

SOUTHWEST CORRIDOR LIGHTRAIL PROJECT



By 2035, we could see:



43,000 riders

on the line on an average weekday























168 COMMENT CARDS RECEIVED

OVER 325 ATTENDES AT MEETINGS & OPEN HOUSES

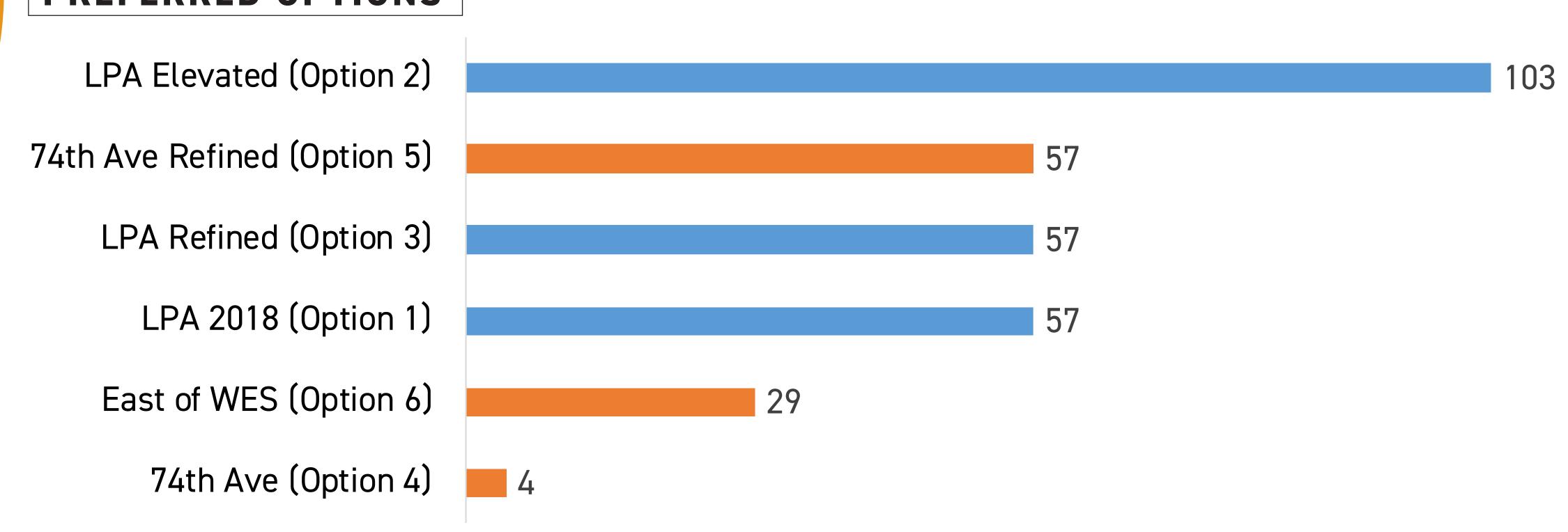
OVER 350 EMAILS & LETTERS

MARCH AND APRIL COMMENT CARDS

GATHERED FROM PUBLIC OPEN HOUSES AND ONLINE

PREFERRED OPTIONS

Respondents could choose multiple



TOP OPEN-ENDED COMMENTS

- Concern about business impacts (117)
- Circuit Bouldering Gym (54)
- Concern about traffic impacts (52)
- Cost Considerations (26)
- Prefer lower cost option (17)
- Prefer higher cost for lower impacts (9)

