

BETTER – SAFER – CONNECTED

March 31, 2020

Senior Agency Staff Group – Agenda Meeting #11

Project:	Earthquake Ready Burnside Bridge	
Subject:	Senior Agency Staff Group Meeting #11	
Date:	Tuesday, March 31, 2020	
Time:	(2:45 p.m. Early Arrival) 3:00 – 5:00 p.m.	
Location:	WebEx Virtual Meeting	

SASG MEMBERS

Mark Lear, Portland Bureau of Transportation Brian Monberg, City of Gresham Chris Deffebach, Washington County Malu Wilkinson, Metro Mike Bezner, Clackamas County Steve Witter, TriMet Mike Morrow, FHWA Sam Hunaidi, ODOT Amanda Kraus, Sen. Kathleen Taylor's Office Dan Bower, Portland Streetcar Greg Theisen, Port of Portland Zoe Bluffstone, Rep. Smith Warner's Office Jean Senechal Biggs, City of Beaverton Brett Horner, Portland Parks Bureau

PROJECT TEAM INVITES

Ian Cannon, MultCo Megan Neill, MultCo Liz Smith Currie, MultCo Chris Fick, MultCo Mike Pullen, MultCo Heather Catron, HDR Steve Drahota, HDR Cassie Davis, HDR Jeff Heilman, Parametrix Joey Posada, Envirolssues

Purpose:

- 1. Provide an update on the project and key activities since the SASG last met.
- 2. Share results of Community Task Force weightings process and next steps in getting to a recommended Preferred Alternative.
- 3. Share a common understanding of the purpose of the Joint-Agency Ratings Workshop.
- 4. Review and discuss what the team is learning about the technical analysis.





BETTER - SAFER - CONNECTED

March 31, 2020

Agenda:

Time	Торіс	Lead
2:45 p.m.	Early Arrival – join WebEx meeting platform early to get	All
	familiar and situated.	
3:00 p.m.	Welcome and Introductions	Heather Catron
3:15 p.m.	Project Update	Heather Catron / Team
	PG Approval of Range of Alts, Cross Sections,	
	Evaluation Criteria, Traffic Management	
	Timeline	
	Funding Update	
	Working/Focus Groups	
	Stakeholder Briefings	
3:30 p.m.	Technical Updates	Steve Drahota
	Long-span Option	
	CR-AVE Highlights	
	Transportation Analysis	
3:50 p.m.	CTF Update	Heather Catron / Steve Drahota
	Getting to a PA Recommendation - Timeline	
	Weightings	
4:00 p.m.	Joint-Agency Criteria and Measures Ratings Workshop	Jeff Heilman
4:15 p.m.	Environmental Technical Reports	Jeff Heilman / Steve Drahota
	Early Findings	
	Report Reviews Status	
4:45 p.m.	Upcoming Meetings and Next Steps	Heather Catron
5:00 p.m.	Adjourn	All







EQRB Stakeholder Briefings Tracking Log

Date	Stakeholder (Organization/Affiliate)
COMPLETED	
	National Association of Minority Contractors - Oregon
22-Feb-19	Native American Youth and Family Center
	A Home for Everyone
	Ride Connection
5-Mar-19	
	Immigrant and Refugee Community Organization
22-May-19	Central Eastside Industrial Council (CEIC)
24.14.40	Transportation and Parking Advisory Committee
-	Burnside Skatepark
	Coalition of Communities of Color
	Templeton Property Management; RJ Templeton building
	Beam Development (Eastside Exchange Building)
13-Jun-19	Pacific Coast Fruit Company
17-Jun-19	FPI Management; The Yard building
19-Jun-19	Oregon Nikkei Legacy (Japanese Historical Plaza)
10-Jul-19	Portland Saturday Market
11-Jul-19	
12-Jul-19	Gerding Edlen; 5 MLK building
16-Jul-19	University of Oregon
17-Jul-19	Portland Rescue Mission
18-Jul-19	Portland Rose Festival
18-Jul-19	Central City Concern
23-Jul-19	Mercy Corps
30-Jul-19	Salvation Army - Female Emergency Shelter
31-Jul-19	Prosper Portland - Staff
31-Jul-19	Rose City Transportation
1-Aug-19	Urban Development + Partners
6-Aug-19	Portland Parks Board (subcommittee)
6-Aug-19	Key Development
	Coalition of Communities of Color
	East Multnomah County Transportation Committee
	MultCo BPCAC
	Portland Business Alliance
	Night Strike
	Native American Rehabilitation Association
	CB Richard Ellis; Old Town Storage Building
	MultCo Cascadia Preparedness Advocates Group
	Old Town Community Association
-	Portland Freight Advisory Council
-	Go Lloyd
9-Sep-19	Historic Landmarks Commission
	Portland Bike Advisory Committee
11-Sep-19	Lower Columbia Region Harbor Safety Committee
12-Sep-19	Pearl District Neighborhood Association
12-Sep-19	Regional Public Information Officers
13-Sep-19	Portland Parks Director
17-Sep-19	Portland Pedestrian Advisory Committee
17-Sep-19	City Club's Earthquake Resilience Advocacy Committee
18-Sep-19	Kerns Neighborhood Association
19-Sep-19	Portland Design Commission
20-Sep-19	MultCo DCHS





