

Ballard Interbay Regional Transportation System (BIRT) Study

Appendix G: Project List

November 2020



Seattle
Department of
Transportation

BIRT APPENDIX G: Project List
Seattle Department of Transportation

Memo Map ID	Project ID	Final Report Project ID	In Final Report? (Y/N)	Project Title	Description in Final Report	Additional Details	Primary Mode	Roadway/Location	Extents (From)	Extents (To)	Subarea	Applicable Bridge Alternative	Source of Project Idea	Notes	Raw Composite Score	Composite Score
MM-17	1	1	Y	Dravus Bridge Replacements	Replace the W Dravus St bridges over the BNSF railroad tracks and 15th Ave W, including widened sidewalks with buffers from traffic, improved lighting, protected bike lanes, and intersection improvements. Related project: W Dravus St Protected Bike Lanes (Project 5)		All Modes	W Dravus Street	20th Ave W	14th Ave W	Interbay	Both Alternatives	Project Team		35	3.26
2-7	P-6	2	Y	Improvements Along Elliott Ave W/15th Ave W	Enhance the pedestrian experience along Elliott Ave W and 15th Ave W from W Boston St to W Mercer Pl by widening sidewalks and adding landscaped buffer, ADA curb ramps, and pedestrian-scale lighting.		Pedestrian	15th Ave W/Elliott Ave W	W Boston Street	W Mercer Place	Smith Cove	Both Alternatives	WSBLE Project Team		34	3.19
2-3	BP-15	3	Y	Wheeler St Pedestrian Bridge	Connect W Wheeler St (east) across the BNSF tracks with the Elliott Bay Trail/20th Ave W via a new pedestrian and bicycle bridge. Applicable only to the Magnolia Bridge In-Kind Replacement		Bike & Pedestrian	W Wheeler Street	15th Ave W	20th Ave W	Interbay	Alternative 1	Project Team		30	2.86
MM-19	4	4	Y	Dravus St/17th Ave Intersection Improvements	Evaluate existing right-of-way allocation at W Dravus St/17th Ave W to improve mobility for northbound and southbound vehicles, and make space for protected bike lanes. Options may include roadway rechannelization or expanding the Dravus St bridge west of the intersection. Related project: W Dravus St Protected Bike Lanes (Project 5); Dravus Bridge Replacements (Project 1)		All Modes	W Dravus Street & 17th Ave W	n/a	n/a	Interbay	Both Alternatives	Project Team		34	2.83

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2-5	B-13	5	Y	W Dravus St Protected Bike Lanes	Implement protected bicycle lanes (PBLs) on W Dravus St between 20th Ave W and the Elliott Bay Trail extension with a future long-term connection to 14th Ave W (requires redesign of the 15th Ave W bridge and ramp intersections).		Bike	W Dravus Street	20th Ave W	14th Ave W	Interbay	Both Alternatives	Bicycle Master Plan	Notes from conversations with SDOT: •Center turn lane could be removed to accommodate protected PBL width on both sides of roadway •Two-way cycle track could work and could link with two-way cycle track on 20th Ave W •PBL could be at-grade throughout corridor and ramp up at RAB via a shared path with green striping	31	2.61
2-6	BP-17; BP-3; BP-4	6	Y	Elliott Bay Trail Extension (East)	Create a parallel multi-use trail along the east side of the BNSF railroad tracks connecting people in the surrounding area to and from the future Smith Cove Link station at W Galer St and the future Interbay Link station at W Dravus St. Provide east-west connections at W Wheeler St, W Howe St, and W Garfield St.	This could potentially be located under the light rail alignment. Add enhanced crossings where the trail crosses roadways. Include a trail connection at W Garfield Street to connect to the GTB Trail in the SW Queen Anne Greenbelt. Add low-stress bicycle facilities and sidewalks on W Howe Street between the trail and 12th Ave W to help connect Queen Anne to the light rail stations, as well as on W Wheeler Street between the trail and 15th Ave W.	Bike & Pedestrian	Elliott Bay Trail	W Galer Street	W Dravus Street	Multiple	Both Alternatives	Bicycle Master Plan; WSBLE Project Team		26	2.57
	BP-18	7	Y	Elliott Bay Trail Upgrades	Widen the narrow northern segment of the Elliott Bay Trail between the Magnolia Bridge and 20th Ave W to allow shared use travel in both directions.	Collaborate with the Port of Seattle, Seattle Parks, Expedia, and the BNSF Railroad to bring the northern portion of the Elliott Bay Trail up to American Association of State Highway and Transportation Official (AASHTO) standards.	Bike & Pedestrian	Elliott Bay Trail	Magnolia Bridge	20th Ave W	Multiple	Both Alternatives	Community Feedback; Seattle Trails Upgrade Plan	Expedia had a MUP condition to participate in this project.	25	2.49
1-8	P-1	8	Y	Improvements Along W Dravus St	Widen sidewalks where feasible along W Dravus St (especially between 20th Ave W and 17th Ave W) and add a landscaped buffer and pedestrian-scale lighting.		Pedestrian	W Dravus Street	20th Ave W	15th Ave W	Interbay	Both Alternatives	WSBLE Project Team; WSBLE Station Charrette; WSBLE L2 nonmotorized workshop		27	2.45

