

Build a Bridge tool

- Explains the components that create a bridge alternative, including:
 - rehabilitation/replacement
 - interchange type
 - alignment
 - cross-section
- Helps the public understand the pros and cons of each alternative, without bias

Build A Bridge

The Build a Bridge tool lets you piece together four required elements (rehabilitation and replacement options, the [interchange](#), the [alignment](#), and the [cross-section](#)) to form a bridge alternative. Technical experts [scored](#) all 124 alternatives against the [criteria](#) developed by the [Community Task Force](#) to represent the goals of the community.

Here is your chance to compare the performance of various alternatives on these criteria, and to understand the tradeoffs between alternatives. Build as many bridges as you like and they will be created. A few details of rehabilitation options (seismic upgrades and double-truss structures) are covered in this tool, but information is provided on the [alternative development](#) page.

The results of the survey (which closed on September 9) will be used along with comments and recommendations from the Community Task Force to narrow down alternatives to draft an [environmental impact statement](#) (draft EIS).

(hide text...)

Click on the rehab/replace link to begin using the Build a Bridge tool. After selecting one of the links, click the "Build a Bridge" button to see how your alternative scored. You can build as many bridges as you like by changing your selections. The results of all of the bridges that are displayed below until you visit another page on the website. You can compare how all the possible alternatives were ranked and scored [here](#). If you have any questions about using the tool, please contact us for [help](#).

[Rehab\Replace](#) [Interchange](#) [Alignment](#) [Cross Section](#)

Build A Bridge

Your Current Bridge

Category	Maximum Possible Score*	Your Bridge's Score**
Community Quality of Life	18.1	
Auto, Freight, Emergency Vehicles	16.1	
Bike & Pedestrian	14.6	
Mass Transit	11.3	
Natural Environment	8.1	
Aesthetics	8.0	
Construction	8.0	
Cost	7.1	
Seismic	6.0	
Material Use	2.7	
Total Score	100	

* The maximum score for each category was determined by the Community Task Force (CTF) and represents the relative importance of a category to the community goals.

** Values are rounded to the nearest hundredth (0.00) and may not add up to the exact total score. Total scores ranged from 72.97 to 42.84. It is possible that no alternative attained 100% of the maximum possible score within a given category.

Your Previous Bridges

Build A Bridge

(show text...)

Click on the rehab/replace link to begin using the Build a Bridge tool. After selecting one choice from each of the links, click the "Build a Bridge" button to see how your alternative scored. You can build as many bridges as you like by changing your selections. The results of all of the bridges that you build will be displayed below until you visit another page on the website. You can compare how all the possible alternatives were ranked and scored [here](#). If you have any questions about using the Build A Bridge tool, please contact us for [help](#).

[Rehab\Replace](#) [Interchange](#) [Alignment](#) [Cross Section](#)

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Your Previous Bridges

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Build A Bridge

Rehab/Replace

- Rehabilitate** existing bridge
- add detour bridge during construction
- Replace** with new bridge
- Combine** (rehabilitate existing bridge for bike/pedestrian use only and build new vehicle bridge)

Select

Close

Build A Bridge

[Cross Section](#)

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Community Quality of Life	18.1	
Auto, Freight, Emergency Vehicles	16.1	
Bike & Pedestrian	14.6	
Mass Transit	11.3	
Natural Environment	8.1	
Aesthetics	8.0	
Construction	8.0	
Cost	7.1	
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[Your Previous Bridges](#)

First choice to make:
Rehabilitation
or
replacement
bridge?

Build A Bridge

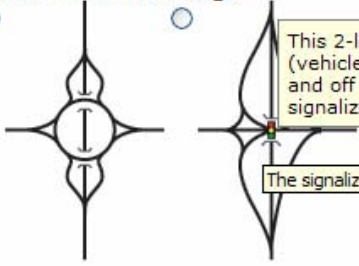
(show text...)

Click on the rehab/replace of the links, click the bridges as you like by displayed below until alternatives were ranked please contact us for

Rehab \ Replace

Rehabilitate existing or detour bridge

Westside Interchange



This 2-level interchange allows traffic (vehicles, bicyclists and pedestrians) to get on and off the bridge through a single traffic signalized intersection above Highway 43.

The signalized interchange

Roundabout Signalized

Select Close

Your Current Bridge

Category	Maximum Possible Score*	Your Bridge's Score**
Community Quality of Life	18.1	
Auto, Freight, Emergency Vehicles	16.1	
Bike & Pedestrian	14.6	
Mass Transit	11.3	
Natural Environment	8.1	
Aesthetics	8.0	
Construction	8.0	
Cost	7.1	
Seismic	6.0	
Material Use	2.7	
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Your Previous Bridges

Second choice to make: What interchange type to use?