EQRB Stakeholder Briefings Tracking Log

-	Chelestalder (Organization (Affiliate)
Date	Stakeholder (Organization/Affiliate)
1-Oct-19	Getting There Together
2-Oct-19	Frog Ferry
3-Oct-19	Clackamas County Coordinating Committee
3-Oct-19	WCCC Transportation Advisory Commitee
7-Oct-19	Region 1 Area Commission on Transportation
9-Oct-19	MultCo Sustainability Committee
14-Oct-19	WashCo Coordinating Committee
18-Oct-19	Dr. Lucy Jones
22-Oct-19	Downtown Neighborhood Association
28-Oct-19	MultCo Disability Services Advisory Council
29-Oct-19	Metro Councilors (small group briefing)
5-Nov-19	Gresham Chamber & Visitors Center
7-Nov-19	The Yard/FPI Management
15-Nov-19	Asian Pacific American Network of Oregon (APANO)
20-Nov-19	East Portland Chamber of Commerce
21-Nov-19	Vancouver Baptist Church
25-Nov-19	Portland Parks Senior Management Team
26-Nov-19	Native American Youth and Family Center
2-Dec-19	Coalition of Communities of Color
2-Dec-19	Verde
3-Dec-19	MultCo REACH/ACHIEVE Program Staff
11-Dec-19	Business for a Better Portland (Subgroup)
19-Dec-19	Portland City Council
8-Jan-19	MultCo REACH / ACHIEVE Program Committee
8-Jan-20	Venerable Properties
10-Jan-19	Portland Saturday Market
13-Jan-20	Metro RSTIC Open House
15-Jan-19	Burnside Skatepark
16-Jan-19	Japanese Museum of Oregon (formerly Nikkei Legacy)
23-Jan-20	Portland Rescue Mission
27-Jan-20	Central City Concern
5-Feb-20	Society of American Military Engineers
6-Feb-20	University of Oregon
7-Feb-20	Voz
21-Feb-20	Asian Pacific American Network of Oregon (APANO)
	Immigrant and Refugee Community Organization
10-Mar-20	Laurelhurst Neighborhood Association



GETTING TO A PREFERRED ALTERNATIVE

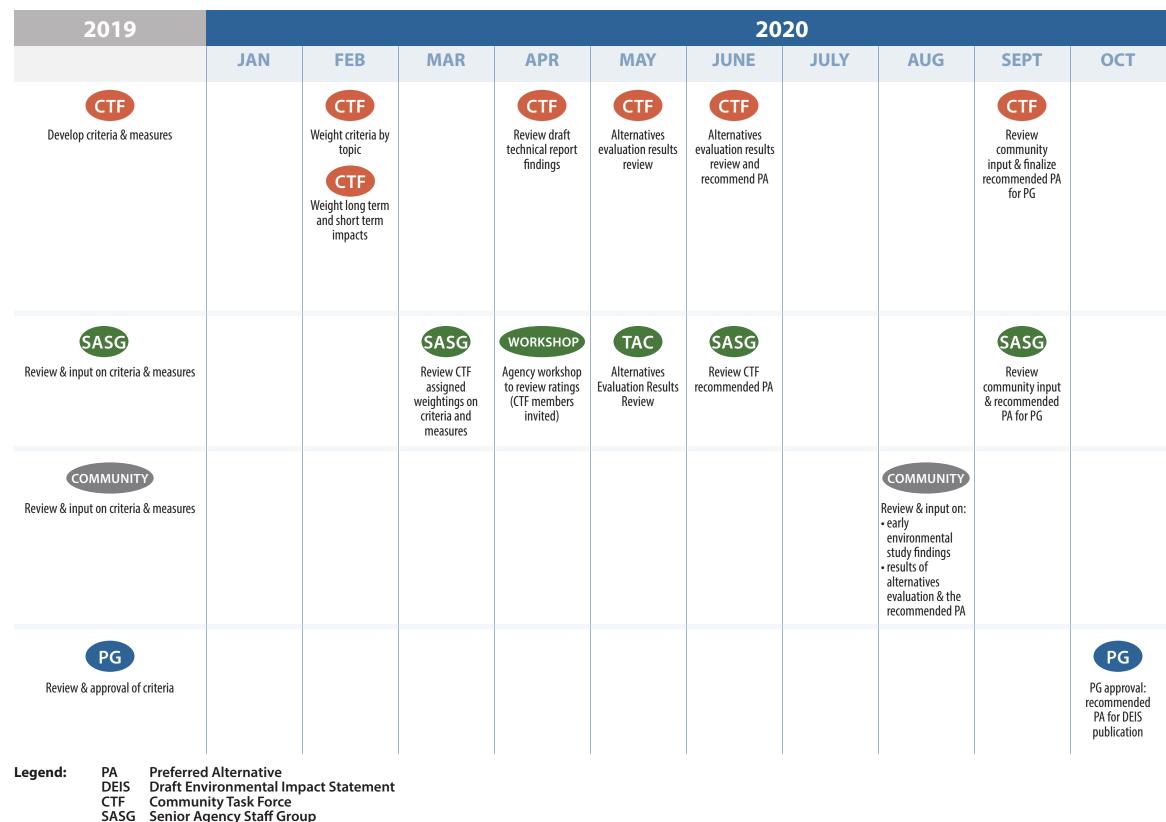
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TAC

