Marquam Hill Connector Green Ribbon Committee Meeting #3 April 10, 2019



# Agenda

5:10-6:00

4:00 – 4:15	Public Comment
4:15-4:25	Public Engagement: Survey Report & Look Ahead
4:25-5:10	Review & Evaluation of Connector Type Options

Connector Type Discussion



# Marquam Hill Connector Goals Survey

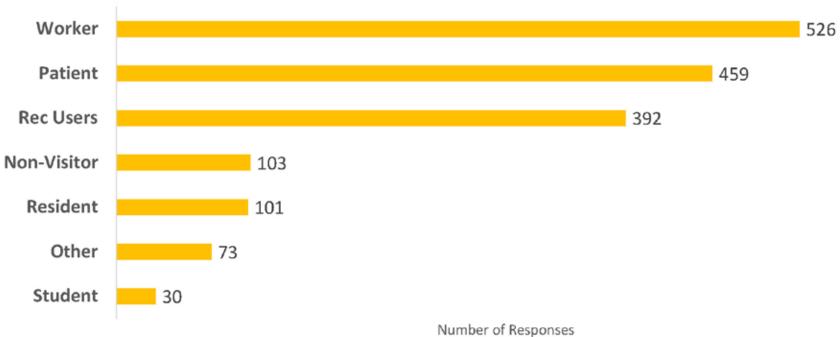
March 18 - April 1

Total Responses: 1,017

Total Comments: 303

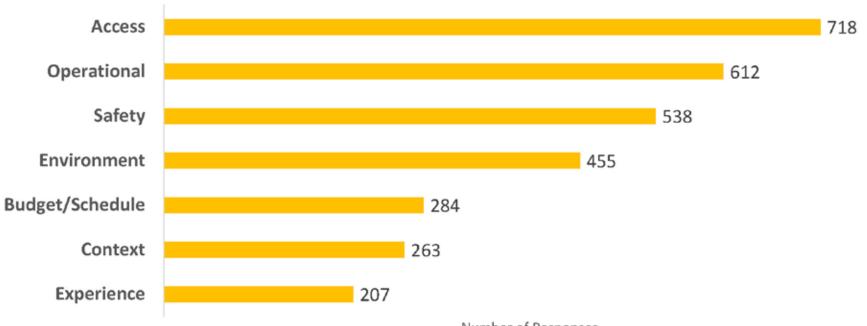


## Respondent Types



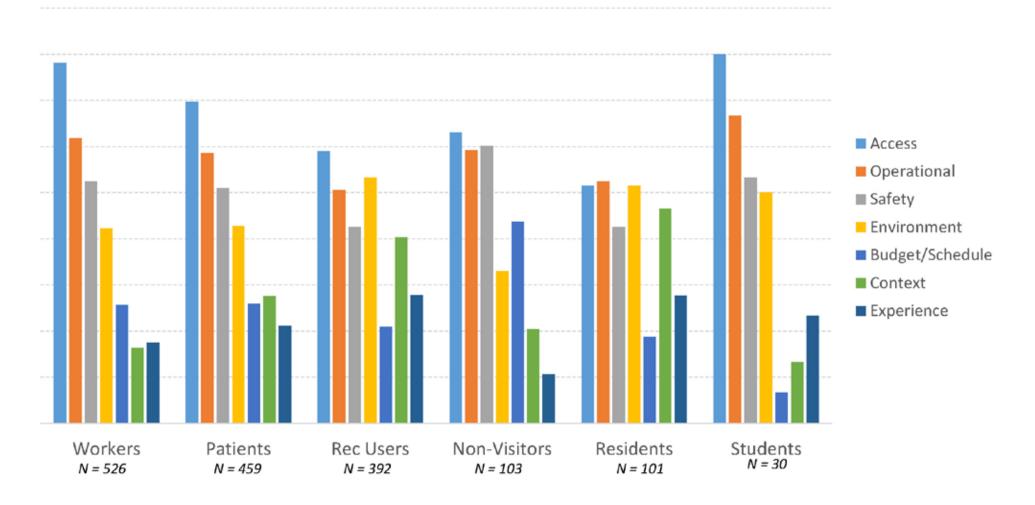
