473,040</b>	<b>\$4,823,351</b>	<b>\$0</b>
<b>Construction</b>	<b>\$27,945,553</b>	<b>\$27,082,404</b>	<b>\$469,564</b>
<i>Current Contract Value</i>	\$24,723,993	\$24,330,408	\$0
<i>Agreements</i>	\$665,000	\$654,055	\$10,945
<i>Construction Engineering</i>	\$2,556,560	\$2,097,941	\$458,619
<i>State Force Work</i>	\$0	\$0	\$0
<i>State Materials</i>	\$0	\$0	\$0
<i>Vendor Supplied Materials</i>	\$0	\$0	\$0

Cost information through September 30, 2014

### SEPTEMBER CHANGE ORDER SUMMARY

There was one final “Clear All” change order processed in September for \$161,000. In sum, there were 21 change orders adding \$2,796,323 to the contract value.

**SEPTEMBER PERFORMANCE**



West Connection Bridge - complete

**SUMMARY SCHEDULE**

The Contractor achieved physical completion on September 16, 2014.

Milestone	Contract Date	Actual/Trend
First Charged Working Day	6/17/2014	6/17/2014
Pier 36 - Area 1A & 1B Available To M-A	11/16/2014	11/16/2014
Pier 36 - Area 1B All Work Complete	5/14/2014	5/10/14
Pier 36 - Area 1B Turnover to FB&L	5/15/2014	5/15/14
Pier 36 - Area 1A All Work Complete	7/31/2014	7/31/14
Pier 36 - Area 1A Turnover to FB&L	8/1/2014	8/1/14
End of Contract Working Days	8/11/2014	9/16/14
Physical Completion	8/29/2014	9/16/14

### SEPTEMBER SAFETY SUMMARY

“**Recordable Incidents**” are job-related safety incidents that have been recorded.

“**Lost Time Incidents**” are job-related safety incidents that result in personnel not being able to work.

Design-Builder	Previous Total	Current Period	Project Total
Recordable Incidents	13	0	13
Lost Time Incidents	0	0	0
Contract Days without an Incident	14	31	45

There were no recordable incidents in September 2014.

### SEPTEMBER ENVIRONMENTAL SUMMARY

	Previous Total	Current Period	Project Total
Noncompliance Event (ECAP)	13	0	13
Minor Environmental Event	0	0	0

There were no environmental issues in September 2014.

## West Approach Bridge North

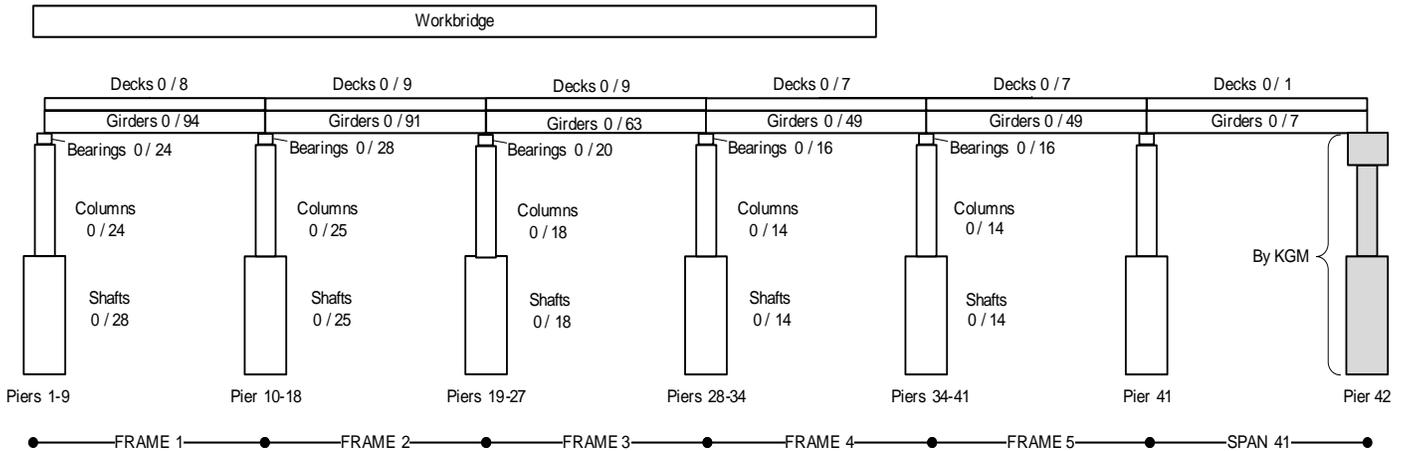
### CONSTRUCTION OVERVIEW

The West Approach Bridge North Project (WABN), the first stage of western landings for the new SR 520 floating bridge, continues WSDOT's commitment to replace vulnerable structures and improve mobility for motorists. The new approach bridge, more than 6,000 feet long, will support a six-lane highway corridor and a regional shared-use path for cyclists and pedestrians between Redmond and Montlake. The WABN project will also greatly benefit the local built and natural environment by improving stormwater treatment, employing noise reduction measures, mitigating for wetland and aquatic impacts, and improving the Arboretum and local parks.