Policy Group

Technical Advisory Committee





March 2020

		20	21
NOV	DEC	JAN	FEB
	сомм	UNITY	
	Publish DEIS for ag review & form	ency & community nal comment	
			Multnomah





BETTER – SAFER – CONNECTED

April 21 and 22, 2020

Joint Agency Evaluation Criteria Ratings Workshop

Project:	Earthquake Ready Burnside Bridge	
Subject:	Joint Agency Evaluation Criteria Workshop	
Date:	April 21 and 22, 2020	
Time:	Please attend relevant sessions times	
Location:	HDR, 1050 SW 6th Ave, Portland, OR – 17 th Floor Downing Room	

PURPOSE

• To partner with agency representatives to obtain feedback on rating definitions for the evaluation measures.

AGENDA

- Each session will cover:
 - Welcome and Introductions
 - o Evaluation Criteria and Measures Overview
 - Ratings Discussion
 - Next Steps/Action Items

DAY 1: TUESDAY, APRIL 21, 2020

Time	Session Topics	Session Leads
8:50-9:00 (10 min)	Arrivals and Check-in (at 18th Floor Reception)	
9:00-10:00 (60)	Seismic Resiliency	Drahota
10:00-10:10 (10)	Session Rotation	
10:10-11:10 (60)	Fiscal Responsibility	Drahota
11:10-11:20 (10)	Session Rotation	
11:20-12:20 (60)	Motor Vehicles, Freight and Emergency Vehicles	Drahota
12:20-1:00 (40)	Session Rotation and Lunch Break	
1:00-2:00 (60)	Pedestrian, Bikes and People with Disability	Drahota
2:00-2:10 (10)	Session Rotation and Afternoon Break	
2:10-3:10 (60)	Transit	Drahota
3:10-3:20 (10)	Session Rotation	
3:20-4:20 (60)	Business and Economy	Heilman





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April 21 and 22, 2020

DAY 2: WEDNESDAY, APRIL 22, 2019

Time	Торіс	Session Leads
8:20-8:30 (10 min)	Arrivals and Check-in (at 18 th Floor Reception)	
8:30-9:30 (60)	Crime Reduction and Personal Safety	Heilman
9:30-9:40 (10)	Session Rotation	
9:40-10:40 (60)	Community Quality of Life	Heilman
10:40-10:50 (10)	Session Rotation	
10:50-11:50 (60)	Environmental Justice and Equity	Heilman
11:50-12:30 (40)	Afternoon Break and Session Rotation	
12:30-1:30 (60)	Natural Resources, Climate Change and Sustainability	Heilman
1:30-1:40 (10)	Session Rotation	
1:40-2:40 (60)	Parks and Recreation Resources	Heilman
2:40-2:50 (10)	Session Rotation	
2:50-3:50 (60)	Historic Resources	Heilman
3:50-4:00 (10)	Session Rotation	
4:00-5:00 (60)	Visual and Aesthetics	Heilman





Earthquake Ready Burnside Bridge Better. Safer. Connected.



