



# City of Tukwila Transportation and Infrastructure Committee

- ❖ Zak Idan, Chair
- ❖ Kate Kruller
- ❖ Thomas McLeod

<b>Distribution:</b> Z. Idan K. Kruller T. McLeod K. Hougardy D. Robertson Mayor Ekberg D. Cline R. Bianchi L. Humphrey H. Hash H. Ponnekanti G. Labanara	H. Kirkland B. Still R. Turpin A. Youn Clerk File Copy 2 Extra  Place pkt pdf on Z:\Trans & Infra Agendas  e-mail cover to: F. Ayala, A. Le, C. O'Flaherty, A. Youn, B. Saxton, S. Norris, L. Humphrey
---	---

Note:  
**Wednesday**

## AGENDA

**WEDNESDAY, SEPTEMBER 4, 2019 – 5:30 PM**  
**HAZELNUT CONFERENCE ROOM**  
(EAST ENTRANCE OF CITY HALL)

Item	Recommended Action	Page
<b>1. PRESENTATIONS</b>		
<b>2. BUSINESS AGENDA</b>		
a) Chinook Wind Washington State RCO Grant Acceptance	a) Forward to 9/16/19 Regular Consent Agenda	Pg. 1
b) S 141 <sup>st</sup> St RRFB Pedestrian Crossings Project Project Completion and Acceptance	b) Forward to 9/16/19 Regular Consent Agenda	Pg. 7
c) Annual Bridge Inspections & Repairs Bid Award for the S 196 <sup>th</sup> /200 <sup>th</sup> St Bridge Repair	c) Forward to 9/16/19 Regular Consent Agenda	Pg. 11
d) Annual Bridge Inspections and Repairs 2019 Presentation on the State of the City's Bridges	d) Information only.	Pg. 15
<b>3. SCATBd/RTC</b>		
<b>4. MISCELLANEOUS</b>		
e) • Public Safety Plan – Public Works Shops	e) Information only.	
f) • Neighborhood Traffic Calming Program	f) Information only.	
<b>5. ANNOUNCEMENTS</b>		
	<b>Future Agendas:</b>	
	• Reckless Driving	
	• BNSF Intermodal Access	
	• Street Operations	

**Next Scheduled Meeting: Tuesday, September 17, 2019**

The City of Tukwila strives to accommodate individuals with disabilities.  
Please contact the Public Works Department at **206-433-0179** for assistance.





## INFORMATIONAL MEMORANDUM

TO: **Transportation and Infrastructure Committee**  
 FROM: **Henry Hash, Public Works Director** *H.H.*  
 BY: **Mike Perfetti, Habitat Project Manager**  
 CC: **Mayor Ekberg**  
 DATE: **August 30, 2019**  
 SUBJECT: **Surface Water Funds - Chinook Wind**  
**Project No. 91441202**  
**RCO (ALEA) Grant Application Acceptance**

### ISSUE

Approve and sign a funding agreement with the State of Washington Recreation and Conservation Office (RCO) for the Chinook Wind project.

### BACKGROUND

The Chinook Wind Project will install an off-channel habitat and passive park, with the vision of creating a greater habitat and trail corridor that will include Duwamish Gardens. King County acquired the Sleeping Tiger motel site in 2015 and is currently developing the habitat restoration component of Chinook Wind through their in-lieu fee mitigation program. The City of Tukwila, per City Resolution No. 1856, will accept ownership of the Chinook Wind property in the future. King County is working to meet mitigation requirements and obligations, and the City is taking the lead in developing public use and maintenance access through the site, including a trail, trailhead parking, site furnishings, and signage. Both of these efforts are being closely coordinated. Construction is anticipated to begin in 2020.

### DISCUSSION

Council authorized the submittal of a grant application to the RCO in May 2018 (RCO ALEA grant #18-2033) with City Resolution No. 1960 in June 2019. On August 20, 2019 the City received the grant agreement for approval and signature.

### FISCAL IMPACT

The RCO grant application total is \$314,400 and requires a 50% City match, or \$157,200. The City match will come from 2019/2020 budgeted surface water funds of \$225,000 or other grant/match sources, if possible.

Grant	RCO Grant	City match	Total amount
2019 ALEA grant	\$ 157,200	\$ 157,200	\$ 314,400

### RECOMMENDATION

Council is being asked to authorize the Mayor to execute the RCO grant contract for the Chinook Wind Project for \$157,200 and consider this item on the Consent Agenda at the September 16, 2019 Regular Meeting.

### ATTACHMENTS

- Page 95, 2019 CIP
- Agreement with the RCO

# CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

**PROJECT:** Chinook Wind

Project No. 91441202

**DESCRIPTION:** King County purchased site and will restore it as a salmon estuary and passive park in partnership with the City.

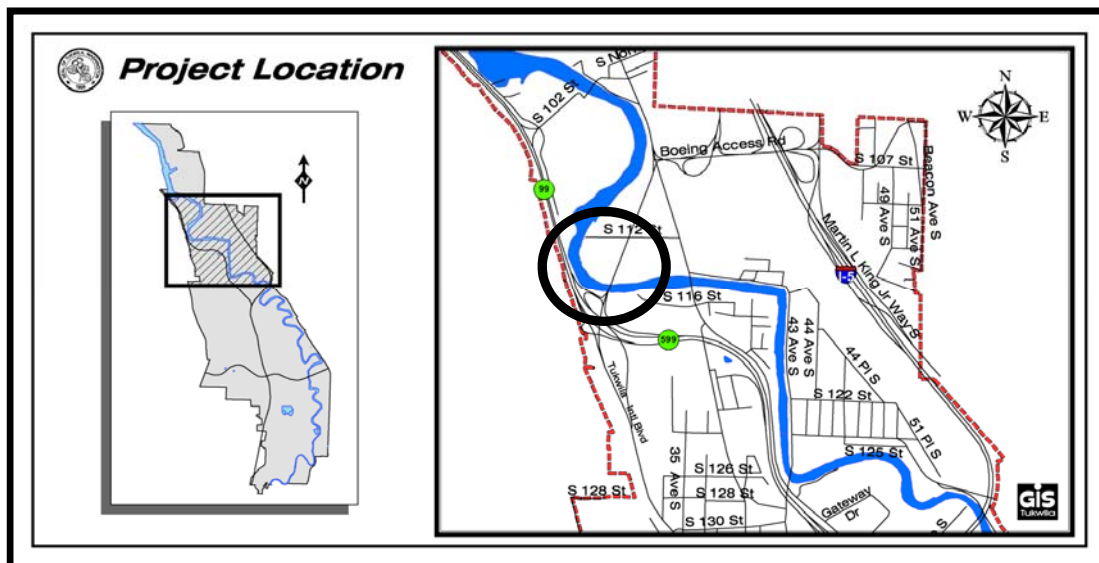
**JUSTIFICATION:** The WRIA 9 Salmon Recovery Plan recommends creating 20-acres of off-channel habitat within the Duwamish Transition Zone and lists this section of the river as critical habitat for salmon recovery within the Green/Duwamish Watershed.

**STATUS:** Property purchased and site cleared by King County in 2015 using King Conservation Futures and King County Mitigation Bank. Site planned to be turned over to Tukwila.

**MAINT. IMPACT:** Passive park will require additional maintenance and will include Duwamish Gardens.

**COMMENT:** Grant funding for construction is from the KC Mitigation Bank. City applied for State RCO grant of \$138k for trail & parking.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
<b>EXPENSES</b>										
Design	7	9	75	25						116
Land (R/W)	52		125							177
Monitoring			15	15	15	15	15	15	15	105
Const. Mgmt.				20						20
Construction				275						275
<b>TOTAL EXPENSES</b>	<b>59</b>	<b>9</b>	<b>215</b>	<b>335</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>693</b>
<b>FUND SOURCES</b>										
Awarded Grant				138						138
Proposed Grant			50	137						187
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	59	9	165	60	15	15	15	15	15	368
<b>TOTAL SOURCES</b>	<b>59</b>	<b>9</b>	<b>215</b>	<b>335</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>693</b>



**Project Sponsor:** City of Tukwila  
**Project Title:** Chinook Wind Public Access

**Project Number:** 18-2033D  
**Approval Date:** 06/27/2019

---

## **PARTIES OF THE AGREEMENT**

This Recreation and Conservation Office Agreement (Agreement) is entered into between the State of Washington by and through the Recreation and Conservation Funding Board (RCFB or funding board) and the Recreation and Conservation Office (RCO), P.O. Box 40917, Olympia, Washington 98504-0917 and City of Tukwila (Sponsor, and primary Sponsor), 6200 Southcenter Blvd, Tukwila, WA 98188, and shall be binding on the agents and all persons acting by or through the parties.

