Hwy 99W Pedestrian Bridge

Sherwood City Council Work Session

Project

April 19, 2022





Meeting Goals:

Provide update to City Council on progress made and solicit input selection of a preferred alternative for further development.

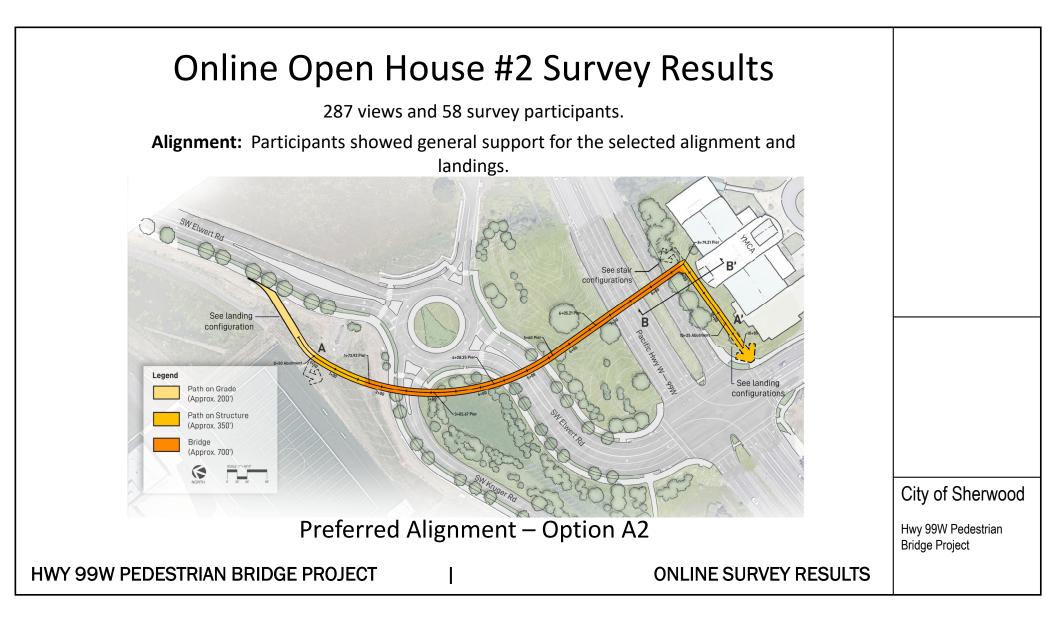
Agenda:

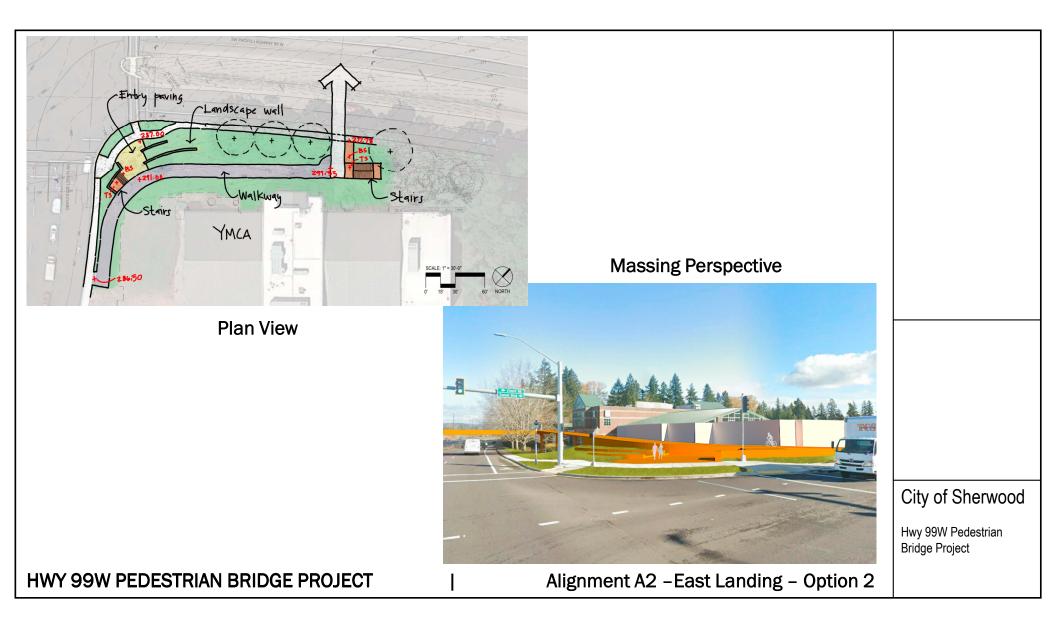
- Online Open House #2 Survey Results
- High School View Impacts
- Alternatives Analysis
- Action Needed