Joint Agency Evaluation Criteria and Measures Workshop - RSVP's

DAY ONE - TUESDAY, 4/	21	DAY TWO - WEDNESD	DAY, 4/22
Attendees	Organization	Attendees	Organization
8:50-9:00 (10 min)	Arrivals and Check-in (at 18th Floor Reception)	8:20-8:30 (10 min)	Arrivals and Check-in (at 18th Floor Reception)
9:00-10:00 (60)	Seismic Resiliency	8:30-9:30 (60)	Crime Reduction and Personal Safety
Sam Hunaidi	ODOT	Anthony Barber	EPA
Shaneka Owens	FHWA	Valarie Higdon	USACE
Anthony Barber	EPA	Tate White	Portland Parks
Mike Saling	Portland Water Bureau	Patrick Sweeney	City of Portland
Valarie Higdon	USACE	lan Yee	Janus Youth Programs
U			C C
Patrick Sweeney	City of Portland	Dennis Lundberg	Janus Youth Programs
Sasha Pollack	Metro	Robert Devassie	ODOT
Liantao Xu	ODOT		
Robert Devassie	ODOT	9:30-9:40 (10)	Session Rotation
Jonna Papaefthimiou	PBOT	9:40-10:40 (60)	Community Quality of Life
		Anthony Barber	EPA
10:00-10:10 (10)	Session Rotation	Valarie Higdon	USACE
10:10-11:10 (60)	Fiscal Responsibility	Tate White	Portland Parks
Sam Hunaidi	ODOT	Patrick Sweeney	City of Portland
Shaneka Owens	FHWA	lan Yee	Janus Youth Programs
Mike Saling	Portland Water Bureau	Dennis Lundberg	Janus Youth Programs
•		Ũ	-
Valarie Higdon	USACE City of Destland	Robert Devassie	ODOT
Patrick Sweeney	City of Portland		
Liantao Xu	ODOT		
Robert Devassie	ODOT	10:40-10:50 (10)	Session Rotation
		10:50-11:50 (60)	Environmental Justice and Equity
		Sam Hunaidi	ODOT
11:10-11:20 (10)	Session Rotation	Shaneka Owens	FHWA
	Motor Vehicles, Freight and Emergency		
11:20-12:20 (60)	Vehicles	Anthony Barber	EPA
David Warrick	ODOT	Max Bernstein	ODOT
Sam Hunaidi	ODOT	Valarie Higdon	USACE
Shaneka Owens	FHWA	Patrick Sweeney	City of Portland
Matt Kelly	PDOT	lan Yee	Janus Youth Programs
,	EPA		Janus Youth Programs
Anthony Barber		Dennis Lundberg	Ū.
Mike Saling	Portland Water Bureau	Dave Nunamaker	BES
Valarie Higdon	USACE	Robert Devassie	ODOT
Patrick Sweeney	City of Portland		
Roger Geller	City of Portland		
Alex Oreschak	Metro		
Liantao Xu	ODOT		
Zachary Horowitz	ODOT	11:50-12:30 (40)	Afternoon Break and Session Rotation
-		40.00.4.00.(00)	Natural Resources, Climate Change and
Robert Devassie	ODOT	12:30-1:30 (60)	Sustainability
Wendy Cawley	PBOT	Sam Hunaidi	ODOT
		Peter Finley Fry	CTF Member
12:20-1:00 (40)	Session Rotation and Lunch Break	Anthony Barber	EPA
	Pedestrian, Bikes and People with	,	
1:00-2:00 (60)	Disability	Thomas Loynes	ODOT
Sam Hunaidi	ODOT	Valarie Higdon	USACE
Peter Finley Fry	CTF Member	Patrick Sweeney	City of Portland
Shaneka Owens	FHWA	Roger Geller	City of Portland
Matt Kelly	PDOT	Joe Severson	OSMB
Mike Saling	Portland Water Bureau	Dave Nunamaker	BES
•			
Valarie Higdon	USACE	Robert Devassie	ODOT
Tate White	Portland Parks		
Patrick Sweeney	City of Portland	1:30-1:40 (10)	Session Rotation
Roger Geller	City of Portland	1:40-2:40 (60)	Parks and Recreation Resources
Art Graves	CTF Member	Sam Hunaidi	ODOT
Alex Oreschak	Metro	Peter Finley Fry	CTF Member
Liantao Xu	ODOT	Anthony Barber	EPA
Zachary Horowitz	ODOT	Brett Horner	Portland Parks and Rec
Robert Devassie	ODOT	Valarie Higdon	USACE
Wendy Cawley	PBOT	Tate White	Portland Parks
wondy Cawley		Patrick Sweeney	City of Portland
0.00 0.40 (40)		-	-
2:00-2:10 (10)	Session Rotation and Afternoon Break	Art Graves	CTF Member
2:10-3:10 (60)	Transit	Joe Severson	OSMB
Sam Hunaidi	ODOT	Josh Carlson	Mayer/Reed
Peter Finley Fry	CTF Member	Robert Devassie	ODOT
Shaneka Owens	FHWA		

Mike Saling	Portland Water Bureau
Max Bernstein	ODOT
Valarie Hugdon	USACE
Patrick Sweeney	City of Portland
Alex Oreschak	Metro
Liantao Xu	ODOT
Zachary Horowitz	ODOT
Robert Devassie	ODOT
Wendy Cawley	PBOT

3:10-3:20 (10)	Session Rotation
3:20-4:20 (60)	Business and Economics
Peter Finley Fry	CTF Member
Shaneka Owens	FHWA
Mike Saling	Portland Water Bureau
Max Bernstein	ODOT
Valarie Hugdon	USACE
Tate White	Portland Parks
Patrick Sweeney	City of Portland
Robert Devassie	ODOT

2:40-2:50 (10)	Session Rotation
2:50-3:50 (60)	Historic Resources
Sam Hunaidi	ODOT
Magnus Bernhardt	ODOT
Peter Finley Fry	CTF Member
Kristen Scheidt	USACE
Valarie Higdon	USACE
Patrick Sweeney	City of Portland
Art Graves	CTF Member
Hillary Adam	BDS
David Ellis	
Josh Carlson	Mayer/Reed
Robert Devassie	ODOT
3:50-4:00 (10)	Session Rotation

3:50-4:00 (10)	Session Rotation
4:00-5:00 (60)	Visual and Aesthetics
Magnus Bernhardt	ODOT
Sam Hunaidi	ODOT
Peter Finley Fry	CTF Member
Valarie Higdon	USACE
Patrick Sweeney	City of Portland
Art Graves	CTF Member
Hillary Adam	BDS
Josh Carlson	Mayer/Reed
Robert Devassie	ODOT



December 11, 2019

Evaluation Criteria and Measures

Introduction

In June 2019, the Earthquake Ready Burnside Bridge (EQRB) Community Task Force (CTF) recommended draft evaluation criteria topics, based on information available at the time. Since then, at their July and August meetings, the CTF reviewed the draft criteria as well as draft measures for implementing them, and tentatively approved criteria and measures on 8/19/19.