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2-11	P-7; P-8; P-9; P-10	9	Y	Sidewalks within a 10-minute walk of future Link stations	Construct new sidewalks and repair existing sidewalks within the BINMIC, within a 10-minute walk of the future Smith Cove, Interbay, and Ballard light rail stations, and adjacent to RapidRide stations along 15th Ave NW.	<p>Prioritize sidewalks that are currently missing, part of the Pedestrian Priority Investment Network, or in fair/poor condition. In Smith Cove, even though it does not fall within the 10-minute walkshed, build a sidewalk on W Mercer Place between Elliott Ave W and 5th Ave W.</p> <p>In Interbay, critical missing sidewalks are on the south side of W Emerson Street/Place and on 17th Ave W to access the light rail station. In addition, even though it does not fall within the 10-minute walkshed, build a sidewalk on W Nickerson Street west of 13th Ave W on the south side of the street and on Gilman Ave W per the Pedestrian Master Plan. A sidewalk should also be built on 20th Ave W on the east side of the roadway between W Dravus Street and W Bertona Street (it is missing from the sidewalk data).</p> <p>In the BINMIC, also construct/repair crosswalks. Prioritize crosswalks along freight routes or arterial/collector roadways. Consider conducting a survey of BINMIC businesses to identify priority sidewalk and crosswalk improvements.</p>	Pedestrian	n/a	n/a	Multiple	Both Alternatives	Project Team		24	2.43	
3-5	P-11	10	Y	W Emerson St Pedestrian Bridge and Overpass Stairs	Include a pedestrian bridge across 15th Ave W in the vicinity of W Emerson St with the SPU J design proposed with the Ballard Bridge alternatives. Add stairs and elevators to connect the sidewalks on 15th Ave W to the overpasses for people walking and rolling between the pedestrian bridge, sidewalk, and RapidRide stations along 15th Ave W. This project is only applicable to Ballard Bridge replacement alternatives. Related project: Interim 15th Ave/Emerson St Improvements (Project 11)		Pedestrian	Intersection of 15th Ave W & W Emerson Street	n/a	n/a	Interbay	Both Alternatives	Project Team; Community Feedback		24	2.40

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MM-15	11		Y	Interim 15th Ave and Emerson St Improvements	Improve the intersection of 15th Ave W/ W Emerson St with underpass enhancements to address immediate mobility needs, understanding long-term Ballard Bridge replacement will include full intersection redesign. Related Project: W Emerson St Pedestrian Bridge and Overpass Stairs proposes longer-term improvements to this intersection associated with the Ballard Bridge replacement. (Project 10)	This could include but is not limited to: adding a crosswalk and shared use path on W Emerson Street per the recommendation in the Seattle Bridge Safety Analysis report; reconfiguring the intersection and adding a traffic signal (though this may not be feasible due to increased auto delay); building a pedestrian bridge across 15th Ave W in the vicinity of W Emerson Street; adding elevators down to the existing Ship Canal Trail connection below 15th Ave W; and/or other improvements to increase access to the RapidRide stops.	All Modes	Intersection of 15th Ave W & W Emerson St	n/a	n/a	Interbay	Both Alternatives	Project Team: City of Seattle Bridge Safety Analysis; Missed Connection: Ballard Bridge Safety Recommendations		25	2.37
MM-16	12		Y	Interim Ballard Bridge Improvements	Improve the Ballard Bridge to address immediate mobility needs, understanding the Ballard Bridge will be replaced. Interim improvements could include wayfinding; pavement spot improvements; vertical delineation between the travel lanes and sidewalk; or adding wider sidewalks by cantilevering a walkway platform from the existing bridge. Related projects: Ballard Bridge low-level and mid-level alternatives		Bike & Pedestrian	W Emerson Street	NW Ballard Way	Multiple	Both Alternatives	Project Team: City of Seattle Bridge Safety Analysis; Missed Connection: Ballard Bridge Safety Recommendations; Ballard Bridge Sidewalk Widening Concept Study		23	2.32	
2-10	B-14	13	Y	Ballard Locks Connection	Build a bicycle connection through the Ballard Locks that can be used 24 hours a day; 7 days a week, and does not require bicyclists to dismount. Carefully consider impacts to Locks operations and Maritime Vessel Traffic priorities in design.		Bike	Ballard Locks	n/a	n/a	Interbay	Both Alternatives	Bicycle Master Plan	Potential to coordinate with the Lake Washington Ship Canal Master Plan, which is currently taking place.	22	2.27

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1-10	BP-5	14	Y	Ship Canal to Thorndyke Ave Connection	Add a trail connection between the Ship Canal Trail and Thorndyke Ave. W west of 15th Ave W/W Emerson St intersection for a direct connection to the future Interbay light rail station, multi-use trails, and neighborhoods.		Bike & Pedestrian	Thorndyke Ave W/17th Ave W	Ship Canal Trail	W Dravus Street	Interbay	Both Alternatives	Bicycle Master Plan; WSBLE Project Team; WSBLE Station Charrette		24	2.23
1-9	P-2	15	Y	Improvements Along 14th Ave NW	Widen or improve sidewalks along 14th Ave NW from NW Leary Way to Gemenskap Park with upgraded ADA curb ramps, and pedestrian scale lighting. Enhance walking and biking priority along 14th Ave NW to facilitate access to the future Ballard Link station.		Pedestrian	14th Ave NW	NW Leary Way	Gemenskap Park	Ballard	Both Alternatives	WSBLE Project Team; WSBLE Station Charrette		23	2.21
MM-18		16	Y	W Dravus St Signal Optimization	Optimize traffic signals along W Dravus St between 15th Ave W and 20th Ave W to support freight reliability with increased north gate traffic to and from Terminal 91. Related project: Dravus Bridge Replacements (Project 1)		Transit/Freight	W Dravus Street	15th Ave W	20th Ave W	Interbay	Both Alternatives	T91 Uplands Redevelopment Traffic Analysis Memorandum		25	2.13
T-14		17	Y	Route 40 NW Leary Way Bus Lanes	Rechannelize NW Leary Way to include a bus-only lane in one or both directions between 15th Ave NW and NW Market St. 10% design is complete and partially funded via SDOT's Route 40 Transit Plus Multimodal Corridor (TPMC) project. Related project: Leary Way Corridor Management Strategy (Project 44)		Transit	NW Leary Way	15th Ave NW	NW Market Street	Ballard	Both Alternatives	Route 40 TPMC, Leary Way RapidRide		23	2.12