All Sponsors are equally and independently subject to all the conditions of this Agreement except those conditions that expressly apply only to the primary Sponsor.

Per the Applicant Resolution/Authorizations submitted by all sponsors (and on file with the RCO), the identified Authorized Representative(s)/Agent(s) have full authority to legally bind the Sponsor(s) regarding all matters related to the project, including but not limited to, full authority to: (1) sign a grant application for grant assistance, (2) enter into this project agreement on behalf of the Sponsor(s) (including indemnification and waiver of sovereign immunity, if applicable, as provided therein), (3) enter any amendments thereto on behalf of the Sponsors, and (4) make any decisions and submissions required with respect to the project. Agreements and amendments must be signed by the Authorized Representative/Agent(s) of all sponsors, unless otherwise allowed in Amendments and Agreement Section.

If a Sponsor wishes to change its Authorized Representative/Agent as identified on the original signed Applicant Resolution/Authorization, the Sponsor has the obligation to provide to RCO in writing a new Applicant Resolution/Authorization signed by its governing body. Unless a new Applicant Resolution/Authorization has been provided, RCO will be entitled to rely upon the fact that the current Authorized Representative/Agent has the authority to bind the Sponsor to the Agreement (including any amendments thereto) and decisions related to implementation of the Agreement.

For the purposes of this Agreement, as well as for grant management purposes with RCO, only the primary Sponsor may act as a fiscal agent to obtain reimbursements (See PROJECT REIMBURSEMENTS Section).

## **PURPOSE OF AGREEMENT**

This Agreement sets out the terms and conditions by which a grant is made from the State Building Construction Account of the State of Washington. The grant is administered by the Recreation and Conservation Office (RCO).

## **DESCRIPTION OF PROJECT**

The City of Tukwila will use this grant to develop a trailhead, trail system, informational signage, and viewpoints within the Chinook Wind habitat restoration project. This access will connect in the future with the nearby Duwamish Gardens trail system, creating a substantial and unique urban water access experience. The primary recreation opportunities that this project will provide is access to the Duwamish River off-channel mitigation site for viewing and to learn about area's history and the extensive salmon recovery efforts along the river.

## **PERIOD OF PERFORMANCE**

The period of performance begins on July 1, 2019 (project start date) and ends on January 31, 2023 (project end date). No allowable cost incurred before or after this period is eligible for reimbursement unless specifically provided for by written amendment or addendum to this Agreement, or specifically provided for by applicable RCWs, WACs, and any applicable RCO manuals as of the effective date of this Agreement.

The Sponsor must request extensions of the period of performance at least 60 days before the project end date.

## **STANDARD TERMS AND CONDITIONS INCORPORATED**

The Standard Terms and Conditions of the Agreement are hereby incorporated by reference as part of this Agreement.

## **LONG-TERM OBLIGATIONS**

For this development and renovation project, the sponsor's on-going obligations shall be in perpetuity and shall survive the completion/termination of this Project Agreement unless otherwise identified in the Agreement or as approved by the funding board. It is the intent of the funding board's conversion policy (see the Long-Term Obligations Of The Project Sponsors section) that all lands acquired and/or facilities and areas developed, renovated, or restored with funding assistance remain in the public domain in perpetuity.

**PROJECT FUNDING**

The total grant award provided for this project shall not exceed \$157,200.00. The RCO shall not pay any amount beyond that approved for grant funding of the project and within the percentage as identified below. The Sponsor shall be responsible for all total project costs that exceed this amount. The minimum matching share provided by the Sponsor shall be as indicated below:

	<u>Percentage</u>	<u>Dollar Amount</u>	<u>Source of Funding</u>
<b>RCFB - Aquatic Lands Enhancement Acct</b>	50.00%	\$157,200.00	State
<b>Project Sponsor</b>	50.00%	\$157,200.00	
<b>Total Project Cost</b>	100.00%	\$314,400.00	

**RIGHTS AND OBLIGATIONS INTERPRETED IN LIGHT OF RELATED DOCUMENTS**

All rights and obligations of the parties under this Agreement are further specified in and shall be interpreted in light of the Sponsor’s application and the project summary and eligible scope activities under which the Agreement has been approved as well as documents produced in the course of administering the Agreement, including the eligible scope activities, the milestones report, progress reports, and the final report. Provided, to the extent that information contained in such documents is irreconcilably in conflict with this Agreement, it shall not be used to vary the terms of the Agreement, unless those terms are shown to be subject to an unintended error or omission. This “Agreement” as used here and elsewhere in this document, unless otherwise specifically stated, has the meaning set forth in the definitions of the Standard Terms and Conditions.

**AMENDMENTS TO AGREEMENT**

Except as provided herein, no amendment (including without limitation, deletions) of any of the terms or conditions of this Agreement will be effective unless provided in writing signed by all parties. Extensions of the period of performance and minor scope adjustments consented to in writing (including email) by the Sponsor need only be signed by RCO’s director or designee, unless otherwise provided for in another agreement a Sponsor has with the RCO. This exception does not apply to a federal government Sponsor or a Sponsor that requests and enters into a formal amendment for extensions or minor scope adjustments.

It is the responsibility of a Sponsor to ensure that any person who signs an amendment on its behalf is duly authorized to do so, and such signature shall be binding on the Sponsor if the representative/agent signing has been authorized to do so by Applicant Resolution/Authorization provided to the RCO and such Applicant Resolution/Authorization has not been withdrawn by the governing body in a subsequent resolution.

Any amendment to this Agreement, unless otherwise expressly stated, shall be deemed to include all current federal, state, and local government laws and rules, and policies applicable and active and published in the applicable RCO manuals or on the RCO website in effect as of the effective date of the amendment, without limitation to the subject matter of the amendment. Provided, any update in law, rule, policy or a manual that is incorporated as a result of an amendment shall apply only prospectively and shall not require that an act previously done in compliance with existing requirements be redone.

**COMPLIANCE WITH APPLICABLE STATUTES, RULES, AND POLICIES**

This Agreement is governed by, and the sponsor shall comply with, all applicable state and federal laws and regulations, applicable RCO manuals as identified below, and any applicable federal program and accounting rules effective as of the date of this Agreement, and with respect to any amendments to this Agreement, as of the effective date of that amendment. Provided, any update in law, rule, policy or a manual that is incorporated as a result of an amendment shall apply only prospectively and shall not require that an act previously done in compliance with existing requirements be redone.

For the purpose of this Agreement, WAC Title 286, RCFB policies, and shall apply as terms of this Agreement.

For the purpose of this Agreement, the following RCO manuals are deemed applicable and shall apply as terms of this Agreement:

- Aquatic Lands Enhancement Account (ALEA) - Manual 21
- Development Projects - Manual 4
- Long Term Obligations - Manual 7
- Reimbursements - Manual 8

**SPECIAL CONDITIONS**

1. Cultural Resources-Monitoring Required

This agreement requires compliance with Executive Order 05-05 and/or Section 106 of the National Historic Preservation Act. RCO has completed the initial consultation for this project and archaeological monitoring of ground disturbing activities is required. The Sponsor must comply with the monitoring plan developed by Willamette CRA and the King County Historic



Preservation guidelines. The Sponsor must submit to RCO the results of the monitoring before final payment will be made. All cultural resources work must meet reporting guidelines outlined by the Department of Archaeology and Historic Preservation. RCO will defer to King County Historic Preservation in regards to the extent of monitoring required. In the event that the Army Corps of Engineers makes a different cultural resources treatment recommendation for areas within their jurisdiction, RCO will defer to the determination made by the lead federal agency.