Preparing crane and flexi-floats for ramp demolition

Original Engineers Estimate	\$209,905,586
Bid Price	\$199,537,371
Change Orders to date	\$0
<b>Current Contract Value</b>	<b>\$199,537,371</b>



West Approach Bridge North progress tracker, as of Sept. 30, 2014

### SEPTEMBER ACCOMPLISHMENTS

The contract was awarded to Flatiron West Inc. on July 23, 2014, and executed on Aug. 23. The first charged working day occurred on Sept. 11 and the contractor began preliminary work on site on Sept. 16.

### SEPTEMBER COSTS

The preliminary engineering and right of way phases are nearly complete; final costs are being recorded. There have been no payments made to the contractor through September 2014.

	Current Budget	Actuals to Date	Remaining Budget
<b>West Approach Bridge North Project Totals</b>	<b>\$239,233,747</b>	<b>\$13,710,930</b>	<b>\$225,522,817</b>
<b>Preliminary Engineering</b>	<b>\$17,899,998</b>	<b>\$13,355,654</b>	<b>\$4,544,344</b>
<b>Right of Way</b>	<b>\$5,000,000</b>	<b>\$3,904,446</b>	<b>\$1,095,554</b>
<b>Construction</b>	<b>\$221,333,749</b>	<b>\$355,276</b>	<b>\$220,978,473</b>
<i>Current Contract Value</i>	\$199,537,371	\$0	\$199,537,371
<i>Agreements</i>	\$9,808,100	\$32,273	\$9,775,827
<i>Construction Engineering</i>	\$11,934,279	\$323,002	\$11,611,276
<i>State Force Work</i>	\$0	\$0	\$0
<i>State Materials</i>	\$0	\$0	\$0
<i>Vendor Supplied Materials</i>	\$54,000	\$0	\$54,000

*Cost information through Sept. 30, 2014*

### SEPTEMBER CHANGE ORDER SUMMARY

There have been no change orders executed to date.

### SUMMARY SCHEDULE

The preliminary 120-day schedule was submitted on Sept. 11. WSDOT reviewed the schedule and determined that it did not meet requirements. As a result, the schedule was returned to the contractor without approval.

Milestone	Contract Date	Actual/Trend
First Charged Working Day	9/11/2014	
Begin Access East of Pier 33	9/1/2015	9/1/2015
Begin Access to Floating Bridge	9/1/2016	9/1/2016
Bridge Open to Traffic	6/20/2017	6/20/2017
End of Working Days	11/3/2017	11/3/2017

### SEPTEMBER SAFETY SUMMARY

“**Recordable Incidents**” are job-related safety incidents that have been recorded.

“**Lost Time Incidents**” are job-related safety incidents that result in personnel not being able to work.

Contractor	Previous Total	Current Period	Project Total
Recordable Incidents	0	0	0
Lost Time Incidents	0	0	0
Contract Days without an Incident	0	0	0

There were no recordable incidents in September 2014.

### SEPTEMBER ENVIRONMENTAL SUMMARY

	Previous Total	Current Period	Project Total
Noncompliance Event (ECAP)	0	0	0
Minor Environmental Event	0	0	0

There were no environmental issues in September 2014.

### DBE/Apprenticeship/Training

#### DISADVANTAGE BUSINESS ENTERPRISE (DBE) PROGRAM *Information as of Sept. 30, 2014*

In 1982 the U.S. Congress established the Disadvantage Business Enterprise (DBE) program to ensure nondiscrimination in the award and administration of USDOT-assisted contracts; help remove barriers to the participation of DBEs in USDOT-assisted contracts; and assist the development of firms that can compete successfully in the marketplace outside of the DBE program. The table below is paid-to-date amounts as reported by SR 520 contractors through their quarterly reports for DBE participation amounts credited.