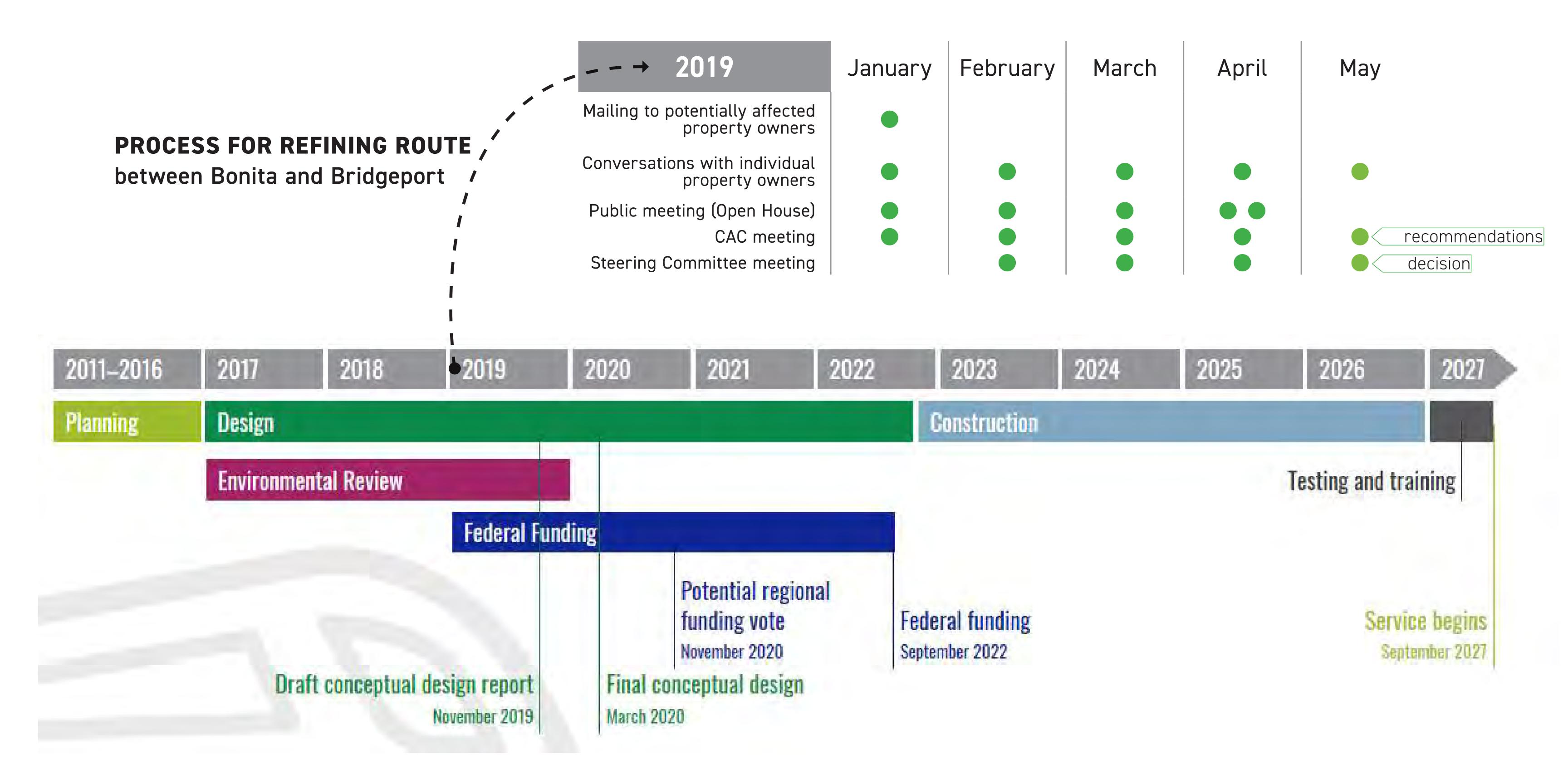


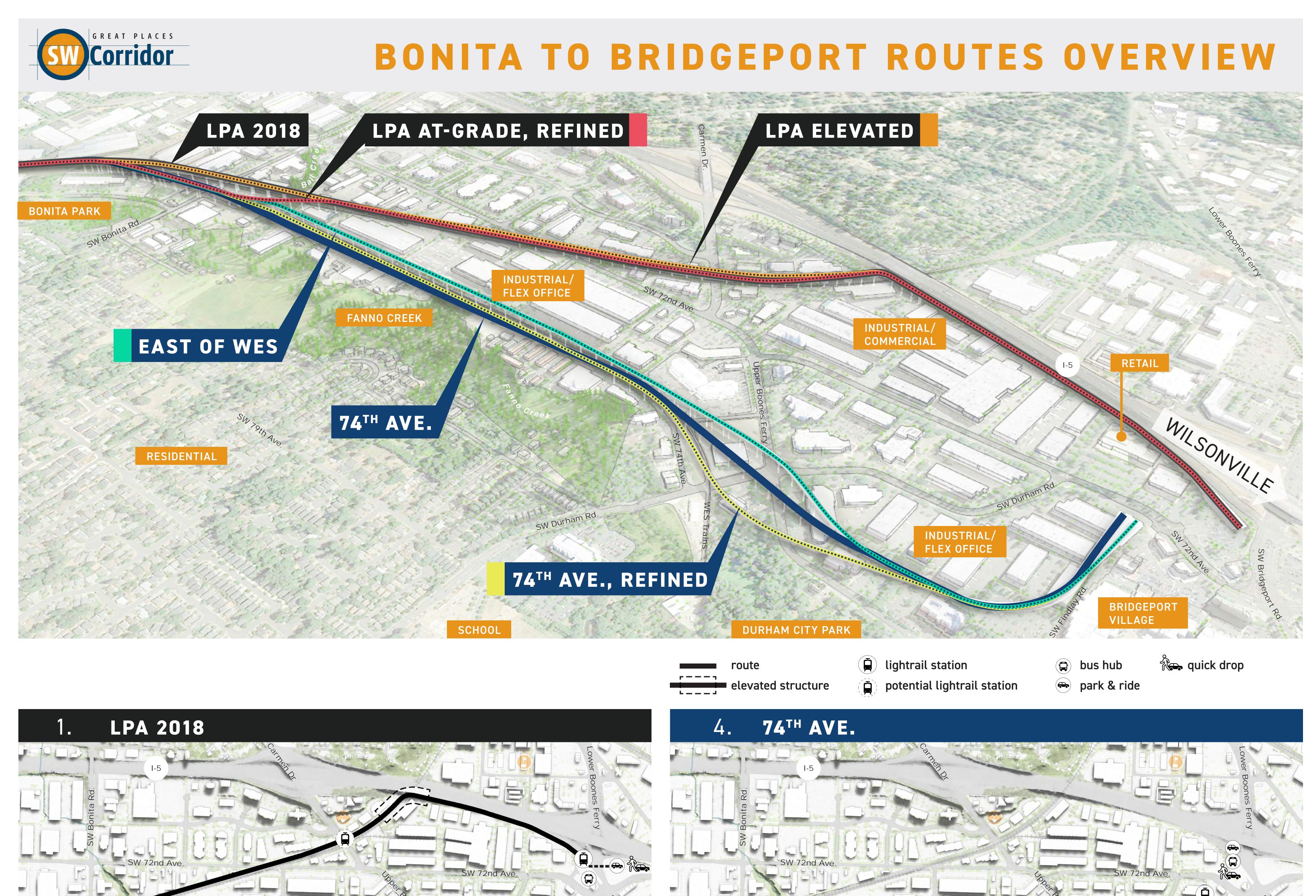


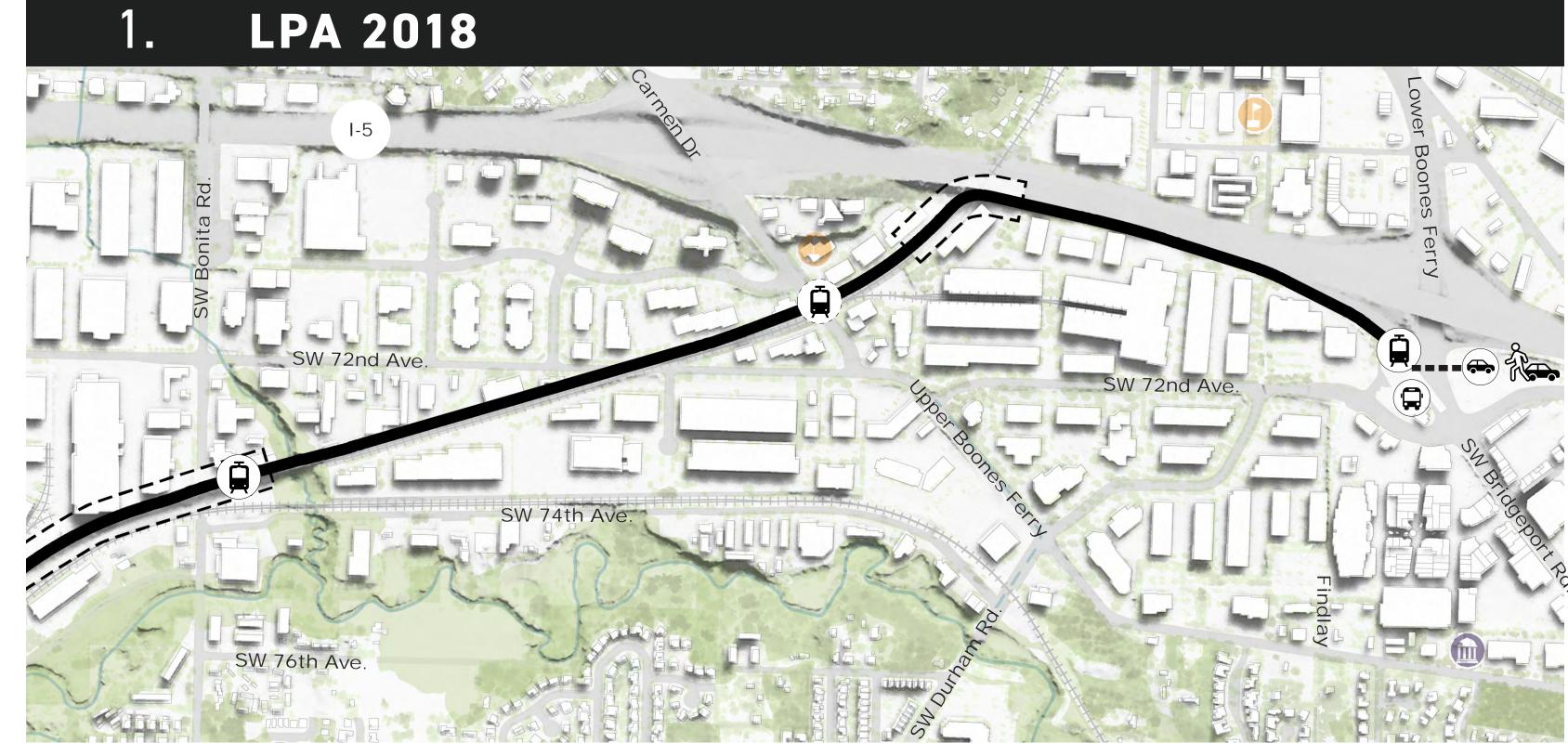


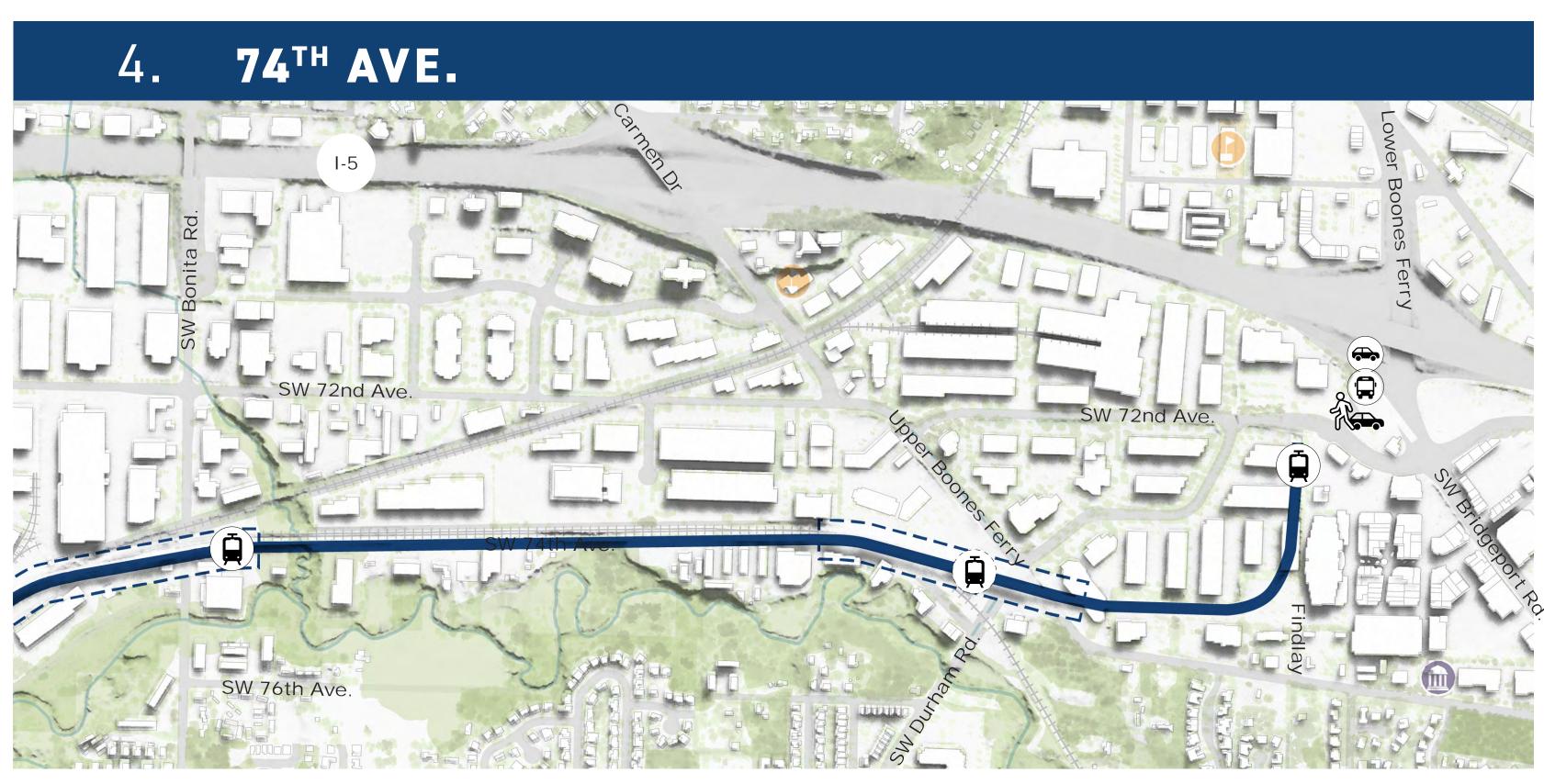


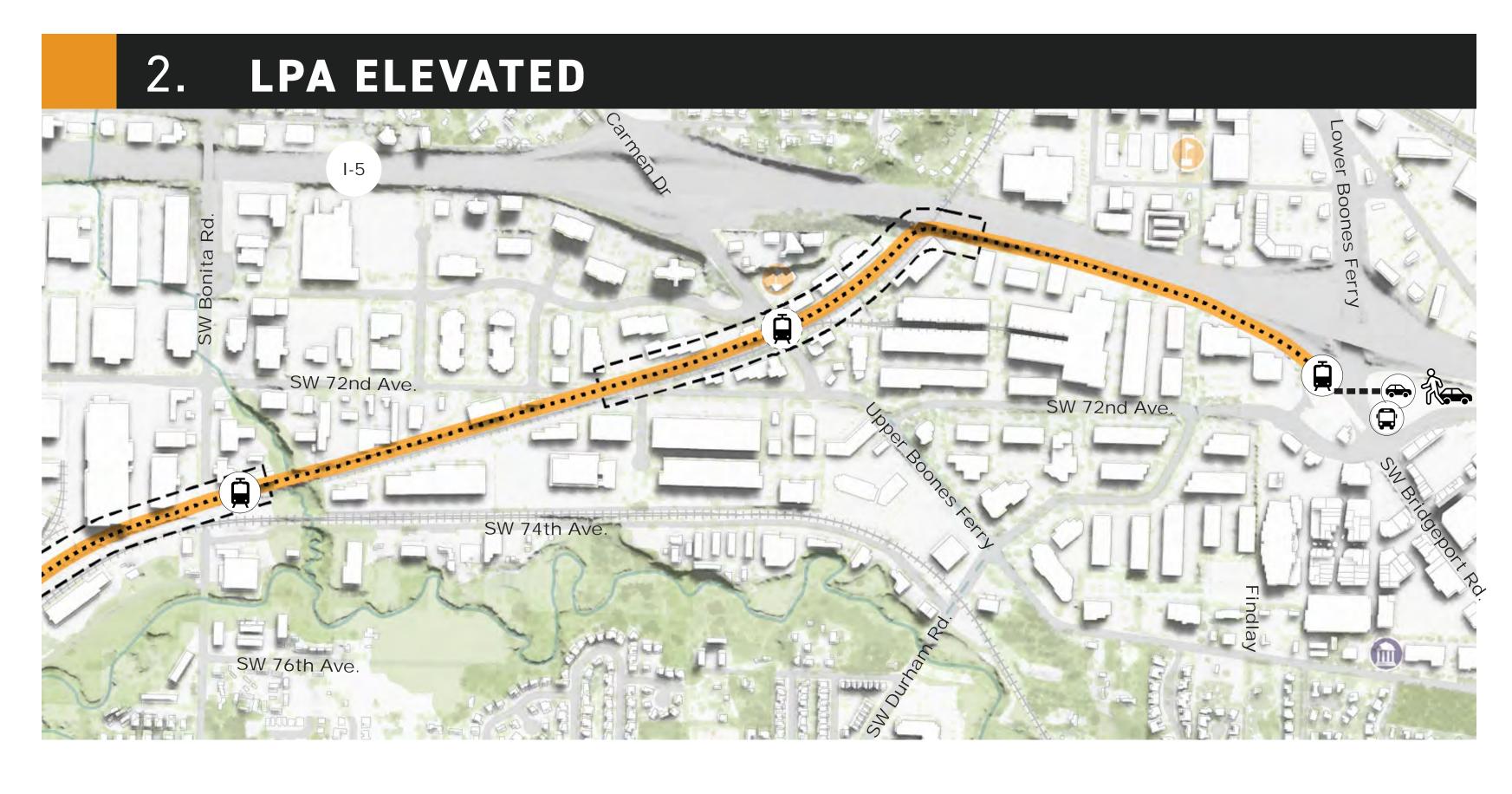
BONITA TO BRIDGEPORT TIMELINE

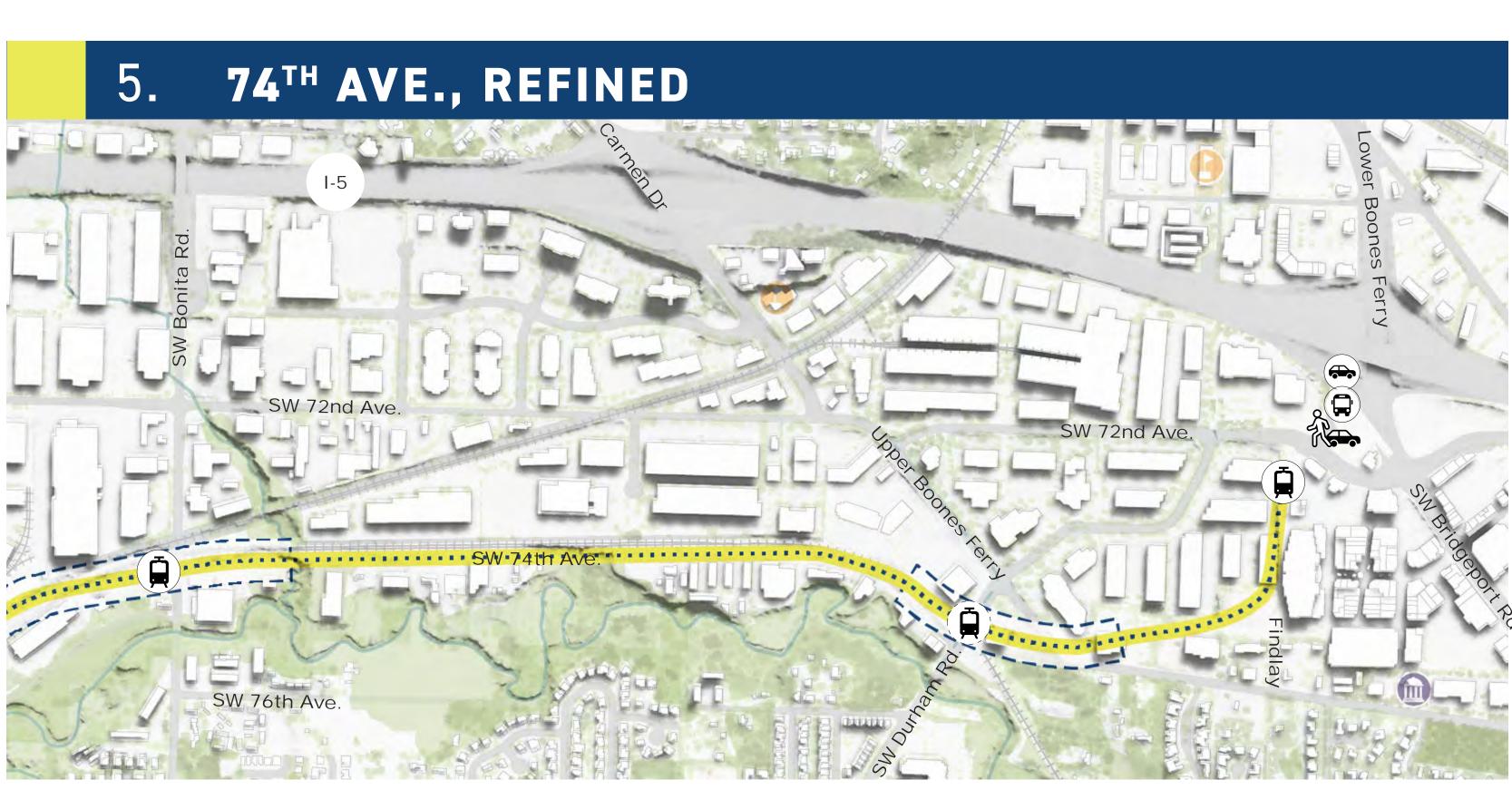


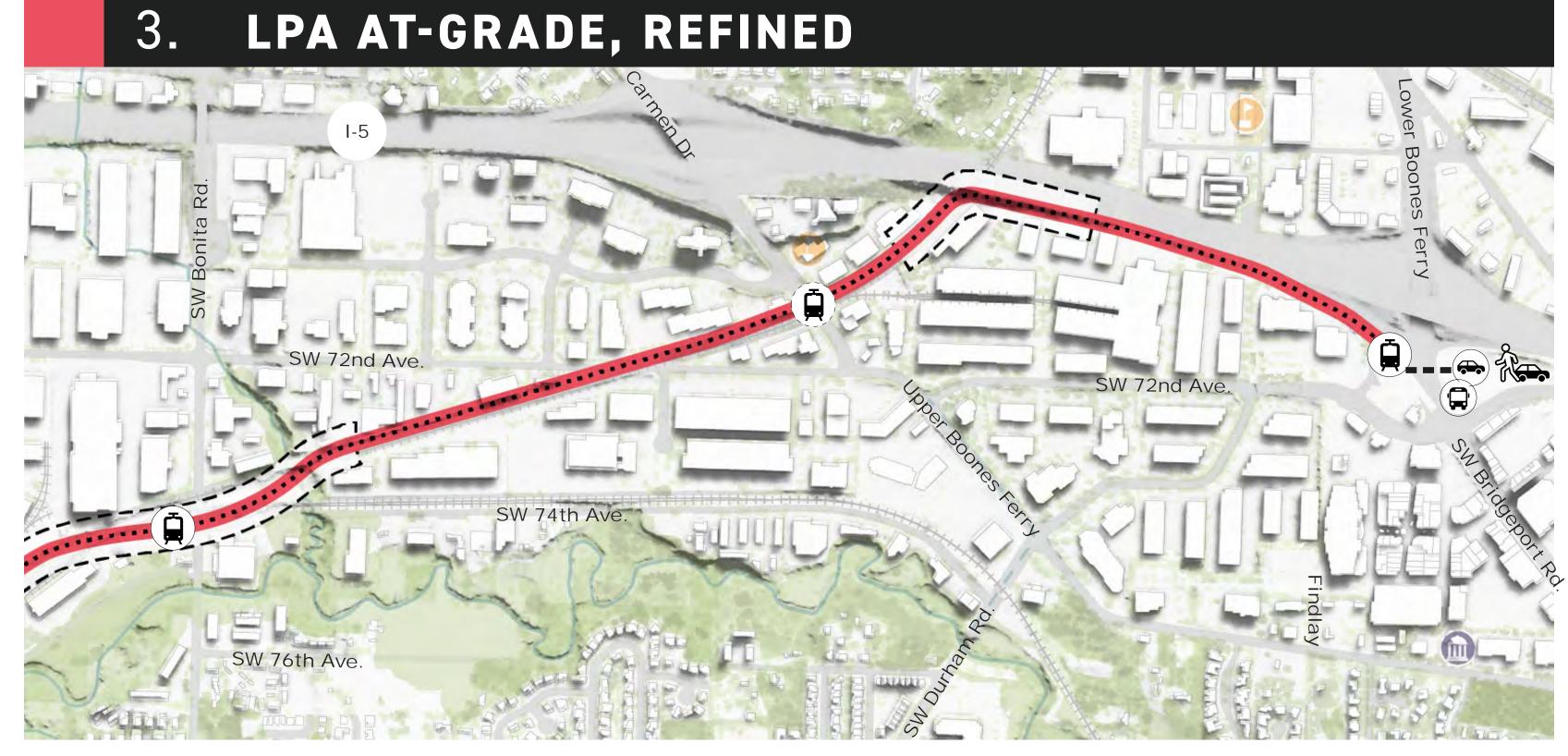


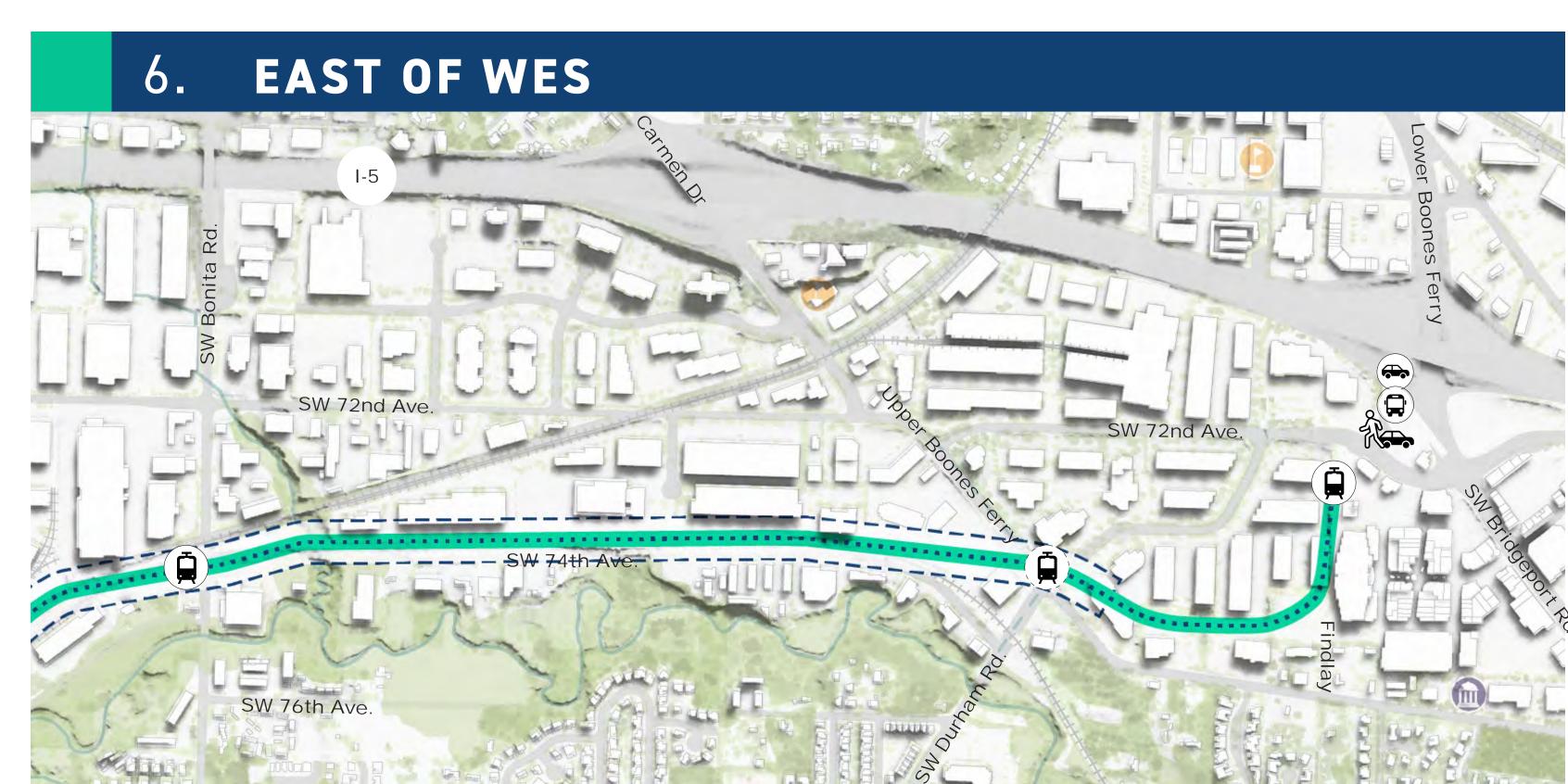






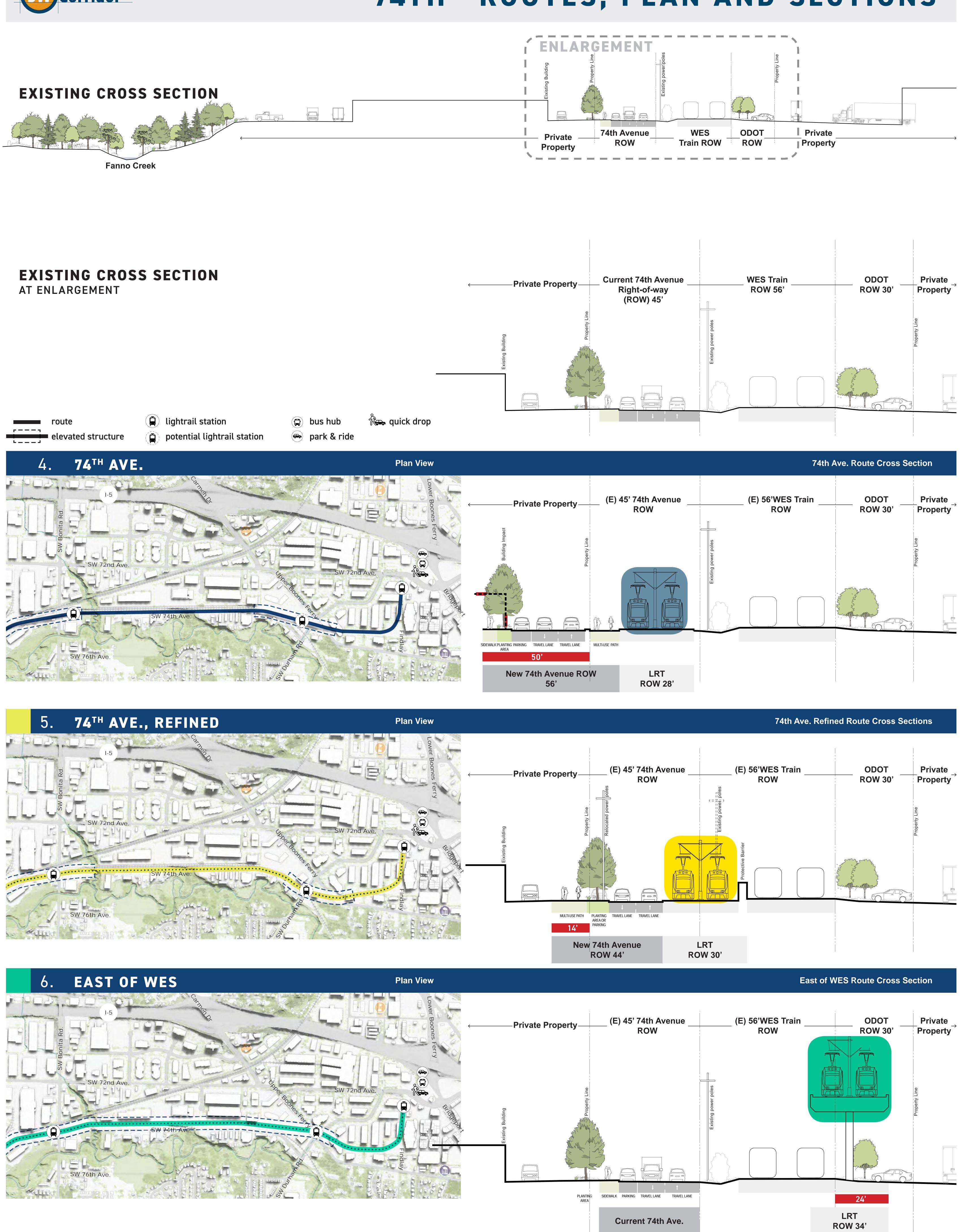


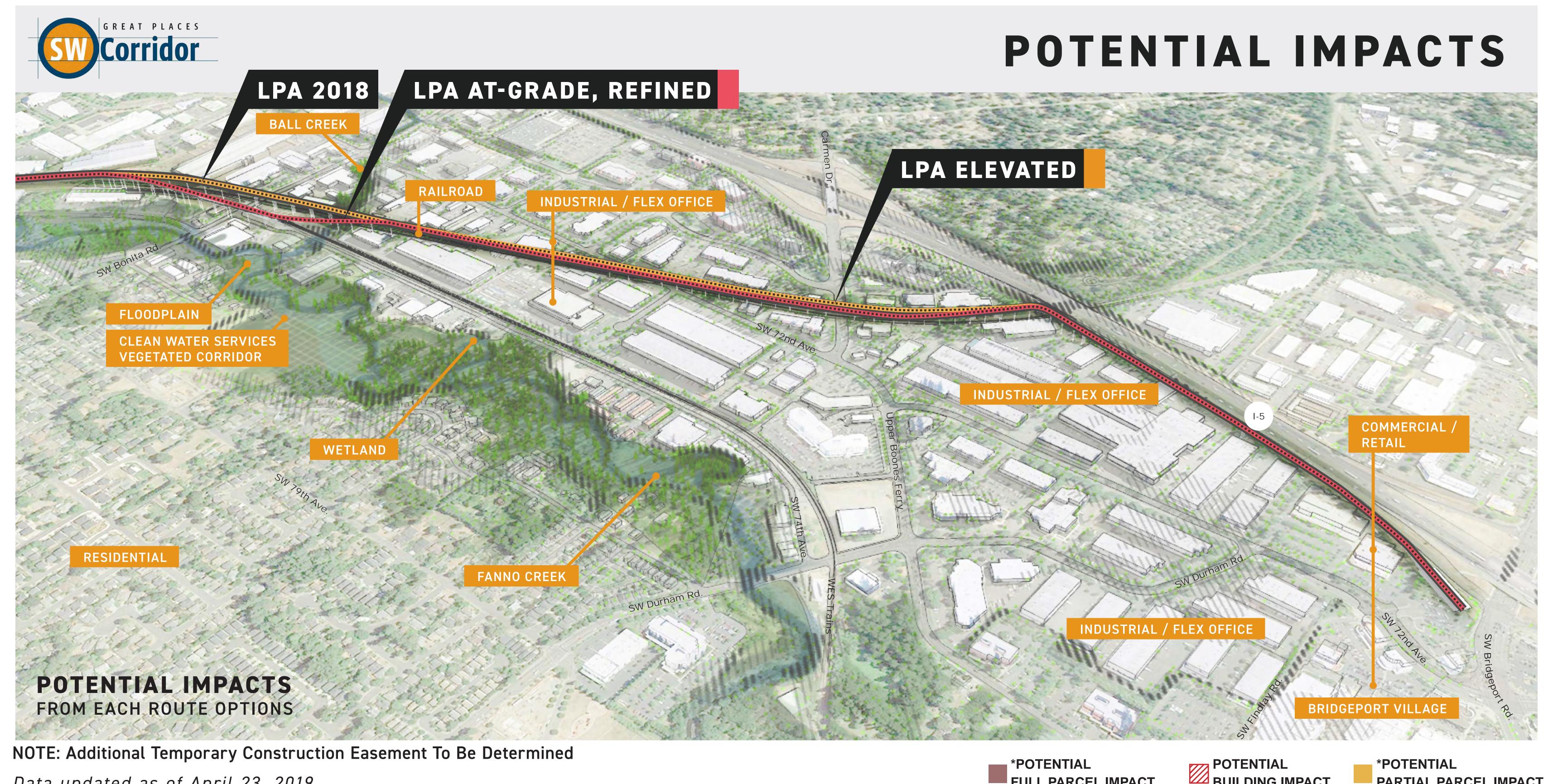




APRIL 25, 2019 SWC BONITA TO BRIDGEPORT PUBLIC OPEN HOUSE

74TH - ROUTES, PLAN AND SECTIONS





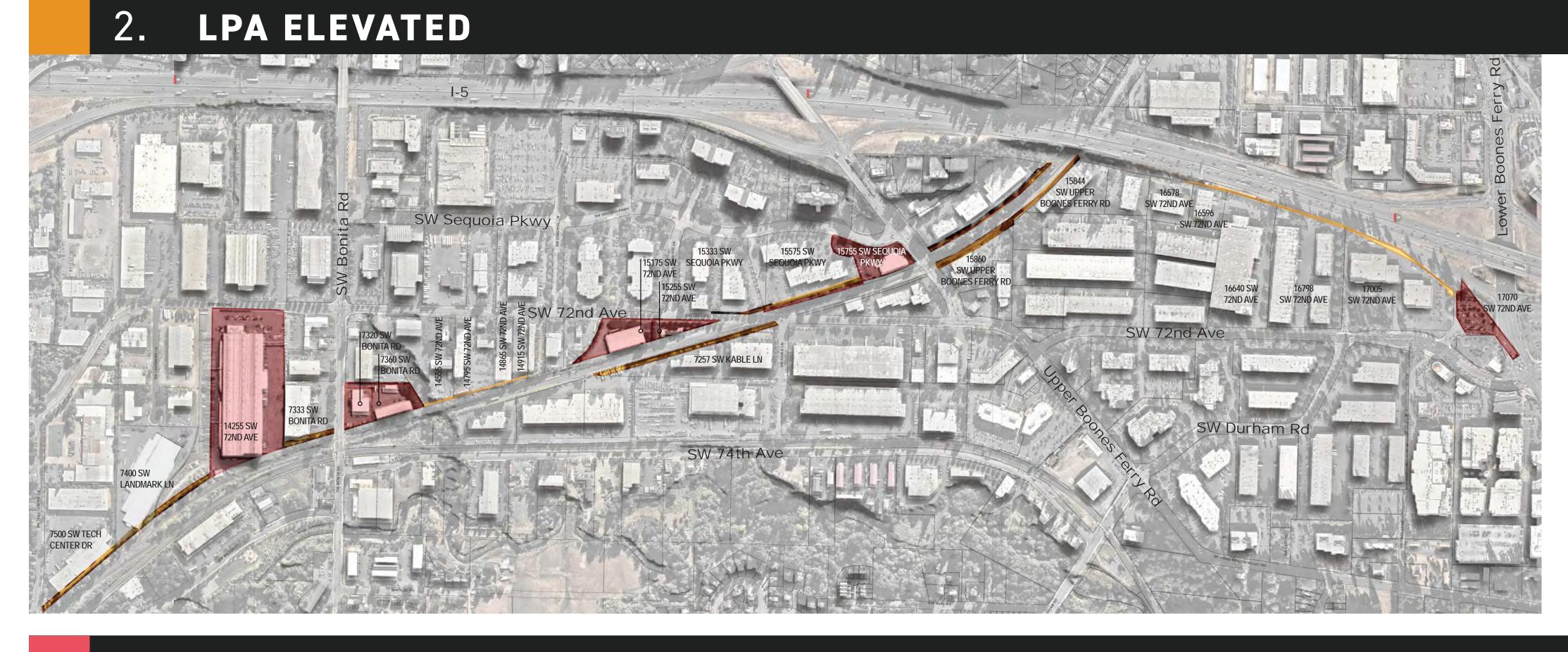