2. Control and Tenure

The Sponsor has not met RCO's control and tenure requirements per the PROVISIONS APPLYING TO DEVELOPMENT, MAINTENANCE, RENOVATION, AND RESTORATION PROJECTS, subsection C. Control and Tenure, of the Standard Terms and Conditions. No development, restoration, or renovation activities shall occur, nor requests for reimbursement be made related to this Project Agreement until RCO's control and tenure requirements are met. The Sponsor must provide control and tenure documents meeting RCO requirements by July 31, 2020. Failure to comply with this Special Condition may be grounds for termination of this Project Agreement per Termination and Suspension section of the Standard Terms and Conditions.

**AGREEMENT CONTACTS**

The parties will provide all written communications and notices under this Agreement to the mail address or the email address listed below if not both:

**Sponsor Project Contact**

Mike Perfetti  
City of Tukwila  
6300 Southcenter Blvd, Ste 100  
Tukwila, WA 98188  
Mike.Perfetti@TukwilaWA.gov

**RCO Contact**

DeAnn Beck  
Natural Resources Building  
PO Box 40917  
Olympia, WA 98504-0917  
deanna.beck@rco.wa.gov

These addresses and contacts shall be effective until receipt by one party from the other of a written notice of any change. Decisions relating to the Agreement must be made by the Authorized Representative/Agent, who may or may not be the Project Contact for purposes of notices and communications.

**ENTIRE AGREEMENT**

This Agreement, with all amendments and attachments, constitutes the entire Agreement of the parties. No other understandings, oral or otherwise, regarding this Agreement shall exist or bind any of the parties.

**EFFECTIVE DATE**

This Agreement, for project 18-2033, shall be subject to the written approval of the RCO's authorized representative and shall not be effective and binding until the date signed by both the sponsor and the RCO, whichever is later (Effective Date). Reimbursements for eligible and allowable costs incurred within the period of performance identified in the PERIOD OF PERFORMANCE Section are allowed only when this Agreement is fully executed and an original is received by RCO.

The Sponsor has read, fully understands, and agrees to be bound by all terms and conditions as set forth in this Agreement and the STANDARD TERMS AND CONDITIONS OF THE RECREATION AND CONSERVATION OFFICE AGREEMENT. The signators listed below represent and warrant their authority to bind the parties to this Agreement.

**City of Tukwila**

By: \_\_\_\_\_

Date: \_\_\_\_\_

Name (printed): \_\_\_\_\_

Title: \_\_\_\_\_

**State of Washington Recreation and Conservation Office**  
**On behalf of the Recreation and Conservation Funding Board (RCFB or funding board)**

By: \_\_\_\_\_  
Kaleen Cottingham  
Director  
Recreation and Conservation Office

Date: \_\_\_\_\_

Pre-approved as to form:

By:       *Brian Staller*        
Assistant Attorney General

Date:           01/01/2019





## INFORMATIONAL MEMORANDUM

TO: **Transportation and Infrastructure Committee**  
 FROM: **Henry Hash, Public Works Director** *H.H.*  
 BY: **Scott Bates, Traffic Engineering Project Manager**  
 CC: **Mayor Ekberg**  
 DATE: **August 30, 2019**  
 SUBJECT: **S 140<sup>th</sup> St Intersection Improvements – S 141<sup>st</sup> St RRFB Pedestrian Crossings**  
**Project No. 91610405, Contract No. 19-031**  
**Project Completion and Acceptance**

### ISSUE

Accept contract as complete and authorize release of performance bond.

### BACKGROUND

The Notice to Proceed for Contract No. 19-031 with Westwater Construction Company of Renton, Washington was issued on March 18, 2019 for the S 141<sup>st</sup> St Rectangular Rapid Flashing Beacon (RRFB) Pedestrian Crossings Project. This project included the installation of two new RRFB pedestrian crossings at S 141<sup>st</sup> St and Tukwila International Boulevard to improve pedestrian safety. Construction included pavement repairs, installation of solar powered RRFBs, ADA ramps, along with new channelization and signage.

### ANALYSIS

Construction was physically completed on May 3, 2019. No change orders were executed. The performance bond is being held by the City.

### FINANCIAL IMPACT

The budget for the S 141<sup>st</sup> St RRFB Pedestrian Crossings Project was \$255,000.00 and included a 5% contingency, which was not utilized.

Construction Contract Amount	\$ 221,300.00
Under-runs	<u>(352.00)</u>
Total Amount Paid	<u>\$ 220,948.00</u>

### RECOMMENDATION

Council is being asked to formally accept and authorize the release of the performance bond, subject to standard claim and lien release procedures, for the S 141<sup>st</sup> St RRFB Pedestrian Crossings Project with Westwater Construction in the amount of \$220,948.00 and consider this item on the Consent Agenda at the September 16, 2019 Regular Meeting.

### ATTACHMENT

Notice of Completion Contract No. 19-031



Original  
 Revised #

## NOTICE OF COMPLETION OF PUBLIC WORKS CONTRACT

Date: **8/21/2019 11:33:56 AM**

Contractor's UBI Number: **601173970**

Name & Mailing Address of Public Agency	Department Use Only
TUKWILA, CITY OF 6300 S CENTER BLVD #101 TUKWILA 98188 <b>UBI Number:</b> 916001519	Assigned to:  Date Assigned:

*Notice is hereby given relative to the completion of contract or project described below*

<b>Project Name</b> S 140th St. Intersection Improvements (S 141st St. RRFB Pedestrian Crossings)	<b>Contract Number</b> 19-031	<b>Job Order Contracting</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Description of Work Done/Include Jobsite Address(es)</b> S 140TH STREET AND TUKWILA INTERNATIONAL BOULEVARD, Installation of two RRFB crosswalks with new curb ramps and channelization.		
<b>Federally funded transportation project?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, provide Contract Bond Statement below)		
<b>Contractor's Name</b> westwater construction company	<b>E-mail Address</b> mick.westwater@comcast.net	<b>Affidavit ID*</b> 868846
<b>Contractor Address</b> 16209 SE 173rd Place, RENTON WA 98058		<b>Telephone #</b> 425-891-3362
<b>If Retainage is not withheld, please select one of the following and List Surety's Name &amp; Bond Number.</b> <input checked="" type="checkbox"/> Retainage Bond <input type="checkbox"/> Contract/Payment bond (valid for federally funded transportation projects)		
Name: Merchants Bonding Company		Bond Number: WAC54907
<b>Date Contract Awarded</b> 2/19/2019	<b>Date Work Commenced</b> 3/18/2019	<b>Date Work Completed</b> 5/3/2019
<b>Date Work Accepted</b> 5/9/2019		
<b>Were Subcontracters used on this project? If so, please complete Addendum A.</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Affidavit ID* - No L&I release will be granted until all affidavits are listed.		

Contract Amount	<b>\$221,300.00</b>	
Additions (+)	<b>\$0.00</b>	Liquidated Damages <b>\$0.00</b>
Reductions (-)	<b>\$352.00</b>	Amount Disbursed <b>\$220,948.00</b>
<b>Sub-Total</b>	<b>\$220,948.00</b>	Amount Retained <b>\$0.00</b>

Sales Tax Rate **0.000%**  
 (If various rates apply, please send a breakdown)  
 Sales Tax Amount **\$0.00**

**TOTAL \$220,948.00** **TOTAL \$220,948.00**  
*NOTE: These two totals must be equal*

Comments:
-----------

**Note:** The Disbursing Officer must submit this completed notice immediately after acceptance of the work done under this contract.  
 NO PAYMENT SHALL BE MADE FROM RETAINED FUNDS until receipt of all release certificates.  
**Submitting Form:** Please submit the completed form by email to all three agencies below.

Contact Name: **Scott Bates**  
 Email Address: **scott.bates@tukwilawa.gov**

Title: **Project Manager**  
 Phone Number: **206-431-2193**



**Addendum A: Please List all Subcontractors and Sub-tiers Below**

This addendum can be submitted in other formats.