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T-10; T-11	18		Y	Transit Signal Priority (TSP) at Thorndyke Ave/Armory Way	Add transit signal priority/queue jumps at Thorndyke Ave W and Armory Way Bridge to allow buses to make a southbound left onto the Armory Bridge, and westbound to allow buses onto Thorndyke Ave W. Applicable only to the Armory Way bridge alternative. Related project: In-lane bus stops on Thorndyke Ave W (Project 20).	Add transit signal priority/Queue Jump at Thorndyke Ave W & W Armory Way Bridge to allow buses to make a southbound left onto the Armory Bridge.	Transit	Intersection of W Armory Way Bridge & Thorndyke Ave W	n/a	n/a	Interbay	2	Project Team		20	2.11
T-12	19		Y	Mobility Hubs	Ensure adequate lighting, access to shared use mobility services, bike parking, and high-quality bus stop amenities (e.g., seating, weather protection, and real-time information signs) where multiple future routes will converge at multiple locations. Hubs are recommended at future light rail stations (Ballard, Interbay, and Smith Cove) and the west end of the Armory Way Bridge		Transit	Ballard Station area, Interbay Station area, Smith Cove Station area Thorndyke Ave W	Thorndyke Ave W	Armory Way Bridge	Interbay	Both Alternatives	Project Team		22	2.08
T-5	20		Y	In-lane Bus Stops on Thorndyke Ave	Install transit islands on Thorndyke Ave W between W Blaine St and Armory Way Bridge to allow for in-lane bus stops and safe interface between buses and people riding in the protected bike lane. Related project: TSP at Thorndyke Ave/W Armory Way (Project 18)		Transit	Thorndyke Ave W	W Blaine Street	Armory Way Bridge	Interbay	Both Alternatives	Project Team		21	2.04
T-1	21		Y	15th Ave NW/NW Market St Queue Jump	Install a northbound queue jump from the business access and transit (BAT) lane/northbound right turn lane to allow buses to pass		Transit	15th Ave NW & NW Market Street	15th Ave NW	NW Market Street	Ballard	Both Alternatives	RapidRide C and D Line Improvements Speed and Reliability Study		20	1.98

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2-8	MM-4	22	Y	15th Ave W/NW FAT Lanes	Allow for joint-use of bus-only lanes by transit and freight vehicles on 15th Ave W/NW from Denny Way to Market St NW during off-peak times. Freight can operate in bus-only lanes to bypass congestion, and benefits from transit priority treatments on the corridor such as queue jumps.	Transit currently operates rapid and frequent routes on the corridor during peak times and should not be delayed by freight in the bus-only lanes. Transit on this corridor is planned to be reduced by 2042 when WSBLE implemented, at which time freight could operate at all times in the bus-only lanes and delivery vehicles could be permitted.	Transit/Freight	15th Ave W/NW/Elliott Ave/Western Ave	Denny Way	15th Ave NW & Market Street	Interbay	Both Alternatives	Project Team	This could be implemented sooner using existing infrastructure	23	1.96
F-7		23	Y	15th Ave/Dravus Truck Turning and Signalization Improvements	Improve turn radii for trucks and enhanced multimodal operations at 15th Ave W and W Dravus St ramps, including pavement improvements to the bridge surface. Upgrade signal timing and hardware at ramp terminals to ensure vehicle queues on the bridge clear to allow trucks adequate space to turn at intersection. Related projects: Dravus St Signal Optimization (Project 16); Dravus Corridor Management Strategy (Project 39)	Freight	W Dravus Street	NB on/off-ramp	SB Off/On-ramps	Interbay	Both Alternatives	Freight Master Plan Project 7, Project Team			23	1.96
F-9		24	Y	15th Ave W & Armory Way Intersection Improvements	Refine intersection operations at 15th Ave W/W Armory Way to improve pedestrian crossings, and accommodate frequent freight turning movements and freight access on at-grade roadways along W Armory Way. Applicable only to the Armory Way Bridge alternative.	Freight	Intersection of 15th Ave W & Armory Way	n/a	n/a	Interbay	Alternative 2	Project Team			22	1.94
F-4		25	Y	Alaskan Way W/W Galer St and W Galer St Flyover Intersection Improvements	Improve intersection operations at Alaskan Way W/W Galer St, and at Alaskan Way W/W Galer St Flyover.	Freight	Intersection of Alaskan Way W & W Galer Street Flyover	n/a	n/a	Smith Cove	Both Alternatives	Project Team			20	1.93

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1-2	BP-1 26	Y	Crossing Improvements at High Priority Signalized Intersections	Improve crossings for people walking and bicycling at priority signalized intersections. Related project: Drawus St/17th Ave Intersection Improvements (Project 4)	Priority intersections include: Ballard: 15th Ave NW/NW Market St, 14th Ave NW/NW Market St. (Coordinate with potential projects associated with Route 44, which are currently funded) Interbay: W Drawus St/17th Ave W and W Drawus St/15th Ave W Smith Cove: 15th Ave W/W Wheeler St, 15th Ave W/W Garfield St, Elliott Ave W/W Galer St Flyover, Elliott Ave W/W Galer St, and Elliott Ave W/W Mercer Pl Pedestrian improvements may include default walk signal phases (eliminate need to press button), right-turn restrictions for vehicles, improved sightlines for pedestrian visibility, pedestrian refuge islands, ADA ramps, widened crosswalk striping, widened sidewalks to accommodate pedestrians waiting to cross, leading pedestrian intervals, retimed signals to reduce pedestrian crossing delay, longer walk phases, or all-walk phases. Bicycle improvements may include bike detection, bike signals, bike boxes, green paint through intersection, etc.	Bike & Pedestrian	Miscellaneous	n/a	n/a	Multiple	Both Alternatives	Project Team: WSLE Project Team	Notes from conversations with SDOT about BINMIC traffic signals and operations: • Install pedestrian recall buttons at all intersections • Signal priority o Off-peak – Pedestrians o Peak modal priority – 1) Transit; 2) Freight	17	1.87
1-4	BP-2 27	Y	Safety and Crossing Enhancements at High Priority Unsignalized Locations	Evaluate the potential for signalized crossings and enhancements to existing crosswalks at unsignalized intersections and mid-block locations.	Priority locations include: Ballard: 14th Ave NW/NW 54th St, 14th Ave NW/NW 56th St, 14th Ave NW between NW 45th St and NW 54th St, NW Market St/11th Ave NW (Coordinate with potential projects associated with Route 44, which are currently funded), NW Market St/9th Ave NW Interbay: Thorndyke Ave W/21st Ave W/W Armory Way, 15th Ave W/W Bertona St, and at mid-block locations along W Drawus St and 14th Ave W Smith Cove: Elliott Ave W/W Lee St, 15th Ave W between W Armory Way and W Wheeler St, W Galer St/29th Ave W Pedestrian improvements may	Bike & Pedestrian	Miscellaneous	n/a	n/a	Multiple	Both Alternatives	Project Team: WSLE Station Charrette; WSLE Project Team		19	1.87