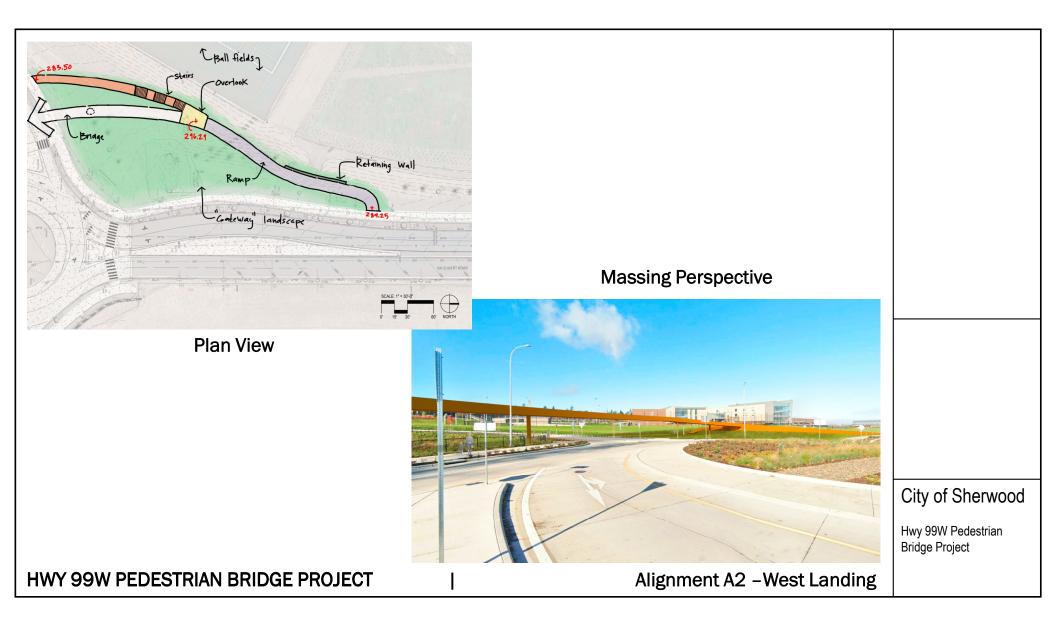
HWY 99W PEDESTRIAN BRIDGE PROJECT

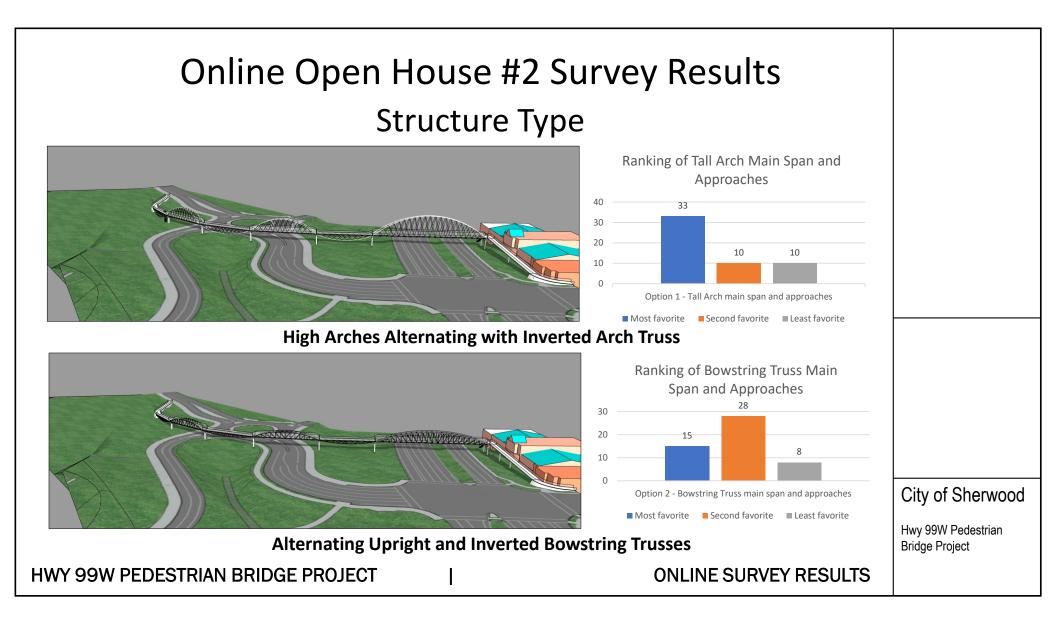
AGENDA

City of Sherwood









Online Open House #2 Survey Results Structure Type

- 62% chose the Tall Arch option as their favorite option.
- 28% chose Bowstring Truss as their favorite option
- Both Tall Arch and Bowstring Truss were chosen as first or second favorite option by 80% of the respondents
- 63% chose the Tall Arch with Twin Girders approach option as their least favorite option
- Participants strongly preferred a steel bridge (75%) to a wood bridge (13%)

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ONLINE SURVEY RESULTS

High School Visual Impacts



View of High School from northbound Hwy 99W at SW Sunset Blvd intersection.

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HIGH SCHOOL VISUAL IMPACTS

City of Sherwood

High School Visual Impacts



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HIGH SCHOOL VISUAL IMPACTS

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Alternatives Analysis Matrix

| Goals | Alignment A2 | | | |
|-------------------------------|--|--|---|--------------------------------------|
| | Bridge Type | | | |
| | Tall Arch Main Span / Arch Approaches | Bowstring Truss Main Span and Approaches | Tall Arch Main Span / Twin Girder Approaches | |
| Safety Improvement | The alignment eliminates all pedestrian crossing conflicts between Hwy 99W and SHS. | | | |
| Connectivity | The alignment provides direct connection between the YMCA, SHS, and the multiuse trail on SW Elwert Rd and SW Kruger Rd. | | | |