Provide known affidavits at this time. **No L&I release will be granted until all affidavits are listed.**

Subcontractor's Name:	UBI Number: (Required)	Affidavit ID*
American Surveying & Environmental, LLC	603226051	857787
DelMar Concrete Cutting & Coring LLC	603490906	876073
HOT MIX PAVERS, INC	600310693	873927
Northwest Traffic Inc	602140049	868943
TOTEM ELECTRIC OF TACOMA INC	278043550	868930

For tax assistance or to request this document in an alternate format, please call 1-800-647-7706. Teletype (TTY) users may use the Washington Relay Service by calling 711.





INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee
FROM: Henry Hash, Public Works Director
BY: Adam Cox, Transportation Project Manager
CC: Mayor Ekberg
DATE: August 30, 2019
SUBJECT: Annual Bridge Inspections and Repairs - S 196th/200th Street Bridge Repair Project No. 91710406 Bid Award

ISSUE

Award the construction bid to Nordvind Company, LLC. (Nordvind) for the South 196th/200th Street Bridge Repair Project.

BACKGROUND

The South 196th/200th Street Bridge Repair project includes repair of approximately 100 linear feet of street improvements within the right-of-way of South 200th Street, including the removal and replacement of the concrete bridge approach and other associated structures on the west side of the Green River.

DISCUSSION

A call for bids was advertised on August 6 and 13, 2019 and one addenda was issued addressing clarifications in the bid documents. Six bids were opened on August 20, 2019 and the apparent low bid was from Nordvind Company.

BUDGET AND BID SUMMARY

Table with 4 columns: Bidder, Engineer's Estimate, Bid Amount, 2019/2020 Budget. Rows include Nordvind Company, Contingency 20%, and Grand Total.

RECOMMENDATION

Council is being asked to award the bid to Nordvind Company, LLC. in the amount of \$320,400 for the South 196th/200th Street Bridge Repair Project and to consider this item on the Consent Agenda at the September 16, 2019 Regular Meeting.

Attachments: Page 17, 2019 CIP Bid Tabulation

## CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

**PROJECT:** Annual Bridge Inspections and Repairs

Project No. 9XX10402

**DESCRIPTION:** Ongoing program of bi-annual inspections, repairs, painting and rehabilitation of the 22 City bridges.

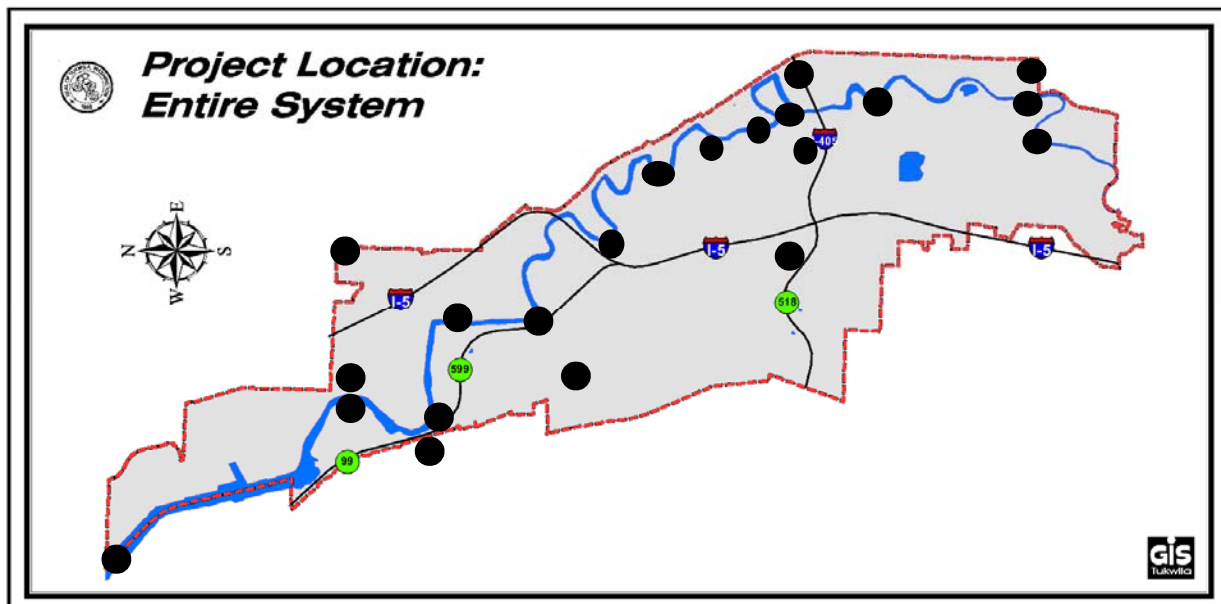
**JUSTIFICATION:** Federally required program identifies safety or repair needs in the early stages to minimize hazards and costs. The number of bridge inspections necessary each year can vary year to year. Inspection frequencies vary from bridge to bridge and King County has provided some inspection services.

**STATUS:** Construction projects will be determined from inspection reports and noted deficiencies/problems.

**MAINT. IMPACT:** Reduces maintenance costs.

**COMMENT:** Ongoing project, only one year actuals are shown in the first column.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
<b>EXPENSES</b>										
Design	141	45	45	45	55	55	65	65	65	581
Land (R/W)										0
Const. Mgmt.	1	40	40	40	50	50	60	60	60	401
Construction	32	250	250	250	300	300	325	325	325	2,357
<b>TOTAL EXPENSES</b>	<b>174</b>	<b>335</b>	<b>335</b>	<b>335</b>	<b>405</b>	<b>405</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>3,339</b>
<b>FUND SOURCES</b>										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	174	335	335	335	405	405	450	450	450	3,339
<b>TOTAL SOURCES</b>	<b>174</b>	<b>335</b>	<b>335</b>	<b>335</b>	<b>405</b>	<b>405</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>3,339</b>





