



## **INFORMATIONAL MEMORANDUM**

**TO:** Transportation and Infrastructure Services Committee  
**FROM:** Hari Ponnekanti, P.E., Public Works Director/ City Engineer  
**BY:** Adam Cox, P.E., Transportation Project Manager  
**CC:** Mayor Allan Ekberg  
**DATE:** May 12, 2023  
**SUBJECT:** 42<sup>nd</sup> Ave S Bridge Replacement Project - 60% Plans and Estimate (P&E) Update

### **ISSUE**

Project update on the 42<sup>nd</sup> Ave S Bridge Replacement.

### **BACKGROUND**

In November of 2020, Council awarded a design contract to TranTech Engineering, LLC for the forthcoming design work on the 42<sup>nd</sup> Ave S Bridge. The project received full construction funding in early 2022 with grant awards from Puget Sound Regional Council, the Local Bridge Program, and Move Ahead Washington. The Type, Size, and Location (TS&L) report was initially presented to the Council in February 2022 and submitted to the state in April 2022, with comments received June 2022.

### **ANALYSIS**

Between the TS&L report submittal and the 30% P&E submittal, it was estimated that the Plans, Specifications, and Estimate for construction advertisement would be available by December 2023. At the 30% P&E submittal milestone, TranTech's permit subconsultant began verifying what agencies require permit applications. The majority of the permitting agencies will not field/take applications for permits until the 30% P&E threshold is met. With the transition to 60% P&E, permit agencies informed project staff that internal permit processes require additional time for review and acceptance. With a better understanding of the permit application and timeline, the timeline has been adjusted to have advertisement ready documents ready in December 2024. For the 42<sup>nd</sup> Ave S Bridge replacement, the project team is coordinating with: Department of Natural Resources, US Army Corps of Engineers, US Coast Guard, Federal Highway Administration, Washington State Department of Transportation, Washington Department of Ecology, Washington State Department of Fish and Wildlife, King County Parks and Recreation, King County Sewer, Seattle City Light, local businesses, and Tukwila's Department of Community Development. The project staff will also coordinate with multiple utility providers to relocate current infrastructure. Given new specific details of the of the 60% P&E submittal, TranTech's permit subconsultant has the information needed to complete the required material for all the permits listed in the permit table attached to the info memo.

### **NEXT STEPS**

TranTech will continue to move the design forward from 60% to 90%. The project is expected to go to bid in the first quarter of 2025.

### **FISCAL IMPACT**

Through April 2023, TranTech has expended \$1,034,276.83 of the \$2,606,661 contract total, putting the project well within budget.

### **RECOMMENDATION**

Discussion Only. Staff request to forward this item for further discussion to the 05/22/23 Committee of the Whole meeting.

**ATTACHMENT:** 42<sup>nd</sup> Ave S Bridge Permit Table  
Project design Schedule

**42<sup>ND</sup> AVENUE S BRIDGE REPLACEMENT – PERMIT TRACKING TABLE**

**UPDATED: March 28, 2023**

Permit/Compliance	Agency	Status	Estimated Agency Review Duration	Estimated Permit/Approval Acquisition	Notes
SEPA	City	No update	120 days	December 2023	Draft in-process; complete with 60% design.
Shoreline Master Program	City	No update	120 days	December 2023	Initiate at 60% design.
NEPA CE	WSDOT	No update	15 days	October 2024	Preliminary NEPA form prepared for WSDOT kickoff (2/14/23).
Section 4(f) – Green River Trail	WSDOT	No update	30 days	July 2023	Initiate at 60% design.
Section 4(f) – Tukwila Community Center	WSDOT	No update	30 days	July 2023	Initiate at 60% design.
Section 106 National Historic Preservation Act	DAHP (WSDOT)	Area of Potential Effect (APE) approved; subconsultant to provide subsequent evaluation support.	45 days	November 2023	Compliance coordinated through WSDOT. APE consultation identified known archaeological site in the project area; bridge to be evaluated for historic eligibility. Section 4(f) compliance may be needed for impacts to eligible historic resources (TBD).
Section 7 ESA (Biological Assessment)	NOAA/USFWS (WSDOT)	No update	Up to one year	October 2024	Compliance coordinated through WSDOT. Draft in-process.
Section 10 RHA/Section 404 CWA	US Army Corps of Engineers	No update	Up to one year	November 2024	Draft in-process; complete with 60% design.
Aquatic Land Easement – Existing Bridge (demo access)	DNR	No update	Up to one year	November 2024	Initiate at 60% design.
Aquatic Land Easement – Temp Bridge	DNR	No update	Up to one year	November 2024	Initiate at 60% design.
Aquatic Land Easement – New Bridge	DNR	No update	Up to one year	November 2024	Initiate at 60% design.
Aquatic Land Easement – Construction Easement	DNR	No update	Up to one year	November 2024	Initiate at 60% design.
Aquatic Land Easement – Water Line	DNR	No update	Up to one year	November 2024	Initiate at 60% design.
Aquatic Land Easement – PSE Gas Line	DNR	No update	Up to one year	November 2024	To be determined if City will apply on behalf of PSE.
Hydraulic Project Approval	WDFW	No update	45 days	February 2024	Submittal following issuance of SEPA determination.
Section 9 RHA/Bridge Permit	US Coast Guard	Complete	N/A	Complete	Advance Approval issued 8/27/21