Explanations of every graphic are available when the cursor is over the graphic.

Build A Bridge


(show text.)

Click on the
of the link
bridges as
displayed
alternativ
please co


Reha

Rehabilita
det


Alignment



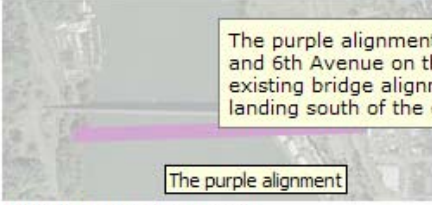
The **Teal** alignment.



The **Yellow** alignment.




The **Pink** alignment.



The **Purple** alignment.

The purple alignment begins at Tacoma S and 6th Avenue on the east, south of the existing bridge alignment with west bank landing south of the existing interchange.



The **Blue** alignment.

from each
as many
will be
sible
Bridge tool,

Third choice
to make:
Alignment

The first question
limits further
choices, for
example, rehab is
only available on
the yellow
(current)
alignment.

Cost	7.1
Seismic	6.0
Material Use	2.7
Total Score	100

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[Your Previous Bridges](#)

Build A Bridge

Last choice to make:
Cross-section

Graphic help to explain the differences and hovering over the image gives more information. Grayed out images are not available based on previous choices.

(show text)

Click on the line of the bridges displayed alternative please click


Rehab


Rehabilitate


from each
as many
will be
possible
Bridge tool,

on


Cross-Section Rehabilitation Options

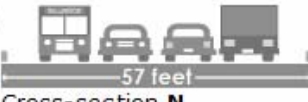
 Cross-section I.

 Cross-section A.


 Cross-section L.

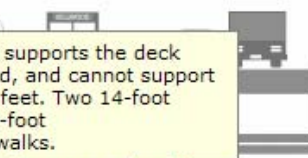
Rehab & Replace Options


 Cross-section M.


 Cross-section N.


Replacement Options

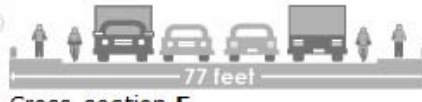
 Cross-section A'.

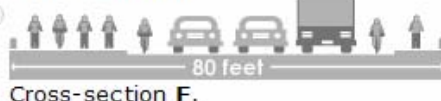
 Cross-section K.

 Cross-section C.

 Cross-section C'.

 Cross-section D.

 Cross-section E.

 Cross-section F.

The steel structure that supports the deck (truss) would be re-used, and cannot support anything wider than 53 feet. Two 14-foot travel lanes and two 10-foot bicycle/pedestrian sidewalks.

[Your Previous Bridges](#)

represents the

. Total scores -
ble score within a

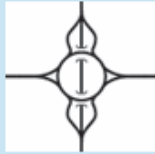
(show text...)

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Rehab\Replace

Rehabilitate existing with
detour bridge

Interchange



Alignment



Cross Section



Build A Bridge

Your Current Bridge

Relocations: 7 residences and **10 businesses** would need to be relocated for your bridge.

Cost: Your bridge's estimated 75-year lifecycle cost in 2012 dollars is **\$356,084,000**

Rank: Your bridge ranked **105 out of 124** (1 is the highest rank).

Category	Maximum Possible Score*	Your Bridge's Score**
Community Quality of Life	18.1	11.72
Auto, Freight, Emergency Vehicles	16.1	3.18
Bike & Pedestrian	14.6	5.47
Mass Transit	11.3	2.41
Natural Environment	8.1	7.07
Aesthetics	8.1 points based on impacts to the floodplain, fish species and habitat, terrestrial species, wildlife habitat, riparian areas and trees, recreational fishing, and air quality.	4.63
Construction		7.49
Cost		3.50
Seismic	6.0	1.51
Material Use	2.7	2.69
Total Score	100	49.68

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Your Previous Bridges

Results

After hitting the "Build a Bridge" button the current bridge results are shown. Relocations, cost, and rank, along with a score based on the categories selected (weighted by importance) by the community.

Hovering the cursor over the categories provides more information.

Impact with the public

- Used in conjunction with an online survey, the tool helped simplify the process
- Over 3,000 people took the online survey (open for just over one month)
- Well received by the public
- The process helped them compare the cost, rank, and score of the bridges
 - For many, preferences changed after using the tool and comparing multiple “bridges”