Data updated as of April 23, 2019

LPA 2018

RAILROAD RISK ON CONSTRUCTION: NATURAL RESOURCE IMPACTS: LOW UTILITY IMPACTS: LOW RESIDENTIAL ACQUISITIONS: NA PROPERTY ACQUISITIONS*: **BUSINESS IMPACTS: EMPLOYEE IMPACTS:** 320 STRUCTURE LENGTH: 2616 LF SAFETY IMPACTS: MEDIUM TRAFFIC IMPACTS: HIGH

PARTIAL PARCEL IMPACT

FULL PARCEL IMPACT

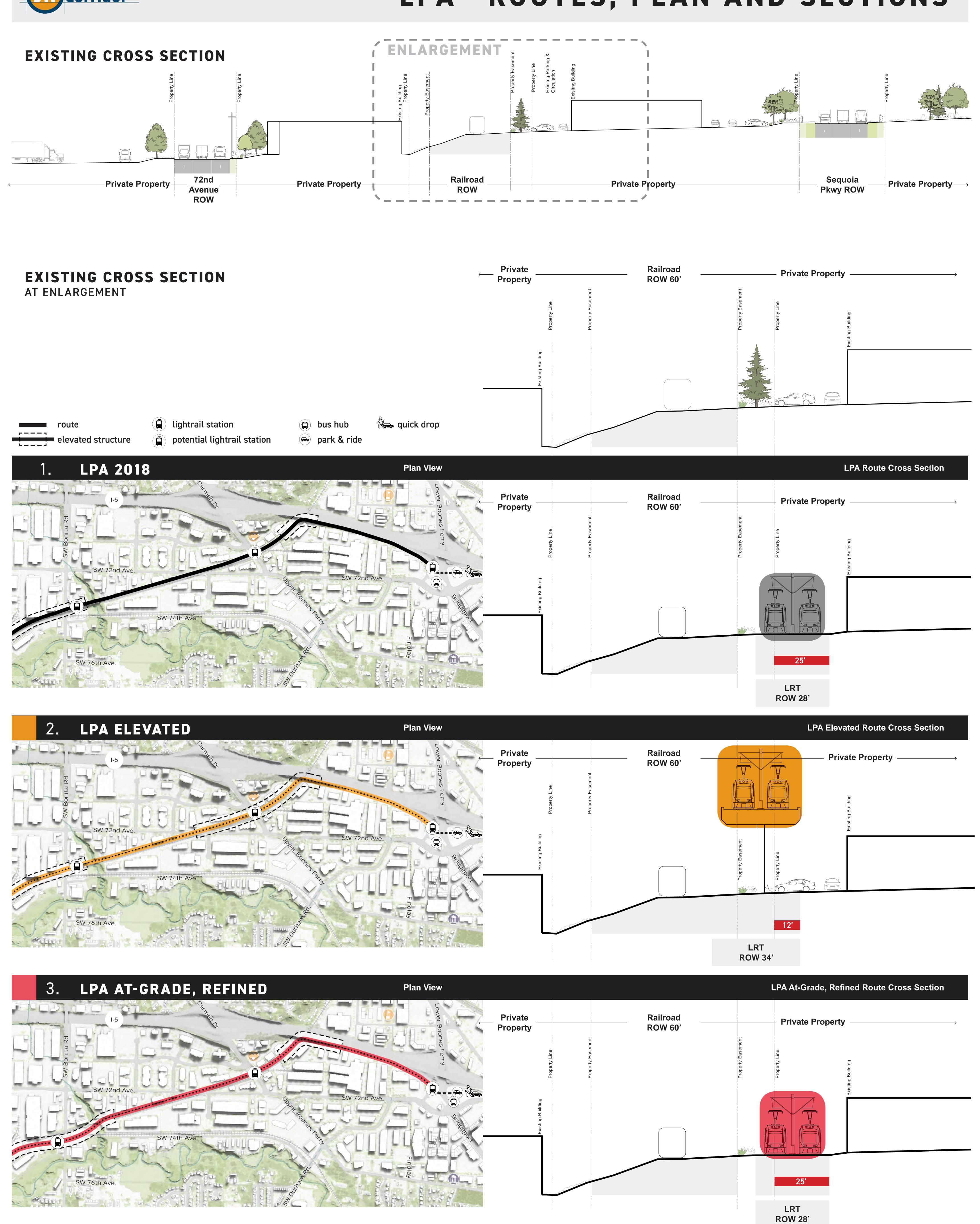


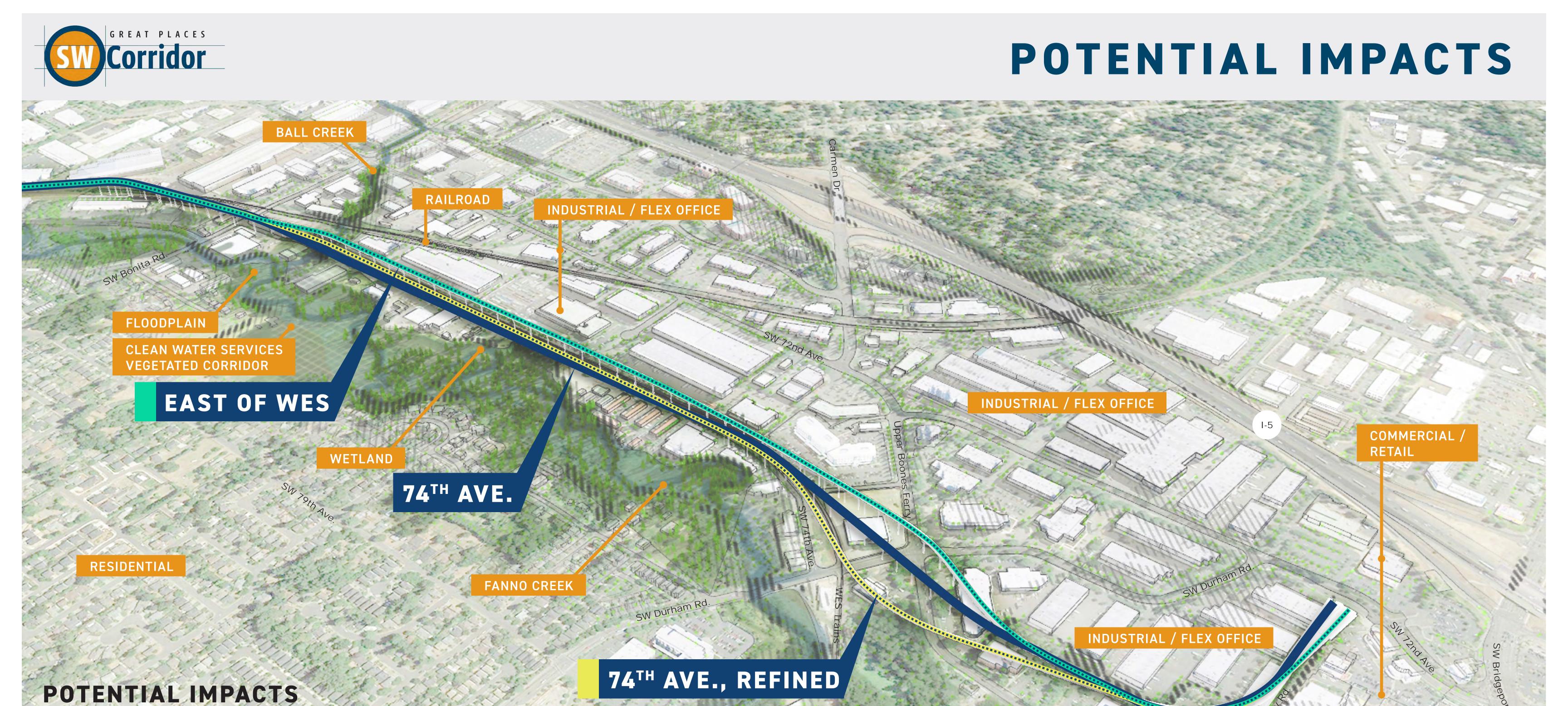
RAILROAD RISK ON CONSTRUCTION: NATURAL RESOURCE IMPACTS: LOW LOW UTILITY IMPACTS: RESIDENTIAL ACQUISITIONS: NA PROPERTY ACQUISITIONS*: **BUSINESS IMPACTS:** 270 **EMPLOYEE IMPACTS:** STRUCTURE LENGTH: 4916 LF SAFETY IMPACTS: LOW TRAFFIC IMPACTS: LOW

3. LPA AT-GRADE, REFINED

RAILROAD RISK ON CONSTRUCTION: NATURAL RESOURCE IMPACTS: LOW LOW UTILITY IMPACTS: RESIDENTIAL ACQUISITIONS: NA PROPERTY ACQUISITIONS*: **BUSINESS IMPACTS: EMPLOYEE IMPACTS:** 130 STRUCTURE LENGTH: 3155 LF SAFETY IMPACTS: MEDIUM TRAFFIC IMPACTS: HIGH

LPA - ROUTES, PLAN AND SECTIONS





NOTE: Additional Temporary Construction Easement To Be Determined

Data updated as of April 23, 2019

FROM EACH ROUTE OPTIONS

*POTENTIAL FULL PARCEL IMPACT POTENTIAL
BUILDING IMPACT

*POTENTIAL
PARTIAL PARCEL IMPACT

BRIDGEPORT VILLAGE

SW Sequola Pkwy

SW 72nd Ave.