CONTRACT	CONTRACT REQUIRED DBE PERCENTAGE	TOTAL DBE PAID TO DATE 9/1/2014	TOTAL CONTRACT PAID TO DATE 9/1/2014	CURRENT DBE %
Contract 7826 (Pontoon)	6% (\$26,951,120)	\$25,328,369.73	\$416,147,611	7%
Contract 7963 (Eastside)	11% (\$37,030,856)	\$39,283,170.18	\$322,246,484.61	13%
Contract 8066 (FB&L)	7% (\$52,675,257)	\$16,383,672.99	\$507,271,049	3%
Contract 8288 (Evans Creek)	0% - not required	\$0	\$2,788,930.91	0%
Contract 8432 (WCB)	3% (\$663,877.30)	\$799,106.24	\$24,764,566	4%

#### APPRENTICESHIP

As required under RCW 39.04.300, WSDOT reports apprenticeship participation. Each SR 520 WSDOT contract requires 15 percent apprenticeship participation. These hours are reported by the contractor through the OEO Apprentice/Journeyman Reporting form.

CONTRACT	AS OF (9/31/2014)	APPRENTICE HOURS REPORTED	JOURNEYMAN HOURS REPORTED	APPRENTICE HOURS PERCENT
Contract 7826 (Pontoon)	9/1/2014	283,764	1,368,537	17.2%
Contract 7963 (Eastside)	9/1/2014	147,747	880,012	14.4%
Contract 8066 (FB&L)	9/1/2014	196,191	1,126,283	14.8%
Contract 8288 (Evans Creek)	9/1/2014	996	3,139	24.1%
Contract 8432 (WCB)	9/1/2014	18,231	78,076	18.9%

#### TRAINING

The Federal Highway Administration's On-the-Job Training (OJT) Program requires WSDOT to establish apprenticeship and training program targeted to advance women, minorities and disadvantaged individuals into journey-level positions.

CONTRACT	CONTRACT REQUIRED TRAINING HOURS	# OF APPROVED TRAINEE HOURS 9/1/2014	# OF TRAINEE HOURS ACHIEVED
Contract 7826* (Pontoon)	50,000	48,000	80,524
Contract 7963 (Eastside)	58,500	36,249	25,120**
Contract 8066 (FB&L)	74,600	37,450	67,256
Contract 8288 (Evans Creek)	0 – not required	0	0
Contract 8432 (WCB)	1,200	1,200	1,200

\*\* For Contract 7963, total hours reported are 36,249. However, 11,129 hours are excess laborer hours that can't be counted toward goal.

## Right of Way

### RIGHT OF WAY

WSDOT Real Estate Services performs and coordinates all real estate transactions for the SR 520 Program for activities covered by the Uniform Relocation Assistance and Real Property Acquisition Policies Act.

Area	Total Parcels	Fee Acquisition	Permanent Easements	Temporary Construction Easements	Limited Access	Temporary Construction Easement Renewals
Contract 7826 (Pontoon)	4	1 / 1	2 / 2	1 / 1	0 / 0	0 / 0
Contract 7863 (Eastside)	105	18 / 18	13 / 12	28 / 27	45 / 40	1 / 1
Contract 8066 (FB&L)	7	3 / 3	1 / 1	2 / 2	1 / 0	None
Contract 8288 (Evans Creek)	4	1 / 1	None	3 / 3	None	None
Contract 8432 (WCB)	3	None	1 / 1	1 / 1	1 / 0	None
<b>Totals</b>	123	23 / 23	17 / 16	35 / 34	47 / 40	1 / 1

Figures show need / remaining work. Information as of Sept. 30, 2014

## Drawbridge Openings

### FLOATING BRIDGE DRAWSPAN OPENINGS

Due to construction activities, the east navigation channel under the SR 520 east approach bridge is currently obstructed. The channel is cleared and opened to boaters during specific weekends and holidays. When the channel is open, it is operating with reduced clearance. Navigational clearances are higher on the east side of the channel, but obstructions north of the channel reduce the navigational height to 58 feet. Owners of vessels with masts or other aerial equipment more than 58 feet tall *and which cannot be lowered* may request a drawspan opening with two hours advance notice.