The project team has since gathered input on the CTF's draft criteria and measures from other agency staff and stakeholders. At the CTF's 10/21/19 meeting, the input on the criteria was reviewed and approved for recommendation to the Policy Group. The Policy Group approved the criteria at their 10/28/19 meeting. The CTF then reviewed recommended changes to the measures from agency staff and stakeholders at their 12/2/19 meeting. The criteria and measures will be used to help select a Preferred Alternative during the preparation of the Draft EIS.

Notes on Measures and Scoring:

- Net Effect and Mitigation: Many criteria refer to "minimizing" impacts while others refer to "maximizing" benefits, whereas a few refer to "net benefits" (a combination of adverse and beneficial effects). For any criterion where the DEIS analysis reveals a meaningful "net effect" this can be included in the way that Measures are applied, even where "net effect" is not specifically mentioned in the criterion. When rating the alternatives, the scoring will consider the net effect, including the potential for, feasibility of, and level of commitment to mitigation that would avoid or reduce adverse impacts.
- Tradeoffs across Criteria: Minimizing adverse impacts to resources evaluated in one criterion could result in increasing adverse impacts to resources evaluated in another criterion. Each Measure for each criterion will be evaluated independently of the other criteria, so that where there are tradeoffs or conflicts, the combined effect across different criteria will be reflected in the total score for a given alternative.
- While some of the evaluation criteria are intended to measure the extent to which alternatives would implement certain regulatory objectives, the evaluation criteria are not intended to replace or supersede any relevant regulatory requirements. It is assumed that any selected alternative would need to comply with relevant regulatory requirements.





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Criteria Groups

1. Seismic Resiliency		
	1a.1	Maximize confidence in post-earthquake crossing operability and reparability.
	•	Measure: Qualitative assessment for how much reliance on original components is needed for seismic resiliency.
	•	Measure: Ability to implement reliable seismic performance mechanisms and devices.
E L	1a.2	Maximize ability for all modes to use the crossing post-earthquake.
Те	•	Measure: Ability to accommodate over-dimensional vehicles and loads.
ິພ	•	Measure: Ability to simultaneously accommodate all travel modes.
Long Term	1a.3 •	Minimize risk that adjacent buildings could damage or block the bridge after a major earthquake, and minimize risk that crossing construction could lessen the seismic resilience of adjacent buildings. Measure: Quantify level of risk exposure from adjacent buildings, weighting those alternatives that are at risk due to URM exposure from adjacent buildings at a higher risk.
During Const.	1b.1 •	Minimize delay in achieving a seismically resilient crossing. Measure: Estimated duration of construction





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 Community Quality of Life (includes Indirect Land Use Impacts and Community Resources) 		
Long Term	2a.1 •	Minimize long-term noise and light/shadow impacts. Measure: Qualitative assessment of light/shadow impacts due to changes in roadway alignments relative to land uses (e.g., will new alignment direct headlights at or away from residential uses; will it change sunlight/shadow on residential or community spaces?). Measure: Assessment of noise impacts due to changes in roadway alignments relative to land uses.
	2a.2 •	Minimize long-term impacts to community facilities and events under and near the bridge (e.g., Skatepark, Saturday Market, park festivals, parades, organized runs, etc.). Measure: Number of community facilities impacted, as well as magnitude and character of those impacts (Note: metrics for these two measures may include duration of impact, distance to temporary relocation, number of people affected, or other metrics as appropriate to the facility, event, and impact). Measure: Number of community events impacted, as well as magnitude and character of those impacts. (See note for above Measure).
During Const.	2b.1 •	Minimize temporary impacts to community facilities and events under and near the bridge. Measure: Number of community facilities impacted, as well as magnitude and duration of those impacts. (Note: metrics for these two measures may include duration of impact, distance to temporary relocation, number of people affected, or other metrics as appropriate to the facility, event, and impact). Measure: Number of community events impacted, as well as magnitude and duration of those impacts. (See note for above Measure).





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3. E	quity a	and Environmental Justice (includes Social Services)
	3a.1	Minimize displacements of emergency beds.
	•	Measure: Shelter beds displaced.
	3a.2	Maintain social service providers' long-term ability to provide current level of
		service and potential for enhancement.
	•	Measure: Social service provider functions (not including beds) displaced (measured in square feet displaced, number of clients served by displaced function, and
		availability and quality of replacement functions; quality of replacement includes
		ability to replace the function within the affected service provider, transit access,
		walking distance/time and dependence of remaining services on being proximate to
E		the services that would be displaced).
-ong Term	•	Measure: Permanent access impacts (number and significance), and availability and
ω		quality of alternative access (distance/convenience to alternative access).
-o	•	Measure: Impact on ability of existing services to be enhanced, compared to
_		No-build.
	3a.3	Avoid disproportionate adverse impacts to vulnerable and Environmental Justice communities.
	•	Measure: Based on qualitative analysis of impacts to low income and minority
		populations as measured in the analysis of compliance with the Exec Order on
		Environmental Justice.
		Measure: Based on qualitative analysis of impacts to other vulnerable populations as
		identified during outreach conducted for the Diversity, Equity, and Inclusion program
		outreach.