196th/ 200th Street Bridge Repair

Certified Bid Tab

ITEM NO.	ITEM	UNITS	QUANTITY	Engineering Estimate		Nordvind Company, LLC.		Quigg Bros., Inc.		Ceccanti, Inc.		SB Structures, LLC.		Combined Construction, LLC.		Westwater Construction Company	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	Clearing and Grubbing	LS	1	\$ 3,000	\$ 3,000	\$ 10,000	\$ 10,000	\$ 3,400	\$ 3,400	\$ 3,700	\$ 3,700	\$ 500	\$ 500	\$ 3,500	\$ 3,500	\$ 3,000	\$ 3,000
2	Controlled Density Fill	CY	65	\$ 50	\$ 3,250	\$ 100	\$ 6,500	\$ 180	\$ 11,700	\$ 165	\$ 10,725	\$ 185	\$ 12,025	\$ 300	\$ 19,500	\$ 90	\$ 5,850
3	Crushed Surfacing Base Course	CY	25	\$ 80	\$ 2,000	\$ 100	\$ 2,500	\$ 150	\$ 3,750	\$ 100	\$ 2,500	\$ 75	\$ 1,875	\$ 110	\$ 2,750	\$ 50	\$ 1,250
4	HMA for Approach Cl. 1/2 In. PG-64-22	TON	120	\$ 180	\$ 21,600	\$ 350	\$ 42,000	\$ 220	\$ 26,400	\$ 238	\$ 28,560	\$ 200	\$ 24,000	\$ 350	\$ 42,000	\$ 150	\$ 18,000
5	NOT USED																
6	Cement Conc. Traffic Curb and Gutter	LF	60	\$ 90	\$ 5,400	\$ 40	\$ 2,400	\$ 55	\$ 3,300	\$ 65	\$ 3,900	\$ 50	\$ 3,000	\$ 175	\$ 10,500	\$ 100	\$ 6,000
7	Mobilization	LS	1	\$ 32,665	\$ 32,665	\$ 10,000	\$ 10,000	\$ 60,000	\$ 60,000	\$ 48,000	\$ 48,000	\$ 55,000	\$ 55,000	\$ 45,000	\$ 45,000	\$ 40,000	\$ 40,000
8	Structure Surveying	LS	1	\$ 10,000	\$ 10,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 6,200	\$ 6,200	\$ 6,000	\$ 6,000	\$ 10,000	\$ 10,000	\$ 3,000	\$ 3,000
9	Type A Progress Schedule	LS	1	\$ 2,000	\$ 2,000	\$ 500	\$ 500	\$ 3,900	\$ 3,900	\$ 1,500	\$ 1,500	\$ 1,000	\$ 1,000	\$ 7,500	\$ 7,500	\$ 1,000	\$ 1,000
10	Unexpected Site Changes	FA	1	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
11	Resolution of Utility Conflicts	FA	1	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
12	SPCC Plan	LS	1	\$ 5,000	\$ 5,000	\$ 500	\$ 500	\$ 1,100	\$ 1,100	\$ 1,500	\$ 1,500	\$ 2,000	\$ 2,000	\$ 7,500	\$ 7,500	\$ 1,000	\$ 1,000
13	Temporary Erosion & Sediment Control and Water Pollution Prevention (including SWPPP Implementation)	LS	1	\$ 7,000	\$ 7,000	\$ 10,000	\$ 10,000	\$ 2,900	\$ 2,900	\$ 9,000	\$ 9,000	\$ 7,500	\$ 7,500	\$ 15,000	\$ 15,000	\$ 2,500	\$ 2,500
14	Project Temporary Traffic Control, Min. Bid \$50,000	LS	1	\$ 55,000	\$ 55,000	\$ 67,500	\$ 67,500	\$ 125,000	\$ 125,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
15	Removal of Structures and Obstructions	LS	1	\$ 25,000	\$ 25,000	\$ 15,000	\$ 15,000	\$ 50,000	\$ 50,000	\$ 88,000	\$ 88,000	\$ 77,000	\$ 77,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
16	Sawcutting	IN-FT	2300	\$ 0.75	\$ 1,725	\$ 10	\$ 23,000	\$ 2	\$ 4,600	\$ 2	\$ 4,600	\$ 50.6	\$ 1,380	\$ 3	\$ 5,750	\$ 1.0	\$ 2,300
17	Concrete Pavement Seat incl. Dowel Bars	LS	1	\$ 40,000	\$ 40,000	\$ 5,000	\$ 5,000	\$ 18,000	\$ 18,000	\$ 42,000	\$ 42,000	\$ 20,000	\$ 20,000	\$ 17,500	\$ 17,500	\$ 40,000	\$ 40,000
18	Bridge Approach Slab	SY	205	\$ 320	\$ 65,600	\$ 225	\$ 46,125	\$ 300	\$ 61,500	\$ 990	\$ 202,950	\$ 350	\$ 71,750	\$ 750	\$ 153,750	\$ 586	\$ 120,130
19	Expansion Joint System Compression Seal - Superstr.	LS	1	\$ 18,750	\$ 18,750	\$ 10,000	\$ 10,000	\$ 7,000	\$ 7,000	\$ 8,400	\$ 8,400	\$ 4,500	\$ 4,500	\$ 15,000	\$ 15,000	\$ 17,000	\$ 17,000
20	Cast-In-Place Conc. Barrier	LF	25	\$ 350	\$ 8,750	\$ 100	\$ 2,500	\$ 500	\$ 12,500	\$ 465	\$ 11,625	\$ 350	\$ 8,750	\$ 1,500	\$ 37,500	\$ 650	\$ 16,250
21	Traffic Pedestrian Barrier	LF	50	\$ 300	\$ 15,000	\$ 100	\$ 5,000	\$ 450	\$ 22,500	\$ 480	\$ 24,000	\$ 350	\$ 17,500	\$ 400	\$ 20,000	\$ 900	\$ 45,000
22	Conduit Pipe 4 In. Diam.	LF	55	\$ 65	\$ 3,575	\$ 50	\$ 2,750	\$ 200	\$ 11,000	\$ 60	\$ 3,300	\$ 20	\$ 1,100	\$ 40	\$ 2,200	\$ 150	\$ 8,250
23	Conduit Pipe 2 In. Diam.	LF	120	\$ 40	\$ 4,800	\$ 50	\$ 6,000	\$ 85	\$ 10,200	\$ 50	\$ 6,000	\$ 15	\$ 1,800	\$ 20	\$ 2,400	\$ 100	\$ 12,000
24	Cement Conc. Sidewalk	SY	65	\$ 120	\$ 7,800	\$ 225	\$ 14,625	\$ 95	\$ 6,175	\$ 145	\$ 9,425	\$ 70	\$ 4,550	\$ 210	\$ 13,650	\$ 200	\$ 13,000
25	Paint Line	LF	350	\$ 4	\$ 1,400	\$ 10	\$ 3,500	\$ 6	\$ 2,100	\$ 2	\$ 700	\$ 5	\$ 1,750	\$ 15	\$ 5,250	\$ 3	\$ 1,050
26	Property Restoration	LS	1	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
<b>Subtotal:</b>				\$	<b>359,315</b>	\$	<b>320,400</b>	\$	<b>480,875</b>	\$	<b>586,585</b>	\$	<b>392,980</b>	\$	<b>566,250</b>	\$	<b>486,580</b>

Errors in Contractor Bid Proposals:

1 Proposal amount for this bid item is \$437,980 which is \$45,000 more than the calculated amount.

Certified by  Date August 20, 2019  
Adam Cox, P.E., Transportation Project Manager





## INFORMATIONAL MEMORANDUM

**TO:** Transportation and Infrastructure Committee  
**FROM:** Henry Hash, Public Works Director *H.H.*  
**BY:** Adam Cox, Transportation Project Manager  
**CC:** Mayor Ekberg  
**DATE:** August 30, 2019  
**SUBJECT:** Annual Bridge Inspections and Repairs  
Project 91910402  
**2019 Presentation on the State of the City's Bridges**

### ISSUE

Provide the Transportation and Infrastructure Committee with information about the entire City bridge inventory and program, showing the overall condition of the City's bridges as well as steps for future projects and maintenance.

### BACKGROUND

The Federal Highways Administration (FHWA) and Washington State Department of Transportation (WSDOT) require regularly scheduled inspections of all the City's vehicle carrying bridge structures. The City extends this effort to include its pedestrian bridges. This requirement allows for continuity in reporting as well as the opportunity to identify and potentially fund bridges in need of replacement and rehabilitation.

### DISCUSSION

The City currently has ownership of 23 bridges (16 traffic bearing and 7 pedestrian). Of those, two are jointly owned jurisdictional bridges with shared ownership between the City of Renton (Grady Way) and the City of Kent (S 196<sup>th</sup>/200). The bridge structure types vary from steel through truss, pre-cast concrete girders, cast-in-place concrete girders, steel girder, wood girder, and steel tied arch spans. The 2019 discussion will focus on why the City inspects its bridges, where the City stands with respect to the state and the country, and recommendations for additional steps that can be taken to address known issues.

### RECOMMENDATION

Information only.

