

ENGINEERING SERVICES

LEA HILL ROAD CORRIDOR STUDY

RYAN VONDRAK
CITY COUNCIL STUDY SESSION
JUNE 8, 2020

Public Works Department

Engineering Services • Airport Services • Maintenance & Operations Services

AUBURN
VALUES

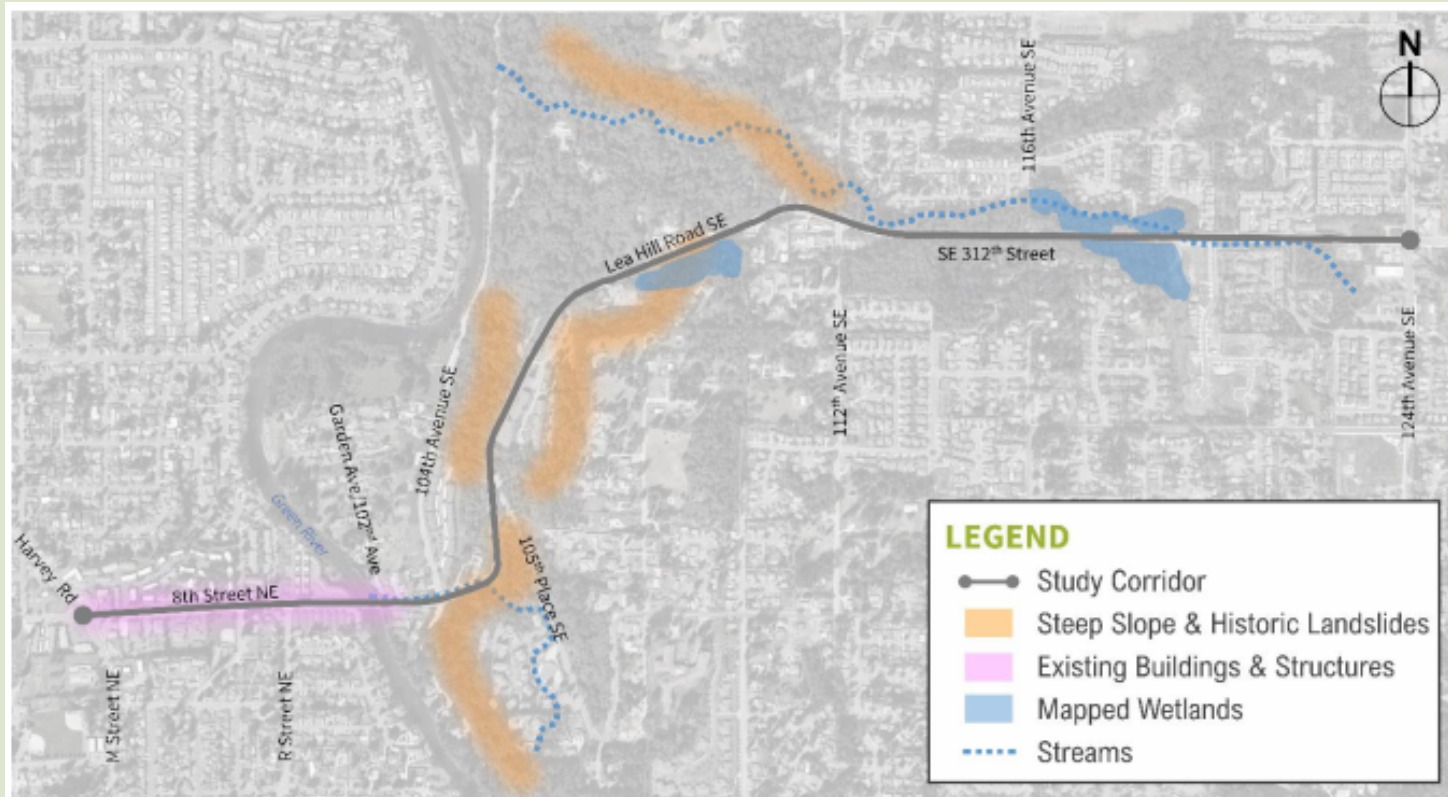
S E R V I C E
E N V I R O N M E N T
E C O N O M Y
C H A R A C T E R
S U S T A I N A B I L I T Y
W E L L N E S S
C E L E B R A T I O N