During Const.	3b.1 • 3b.2 • 3b.3	 Minimize temporary impacts to social service providers. Measure: Social service provider functions temporarily displaced (measured in square feet displaced, number of clients served by displaced function, and availability and quality of temporary replacement functions; quality of replacement includes ability to replace the function within the social service provider affected, transit travel time, walking distance/time and dependence of remaining services on being proximate to the services that would be temporarily displaced). Measure: Temporary access impacts (number, duration, and significance), and availability and quality of alternative access (walking distance/time to alternative locations). Avoid temporary disproportionate adverse impacts to vulnerable and Environmental Justice communities. Measure: Based on qualitative analysis of impacts to low income and minority populations as measured in the analysis of compliance with the Exec Order on Environmental Justice. Measure: Based on qualitative analysis of impacts to other vulnerable populations as identified during outreach conducted for the Diversity, Equity, and Inclusion program outreach. Ensure that design and construction approach allow ample opportunities for DBE firms to be involved in the construction/contracting process. Measure: Approximate percentage of the construction work that could potentially be done by DBE (small) firms, relative to DBE goals.
4. Cri	ime R	eduction and Personal Safety
Long Term	4a.1 •	Maximize personal safety and crime reduction by following principles of Crime Prevention Through Environmental Design (CPTED). Measure: Qualitative assessment of consistency with the CPTED principle of Natural Surveillance. Measure: Ability of design to allow activated spaces and improved sightlines beneath the bridge.
During Const.	N/A	





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5. Bi	5. Business and Economics		
Long Term	5a.1 • 5a.2	Minimize business displacements and permanent access impacts.Measure: Number of business displacements (measured in number of businesses, square feet, or number of employees).Measure: Qualitative assessment of permanent access impacts that do not result in full displacement of business (includes number, duration and magnitude of access impacts, and availability and quality of alternative access).Support redevelopment potential consistent with local plans.	
	•	Measure: Qualitative assessment of the extent to which newly vacant land is able to support uses that are consistent with local plans (vs creating landlocked parcels or supporting changes in use that are not consistent with local plans).	
	5b.1 •	Minimize temporary access impacts to businesses. <i>Measure: Qualitative assessment of short-term access impacts (includes number, duration and magnitude of short-term access impact, and availability and quality of alternative access).</i>	
During Const.	5b.2 •	Minimize temporary regional economic impacts. Measure: Estimated impact of construction on regional economic indicators (e.g., jobs, income, and cost of delay). Measure: Estimated temporary direct and indirect impacts to navigation during	
Dur	5b.3 •	construction. Minimize loss of economic benefits (includes businesses and charities) from temporary impacts to major community events under and near the bridge. <i>Measure: Estimated loss of participation (# of people) in community events that</i> <i>would be impacted; if possible/reliable, estimate the financial impact such as total</i> <i>loss of spending/earnings, or provide auglitative assessment).</i>	





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6. Pa	6. Parks and Recreation Resources		
Long Term	6a.1 •	Minimize park displacements and adverse functionality impacts (include impacts to river recreation). Measure: Assessment of adverse impacts to parks and recreation (e.g., magnitude (square feet) and qualitative assessment of impacts on functions, events, and access (for maintenance, events, etc.). Measure: Qualitative assessment of beneficial impacts (e.g., access, functions, potential to increase Parks revenues, increase resiliency, etc.).	
During Const.	6b.1 •	Minimize temporary impacts to parks. Measure: Magnitude (square feet) of temporary parkland displacements. Measure: Assessment of temporary impacts to parks (e.g., magnitude (square feet) and qualitative assessment of impacts on functions, events, access (for maintenance, events, etc.). Measure: Impact of displaced events on Parks revenue.	

7. Historic Resources		
	7a.1	Minimize historic resource impacts.
Long Term	•	Measure: Number of resources displaced or damaged (include National Register resources and districts and local historic landmarks and districts) and magnitude/character of impacts.
	•	Measure: Number of resources with access, and context, and indirect impacts, and magnitude/character of impacts.
	•	Measure: Character and magnitude of impacts to historic districts.
نړ بو	7b.1	Minimize temporary impacts to historic resources.
During Const.	•	<i>Measure: Qualitative assessment of construction-related (direct and indirect) impacts to historic resources.</i>