Note: Respondents could choose multiple



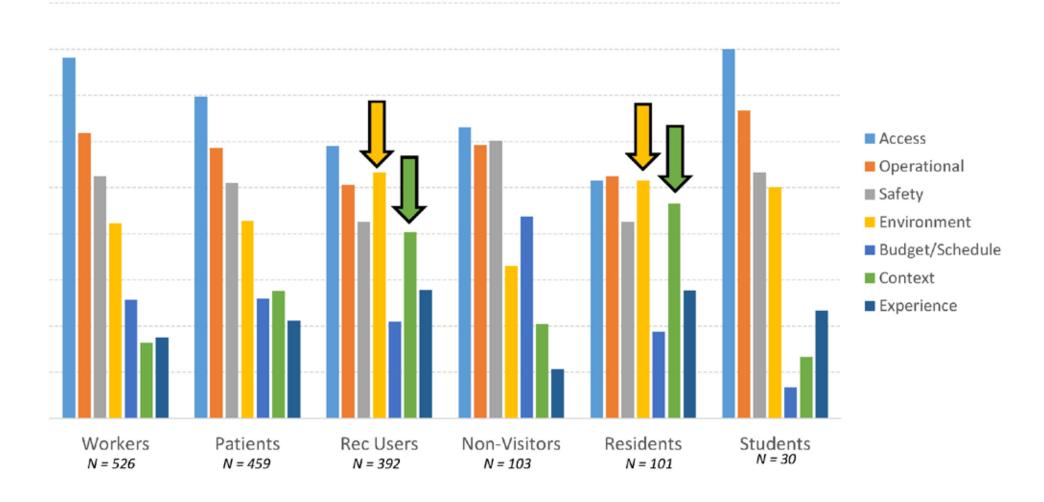


Number of Responses
Note: Respondents were asked to choose three

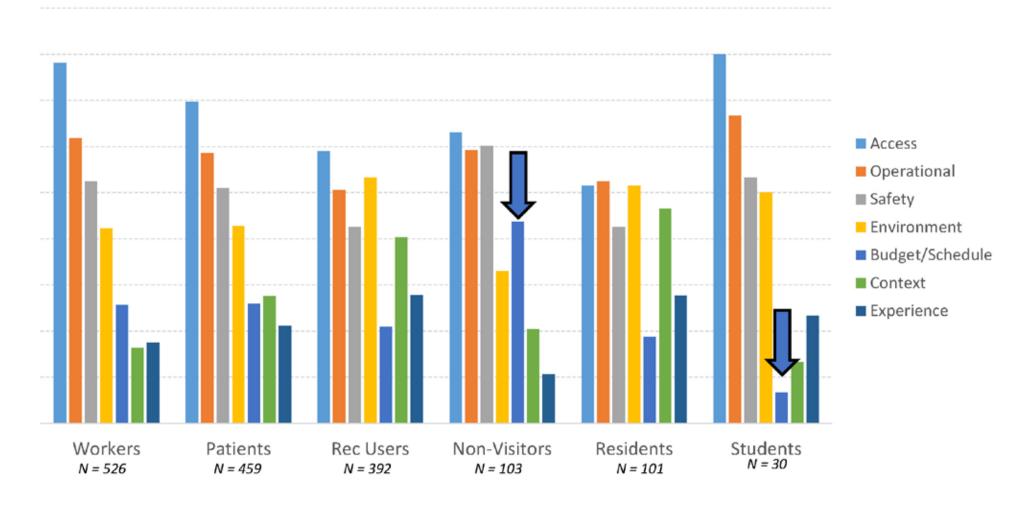






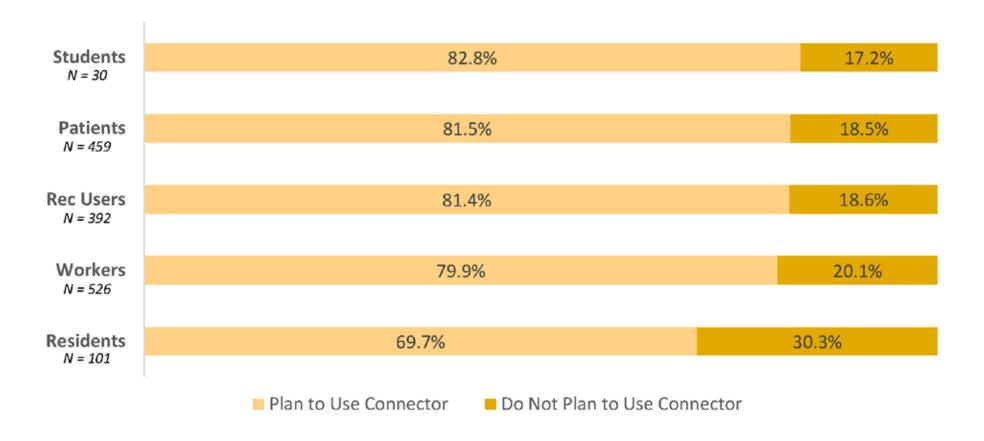








## Likely Users of the Connector





### **Big Comment Themes**

- > Fast, efficient, and convenient.
- > Protect the natural and historic environment.
- ➤ Minimize neighborhood impacts (i.e. traffic/parking/noise/light).
- **➤** Consider limited mobility needs.