| Accessibility | All approaches to meet ADA | | | |
| Desirability | Most direct route (1280' to | Most direct route (1280' total route length). | | |
| Utility Impacts | Overhead utility line adjustments and coordination with utilities required. | | | |
| Environmental Impacts | Moderate potential for wetland and/or vegetated corridor impacts. | | | |
| Signature Structure Potential | High (Bridge would be unique to Sherwood) | | Moderate (Similar bridges in NW) | |
| Gateway Design Potential | All alternative structure typ | All alternative structure types allow for a high gateway design potential. | | |
| ROM Construction Cost | \$13M | \$14M | \$13M | City of Sherwood |
| | | | | Hwy 99W Pedestrian Bridge Project |
| 99W PEDESTRIAN BRIDGE I | PROJECT | Δ | Iternatives Analysis | |

Action Needed

Confirm selection of preferred alternatives for alignment, structure type and structure material or indicate additional information needed.

- Alignment Option A2 with East Landing Option 2 identified as preferred alignment at previous Council work session.
- Preferred Structure Type
 - High Arches Alternating with Inverted Arch Truss
 - Alternating Upright and Inverted Bowstring Trusses
 - High Arch Main Span with Twin Girder Approach
- Structure Material Type
 - Steel identified as preferred at prior Council session and preferred by survey respondents.

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ACTION NEEDED

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