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8. Vi	8. Visual and Aesthetics		
	8a.1 •	Minimize adverse impacts to existing views and view corridors. Measure: Qualitative assessment of potential impacts on existing views and view corridors (consider historic districts' design criteria and City-designated view corridors). Measure: Qualitative assessment of potential compatibility/conflicts with existing urban design features.	
	8a.2	Maximize-aesthetic experience for all users approaching, on, and under the	
Long Term	• 8a.3	bridge. Measure: Qualitative assessment of visual and aesthetic opportunities (based on conceptual designs) for users on and under the bridge during both daytime and nighttime hours. Consider opportunities related to scale, forms and materials, viewing, wayfinding, transitions to and from public spaces, lighting/shade/shadows, and activating areas for public use (consider Portland design guidelines). Create opportunity for a crossing that provides an iconic/demonstrative visual experience.	
	•	Measure: Qualitative assessment of potential to develop gateways, new views, processional experiences, and demonstrative and/or iconic visual experiences of and on the bridge.	
During Const.	N/A		





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9. N	atural	Resources, Climate Change and Sustainability
Long Term	9a.1 •	Minimize impacts to water quality and flooding. Measure: Estimated changes in treatment of stormwater generated from impervious surface compared to No-build.
	•	Measure: Estimated long-term changes in flood levels. Measure: Estimated area of disturbance of potentially contaminated river substrate.
Lon	9a.2 •	Minimize impacts to fish and wildlife. Measure: Estimated changes to aquatic habitat (due to change in pier area below OHW and above the critical scour depth - differentiate habitat quality: higher quality (<20' deep) and lower quality (>20' deep).
	9b.1 • •	Minimize temporary impacts to water quality and flooding. Measure: Estimated area of disturbance in proximity to the Willamette River. Measure: Estimated temporary change in flood levels during construction (reasonable worst-case during construction).
During Const.	9b.2 •	Minimize temporary impacts to air quality, greenhouse gas emissions and carbon sequestration. Measure: Qualitative assessment of effects on emissions due to traffic diversions/detours. Measure: Change in carbon sequestration (based on change in tree cover).
D	9b.3 •	<i>Minimize temporary impacts to fish and wildlife.</i> Measure: Extent of pile driving. Measure: Size of cofferdams and extent of temporary fill in the river.
	9b.4 •	Minimize resource consumption and waste production during construction. Measure: (TBD, based on information provided by Greenroads analysis).





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10. F	 Pedestrians, Bicyclists and People with Disabilities 	
		 Americans with Disabilities Act)
	10a.1	Maximize City's Vision Zero principles for safety and comfort for bicyclists,
		pedestrians, and other low-impact vehicles (e.g., scooters, skateboards).
	•	Measure: Width of bike path, potential for future bicycle climbing lanes, and safety
		at intersections and crossings.
	•	Measure: Width and slope of pedestrian and ADA facilities on bridge.
c	•	Measure: Quality of protection from motor vehicles.
u n	10a.2	Maximize access/connectivity for bicyclists and other low-impact vehicles.
Long Term	•	<i>Measure: How well the bike facility on the bridge connects to existing and planned bike networks.</i>
-o	•	Measure: Quality and quantity of accesses to transit stops and other destinations.
_	10a.3	Maximize access/connectivity for pedestrians and ADA.
	•	Measure: How well the pedestrian and ADA facilities on the bridge connect to
		existing and planned pedestrian and ADA networks.
	•	Measure: How well the pedestrian and ADA facilities on the bridge connects to social
		services and other frequent destinations for users.
	•	Measure: Quality and quantity of accesses to transit stops and other destinations.
	10b.1	Minimize temporary travel time and access/connectivity impacts to bicyclists.
	•	Measure: Extent of out-of-direction travel, or travel time change, for bicyclists during
		construction (reflect information, if available, on origins and destinations of trips
		using the Burnside Bridge; may require quantitative or qualitative assessment and
		professional-judgment; possibly consider the duration of temporary changes in
		access/connectivity).
Ist.	10b.2	Minimize temporary travel time and access/connectivity impacts to pedestrians.
During Const.	•	Measure: Extent of out-of-direction travel, or travel time change, for ADA users and
ы В		pedestrians during construction (reflect information, if available, on origins and destinations of trips using the Burnside Bridge; may require quantitative or
j		qualitative assessment and professional judgment; possibly consider the duration of
Inc		temporary changes in access/connectivity).
	10b.3	Maximize City's Vision Zero principles for safety and comfort for bicyclists,
	100.3	pedestrians, and other low-impact vehicles (e.g., scooters, skateboards).
	•	Measure: Quality of protection of bicycle and pedestrian paths from other modes.
	•	Measure: Width of temporary bicycle and pedestrian paths.
	•	Measure: Qualitative safety assessment of temporary ADA and pedestrian facilities.
	•	Measure: Quality and quantity of accesses to transit connections.





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11.	Motor	Vehicles, Freight and Emergency Vehicles
Long Term	11a.1 • 11a.2 •	 Maximize safety for motor vehicles and freight. Measure: Qualitative assessment of motor vehicle safety based on design (factors including but not limited to: elements that affect operating speed such as lane width and other cross section details, curve radii, as well as potential conflicts with other modes, sideswipes, property damage, and others) Maximize emergency service operations and responsiveness. Measure: Qualitative assessment of emergency service responsiveness independent of a major earthquake (factors including but not limited to: lane width and other cross section details, curve radii, potential conflicts with other modes, and others)
During Const.	11b.1 • •	Minimize temporary access and travel time impacts to freight and emergency vehicles. Measure: Travel time for motor vehicles from point X to point Y (quantitative if travel model provides reliable estimate. Measure: Duration of temporary closure/capacity reduction. Measure: Quantify number and duration of temporary road closures due to construction.
	11b.2 • 11b.3 •	Minimize temporary safety, impacts to motor vehicles, freight, and emergency vehicles.Measure: Qualitative assessment of the safety of construction phase detours and reroutes relative to existing conditions.Minimize temporary access and travel time impacts to motor vehicles.Measure: Travel time for motor vehicles from point X to point Y (quantitative travel model provides reliable estimate).Measure: Duration of temporary closure/capacity reduction.Measure: Quantify number and duration of temporary road closures due to construction.