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					include RRFBS, PHBS, signals, improved sightlines for pedestrian visibility, pedestrian refuge islands, ADA ramps, widened crosswalk striping, and accommodated pedestrians waiting to cross. Bicycle improvements may include bike detection, bike signals, bike boxes, green paint through intersection, etc.										
P-4	28	Y	Pedestrian Improvements at Top Collision Locations	Make improvements at locations with a history of collisions involving people walking and locations with crash risk factors as defined in SDOT's Bike and Pedestrian Safety Analysis.		Pedestrian	Miscellaneous	n/a	n/a	Multiple	Both Alternatives	Bike and Pedestrian Safety Analysis	Specific locations are not legible in the plan's maps.	19	1.87
F-2	29	Y	15th Ave W/Gilman Dr W Intersection Improvements	Improve intersection operations at 15th Ave W/Gilman Dr W.		Freight	Intersection of 15th Ave W & Gilman Drive W	n/a	n/a	Interbay	Both Alternatives	Project Team; Expedia Campus at 1201 Amgen Court W Transportation Technical Report		19	1.86
F-3	30	Y	15th Ave W/W Howe St Intersection Improvements	Improve intersection operations at 15th Ave W/W Howe St.		Freight	Intersection of 15th Ave W & W Howe Street	n/a	n/a	Smith Cove	Both Alternatives	Project Team		23	1.85
	31	Y	15th Ave W/NW and Elliott Ave W Signal Optimization	Install adaptive signal system and a suite of ITS strategies	See Appendix F for additional details on this Corridor Management Strategy.						Both Alternatives	Project Team		21	1.85
3-14	T-13	Y	Signal at W Galer St/Thorndyke Ave W	Signalize W Galer St /Thorndyke Ave W to enhance transit mobility.		Transit	Intersection of W Galer Street & Thorndyke Ave W	n/a	n/a	Interbay	Alternative 1	Expedia Campus at 1201 Amgen Court W Transportation Technical Report		18	1.83
B-17; BP-20	33	Y	Magnolia Trail and Neighborhood Greenway	Build a bicycle and pedestrian connection in Magnolia that connects W Galer St to W Marina Pl along the waterfront to facilitate accessing the Elliott Bay Trail. Install a neighborhood greenway on 32nd Ave W, W Galer St, and W Marina Pl to connect the new trail to the Elliott Bay Trail.		Bike & Pedestrian	W Marina Pl/W Galer Street/32nd Ave W	Elliott Bay Trail	Clise Pl W	Smith Cove	Both Alternatives	Bicycle Master Plan; Magnolia Trail Project; A Feasibility Analysis	This project may require environmental review due to potential hillside construction.	18	1.83

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1-5	B-1	34	Y	W Galer St and Magnolia Blvd Protected Bike Lane	Install protected bicycle lanes (PELs) on W Galer St and Magnolia Blvd W from the Magnolia Bridge to W Howe St per the Bicycle Master Plan.		Bike	W Galer Street/Magnolia Boulevard W	End of Magnolia Bridge	W Howe Street	Interbay	Both Alternatives	Bicycle Master Plan		18	1.83
		35	Y	Magnolia Bridge Corridor Management Strategies	Incorporate channelization/roadway and capital improvements to efficiently move motorized vehicles through the corridor between W Galer Flyover and Thorndyke Ave W.	See Appendix F for additional details on this Corridor Management Strategy.						Alternative 1	Project Team		18	1.83
3-9	MM-13	36	Y	FAT Lanes: Thorndyke Ave W/W Blaine St	Add joint-use bus/freight lanes on Thorndyke Ave W and W Blaine St. Note: Pending policy review. Related project: In-lane bus stops on Thorndyke Ave (Project 20)		Transit/Freight	Thorndyke Ave W/W Blaine St	28th Ave W	W Halladay Street	Interbay	Alternative 2	Project Team		21	1.81
		37	Y	Armory Way Bridge Corridor Management Strategy	Incorporate signal operations improvements, traffic control, roadway striping/channelization, and capital improvement enhancements to efficiently move motorized vehicles on the Armory Way Bridge and the Thorndyke Ave W between W Galer St and W Dravus St.	See Appendix F for additional details on this Corridor Management Strategy.						Alternative 2	Project Team		16	1.79
		38	Y	W Dravus St Corridor Management Strategy	Incorporate signal operations improvements, ITS strategies, road-way striping/channelization, and access management enhancements to efficiently move motorized vehicles through the corridor between 14th Ave W and 20th Ave W. Corridor management strategies are not dependent upon Magnolia and Ballard bridge replacement alternatives.	See Appendix F for additional details on this Corridor Management Strategy.						Both Alternatives	Project Team		16	1.77
3-13	T-9	39	Y	15th Ave NW and NW Leary Way Rechannelization	Rechannelize southbound 15th Ave W to include a FAT lane for efficient bus and freight access across Leary Way NW and for buses to merge onto the Ballard Bridge after serving southbound RapidRide/express stop.		Transit	15th Ave NW & Leary Way	15th Ave NW	Leary Way	Ballard	Alternative 1	RapidRide C and D Line Improvements Speed and Reliability Study, Route 40 TPMC, Project Team		18	1.76