PROJECT BACKGROUND

- **Lea Hill Corridor Study initiated fall 2018**
- **Long range plan to improve mobility, capacity and safety**
- **Includes 8th St NE, Lea Hill Road SE, SE 312th St**
- **Roadway segment connects to downtown, Auburn Golf Course, Lea Hill neighborhood, Green River College, and State Route 18**



CORRIDOR CHALLENGES



SERVICE • ENVIRONMENT • ECONOMY • CHARACTER • SUSTAINABILITY • WELLNESS • CELEBRATION

STUDY OBJECTIVES

- Accommodates projected traffic growth
- Meets the City's mobility goals
- Enhances safety for all roadway users
- Increases access for pedestrians, cyclists, and transit riders

PUBLIC INVOLVEMENT

- **Transportation Advisory Board (TAB) Meetings**
- **Key Stakeholder Coordination:**
 - ❖ **KC Metro**
 - ❖ **Green River College**
 - ❖ **Auburn Police**
 - ❖ **Valley Regional Fire Authority**
 - ❖ **Auburn School District**
- **Project Webpage**
- **Public Open House (In-person and virtual)**

EXISTING PEDESTRIAN AND TRANSIT FACILITIES

- Lack of sidewalks or dedicated walking paths
- No bike facilities
- No refuge areas for transit