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12	Transit	
	12a.1	Maximize Streetcar readiness.
	•	Measure: Qualitative assessment of impacts to future Streetcar and bus operations
		(factors including but not limited to: may include lane width and other cross section
		details, curve radii, potential conflict with other modes, and others).
	12a.2	Maximize bus accessibility.
E	•	Measure: Qualitative scale considering presence of dedicated bus pullouts, transit
-er		stops, transfer points to other modes (LRT).
<u>Б</u>	12a.3	Minimize transit collision vulnerability.
Long Term	•	Measure: Qualitative assessment for whether the bridge options create differing intersecting geometries and lane width variations, and how those may increase or decrease the likelihood of motor vehicle collisions with bus, and northbound and southbound Streetcars on MLK and Grand Avenues. (factors including but not limited to: may include lane width, curve radii, intersection cross section, potential for conflicts between modes, anticipated weave motions, and likelihood of sideswipe collisions).
During Const.	12b.1 •	Minimize temporary impacts to transit access, safety, travel times, and ridership. <i>Measure: Frequency and duration of LRT, Streetcar, and bus disruptions.</i>

13.	. Fiscal Responsibility		
Long Term	13a.1 • 13a.2 •	Minimize total Project cost. Measure: Estimated total project cost (including design, right-of-way acquisition, construction, temporary bridge, mitigation, utility relocation, etc.). Minimize long-term maintenance needs/costs. Measure: Number and cost of major maintenance projects expected over life of the bridge, including the necessary bridge repairs following a major earthquake.	
During Const.	N/A		





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December 11, 2019

Topics for evaluation/decision-making in later project phases:

While developing the draft criteria groups, the CTF identified a number of topics that cannot be adequately or fully evaluated with the level of design and information that will be available during the DEIS phase. These are listed below with the recommendation that they be applied in later project phases such as during design or construction:

Seismic Resilience	Include equipment on bridge to create additional resilient functions after a major earthquake
Personal Safety	Maintain a safe construction site Implement design that minimizes risk of attempted suicide from the structure
Ped, ADA, Bicyclists	Maximize pedestrian/bicycle aesthetic experience on the bridge
Sustainability	Waste reduction and use of sustainable materials in design and construction. Energy sustainability in design
Navigation	Bridge lighting and signals do not adversely affect navigation safety
Aesthetics	Bridge lighting does not increase night sky impacts Provide a structure that instills a sense of community pride





Multnomah County

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Upcoming Technical Reports Submittal Dates

Submittal Dates to County for Agency Review				
2/4/20 Tues	Cultural Resources (Hist/Arch) ODOT-Only Review for Section 106 (comments due 2/25/20)			
1/31/20	Design Tech Reports			
Fri	Updated Construction Approach Tech Report			
	 Updated Enhanced Retrofit Tech Report 			
	 Updated Bridge Replacement Tech Report 			
	Updated Geotechnical Tech Report			
	Updated Preliminary Navigation Study			
	Supporting Documents to Design Tech Reports (updated if agency comments required)			
	Seismic Design Criteria			
	Bridge Design Criteria			
	Roadway Deficiency Tech Memo			
Agency Comments	Facilities Standards List			
Due 3/6	Fixed Bridge Removed Recommendation			
2/14/20	EIS Batch 1			
Fri	Transportation			
	Displacements and Relocations			
	Wetlands and Waters			
	 Stormwater Vegetation, Wildlife, and Aquatic Species 			
Agency Comments	 Vegetation, Wildlife, and Aquatic Species Visual Resources 			
Due 3/6	Hazardous Materials			
(Transp. Comments	Supporting Document:			
Due 3/13)	 Description of Alternatives 			
2/24/20	EIS Batch 2			
Mon	Air Quality			
	Noise and Vibration			
	Soils and Geology			
	 Land Use Utilities 			
	Right-of-Way			
Agency Comments	Hydraulics			
Due 3/16	Parks and Recreation			
3/16/20	EIS Batch 3			
Mon	Social/Neighborhoods			
	Economics			
Agency Comments	Public Services			
Due 4/6	Climate Change			
3/27/20	EIS Batch 4			
Fri	• Section 4(f) and 6(f)			
	Cultural Resources (Hist./Arch.)			
	Sustainability (Greenroads Checklist)			
Agency Comments	Environmental Justice/Equity			
Due 4/17	 Health Impact Assessment (prepared by B. Haggerty at Multnomah County) 			