RHA = Rivers and Harbors Act  
 CWA = Clean Water Act  
 CE = Categorical Exclusion  
 DAHP = Washington Department of Archaeology and Historic Preservation  
 DNR = Washington Department of Natural Resources

NOAA = National Oceanic and Atmospheric Administration, National Marine Fisheries Service  
 USFWS = U.S. Fish and Wildlife Service  
 WSDOT = Washington Department of Transportation  
 ESA = Endangered Species Act  
 WDFW = Washington Department of Fish and Wildlife

Change log:  
 3/28/2023 – Initial preparation of summary table.

ID	Task Name	Duration	Start	Finish	021 Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 2023	Qtr 1, 2024	Qtr 2, 2024	Qtr 3, 2024	Qtr 4, 2024	Qtr 1, 2025	
1	<b>Project Initiation with County</b>	<b>45 days</b>	<b>Mon 1/3/22</b>	<b>Fri 3/4/22</b>														
2	Notice of Award	1 day	Mon 1/3/22	Mon 1/3/22														
3	Develop SOW and Negotiate Contract	10 days	Tue 1/4/22	Mon 1/17/22														
4	City Council Approval & Notice-to-Proceed	20 days	Tue 1/18/22	Mon 2/14/22														
5	Kick-off Meeting - Execution Plan	5 days	Tue 2/15/22	Mon 2/21/22														
6	Gather Existing Information	9 days	Tue 2/22/22	Fri 3/4/22														
7	<b>Surveying and Mapping</b>	<b>40 days</b>	<b>Mon 3/7/22</b>	<b>Fri 4/29/22</b>														
8	Obtain Deeds & Prepare Research	10 days	Mon 3/7/22	Fri 3/18/22														
9	Perform Field Survey	15 days	Mon 3/21/22	Fri 4/8/22														
10	Process, Integrate, and Prepare Topographic Map	15 days	Mon 4/11/22	Fri 4/29/22														
11	<b>Geotechnical Investigations</b>	<b>340 days</b>	<b>Mon 3/7/22</b>	<b>Fri 6/23/23</b>														
12	Field Investigations	10 days	Mon 3/7/22	Fri 3/18/22														
13	Prepare & Submit Draft Geotechnical Report	30 days	Mon 3/21/22	Fri 4/29/22														
14	Prepare & Submit Final Geotechnical Report	300 days	Mon 5/2/22	Fri 6/23/23														
15	<b>Environmental Investigations &amp; Permitting</b>	<b>690 days</b>	<b>Mon 3/7/22</b>	<b>Fri 10/25/24</b>														
16	Field Investigations	30 days	Mon 3/7/22	Fri 4/15/22														
17	Prepare Preliminary NEPA CE Form	97 days	Mon 9/19/22	Tue 1/31/23														
18	Prepare SEPA Checklist & Submit	326 days	Mon 9/19/22	Mon 12/18/23														
19	Prepare Draft Critical Areas Report & Mitigation Plan & Submit	117 days	Mon 9/19/22	Tue 2/28/23														
20	Prepare JARPA for HPA & Submit	206 days	Mon 9/19/22	Mon 7/3/23														
21	Prepare Final NEPA CE Form & Submit	453 days	Wed 2/1/23	Fri 10/25/24														
22	Finalize Critical Areas Report & Mitigation Plan & Submit	153 days	Wed 3/1/23	Fri 9/29/23														
23	Review of Final Park Restoration Drawings and Cost Estimate	83 days	Fri 12/1/23	Tue 3/26/24														
24	<b>TS&amp;L and Alternative Design Study</b>	<b>100 days</b>	<b>Mon 5/2/22</b>	<b>Fri 9/16/22</b>														
25	Development of Alternatives	29 days	Mon 5/2/22	Thu 6/9/22														
26	Structural Design	15 days	Fri 6/10/22	Thu 6/30/22														
27	Civil, Roadway, and Drainage Design	15 days	Fri 6/10/22	Thu 6/30/22														
28	Review Meeting with City	0 days	Fri 6/10/22	Fri 6/10/22														
29	Constructability & Cost Estimate	5 days	Fri 7/1/22	Thu 7/7/22														
30	QA/QC	6 days	Fri 7/8/22	Fri 7/15/22														
31	Prepare & Submit Draft Report	7 days	Mon 7/18/22	Tue 7/26/22														
32	City Review of Submittal	7 days	Wed 7/27/22	Thu 8/4/22														
33	Prepare Final Report	5 days	Wed 8/24/22	Tue 8/30/22														