Westbound direction
approaching 105th PI SE

EXISTING PEDESTRIAN AND TRANSIT FACILITIES

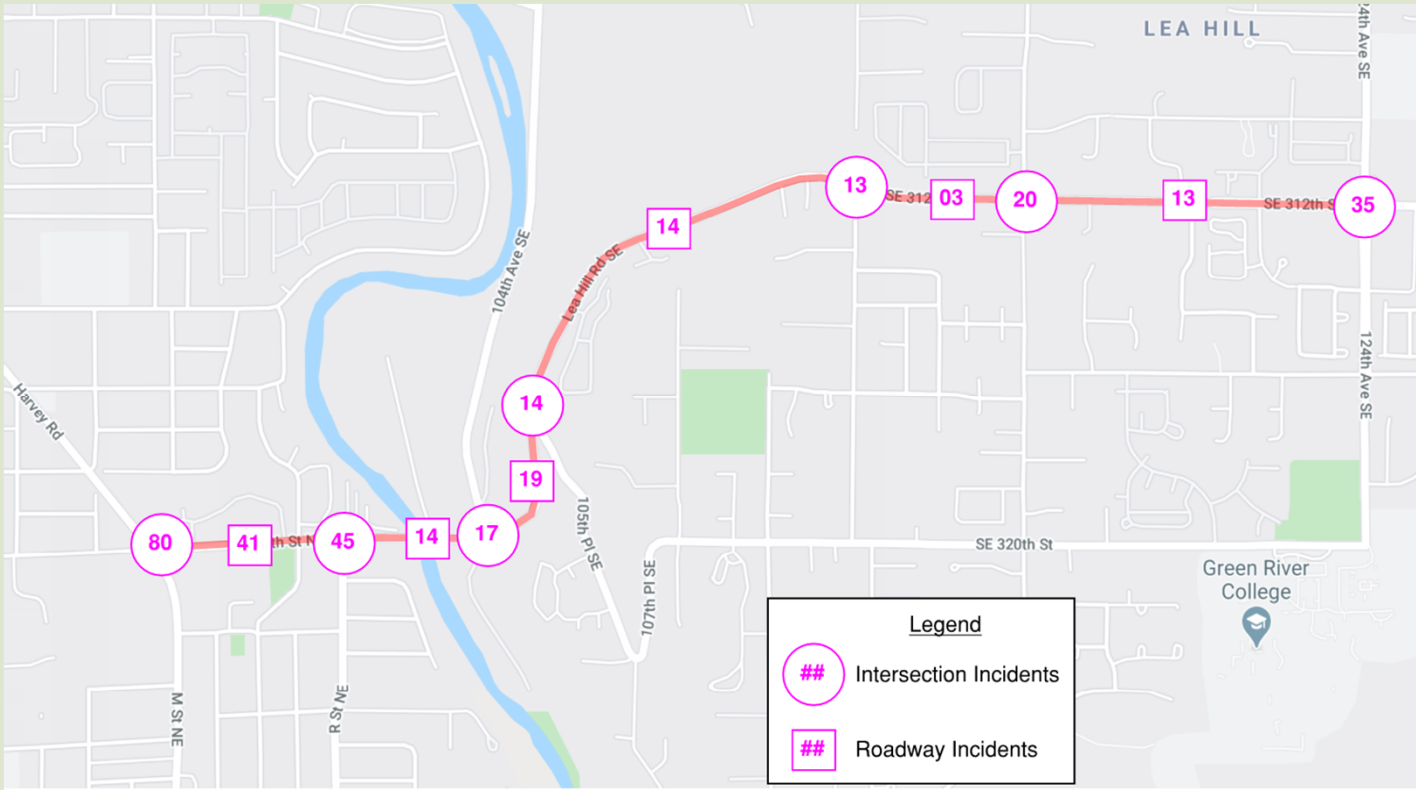


Eastbound direction
approaching 107th PI SE

SERVICE • ENVIRONMENT • ECONOMY • CHARACTER • SUSTAINABILITY • WELLNESS • CELEBRATION

CRASH INFORMATION

From 2014-2018:
■ 328 total incidents



INTERSECTION LEVEL OF SERVICE (LOS)

LOS A - Free Flow,
no congestion



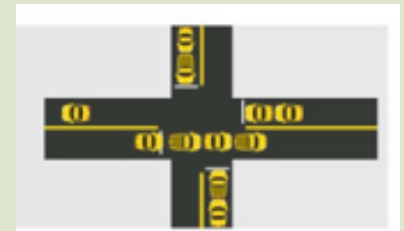
LOS B - Free Flow,
little congestion



LOS C - Free Flow,
moderate congestion



LOS D -
Approaching unstable



LOS E - Unstable,
congested



LOS F - Gridlock



INTERSECTION OPERATIONS – EXISTING AND FUTURE

Intersection	Level of Service (LOS)	
	Existing (2018)	Horizon Year (2040)
8 th Street NE & Harvey Road/M Street NE	D	D
8 th Street NE & Pike Street NE	C	F
8th Street NE & R Street NE	B	C
Lea Hill Road SE & 104th Avenue SE	B	C
Lea Hill Road SE & 105th Place SE	A	D
Lea Hill Road SE & 112th Avenue SE	C	F
SE 312th Street & 116th Avenue SE	C	F
SE 312th Street & 124th Avenue SE	C	D

INTERSECTION OPERATIONS



Westbound direction
approaching 112th Ave SE

SERVICE • ENVIRONMENT • ECONOMY • CHARACTER • SUSTAINABILITY • WELLNESS • CELEBRATION

PERFORMANCE METRICS

1 Corridor Safety

Minimize the number of conflict points and predicted crashes

2 Intersection Operations

Minimize delay and congestion at key intersections

3 Corridor Operations

Minimize travel times and maximize vehicle throughput

4 Lea Hill Neighborhood Connectivity

Increase street connectivity and route options in the neighborhood

5 Pedestrian Mobility & Transit Access

Improve the walking environment and access to bus stops

6 Bicycle Mobility

Improve access and safety for cyclists on the corridor

7 Environmental Risks

Limit impacts to steep slopes, streams, wetlands, and other environmental hazards and cultural resources

8 Right-of-way Impacts

Minimize property acquisition and the number of relocations

CORRIDOR RECOMMENDATIONS

- Expand Sidewalks on bridge
- Roundabout at 104th Avenue SE
- Garden Avenue Connection to 104th Avenue SE



CORRIDOR RECOMMENDATIONS

- Shared-Use path
- Bike Lane
- Limited access at 105th Place SE
- Pedestrian activated crosswalks