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					Related project: 15th Ave W/NW FAT Lanes (Project 22)											
	T-7	40	Y	RapidRide Leary Way NW: Passenger Facilities	Enhance passenger facilities in support of future RapidRide implementation on Leary Way NW. This generally includes upgrading existing Route 40 stops to RapidRide stations and their related amenities.		Transit	NW Market Street & NW Leary Way	8th Ave NW	24th Ave NW (Market), 14th Ave NW (Leary)	Ballard	Both Alternatives	Project Team		17	1.75
	F-1	41	Y	Leary Way NW Corridor Freight Master Plan (FMP) Improvements	Reconstruct and make operational/ITS improvements to the Leary Way NW and N 36th St corridor to better facilitate freight per the Freight Master Plan.		Freight	N 36th Street/Leary Way	8th Ave NW	24th Ave NW	Ballard	Both Alternatives	Freight Master Plan Projects 11 & 13		17	1.74
	B-6	42	Y	Bicycle Improvements at Top Collision Locations	Make improvements at locations with a history of collisions involving people biking and locations with crash risk factors as defined in SDOT's Bike and Pedestrian Safety Analysis.		Bike	Miscellaneous	n/a	n/a	Multiple	Both Alternatives	Bike and Pedestrian Safety Analysis	Specific locations are not legible in the plan's maps.	15	1.71
		43	Y	Leary Way NW Corridor Management Strategy	Incorporate signal operations improvements, ITS strategies, roadway striping/channelization, access management, and capital improvements to efficiently move motorized vehicles through the corridor between 14th Ave NW and NW Market St.	See Appendix F for additional details on this Corridor Management Strategy.						Both Alternatives	Project Team		19	1.70
1-1	MM-1	44	Y	21st Ave W/W Emerson Pl Intersection Improvements	Reconstruct 21st Ave W/W Emerson Pl intersection to improve safety for people walking and bicycling, and improve truck access (e.g. modify curb radii, design a new trail crossing consistent with upgraded curb ramps, change push button placement, and evaluate pedestrian crossing time).		All Modes	Intersection of 21st Ave W & W Emerson Place	n/a	n/a	Interbay	Both Alternatives	Freight Master Plan Project 12; Seattle Trails Upgrade Plan		16	1.67
	BP-6	45	Y	Stay Healthy Streets in Ballard, Interbay, Queen Anne, and Magnolia	Build permanent Stay Healthy Streets along planned neighborhood greenways and potentially along other roadways with high pedestrian activity and		Bike & Pedestrian	Miscellaneous	n/a	n/a	Multiple	Both Alternatives	Project Team		19	1.65

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					outdoor dining, such as Ballard Ave NW.											
	BP-12	46	Y	Wayfinding to WSBLE stations	Add wayfinding to the future light rail stations for people walking and bicycling along multi-use trails, Ballard Bridge, Magnolia Bridge, W Galer St Flyover, Terminal 91, and Queen Anne hill climbs.		Bike & Pedestrian	n/a	n/a	n/a	Multiple	Both Alternatives	Project Team		16	1.63
	B-18	47	Y	20th Ave W Protected Bike Lanes	Convert the sharrows on 20th Ave W to two-way, all ages and abilities bike lanes on the east side of the road between the Elliott Bay Trail west of the railroad tracks and the Thorndyke Ave W.		Bike	20th Ave W	Thorndyke Ave W	Elliott Bay Trail	Interbay	Both Alternatives	Project Team	This connection is relatively low stress already, but there is room for improvement given all the driveways and industrial uses.	16	1.61
		48	Y	W Emerson St-W Nickerson St Corridor Management Strategy	Incorporate signal operations improvements, ITS strategies, and traffic control for more efficient/motorized travel between Gilman Ave W and 13th Ave W. Some corridor management strategies are only applicable to certain Ballard Bridge alternatives while some are not dependent on bridge replacement alternatives.	See Appendix F for additional details on this Corridor Management Strategy.						Both Alternatives	Project Team		17	1.58
3-1	MM-6	A	Y	Ballard Bridge Low-Level Alternative	The low-level Ballard Bridge alternative will be similar to the existing bridge but will include improved access for all modes at the south landing. Key elements of the Ballard Bridge low-level alternative include shared use paths on the east and west sides of the bridge, and a Modified Single Point Urban Exchange (SPUE) on the southern end of the bridge.		All Modes	15th Ave NW	Emerson-Nickerson St Interchange	NW Ballard Way	Ballard	Alternative 2	Ballard Bridge Planning Study (March 2020)		15	1.58
3-2	MM-7	B	Y	Ballard Bridge Mid-Level Alternative	The mid-level Ballard Bridge alternative replaces the existing bridge with a new moveable bridge that provides 60'-70' vertical clearance, a 14' shared use-path on the west side of the bridge, new vehicle and shared use path access ramp		All Modes	15th Ave NW	Emerson-Nickerson St Interchange	NW 50th St	Ballard	Alternative 1	Ballard Bridge Planning Study (March 2020)		15	1.56