### ATTACHMENT

- Page 17, 2019 CIP
- State of the City's Bridges Report

## CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

**PROJECT:** Annual Bridge Inspections and Repairs

Project No. 9XX10402

**DESCRIPTION:** Ongoing program of bi-annual inspections, repairs, painting and rehabilitation of the 22 City bridges.

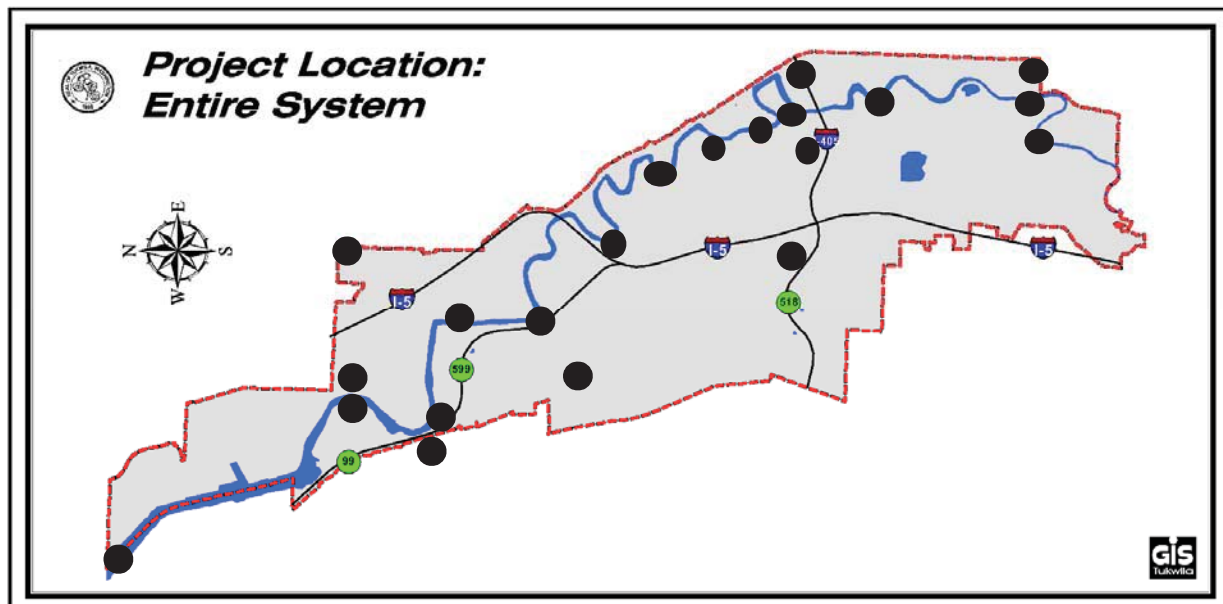
**JUSTIFICATION:** Federally required program identifies safety or repair needs in the early stages to minimize hazards and costs. The number of bridge inspections necessary each year can vary year to year. Inspection frequencies vary from bridge to bridge and King County has provided some inspection services.

**STATUS:** Construction projects will be determined from inspection reports and noted deficiencies/problems.

**MAINT. IMPACT:** Reduces maintenance costs.

**COMMENT:** Ongoing project, only one year actuals are shown in the first column.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
<b>EXPENSES</b>										
Design	141	45	45	45	55	55	65	65	65	581
Land (R/W)										0
Const. Mgmt.	1	40	40	40	50	50	60	60	60	401
Construction	32	250	250	250	300	300	325	325	325	2,357
<b>TOTAL EXPENSES</b>	<b>174</b>	<b>335</b>	<b>335</b>	<b>335</b>	<b>405</b>	<b>405</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>3,339</b>
<b>FUND SOURCES</b>										
Awarded Grant										
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	174	335	335	335	405	405	450	450	450	3,339
<b>TOTAL SOURCES</b>	<b>174</b>	<b>335</b>	<b>335</b>	<b>335</b>	<b>405</b>	<b>405</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>3,339</b>





# CITY OF TUKWILA



## CITY ENGINEER’S BRIDGE INSPECTION REPORT SEPTEMBER 2019



Tukwila Urban Center Pedestrian Bridge

# City of Tukwila



Public Works Department

6300 Southcenter Blvd

Tukwila, WA 98188

# **CITY ENGINEER'S BRIDGE INSPECTION REPORT SEPTEMBER 2019**

Hari Ponnekanti, P.E., Deputy PW Director/City Engineer



## Table of Contents

Executive Summary	ii
Forward	iii
Quick Bridge Reference	iv
GROUP I BRIDGES - Bridges Recommended for Replacement/Rehabilitation	1
GROUP II BRIDGES - Bridges recommended for Major Maintenance	2
GROUP III BRIDGES - Posted Bridges	3
GROUP IV BRIDGES - Bridges Recommended for Rail Retrofit	4
GROUP V BRIDGES - Bridges Repair Recommendations for Repair	5
ADT (Average Daily Traffic)	9

## Executive Summary

The City currently has ownership of 23 bridges (16 traffic bearing and 7 pedestrian). Of those, two are jointly owned jurisdictional bridges with shared ownership between the City of Renton (Grady Way) and the City of Kent (S 196th/200). The different types of bridge configuration vary from steel through truss, pre-cast concrete girders, cast-in-place concrete girders, steel girder, wood girder, and steel tied arch spans.

Currently the City has a total of five (5) bridges that have a sufficiency rating between 80 to 100; six (6) bridges that have a sufficiency rating between 60 to 79; two (2) bridges that have a sufficiency rating between 40 to 59; and three (3) bridges that have a sufficiency rating of 39 or less. Note, pedestrian bridges do not receive a sufficiency rating. Please refer to the Quick Bridge Reference sheet for the break down of city owned bridges and the assigned sufficiency rating.

The sufficiency rating formula provides a method of evaluating highway bridge data by calculating four (4) separate factors to obtain a numeric value which is indicative of bridge sufficiency to remain in service. The result of this method is a percentage in which 100 percent would represent an entirely sufficient bridge and zero (0) percent would represent an entirely insufficient or deficient bridge. The formula considers the structural adequacy, functional obsolescence, level of service and essentiality for public use.

## Forward

The *City Engineer's Bridge Inspection Report*, dated September 2019, is published by the City of Tukwila Public Works Department, and the information contained herein is the best available at the time of publication. It is to be used as an information tool for planning and maintenance activities, and reflects the general condition of the City's bridges. The repairs indicated are summarized for brevity from actual bridge inspection reports.

### Background

The FHWA (Federal Highway Administration) issued the NBIS (National Bridge Inspection Standards) in 1971. These standards established a comprehensive inspection for all federal highway system bridges. Minimum qualifications were set forth for bridge inspectors. Specific types and frequencies of inspections for bridges were established, and the reporting of certain standard information about each bridge was required. In 1978, these requirements were extended to all public bridges carrying vehicular traffic.

A national bridge inspection program has been in place ever since, and state and local agencies have performed bridge inspection in accordance with these guidelines. Inspections for the City of Tukwila's bridges are conducted every two years unless conditions warrant additional inspections or frequencies as dictated by the NBIS.

# Bridge Quick Check Informational Sheet

Bridge Number	Name	Year Built	Suff. Rating	WSDOT Bridge ID	ADT	Next ADT Reqd	Last Inspection	Next Inspection Date	UBIT Required	Last UBIT Inspection	Next UBIT Insp Reqd	Fracture Critical	Special Notes
Tukwila 01	Macadam Road	1997	<b>80.58</b>	08674200	3,600	2024	4/18/2019	2021	N	-	-	N	
Tukwila 02	Frank Zepp	1968	<b>75.37 FO</b>	08561400	36,000	2022	4/18/2019	2021	Y	2017	2021	N	
Tukwila 03	Lois T Newton	1973	<b>75.36</b>	08544400	18,900	2021	4/18/2019	2021	Y	2017	2023	N	
Tukwila 05	South-center Blvd	1994	<b>96.98</b>	0014269D	10,616	2023	8/16/2018	2020	Y	2014	2020	N	
Tukwila 06	Foster 56th Ave	1985	<b>58.05</b>	08166200	2,850	2024	4/11/2019	2021	Y	2017	2023	N	
Tukwila 07	51st Ave South	1996	<b>69.09</b>	08634500	4,600	2024	4/16/2019	2021	N	-	-	N	
Tukwila 08	Grady Way	1986	<b>64.93</b>	08543600	25,500	2024	4/16/2019	2021	Y	2018	2023	N	Jointly owned with City of Renton
Tukwila 09	E Marginal Way	1989	<b>89.83</b>	08110200	13,000	2024	4/11/2019	2021	Y	2017	2023	N	