#### Total Openings since April 1, 2012

Weekday Daytime Opening	385
Weekday Nighttime Opening	32
Weekend Opening	184
<b>Totals</b>	601

## Communications and Outreach

(July 1, 2014 – Sept. 30, 2014)

### Constituent Correspondence:

#### Public email / phone calls

- 393 received
- 295 WSDOT responses (Note: lower response total reflects multiple email / calls to some constituents and holdover of some responses to following month)
- Prevalent themes:
  - ✓ Traffic impacts / closures
  - ✓ Program costs
  - ✓ Drawspan openings
  - ✓ WABN construction
  - ✓ Eastside construction
  - ✓ Future construction on west side

#### Twitter

- 165,000 impressions (# of times people viewed SR 520 tweets)
- Approx. 100 direct responses to requests for information

### SR 520 Program Email Updates

- 14 sent to the 10,000 plus subscribers within the SR 520 corridor
  - ✓ Represents more than 140,000 individual communiques
  - ✓ Email Update topics cover notable program activities, construction milestones, traffic restrictions, neighborhood impacts, etc.

### Media Outreach

- 16 news releases and media advisories
- 26 media interviews, briefings/tours

### Photos / Videos

- Shot and posted 70 program photos to the SR 520 Flickr collection
- Shot and posted three videos to YouTube

### Stakeholder Briefings / Tours / Presentations

- 11 project-site tours for elected officials and other stakeholders
- 16 briefings with local elected officials and organizations
- 4 briefings with state and federal elected officials and organizations
- 4 meetings / presentations with community groups

### Fairs and Festivals

- 256 people reached directly at the SR 520 booth during Redmond, Bellevue and Kirkland events in July and August
- 1,664 people reached during all 2014 fairs and festivals

### Communications Materials

- More than 30 new or updated products: program folios, fact sheets, presentations, fliers, display boards, graphics (print and Web), direct mail, etc.

### SR 520 Website Visits

- 219,174 views this period
- The most-visited pages, in order, were: Highway Closures; home page; Floating Bridge & Landings; and Eastside Transit & HOV



*Tugboats ease Pontoon K out of the Grays Harbor casting basin on Sept. 26 as crews complete the fifth of six construction cycles in Aberdeen*

## Jobs

### CONSTRUCTION UPDATE – SEPTEMBER 2014

Project	Total Jobs
Eastside Transit and HOV Project:	231
Floating Bridge and Landings Project:	664
Pontoon Construction Project:	340
West Approach Bridge North:	0

Jobs information includes current skilled construction trade counts for carpenters, concrete workers, crane operators, electricians, iron workers, laborers, machine operators, painters, truck drivers and welders based on project information provided by WSDOT contractors for Sept. 30, 2014.

**GLOSSARY – LIST OF FREQUENTLY-USED PROJECT AND INDUSTRY ACRONYMS**

ATM	Active Traffic Management
CCMP	Community Construction Management Plan
CIP	Cast-in-Place
CTC	Concrete Technology Corporation (SSP production site)
D-B	Design-Builder
DBIC	Design-Builder Initiated Change
Eastside	Eastside Transit and HOV Project
ECAP	Environmental Compliance Assurance Procedure
ECC	Eastside Corridor Constructors (Eastside Design-Builder)
ESA	Endangered Species Act
FB&L	Floating Bridge & Landings
FONSI	Finding of No Significant Impact
GH	Grays Harbor (Pontoon construction site)
HQ	WSDOT Headquarters
ITS	Intelligent Transportation System
K-G	Kiewit General, A Joint Venture (PCP Design-Builder)
KGM	Kiewit General Manson, A Joint Venture (FB&L Design-Builder)
M-A	Mowat American, A Joint Venture (WCB Contractor)
NCI	Non-Conformance Incident
NCR	Non-Conformance Report
NEPA	National Environmental Policy Act
NTP	Notice to Proceed
NWR	WSDOT Northwest Region
PCI	Potential Change Issue
PCO	Potential Change Order
PCP	Pontoon Construction Project
PT	Post-Tensioning
QA	Quality Assurance
QC	Quality Control
RFI	Request for Information
RFP	Request for Proposal
ROD	Record of Decision
SPI	Schedule Performance Index is a performance index which equals
SSP	Supplemental Stability Pontoon
TCE	Temporary Construction Easement
TIFIA	Transportation Infrastructure Finance and Innovation Act
WABN	West Approach Bridge North
WCB	West Connection Bridge
WSDOT	Washington State Department of Transportation

**For more information**

Visit: [www.wsdot.wa.gov/projects/SR520Bridge](http://www.wsdot.wa.gov/projects/SR520Bridge)  
E-mail: [SR520Bridge@wsdot.wa.gov](mailto:SR520Bridge@wsdot.wa.gov)  
Call: 1-888-520-NEWS (6397)  
Mail: Washington State Department of Transportation  
SR 520 Bridge Replacement and HOV Program  
999 3rd Avenue, Suite 900  
Seattle, WA 98104

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