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					at 17th Ave NW /Leary Way, a vehicle ramp at NW 49th St/15th Ave NW, and a modified SPU consistent with the low-level bridge alternative.											
3-4	MM-9	C	Y	Magnolia Bridge In-Kind Replacement	One-to-one replacement of the existing bridge. Improvements include a 10-foot wide multi-use path on the south side for pedestrians and bicyclists.		All Modes	Magnolia Way W W Galer Street	Magnolia Way W	Smith Cove	Smith Cove	Alternative 1	Magnolia Bridge Planning Study (April 2019)		15	1.55
3-3	MM-8	D	Y	Armory Way Bridge (Magnolia Bridge Replacement)	This bridge alternative constructs a new street connection along W Armory Way with a bridge and a new Magnolia Bridge segment to Alaskan Way with new West Uplands Perimeter Road and improvements to 20th Ave W. The bridge alternative as proposed includes a multi-use path on the south side for pedestrians and bicyclists. Joint-use freight and transit (FAT) lanes could be implemented but may not be merited given projected transit volumes.		All Modes	Armory Way Bridge	15th Ave W	Thorn dyke Ave W	Smith Cove	Alternative 2	Magnolia Bridge Planning Study (April 2019)	Notes from SDOT conversations: • If Magnolia Bridge is removed, new bike pathway connection between Smith Cove and T91 would be needed.	15	1.54
2-1	BP-13			Burke-Gilman Missing Link	Complete the Burke-Gilman Trail Missing Link project between NW Market Street and 11th Ave NW. The route is tentatively planned along Shilshole Ave NW/NW 45th Street, but the route may change to Leary Ave NW/NW Leary Way or another location per ongoing discussions and litigation.		Bike & Pedestrian	Burke-Gilman Trail	24th Ave NW	NW 45th Street & 11th Ave NW	Ballard	Both Alternatives	Burke-Gilman Trail Missing Link EIS; Bicycle Master Plan		17	1.54
2-2	BP-14			Emerson St Pedestrian Bridge	Construct a new pedestrian and bicycle bridge across the railroad tracks connecting W Emerson Place east of the tracks near 19th Ave W to Gilman Ave W west of the tracks near W Emerson Street.		Bike & Pedestrian	W Emerson Street	Gilman Ave W	19th Ave W	Interbay	Both Alternatives	Project Team		17	1.54
3-10	MM-14			Armory Way Bridge FAT Lanes	Add joint-use bus/freight lanes on the Armory Way Bridge.		Transit/Freight	Armory Way Bridge	Thorn dyke Ave W	15th Ave W	Interbay	Alternative 2	Project Team		17	1.52
3-6	MM-10			Magnolia Bridge FAT Lanes; Magnolia Bridge	Allow for joint-use of bus-only lanes by transit and freight/delivery vehicles on Magnolia Bridge. Freight/delivery vehicles can operate in bus-only lanes to bypass congestion, benefitting from any transit		Transit/Freight	Magnolia Bridge	Elliott Ave	28th Ave W	Interbay	Alternative 1	Project Team		17	1.50

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2-15	T-4			W Dravus St Transit and Bike Improvements		Enhance transit integration with the proposed protected bicycle lane on W Dravus Street through the use of transit islands and shared transit/bike/pedestrian facilities.	Transit	W Dravus Street	14th Ave W	20th Ave W	Interbay	Both Alternatives	Bicycle Master Plan; WSBLE Agency Workshop		14	1.49
1-11	P-3			Along the Roadway Improvements: NW Market Street		Enhance the pedestrian experience along NW Market Street by adding landscaping between the sidewalk and roadway, and adding pedestrian-scale lighting.	Pedestrian	NW Market Street	15th Ave W	9th Ave NW	Ballard	Both Alternatives	WSBLE Project Team; WSBLE Station/Charrette		14	1.48
	F-5			Alaskan Way W & W Galer Street Intersection Improvements		Improve intersection operations at Alaskan Way W & W Galer Street	Freight	Intersection of Alaskan Way W & W Galer Street	n/a	n/a	Smith Cove	Both Alternatives	Project Team		13	1.42
	BP-16			Bertona St Pedestrian Bridge		Construct a new pedestrian and bicycle bridge across 15th Ave W connecting 16th Ave W (or 20th Ave W if feasible) to 14th Ave W.	Bike & Pedestrian	W Bertona Street	20th Ave W	14th Ave W	Interbay	Both Alternatives	Project Team		17	1.39
2-13	B-15			15th Ave/Elliott Ave Protected Bike Lanes		Build a protected bicycle lane/cycle track on 15th Ave W/Elliott Ave W from W Emerson Street to Broad Street.	Bike	15th Ave W/Elliott Ave W	W Emerson Street	Broad Street	Multiple	Both Alternatives	Community Feedback; WSBLE Agency Workshop	Notes from conversations with SDOT: •Strong interest in protected bike lanes on corridor •Bikes are currently permitted to ride in bus only lane – if PBL is not an option, maybe provide space for bike pull-outs if vehicles behind cyclist exceed X vehicles or to ensure safety and comfort of cyclist	13	1.39
	F-10			Alaskan Way W & Magnolia Flyover Intersection Improvements		Improve intersection operations at Alaskan Way W & Magnolia Flyover	Freight	Intersection of Alaskan Way W & Magnolia Flyover	n/a	n/a	Interbay	Alternative 2	Project Team		15	1.38