Bridge Number	Name	Year Built	Suff. Rating	WSDOT Bridge ID	ADT	Next ADT Reqd	Last Inspection (2 Yr Cycle)	Next Inspection Date	UBIT Required	Last UBIT Inspection	Next UBIT Insp Reqd (4 yr cycle)	Fracture Critical	Special Notes
Tukwila 11	BAR Airport Way	1952	39.80 SD	08001800	40,000	2024	4/25/2019	2021	N	-	-	N	
Tukwila 12	BAR BNSF	1945	37.19 SD	08002500	38,800	2021	4/25/2019	2021	Y	2017	2021	N	
Tukwila 13	Beacon Ave S	1971	78.36	7996800	500	2020	4/9/2019	2021	N	2017	2019	Y	
Tukwila 14	42nd Ave S	1949	7.56 SD	08651500	10,300	2023	4/1/2019	2021	Y	2019	2021	Y	Applying for replacement funding 2019
Tukwila 15	Pacific Hwy	2000	86.36	08651500	30,300	2021	8/16/2018	2020	Y	2016	2020	N	
Tukwila 16	S 119th	1965	--	08104300	NA	NA	4/25/2019	2024	N	-	-	N	
Tukwila 17	Foster Golf Course	1987	--	08584100	NA	NA	4/11/2019	2024	N	-	-	N	
Tukwila 18	Green River Ped & Utility	1983	--	08584200	NA	NA	8/16/2018	2023	N	-	-	N	
Tukwila 19	Inter-urban Trail	2006	--	08742500	NA	NA	9/11/2018	2023	N	-	-	N	

Bridge Number	Name	Year Built	Suff. Rating	WSDOT Bridge ID	ADT	Next ADT Reqd	Last Inspection	Next Inspection Date	UBIT Required	Last UBIT Inspection	Next UBIT Insp Reqd	Fracture Critical	Special Notes
Tukwila 20	180th Street Trail	2001	--	08742600	NA	NA	8/16/2018	2023	Y	2016	2018	Y	
Tukwila 21	Fort Dent Road	1975	65.00	08328300	1,115	2023	8/16/2018	2020	Y	2014	2020	N	
Tukwila 22	Fort Dent Trail	2002	--	08718400	NA	NA	8/16/2018	2023	N	-	-	N	
Tukwila 24	Klickitat	2012	93.93 FO	08853600	14,024	2023	4/25/2019	2021	N	-	-	N	
Tukwila 25	TUC Ped Bridge	2018	-	xxnewxxx	-	-	2019	2024	Y	2019	2024	Y	
4001	196-200th	1998	59 SD	08712100	17,406	2023	4/18/2019	2021	Y	2015	2021	N	Jointly owned with City of Kent

NOTES:

Bridge Rating is out of 100.

SD - Indicates the bridge structure is "Structural Deficient" as defined by the WSDOT (Washington State Department of Transportation) bridge inspection program. The structure is still safe for use by the public and the condition is being monitored.

FO - Indicates the bridge structure is "Functionally Obsolete" as defined by the WSDOT (Washington State Department of Transportation) bridge inspection program. This designation only indicates the roadway geometrics do not meet current standards for bridge design.

UBIT - Under Bridge Inspection Truck. This indicates the bridge needs special equipment in order to reach portions of the structure for inspection.

ADT - Average Daily Traffic

NA - Sufficiency ratings are not given on pedestrian facilities since they are not a part of the NBI system so a Suff. Rating of NA is given in that location.

All pedestrian bridges do not have a calculated sufficiency rating - they are not traffic loaded bridges and the rating numbers are not calculated per Federal Requirements



**GROUP I BRIDGES**

**Bridges Recommended for Replacement or Rehabilitation**

Bridge Number	Bridge Name	Location	Reason
Tukwila 14	42nd Ave South*	Allentown (42nd Ave)	Deteriorating Structural Condition of the steel superstructure
Tukwila 12	Boeing Access Road over Airport Way**	Boeing Access Road	Substructure Seismic Rehabilitation

Note: See individual bridge reports in Public Works for detailed repair work.

\* Application is currently under review by the Washington State Department of Transportation Local Programs and the Bridge replacement Advisory Committee (BRAC) program. Application results will likely be announced in Septmeber/October 2019.

\*\* This structure is currently funded by the BRAC program. The project is anticipated to be designed in Winter 2019 and constructed in 2020.

GROUP II BRIDGES

Bridges Recommended for Major Maintenance

Bridge Number	Bridge Name	Location	Reason
Tukwila 16	South 119th Pedestrian Bridge	119th Str (Allentown)	Painting of entire structure with possible rot repair as encountered
Tukwila 18	Green River Pedestrian and Utility	Interurban Trail near 180th	Rehabilitation of structure coating and timber rot repair and replacement

## GROUP III BRIDGES

### Posted Bridges

Bridge Number	Bridge Name	Location	Reason
Tukwila 14	42nd Ave South	Allentown	Bridge is posted for reduced truck speed and posted for reduced loading on AASHTO Type 3 trucks and 6 and 7 axle vehicles.

Note: See individual bridge reports in Public Works for detailed repair work.

## GROUP IV BRIDGES

### Bridges Recommended for Rail Retrofit

Bridge Number	Bridge Name	Location	Reason
Tukwila 1	Macadam	Macadam Road	Provide Guardrail, terminal and transitions that meet current standards
Tukwila 2	Frank Zepp	180th Street	Provide bridge rail that meet current standards
Tukwila 3	Lois T Newton	Stander Boulevard	Provide bridge rail, guardrail, terminal and transitions that meet current standards
Tukwila 6	Foster 56th Ave South	56th Avenue South	Provide bridge rail, guardrail, terminal and transitions that meet current standards
Tukwila 8	Grady Way	Grady Way	Provide Guardrail, terminal and transitions that meet current standards
Tukwila 9	East Marginal Way	East Marginal Way	Provide bridge rail, guardrail, terminal and transitions that meet current standards
Tukwila 11	Boeing Access Road - Airport Way	Boeing Access Road	Provide bridge rail, guardrail, terminal and transitions that meet current standards
Tukwila 13	Beacon Ave South	Victor Street	Provide bridge rail, guardrail, terminal and transitions that meet current standards
Tukwila 14	42nd Avenue South	42nd Avenue South	Provide Guardrail, terminal and transitions that meet current standards

Note: See individual bridge reports in Public Works for detailed repair work.

## GROUP V BRIDGES

### Bridges Repair Recommendations

PRIORITY CODE 'A'	Highest Priority - Structural integrity and safety involved.
PRIORITY CODE 'B'	Regular Priority - General bridge structural repair work not requiring immediate response.
PRIORITY CODE 'C'	Low Priority - General minor maintenance or other work to be accomplished as time and money permit.
PRIORITY CODE 'M'	Monitor - The repair or item described needs to be monitored at the rate indicated.

Note: See individual bridge reports in Public Works for detailed repair work.

Bridge Number	Bridge Name	Location	Repair Recommendations	Priority	Inspection Date
Tukwila 1	Macadam	Macadam	<ol style="list-style-type: none"> <li>1. Replace rotting guardrail posts</li> <li>2. Replace missing guardrail hardware</li> <li>3. Upgrade guardrail to current standards</li> <li>4. Replace missing pedestrian rail bar at the SW corner.</li> </ol>	B B B B	18-Apr-19
Tukwila 2	Frank Zepp	180th Street	<ol style="list-style-type: none"> <li>1. Remove dirt, debris, and concrete debris from around bearings at both abutments. Clean and repaint bearings.</li> <li>2. Epoxy inject crack at the interface between new and old concrete at Pier 3.</li> <li>3. Saw cut and remove all delaminated concrete from the northeast corner of the deck and patch it with high strength non-shrink grout.</li> <li>4. Correct the vertical height difference between the steel finger joints</li> </ol>	B B B B	18-Apr-19
Tukwila 3	Lois Newton	Strander Blvd	<ol style="list-style-type: none"> <li>1. No repairs recommended at this time.</li> </ol>	NA	18-Apr-19
Tukwila 5	South center Blvd	SC Blvd	<ol style="list-style-type: none"> <li>1. replace missing block spacer on guardrail post</li> </ol>	C	16-Aug-18
Tukwila 6	Foster 56th Ave S	56th Ave S	<ol style="list-style-type: none"> <li>1. Fill scour void under SE wingwall</li> <li>2. replace expansion joint material</li> <li>3. repair damaged guardrail terminal end</li> </ol>	B B B	11-Apr-19
Tukwila 7	51st Ave S	51st Ave S	<ol style="list-style-type: none"> <li>1. Apply deck sealer to prevent ponding water to leak in to the cox girders</li> <li>2. Remove waste and transient debris beneath bridge</li> <li>3. Repair spalls at expansion joint</li> <li>4. Repair northwest rail terminal</li> </ol>	B M B B	16-Apr-19