RAILROAD RISK ON CONSTRUCTION: NATURAL RESOURCE IMPACTS: MEDIUM UTILITY IMPACTS: HIGH RESIDENTIAL ACQUISITIONS: NA PROPERTY ACQUISITIONS*: BUSINESS IMPACTS: **EMPLOYEE IMPACTS:** 680 STRUCTURE LENGTH: 3092 LF SAFETY IMPACTS: LOW TRAFFIC IMPACTS: LOW

5. 74TH AVE., REFINED

SW Sequestion Plays

SW 72751AVe

RAILROAD RISK ON CONSTRUCTION: MEDIUM NATURAL RESOURCE IMPACTS: MEDIUM HIGH UTILITY IMPACTS: RESIDENTIAL ACQUISITIONS: NA PROPERTY ACQUISITIONS*: **BUSINESS IMPACTS:** EMPLOYEE IMPACTS: 190 STRUCTURE LENGTH: 3192 LF SAFETY IMPACTS: LOW TRAFFIC IMPACTS: LOW

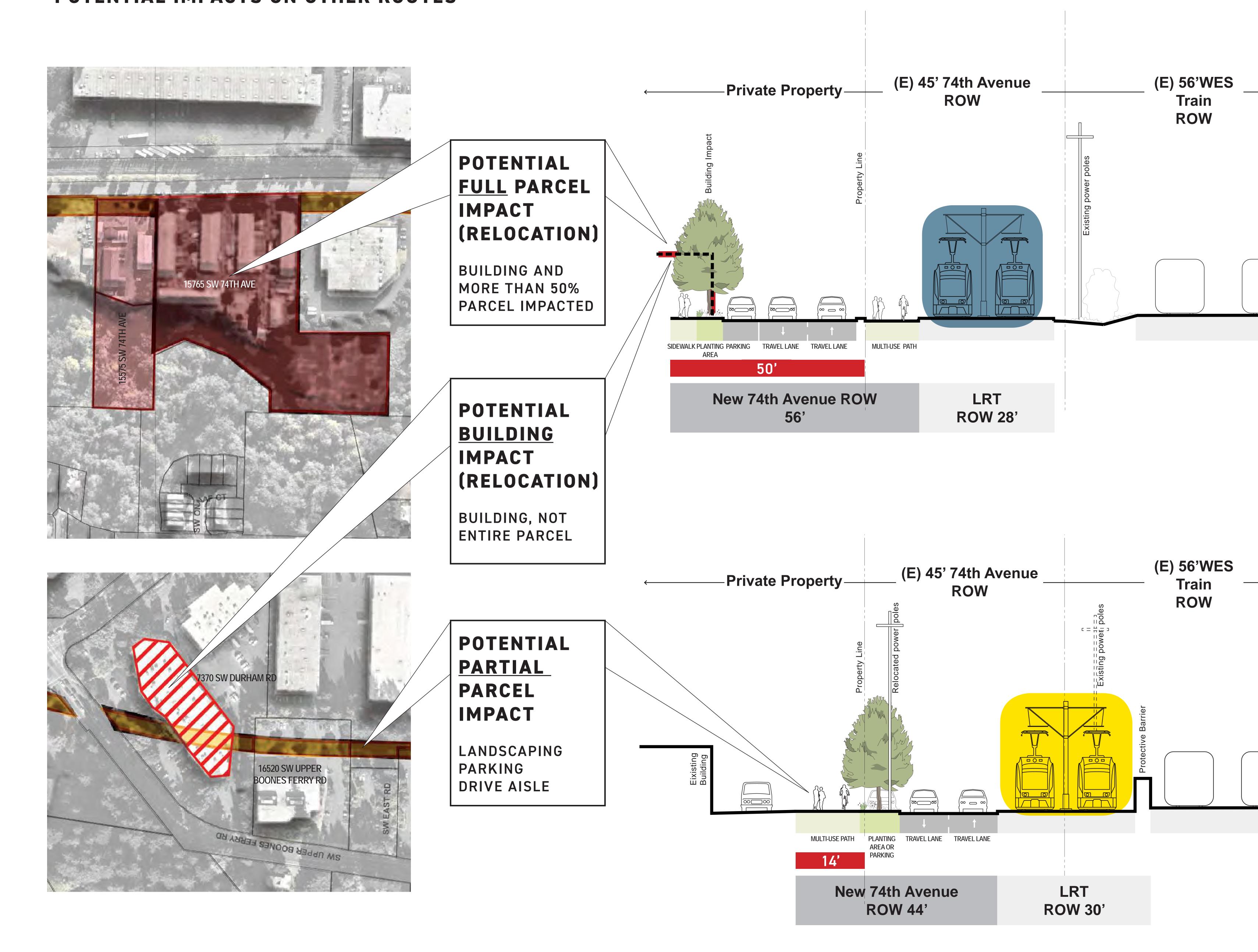
50. EAST OF WES Solver of the state of the

RAILROAD RISK ON CONSTRUCTION: MEDIUM NATURAL RESOURCE IMPACTS: LOW LOW UTILITY IMPACTS: NA RESIDENTIAL ACQUISITIONS: PROPERTY ACQUISITIONS*: **BUSINESS IMPACTS:** 250 **EMPLOYEE IMPACTS:** STRUCTURE LENGTH: 6550 LF SAFETY IMPACTS: LOW TRAFFIC IMPACTS: LOW



ASSUMPTIONS FOR RELOCATION VS. PARTIAL IMPACTS

BELOW ARE THREE DIFFERENT TYPES OF IMPACTS, SHOWN HERE ON THE 74TH ROUTE, BUT TYPICAL POTENTIAL IMPACTS ON OTHER ROUTES





ROUTE COMPARISON MATRIX

74th Ave 74th Ave East of

Refined

WES

	LPA 2018 IRP in DEIS	LPA Elevated	LPA at-grade Refined	74th Ave	74th Ave Refined	East of WES
	SUMMER 2018	LATE 2018	MARCH/APRIL 2019	JAN/FEB 2019	MARCH/APRIL 2019	MARCH/APRIL 2019
TRAFFIC						
At-grade crossings	72nd Ave Upper Boones, with queuing concern		72nd Ave Upper Boones, with queuing concern			
Bridgeport Park & Ride Location	South of Lower Boones	South of Lower Boones	South of Lower Boones	North of Lower Boones	North of Lower Boones	North of Lower Boor
LIGHT RAIL PERFORMANCE						
Travel time difference from LPA	N/A	30 seconds faster	30 seconds slower	60 seconds faster	60 seconds faster	60 seconds faste
On-time performance	Risk of delay		Risk of delay			
PROPERTY ACQUISITIONS						
Full or partial parcel acquisitions	31	28	33	32	34	24
RELOCATIONS						
Businesses	12	11	8	43	10	9
Employees	320	270	130	680	190	250
ENVIRONMENTAL IMPACTS						
Acres of floodplain	0.00	0.00	0.00	0.80	0.00	0.00
Acres of wetland	0.01	0.01	0.60	0.56	0.14	0.26
LAND USE, TRAILS						
Differences in land uses served by an Upper Boones station	More commercial, industrial	More commercial, industrial	More commercial, industrial	More residential	More residential	More residential
Regional trail opportunity				On-street	On-street	
RISKS						
Railroad interface	Union Pacific; no existing agreement	Union Pacific; no existing agreement	Union Pacific; no existing agreement	Outside railroad right-of-way	Porltand & Western (WES); shared use agreement	Porltand & Western (WES); shared use agreement
Utilities				High risk	Higher risk	
COST						
Difference from most recent						

LPA

2018

X

LPA

Elevated

X

X

Χ

LPA

at-grade

Refined

Potentially Impacted

Businesses

Fought & Co

Tigard Auto

Club K-9

REFA Erectors

Empire Batteries

Pittman & Brooks

Bridgeport MRI

Pro Image Window Tint

Union Pacific (business unknown)