<b>Project:</b> 42nd Ave S Bridge Replacement Project <b>Date:</b> Wed 1/18/23	Task		Project Summary		Inactive Summary		Manual Summary		External Milestone	
	Split		External Tasks		Manual Task		Start-only		Progress	
	Milestone		External Milestone		Duration-only		Finish-only		Deadline	
	Summary		Inactive Milestone		Manual Summary Rollup		External Tasks			

ID	Task Name	Duration	Start	Finish	Q1 2021	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025
34	QA/QC	10 days	Wed 8/31/22	Tue 9/13/22													
35	Submit Final Report	3 days	Wed 9/14/22	Fri 9/16/22													
36	<b>Plans, Specifications, and Estimate</b>	<b>579 days</b>	<b>Fri 9/16/22</b>	<b>Wed 12/4/24</b>													
37	<b>30% PS&amp;E Documents</b>	<b>114 days</b>	<b>Fri 9/16/22</b>	<b>Wed 2/22/23</b>													
38	Structural Design	91 days	Fri 9/16/22	Fri 1/20/23													
39	Civil, Roadway, and Drainage Design	91 days	Fri 9/16/22	Fri 1/20/23													
40	QA/QC - Constructability Review - Cost Estimation	5 days	Mon 1/23/23	Fri 1/27/23													
41	Prepare 30% PS&E Package & Submit	2 days	Tue 1/31/23	Wed 2/1/23													
42	City Review of Submittal	15 days	Thu 2/2/23	Wed 2/22/23													
43	<b>60% PS&amp;E Documents</b>	<b>65 days</b>	<b>Thu 2/23/23</b>	<b>Wed 5/24/23</b>													
44	Structural Design	30 days	Thu 2/23/23	Wed 4/5/23													
45	Civil, Roadway, and Drainage Design	30 days	Thu 2/23/23	Wed 4/5/23													
46	QA/QC - Constructability Review - Cost Estimation	10 days	Thu 4/6/23	Wed 4/19/23													
47	Prepare 60% PS&E Package & Submit	10 days	Thu 4/20/23	Wed 5/3/23													
48	City Review of Submittal	15 days	Thu 5/4/23	Wed 5/24/23													
49	<b>90% PS&amp;E Documents</b>	<b>171 days</b>	<b>Thu 5/25/23</b>	<b>Thu 1/18/24</b>													
50	Structural Design	136 days	Thu 5/25/23	Thu 11/30/23													
51	Civil, Roadway, and Drainage Design	136 days	Thu 5/25/23	Thu 11/30/23													
52	QA/QC - Constructability Review - Cost Estimation	10 days	Fri 12/1/23	Thu 12/14/23													
53	Prepare 90% PS&E Package & Submit	10 days	Fri 12/15/23	Thu 12/28/23													
54	City Review of Submittal	15 days	Fri 12/29/23	Thu 1/18/24													
55	<b>100% PS&amp;E Documents and WSDOT Review</b>	<b>173 days</b>	<b>Fri 1/19/24</b>	<b>Tue 9/17/24</b>													
56	Structural Design	117 days	Fri 1/19/24	Mon 7/1/24													
57	Civil, Roadway, and Drainage Design	15 days	Fri 1/19/24	Thu 2/8/24													
58	QA/QC - Constructability Review - Cost Estimation	5 days	Tue 7/2/24	Mon 7/8/24													
59	Prepare 100% PS&E Package & Submit	8 days	Tue 7/9/24	Thu 7/18/24													
60	City & WSDOT Review of Submittal	43 days	Fri 7/19/24	Tue 9/17/24													
61	<b>Ad Ready PS&amp;E Documents</b>	<b>56 days</b>	<b>Wed 9/18/24</b>	<b>Wed 12/4/24</b>													
62	Structural Design	49 days	Wed 9/18/24	Mon 11/25/24													
63	Civil, Roadway, and Drainage Design	49 days	Wed 9/18/24	Mon 11/25/24													
64	QA/QC - Constructability Review - Cost Estimation	3 days	Tue 11/26/24	Thu 11/28/24													
65	Prepare Ad Ready PS&E Package & Submit	4 days	Fri 11/29/24	Wed 12/4/24													
66	Ad Ready PS&E Bid Ready Package Submittal	0 days	Wed 12/4/24	Wed 12/4/24													

<b>Project:</b> 42nd Ave S Bridge Replacement Project <b>Date:</b> Wed 1/18/23	Task		Project Summary		Inactive Summary		Manual Summary		External Milestone	
	Split		External Tasks		Manual Task		Start-only		Progress	
	Milestone		External Milestone		Duration-only		Finish-only		Deadline	
	Summary		Inactive Milestone		Manual Summary Rollup		External Tasks			