Bridge Number	Bridge Name	Location	Repair Recommendations	Priority	Inspection Date
Tukwila 8 (Renton-Tukwila Joint Ownership)	Grady Way	Grady Way	<ol style="list-style-type: none"> <li>1. Repair vertical sliding surfaces on columns</li> <li>2. Repair damage bridge rail (spalling and delaminations)</li> <li>4. Repair pedestrian fencing</li> <li>5. Monitor homeless encampment and makeshift facilities under structure</li> <li>6. Clear out material between bearings at Abutment 1</li> <li>6. Remove vegetation on retaining wall</li> </ol>	B B B M B C	16-Apr-19
Tukwila 9	E Marginal Way	E Marginal Way	<ol style="list-style-type: none"> <li>1. Replace compression seals at expansion joints</li> </ol>	B	11-Apr-19
Tukwila 11	BAR Airport Way	Boeing Access Road	<ol style="list-style-type: none"> <li>1. Repair column delamination</li> <li>2. Repair bridge rail damage</li> </ol>	A B	25-Apr-19
Tukwila 12	BAR BNSF	Boeing access road	<ol style="list-style-type: none"> <li>1. Repair the southeast approach rail.</li> </ol>	B	25-Apr-19
Tukwila 13	Beacon Ave South	At Victor Street	<ol style="list-style-type: none"> <li>1. Repair interior lighting.</li> </ol>	B	9-Apr-19



Bridge Number	Bridge Name	Location	Repair Recommendations	Priority	Inspection Date
Tukwila 14	42nd Ave S	42nd Ave S	<ol style="list-style-type: none"> <li>1. Clean out open joints over floor beams thoroughly and fill with a flexible sealant, priority 1 due to corrosion at top flanges of floorbeams from leaking joints.</li> <li>2. Rework the sliding plate expansion joint so it is smooth with sidewalk and patch spalls near panel points, seal open cracks.</li> <li>3. Replace missing guard rail and terminal at SW corner, replace damaged rail at SE corner, reset NW rail and posts to bring rail up to standard height.</li> <li>4. Thoroughly pressure wash clean truss of all dirt/algae/guano, prepare surface, paint bridge to encapsulate pack rust and protect truss members. Add bird deterrent at all panel points, upper and lower chords.</li> <li>5. Replace steel sliding plate expansion joints with either a strip seal with steel header or modular joint to eliminate water intrusion onto steel bearings.</li> <li>6. Recommend design seismic retrofit steel collar and construct around bearing columns, anchored to cap, then fill tight with epoxy.</li> <li>7. FRP wrap columns 4 A-C. Reinforce west wingwall. Add quarryspall along abutment 4 and under span 3 to retain fill and discourage transient activity.</li> <li>8. Replace missing riprap along banks and in front of piers.</li> <li>9. Recommend raising portals and sways due to the high volume of truck traffic and existing damage to sway members.</li> <li>10. Replace sliding plates with elastomeric dynamic isolation bearings.</li> <li>11. Chip any delaminated concrete from exposed rebar, clean and seal exposed bar and patch spalls. Sack honeycombed areas throughout soffit. Shotblast deck surface, patch spalled areas and apply epoxy overlay.</li> </ol>	<p>B</p> <p>S</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p>	19-Apr-19
Tukwila 15	Pacific Hwy	Pacific/TIB at Duwamish	<ol style="list-style-type: none"> <li>1. Repair leaky pipe inside the west girder</li> <li>2. Arrest channel erosion along the south bank</li> <li>3. Repair the approach guardrails at the southwest, southeast, and northeast ends</li> <li>4. Apply epoxy overlay on the bridge deck</li> </ol>	<p>A</p> <p>A</p> <p>B</p> <p>C</p>	16-Aug-18

Bridge Number	Bridge Name	Location	Repair Recommendations	Priority	Inspection Date
Tukwila 16	S 119th Pedestrian	S 119th Street	<ol style="list-style-type: none"> <li>1. Repair warped and twisted deck planks, deck has non-skid coating but timber is still weathered</li> <li>2. Major rehabilitation or replacment in near future</li> <li>3. Special inspection requested to inspect the underside of the superstructure</li> </ol>	B A A	25-Apr-19
Tukwila 17	Foster Golf Course	Foster GC	<ol style="list-style-type: none"> <li>1. Monitor bearing movement at Abutment 1</li> <li>2. Remove blackberry bushes under the bridge</li> </ol>	M C	11-Apr-19
Tukwila 18	Green River	Interurban trail near 180th	<ol style="list-style-type: none"> <li>1. Monitor utility pipe alignment</li> <li>2. Repair chord patching material debonding</li> <li>3. repair and replace rotting timber pedestrian rail</li> <li>4. Paint entrie superstructure</li> </ol>	M B B B	6-Aug-18
Tukwila 19	Interurban Trail	Interurban Trail at TIB	No repairs noted	-	11-Sep-18
Tukwila 20	180th Ped	Interurban trail at 180th	<ol style="list-style-type: none"> <li>1. Monitor leaching cracks in abutment and retaining walls</li> <li>2. Remove debris from bearing seat</li> <li>3. repair approach settlement</li> </ol>	M C B	16-Aug-18
Tukwila 21	Fort Dent Road	Fort Dent Road	<ol style="list-style-type: none"> <li>1. Trim vegetation overhanging along sidewalk</li> </ol>	C	16-Aug-18
Tukwila 22	Fort Dent Trail	Interurban trail	<ol style="list-style-type: none"> <li>1. Trim overgrowing vegetation at approaches</li> <li>2. Remove debris on chords of bridge girders</li> <li>3. Replace missing safety chains at corners of bridge</li> </ol>	C M B	16-Aug-18
Tukwila 24	Klickitat Drive	Klickitat Drive	No repairs noted	NA	25-Apr-19
4001 (Kent-Tukwila Joint Ownership)	196-200th	196th Street	<ol style="list-style-type: none"> <li>1. Repair west approach settlement (Scheduled for Fall/Winter 2019)</li> <li>2. repair guardrail at bridge approaches and replace damaged W Beam</li> <li>3. Repair joints and seals</li> <li>4. Clean deck drains</li> </ol>	A B B B	18-Apr-19

**City of Tukwila  
Bridge ADT Schedule**

Bridge Average Daily Traffic (ADT)					
Bridge Number	Name	Year Built	Structure ID	ADT	Next ADT Reqd (5 yr Cycle)
Tukwila 01	Macadam Road	1997	08674200	3600	2024
Tukwila 02	Frank Zepp	1968	08561400	36000	2022
Tukwila 03	Lois T Newton	1973	08544400	18900	2021
Tukwila 05	South-center Blvd	1994	0014269D	10616	2023
Tukwila 06	Foster 56th Ave	1985	08166200	2850	2024
Tukwila 07	51st Ave South	1996	08634500	4600	2024
Tukwila 08	Grady Way	1986	08543600	25500	2024
Tukwila 09	E Marginal Way	1989	08110200	13000	2024
Tukwila 11	BAR Airport Way	1952	08001800	40000	2024
Tukwila 12	BAR BNSF	1945	08002500	38800	2021
Tukwila 13	Beacon Ave S	1971	7996800	500	2020
Tukwila 14	42nd Ave S	1949	08651500	10300	2023
Tukwila 15	Pacific Hwy	2000	08651500	30300	2021
Tukwila 21	Fort Dent Road	1975	08328300	1115	2023
Tukwila 24	Klickitat	2012	08853600	14024	2023
4001	196-200th	1998	08712100	17406	2023