Northwest Physical Therapy

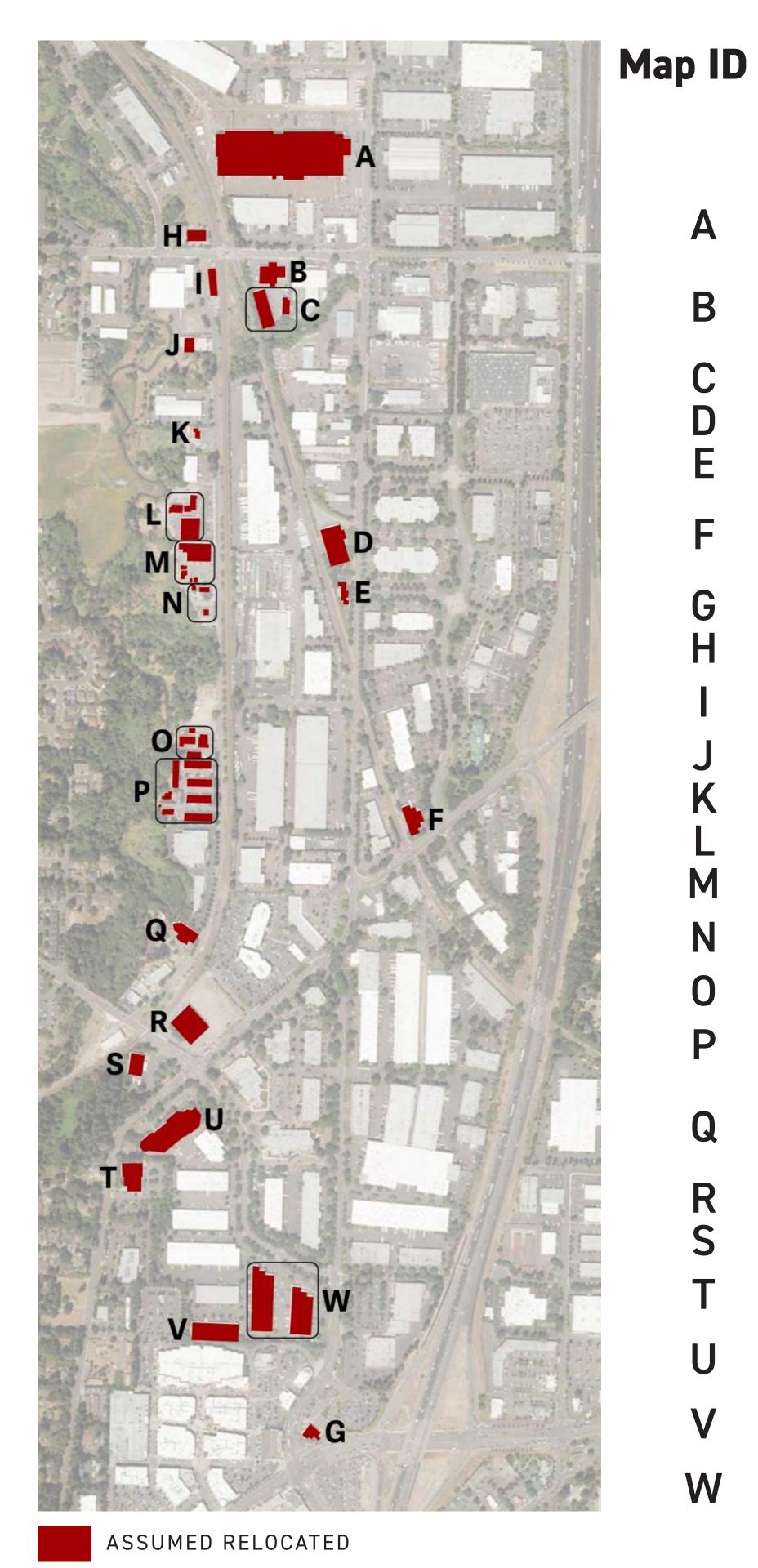
Orthopedics Northwest

A

B

C

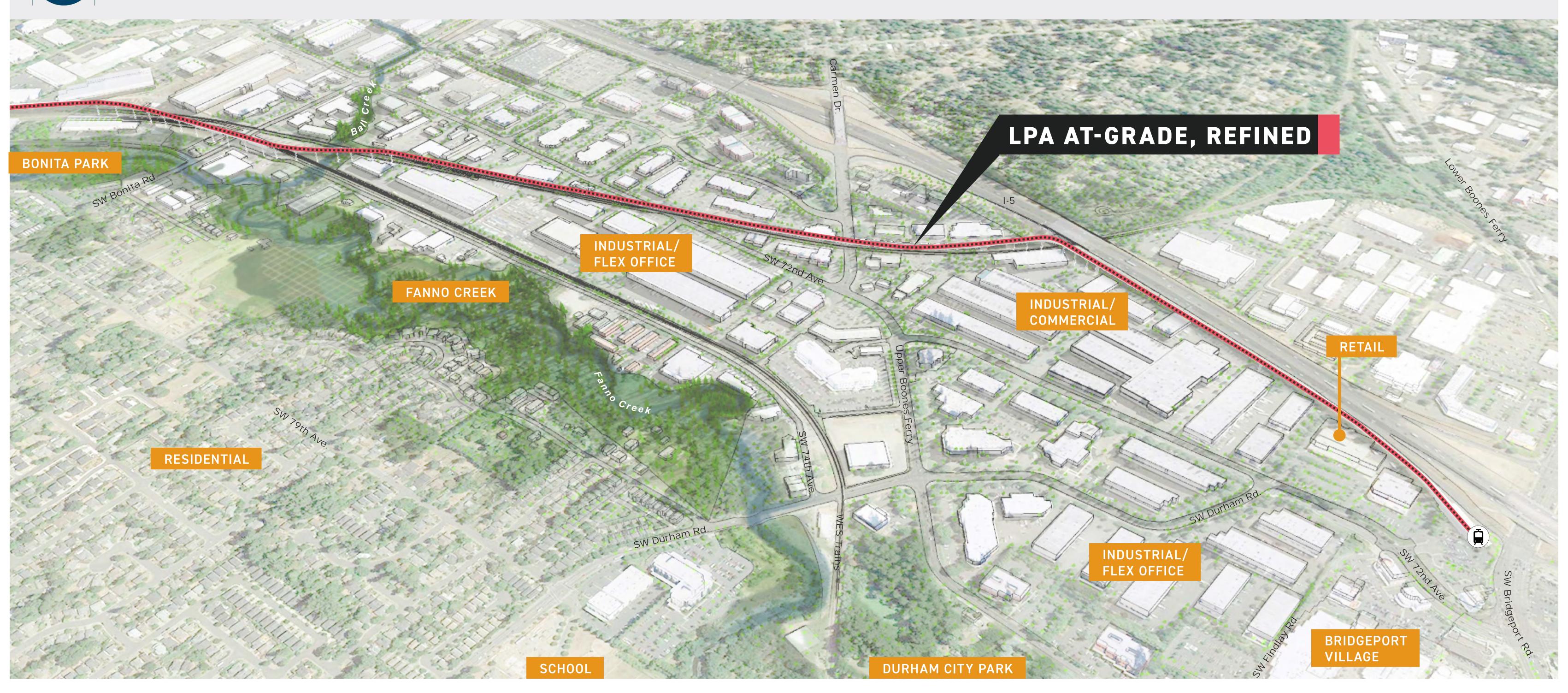
D



The Village Inn	X					
Learning Tree Preschool			X	X	X	X
eside Motors			Χ	X	X	X
aid Brigade				,	,	
EVIO Labs						
14905 SW 74th (business unknown)				X		
nterstate Roofing				X		
Meyer Sign Co.				X		
West Coast Coatings				X		
Titan Towing				/ \		
Paradise Auto Care				X		
74th Ave. Industrial Park:				X		
21 businesses assumed				/		
Excel Orthodontics						
Synergo					X	
(not other businesses on same parcel)						
The Circuit Bouldering Gym				X		
Airgas					X	
Pinnacle Mortgage					X	
Advantage Solutions					^	
PacTrust building G:				X		X
4 businesses assumed						
PacTrust building 0: 2 businesses assumed				X	X	X
PacTrust buildings P and Q:						
5 businesses assumed				X		
otal Businesses Potentially Displaced	12	11	8	43	10	
Total Employees Potentially Displaced	320	270	130	680	190	25

GREAT PLACES COTTION

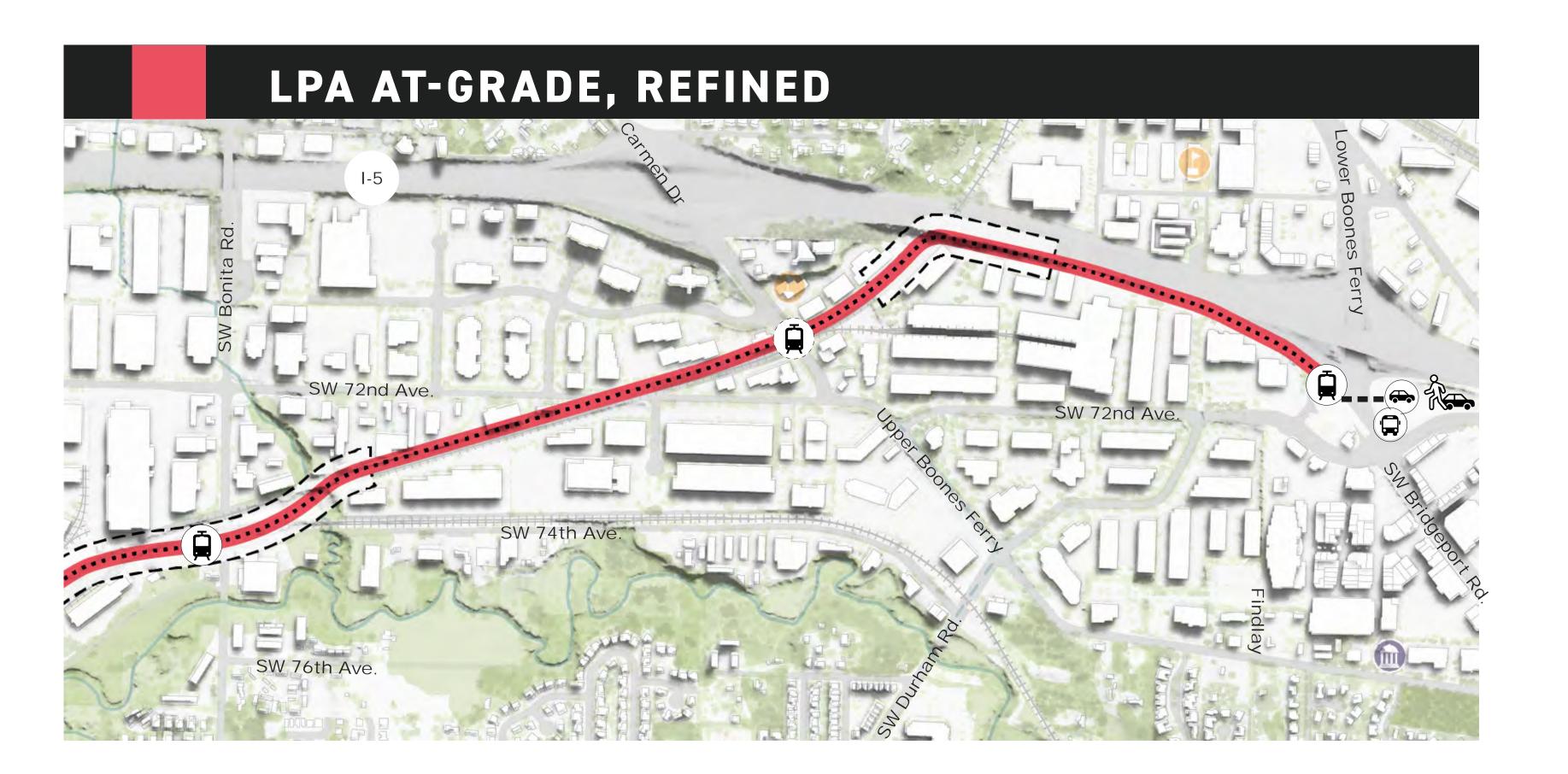
STAFF FINDINGS: LPA AT-GRADE REFINED



STAFF FINDINGS ON LPA AT-GRADE, REFINED ROUTE ARE BASED ON THE FOLLOWING:

- 1. Fewer business impacts
- 2. Lower costs with fewer risks to project schedule
- 3. Station at Upper Boones Ferry Road serves employment center
- 4. Multiple potential designs for Bridgeport Station, including option with no business displacements

route | lightrail station | bus hub | quick drop | potential lightrail station | park & ride



FOLLOW-UP ON LPA AT-GRADE, REFINED ROUTE

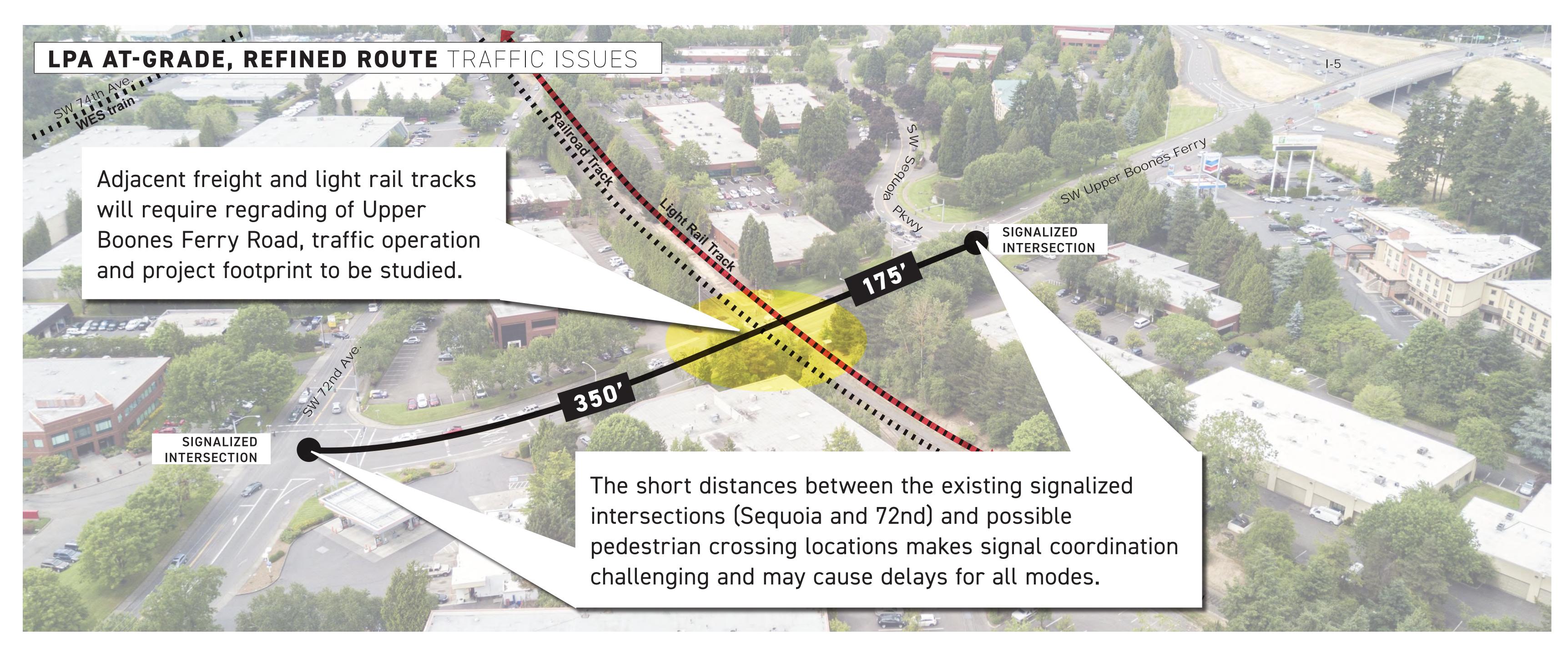
Detailed traffic study in late summer 2019 will help partners collaborate on at-grade crossing design:

- Safety follow industry best practices
- Transit reliability and travel time make transit fast and easy
- Traffic issue motor vehicle queuing, level of service, delay – meet 2035 "no-build" conditions (2045 at I-5 ramps)