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	P-5			Pedestrian Hillclimb to Kinnear Park		Add pedestrian stairs with runnels to connect the intersection of W Prospect Street & Van Buren Ave W in interbay to the top of the hill near Kinnear Park in Queen Anne.	Pedestrian	W Prospect Street	Van Buren Ave W	9th Ave W/W Prospect Street	Smith Cove	Both Alternatives	WSLE Project Team		15	1.37	
	BP-7			GTB Trail Upgrades		Formalize the GTB Trail connection from Queen Anne to W Garfield Street. Make it wide enough to accommodate both bicycles and pedestrians, where feasible.	Bike & Pedestrian	GTB Trail	W Blaine Street	W Garfield Street	Smith Cove	Both Alternatives	WSLE Project Team	The GTB is very steep, so bicyclists would likely walk this connection.	16	1.29	
	MM-3			Signalize W Emerson Pl/Gilman Ave W		Signalize W Emerson Pl/Gilman Ave W/W Thurman St to improve transit and freight mobility.	Transit/Freight	Intersection of Gilman Ave W & W Emerson Place & W Thurman Street	n/a	n/a	Interbay	Both Alternatives	Magnolia Bridge Traffic Maintenance Plan		16	1.29	
	B-8			14th Ave Neighborhood Greenway (Queen Anne)		Install a neighborhood greenway on 14th Ave W and local streets connecting to 10th Ave W, and a bicycle lane on Gilman Drive W between 10th Ave W and 13th Ave W.	Bike	Miscellaneous	Nickerson Street	10th Ave W	Interbay	Both Alternatives	Bicycle Master Plan		16	1.27	
2-7	BP-10			Along the Trail Improvements: Elliott Bay Trail		Enhance user experience on the Elliott Bay Trail by: <ul style="list-style-type: none"> Continuing trail maintenance such as sweeping, vegetation trimming, and pavement repair, which will require ongoing collaboration with the Port of Seattle Upgrading trail striping and markings to improve flow of trail users Improving wayfinding to the Magnolia Bridge, W Galer Street flyover, Helix Pedestrian Bridge, W Thomas Street Bridge, light rail stations, North Queen Anne, Magnolia, and Downtown Seattle 	Bike & Pedestrian	Elliott Bay Trail	n/a	n/a	n/a	Multiple	Both Alternatives	Seattle Trails Upgrade Plan		16	1.25
	B-3			East/West Bike Connection via Bertona St and Dravus St		Install bicycle lanes on W Bertona Street and 11th Ave W, and sharrows on W Dravus Street between 14th Ave W and 11th Ave W due to right-of-way and/or topography constraints.	Bike	Miscellaneous	14th Ave W	Nickerson Street	Interbay	Both Alternatives	Bicycle Master Plan		15	1.23	

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B-5				14th Ave NW Neighborhood Greenway		Install bicycle lanes on 14th Ave NW between NW 46th Street and NW 58th Street and a neighborhood greenway between NW 46th Street and NW 45th Street.	Bike	14th Ave NW	NW 45th Street	NW 58th Street	Ballard	Both Alternatives	Bicycle Master Plan		13	1.20
3-12	BP-19			Interim Ballard Bridge Connection: Shilshole to Bridge		Improve the bike and pedestrian connections from Shilshole Ave NW to NW Ballard Way on either side of 15th Ave NW, which is at ground level and adjacent to the Ballard Bridge. This includes widening sidewalks, adding lighting, and adding trail crossings at NW 46th Street. This also includes the recommendations for the Ballard Bridge on/off ramps at NW Ballard Way found in the Seattle Bridge Safety Analysis report. The design should ensure freight access and mobility is maintained.	Bike & Pedestrian	15th Ave NW	Shilshole Ave NW	NW Ballard Way	Ballard	Both Alternatives	Project Team; Seattle Bridge Safety Analysis		15	1.20
	B-9			East/West Bike Connection via Raye St and 23rd Ave		Install a neighborhood greenway on W Raye Street, 23rd Ave W, W Armour Street, and 21st Ave W. Add a crossing in the vicinity of W Armour Street & Thornyke Ave W & 21st Ave W.	Bike	Miscellaneous	32nd Ave W	Elliott Bay Trail	Interbay	Both Alternatives	Bicycle Master Plan		15	1.20
	BP-11			Along the Trail Improvements: Ship Canal Trail		Enhance user experience on the Ship Canal Trail by: <ul style="list-style-type: none"> •Continuing trail maintenance such as sweeping and vegetation trimming •Upgrading trail striping and markings to improve flow of trail users •Improving wayfinding to the Ballard Bridge, light rail stations, Seattle Pacific University, North Queen Anne, Fremont via the Fremont Bridge, Cheshiahud Lake Union Loop, and Downtown Seattle 	Bike & Pedestrian	Ship Canal Trail	n/a	n/a	Interbay	Both Alternatives	Seattle Trails Upgrade Plan		14	1.17
	F-11			Dynamic Freight Signage on 15th Ave W		Install dynamic message signs to provide travel conditions on major freight corridors prior to connecting to Major Truck Streets.	Freight	15th Ave W	Elliott Ave	Ballard Bridge	Interbay	Both Alternatives	Freight Master Plan		12	1.15

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	BP-9			Ship Canal Trail Access Management		Apply consistent intersection and driveway crossing treatments on the Ship Canal Trail east of the Ballard Bridge, where motor vehicles cross the trail to access businesses off of Nickerson Ave.	Bike & Pedestrian	Ship Canal Trail	15th Ave W	3rd Ave W	Interbay	Both Alternatives	Seattle Trails Upgrade Plan		14	1.08
	B-4			Thorndyke Ave Bike Lanes		Install bicycle lanes on Thorndyke Ave W between W Galer Street and W Plymouth Street to complete this connection. Consider removing center line and/or parking on one or both sides to accommodate protected bicycle lanes.	Bike	Thorndyke Ave W	W Galer Street	W Plymouth Street	Interbay	Both Alternatives	Bicycle Master Plan	Notes from conversations with SDOT about Thorndyke south of Blaine St: <ul style="list-style-type: none"> • Many homes have driveways and garages, so removal of off-street parking may be feasible to accommodate rechannelization. • Thorndyke Ave is long corridor with manageable grade • Roadway currently has bus stops at W Hayes St (NB) and W Blaine St (SB) which would need to be accommodated in roadway design • Magnolia Way W would be an alternative, would likely need some kind of signal at W Galer Street for bikes – potential sight distance issue to the east • If ROW is an issue, uphill climbing lane with downhill shared lane (sharrows) could be an option. • Consider removing center line to accommodate 6' PBLs on both sides of roadway – effectively making 20' shared roadways space for vehicles and transit. 	11	1.05
2-14	B-16			Ballard Locks Connection: Bike Lanes Along 21st Ave and W Commodore Way		Install bicycle lanes on 21st Ave W and W Commodore Way between W Emerson Place and 31st Ave W, and sharrows between 31st Ave W and 33rd Ave W due to right-of-way and/or topography constraints.	Bike	21st Ave W/W Commodore Way	W Emerson Place	33rd Ave W	Interbay	Both Alternatives	Bicycle Master Plan, Community Feedback	This is an important connection because the bike route over the railroad line along 33rd Ave W to connect up to W Government Way is very slippery when the wooden bridge is wet, and the steep grade creates a serious challenge to this route being "all ages and abilities."	11	1.05