CORRIDOR RECOMMENDATIONS

- Shared-Use path
- Bike Lane
- Roundabout at 112th Avenue SE



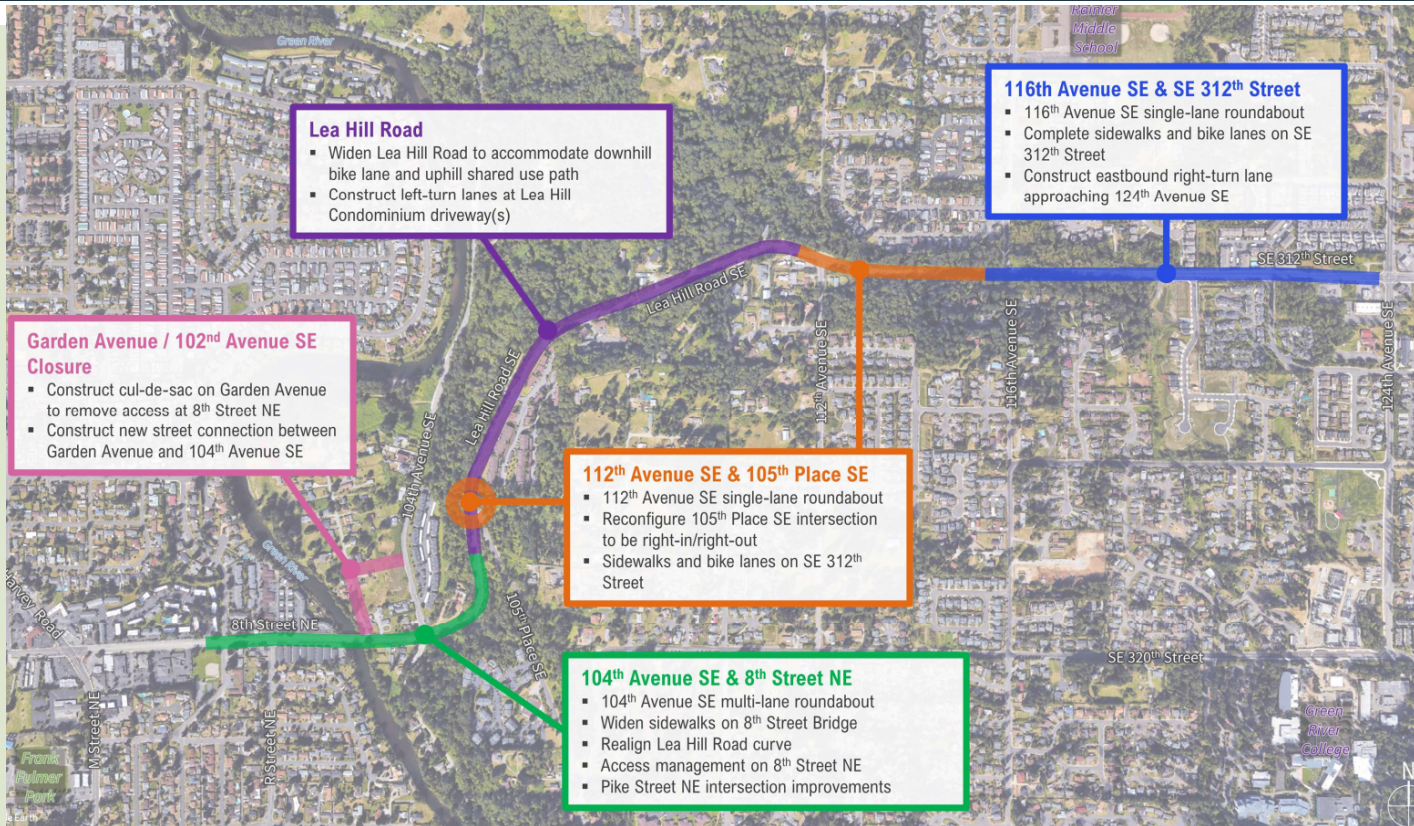
CORRIDOR RECOMMENDATIONS

- Sidewalks
- Bike Lane
- Roundabout at 116th Avenue SE



SERVICE • ENVIRONMENT • ECONOMY • CHARACTER • SUSTAINABILITY • WELLNESS • CELEBRATION

IMPLEMENTATION



SERVICE • ENVIRONMENT • ECONOMY • CHARACTER • SUSTAINABILITY • WELLNESS • CELEBRATION

NEXT STEPS

■ Grant opportunities

Project	Estimated Cost (2019\$)	Funding	Next Steps
Garden Street/102nd Avenue SE Closure****	\$620,000	Fully Funded	Property Acquisition 2020 Design 2021 Construction 2022
104th Avenue SE & 8th St NE	\$3,980,000	Not Yet Secured	To be added to Comprehensive Plan
Lea Hill Road Widening	\$9,470,000	Not Yet Secured	To be added to Comprehensive Plan
112th Avenue SE & 105th Place SE****	\$5,090,000	Not Yet Secured	Design 2024 Construction 2026
116th Avenue SE & SE 312th Street	\$5,610,000	Not Yet Secured	To be added to Comprehensive Plan
Total \$24,770,000			
****Included in proposed 2021-2026 Transportation Improvement Program			

QUESTIONS

SERVICE • ENVIRONMENT • ECONOMY • CHARACTER • SUSTAINABILITY • WELLNESS • CELEBRATION