LPA AT-GRADE REFINED TRAFFIC ISSUES







LPA AT-GRADE REFINED

POTENTIAL TRAFFIC AND CROSSING SOLUTIONS

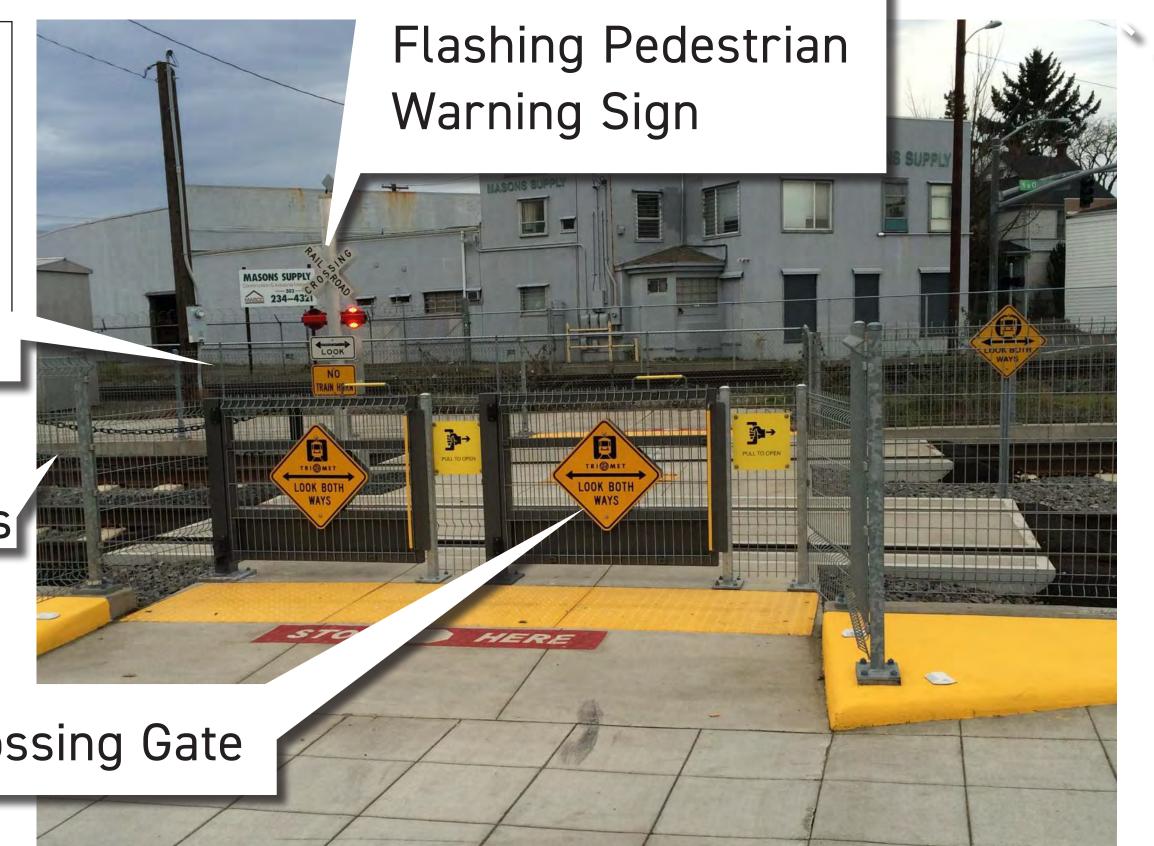
TYPICAL CROSSING WITH PEDESTRIAN GATES

SE 12TH AVENUE

Freight Tracks

Light Rail Tracks

Pedestrian Crossing Gate



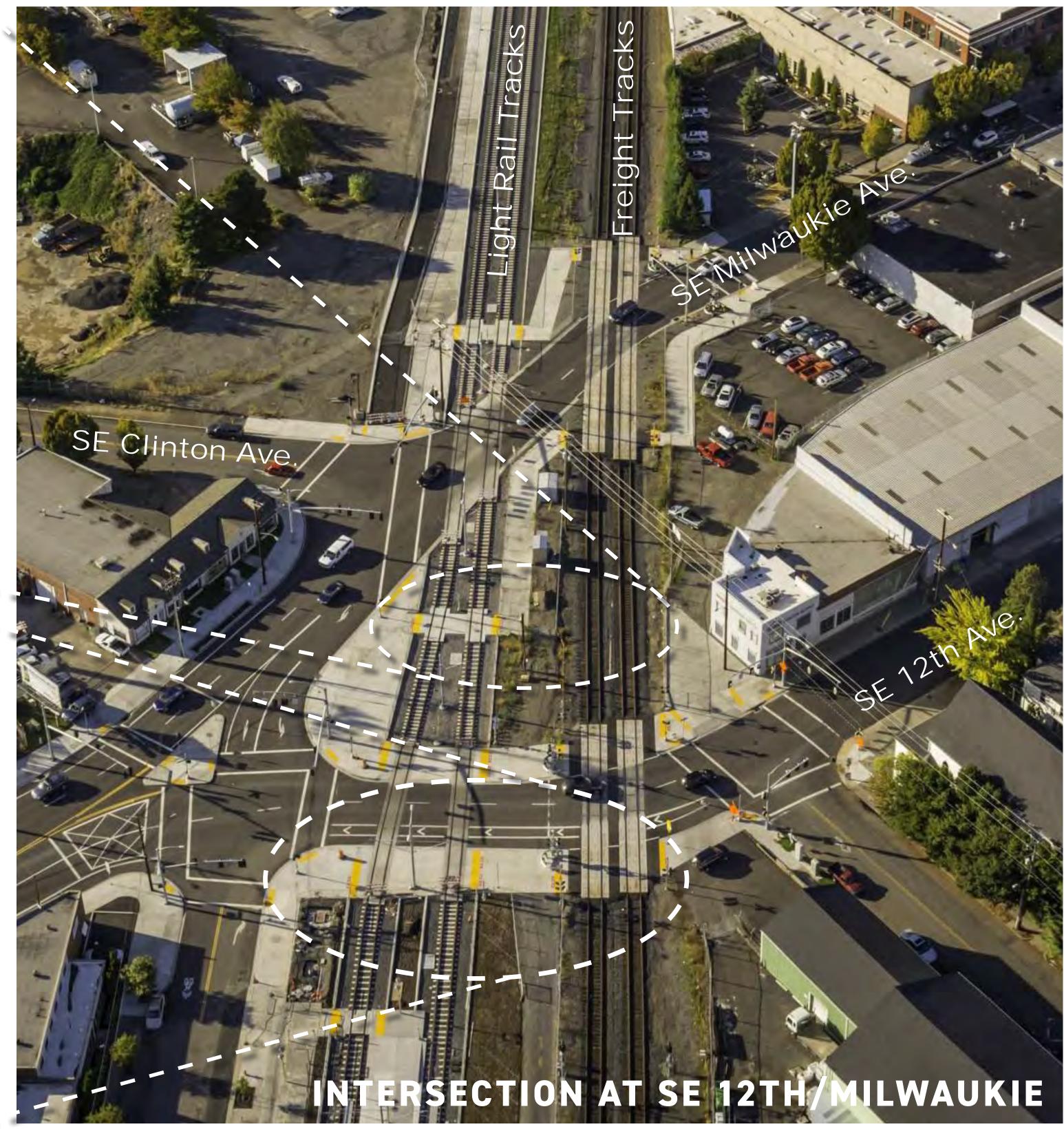
TYPICAL CROSSING WITHOUT PEDESTRIAN GATES

SE 12TH AVENUE

Freight Tracks

Light Rail Tracks





TYPICAL CROSSING WITH PEDESTRIAN GATES

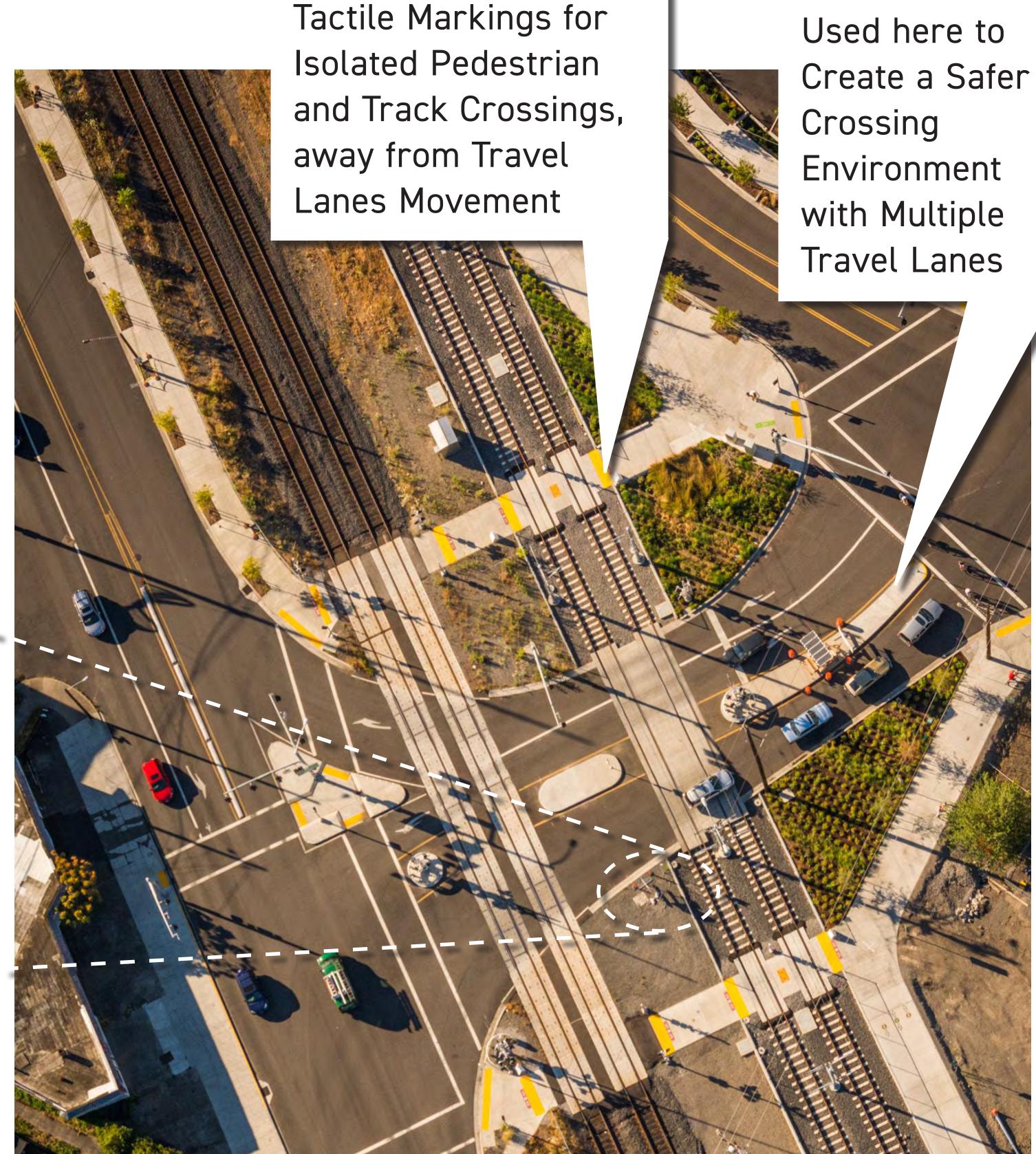
SE MONROE STREET

Pedestrian Crossing Gate



Freight Tracks

Light Rail Tracks



Colored and Textured

Pedestrian

and Median

Refuge Island

Gates

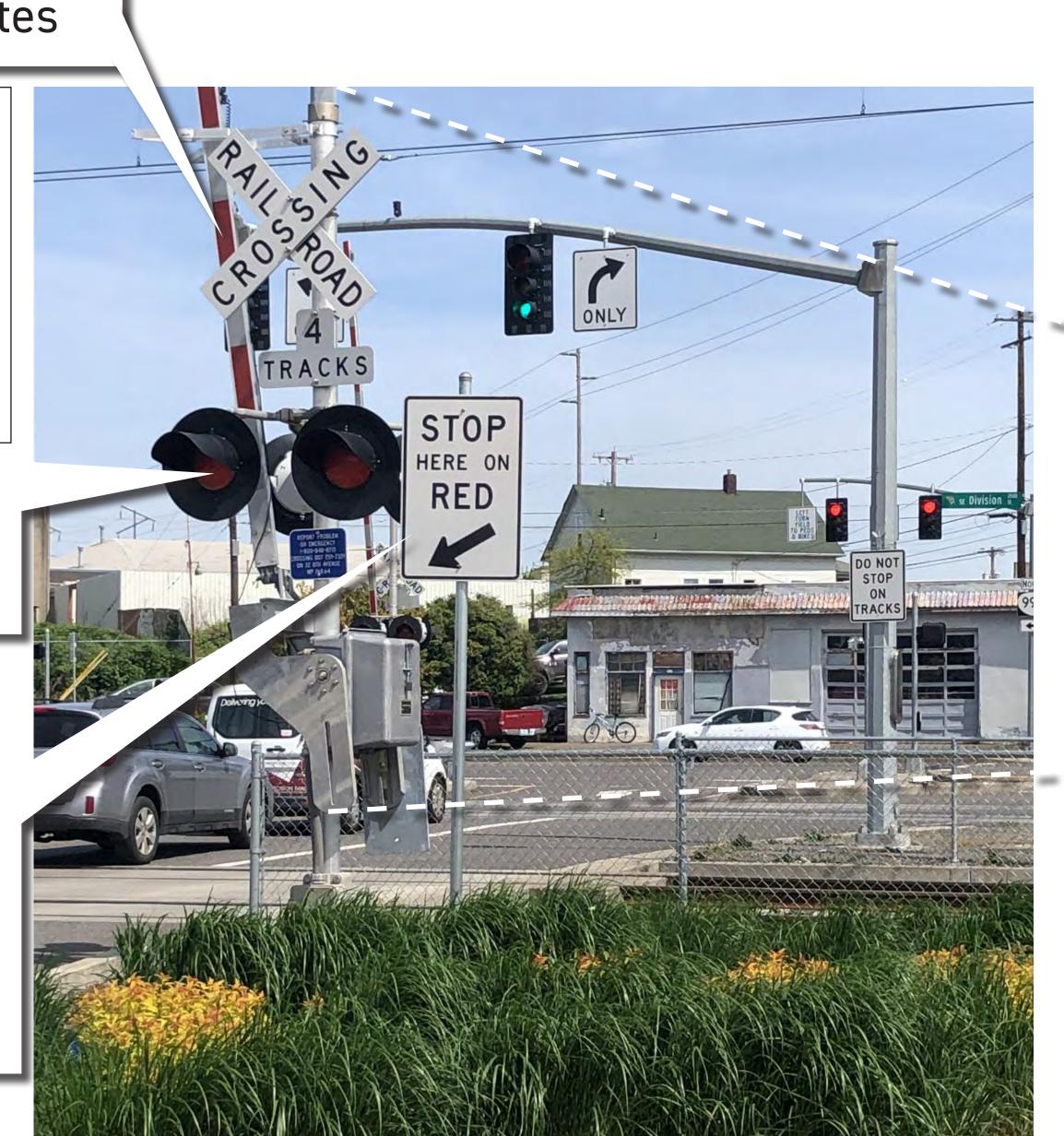
SIGNAGE, GATES, SIGNAL AND QUEUE DETECTION TECHNOLOGY