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3-11	MM-5			Leary Ave NW corridor study		Study the Leary Ave NW corridor to determine how to accommodate freight, transit, and bicycle travel. This project will consider the final results of the Freight Master Plan, Burke-Gilman Trail EIS, and the Route 40 BRT Corridor Study. This project could include priority lanes (e.g. transit/truck) and improved crossings.	All Modes	Leary Ave	17th Ave	NW Market Street	Ballard	Both Alternatives	Move Ballard		13	1.04
3-8	MM-12			Magnolia Bridge FAT Lanes: McGraw/Condon		Add joint-use bus/freight lanes on W McGraw Street/Condon Way W Street to allow for efficient bus, freight, and delivery access to Magnolia Village.	Transit/Freight	W McGraw St/Condon Way W	34th Ave W	28th Ave W	Interbay	Alternative 2	Project Team		12	1.00
3-7	MM-11			Magnolia Bridge FAT Lanes: McGraw/28th		Add joint-use bus/freight lanes on W McGraw Street/28th Ave W to allow for efficient bus, freight, and delivery access to Magnolia Village.	Transit/Freight	W McGraw St/28th Ave W	34th Ave W	W Galer Street	Interbay	Alternative 1	Project Team		12	0.98
B-10				NW 50th St Neighborhood Greenway		Install a neighborhood greenway on NW 50th Street.	Bike	NW 50th Street	17th Ave NW	6th Ave NW	Ballard	Both Alternatives	Bicycle Master Plan		11	0.89
B-2				Elliott Bay Trail to Waterfront Trail		Connect the Elliott Bay Trail to the Waterfront Trail on Alaskan Way through crossing improvements and wayfinding.	Bike	Alaskan Way	Broad Street	Clay Street	Smith Cove	Both Alternatives	Project Team		10	0.83
T-3				Magnolia Mobility Hubs: Magnolia Village		Ensure adequate lighting, access to shared use modes, bike parking, and high quality bus stop amenities (shelter, real time information signs, etc.) at key points where multiple future routes converge - Magnolia Village	Transit	W McGraw St	W McGraw St	32nd Ave W	Interbay	Both Alternatives	Project Team		10	0.81
T-2				Magnolia Mobility Hubs: 28th/Blaine		Ensure adequate lighting, access to shared use modes, bike parking, and high quality bus stop amenities (shelter, real time information signs, etc.) at key points where multiple future routes converge - 28th & Blaine St	Transit	28th Ave W	28th Ave W	W Blaine Street	Interbay	Both Alternatives	Project Team		9	0.74
F-6				21st Ave W Freight Corridor		Reconstruct 21st Ave corridor to improve truck safety and mobility by better integrating with bicycle and pedestrian facilities.	Freight	21st Ave W / Commodore Way	W Emerson Place	33rd Ave W	Interbay	Both Alternatives	Freight Master Plan Project 12		9	0.74
T-6				Rapid Ride Leary Way NW: Speed and Reliability		Enhance roadway facilities in support of future RapidRide implementation on Leary Way NW (route 1010, 1993). This generally includes signal and roadway enhancements to improve transit speed and	Transit	NW Market Street & NW Leary Way	8th Ave NW	24th Ave NW (Market), 14th Ave NW (Leary)	Ballard	Both Alternatives	Project Team		n/a	n/a

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	F-8			11th Ave NW Freight Corridor		New Freight Corridor on 11th Ave NW from Lake Washington Ship Canal to NW 52nd Street that would connect commercial and industrial uses to Leary Way and allow for 14th Ave NW to serve Ballard Station transit and vehicle trips. Improve turn radii to and from the corridor for freight mobility.	Freight	11th Ave NW	Ship Canal	NW 52nd Street	Ballard	Both Alternatives	Project Team		n/a	n/a
	B-11			20th Ave NW Bike Lane/Neighborhood Greenway		Install a neighborhood greenway on 20th Ave NW from Shilshole Ave NW to Leary Way NW, and bicycle lanes from Leary Way NW to NW Market Street.	Bike	20th Ave NW	Shilshole Ave NW	NW Market Street	Ballard	Both Alternatives	Bicycle Master Plan		n/a	n/a
	T-8			14th Ave NW Transit Enhancements		Improve 14th Ave NW corridor to prioritize new transit routes operating on this roadway that will serve Ballard Station	Transit	14th Ave NW	NW Leary Way	NW Market Street	Ballard	Both Alternatives	Project Team		n/a	n/a
	B-7			Ballard Bridge Bike Access: 17th Ave Neighborhood Greenway Connection		Connect the 17th Ave Greenway to the Ballard Bridge and Burke-Gilman Trail (BGT) per the BGT Missing Link EIS.	Bike	Intersection of 17th Ave & Ballard Ave to intersection of 45th Street & 11th Ave	TBD	TBD	Ballard	Both Alternatives	Move Ballard; Burke-Gilman Trail Missing Link EIS		n/a	n/a
	2-4			Bertona Pedestrian Hillclimb Upgrade		Upgrade the existing pedestrian stairs on W Bertona Street by adding tunnels and pedestrian scale lighting.	Bike & Pedestrian	W Bertona Street	15th Ave W	14th Ave W	Interbay	Both Alternatives	Project Team		n/a	n/a
	B-12			16th/17th Ave W Neighborhood Greenway (Interbay)		Install a neighborhood greenway on 16th Ave W or 17th Ave W to connect to the light rail station.	Bike	16th Ave W or 17th Ave W	W Drawus Street	New Trail Connection at the end of Thorndyke Ave W	Interbay	Both Alternatives	Bicycle Master Plan; WSBLE Project Team; WSBLE Station Charrette		n/a	n/a