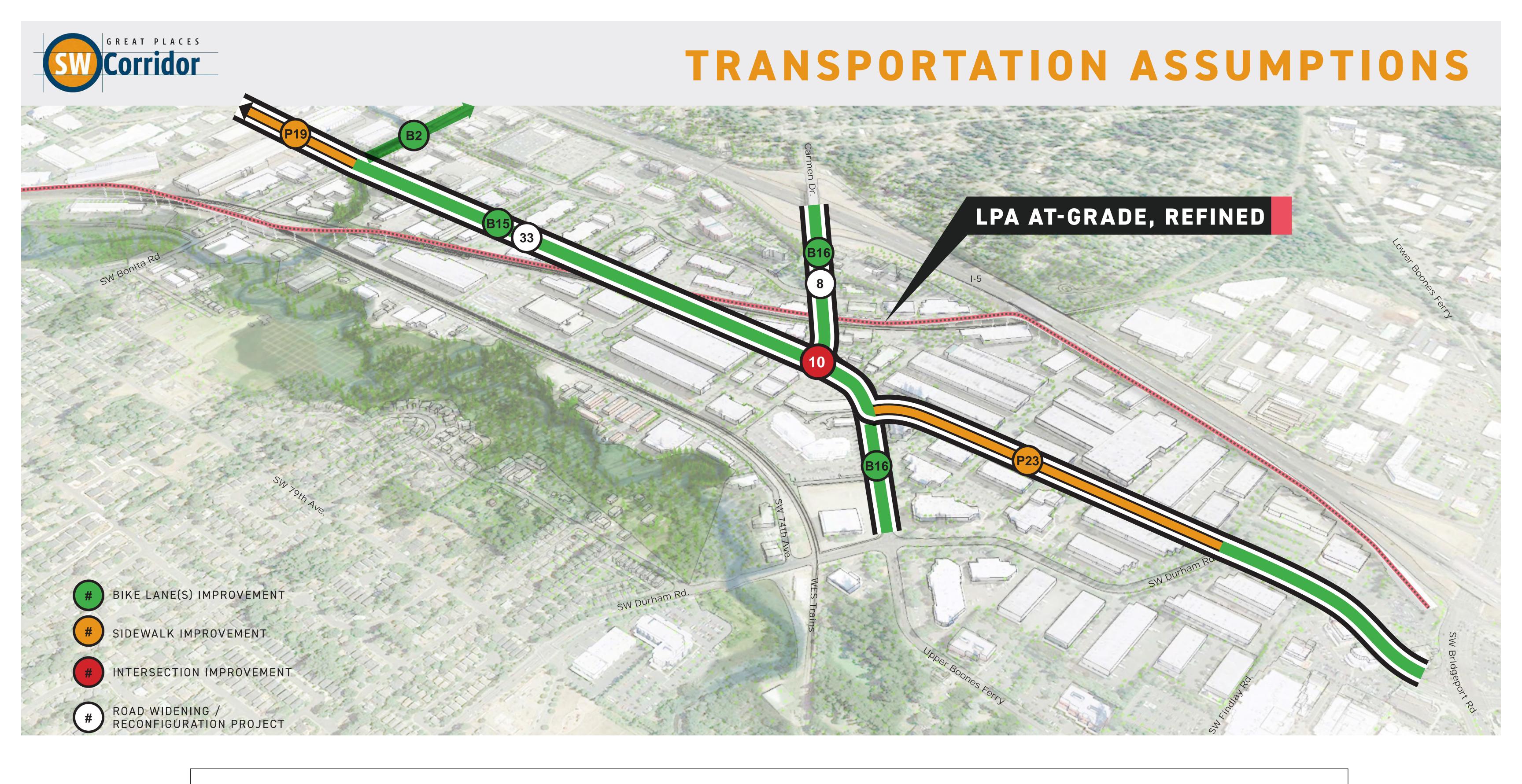
SE 8TH/DIVISION PL

Signal and queue detection technology

Signage:

- Do Not Stop on Tracks
- 4 Tracks
- Stop Here on Red

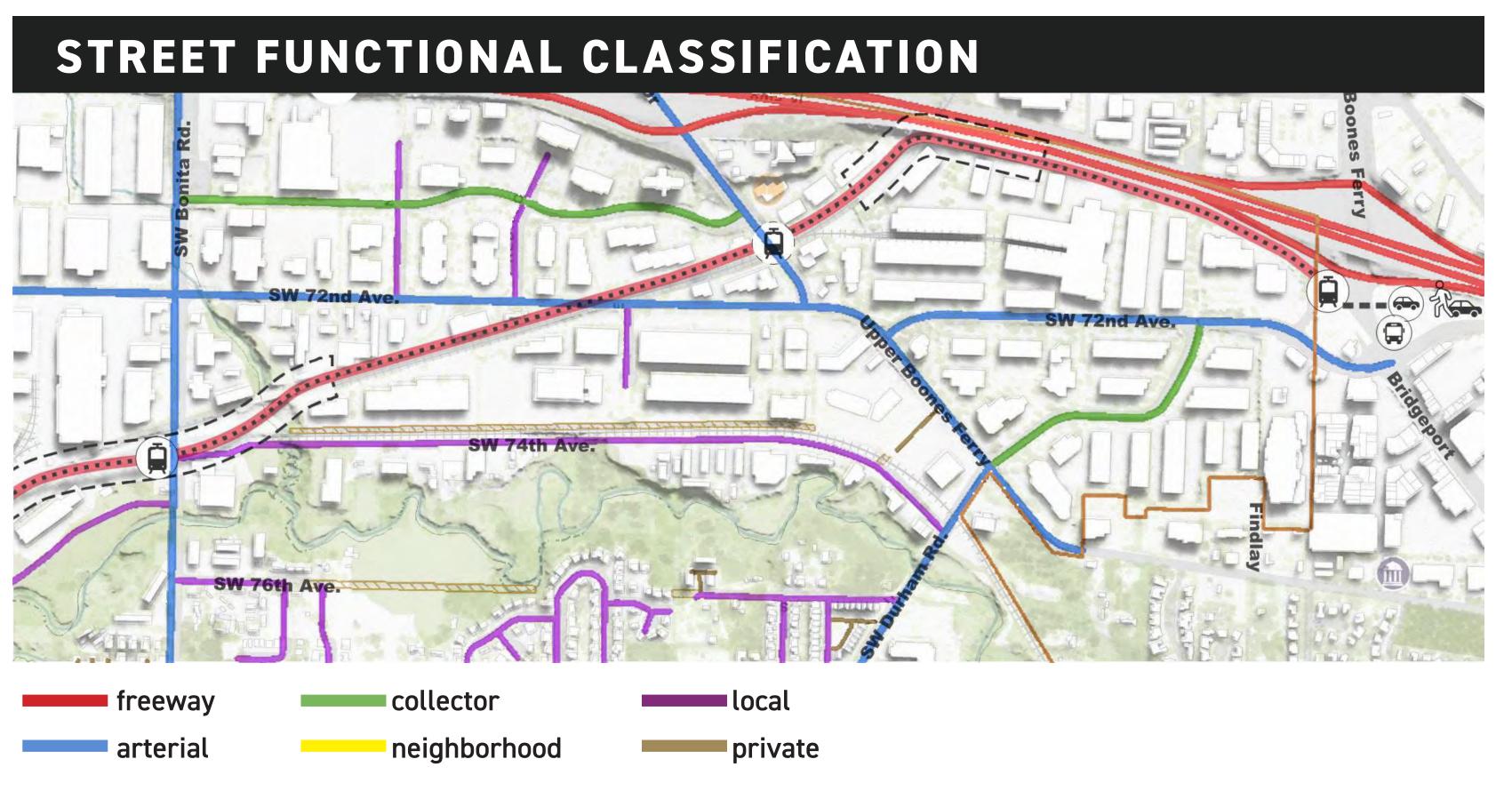


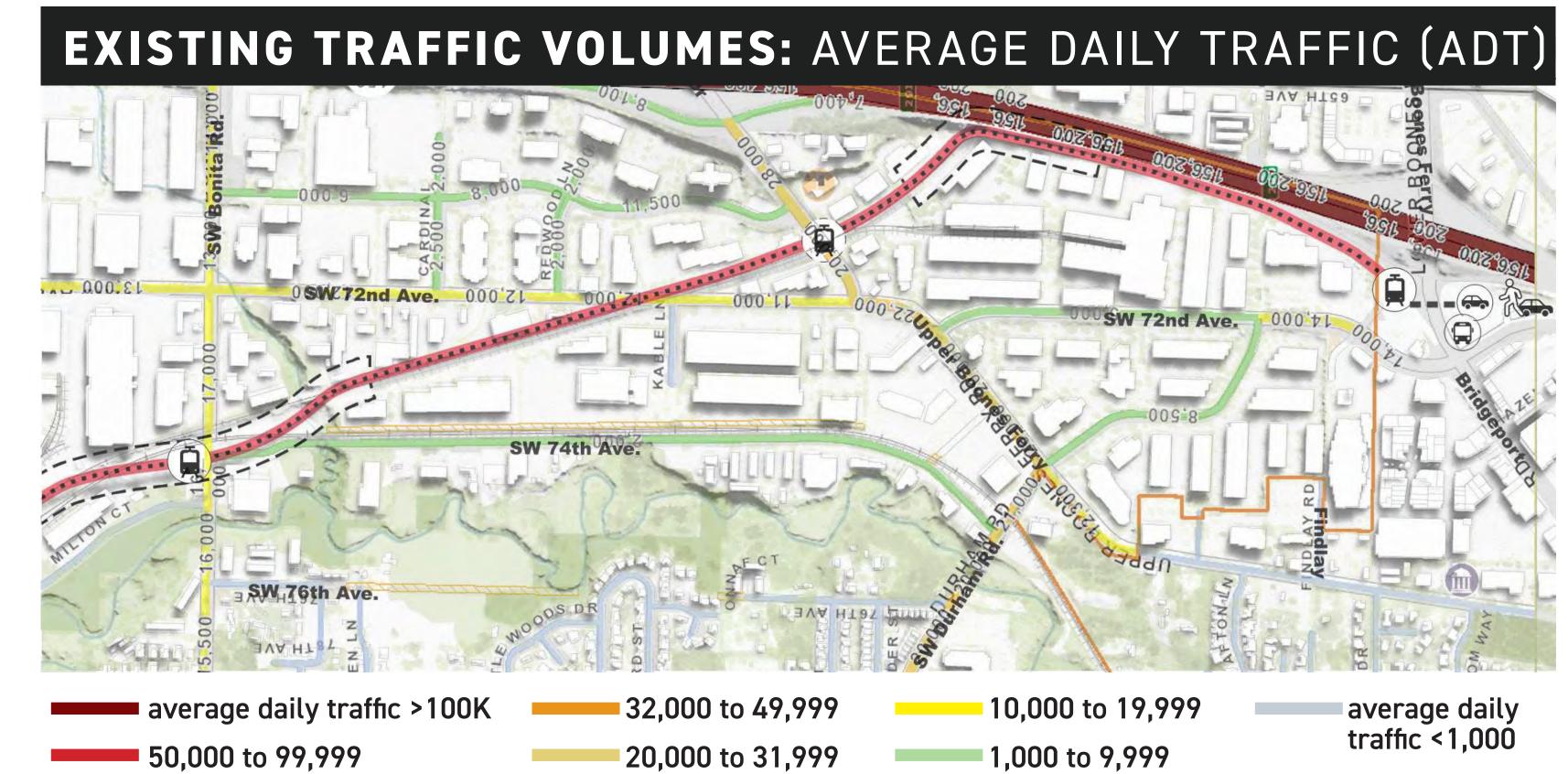


FUTURE PLANNED PROJECTS

ADOPTED IN JURISDICTIONS' PLANS: FUNDING TBD

	name	type	description	timeframe
B2	Bonita Road	bike lane	install eastbound bike lanes from 72nd Avenue to I-5 bridge	near-term
B15	72nd Avenue	bike lane	install bike facilities on both sides of the street from Pacific Highway to south City limits	near-term
8	Upper Boones Ferry Road widening between upper 72nd avenue and lower 72nd	road widening	widen Upper Boones Ferry from lower 72nd avenue to upper 72nd avenue	near-term
10	72nd/Upper Boones Ferry	intersection improvement	intersection improvements	near-term
33	72nd Avenue widening: Hunziker to Durham	road widening	widen to 2/3 lanes	long-term
B16	Upper Boones Ferry Road	bike lane	install bike lanes on both sides of street from I-5 to Durham road	mid-term
7	Durham Road/Upper Boones/72nd realignment and widening	road widening and /or reconfiguration	Realign/reconfigure/widen Durham Road, Upper Boones Ferry Road-72nd Avenue intersections/ roadway to accommodate traffic flow between Durham Road and I-5. Widen Upper Boones. A refinement study is needed to address specific alignment of Durham and Upper Boones Ferry and alignment of southern Durham Road and 72nd Avenue. As part of this project Upper Boones Ferry Road from Durham to Sequoia Parkway should be widened to five lanes	long-term
P19	72nd Avenue	sidewalk	complete gaps in sidewalk from Pacific Highway to Bonita road	near-term
P23	72nd Avenue	sidewalk	Install sidewalk on both sides of street from Upper Boones Ferry Road to Durham Road	near-term







LIGHT RAIL RIDERSHIP - 2035 PROJECTION

EXCERPTS FROM 2018 DRAFT ENVIRONMENTAL IMPACT STATEMENT

AVERAGE WEEKDAY STATION USAGE (ONS AND OFFS) BY MODE OF ACCESS AND EGRESS 2035

	Through Configuration					
Station	% by Mode of Access	Station Ons/Offs	% Total Ons/Offs			
Jackson	56% walk 44% transfer	2,194	4%			
Gibbs	94% walk 6% transfer	8,341	15%			
Hamilton	55% walk 45% transfer	1,279	2%			
Custer	61% walk 39% transfer	2,202	4%			
19th Ave	19th Ave 70% walk 29% transfer 1% auto		4%			
26th Ave	95% walk 0% transfer 5% auto	4,059	7%			
Barbur TC	40% walk 25% transfer 35% auto	4,368	8%			
53rd Ave	46% walk 2% transfer 52% auto	3,586	6%			
Baylor	69% walk 1% transfer 30% auto	3,204	6%			
Beveland	91% walk 0% transfer 9% auto	2,620	5%			
Tigard TC	28% walk 61% transfer 11% auto	11,303	20%			
Bonita	89% walk 11% transfer 0% auto	2,670	5%			
Upper Boones Ferry	94% walk 0% transfer 6% auto	2,009	4%			
Bridgeport	32% walk 35% transfer 33% auto	6,120	11%			