- ➤ Make sure it is safe.



### Other Comments

- **≻**Use of bikes.
- > Extended hour access to OHSU.
- **➤** Weather protection.
- > Connections to the South Waterfront.



### Public Engagement Look Ahead

• Open House TODAY (3 – 7:30pm)

• Online Open House April 15 – April 29

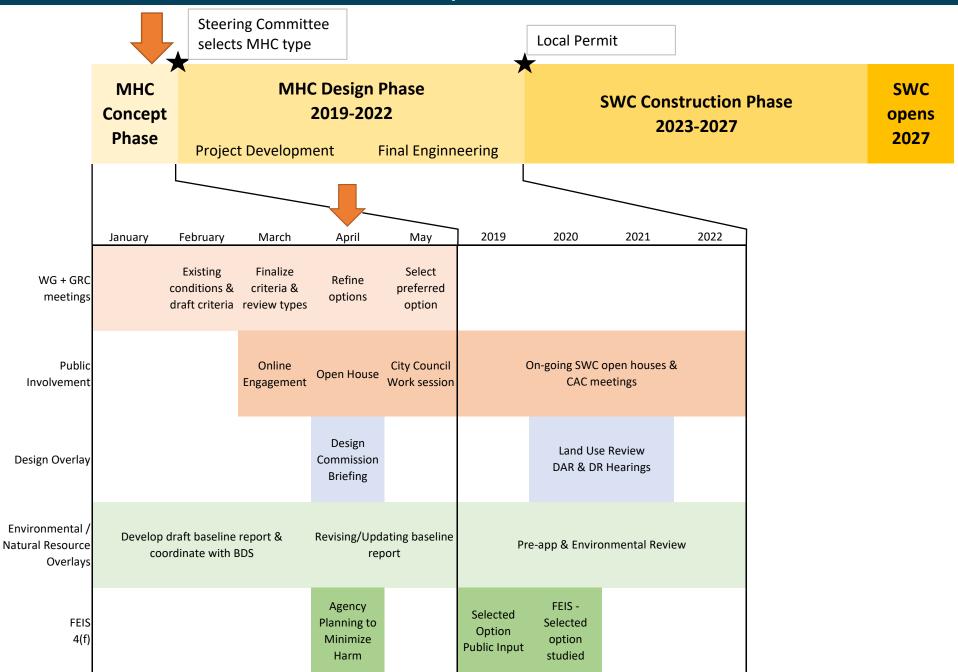
Committee on Accessible Transportation (CAT) April 11

Portland Design Commission Briefing April 18

Portland City Council Work Session May 7



## Where we are in the process...





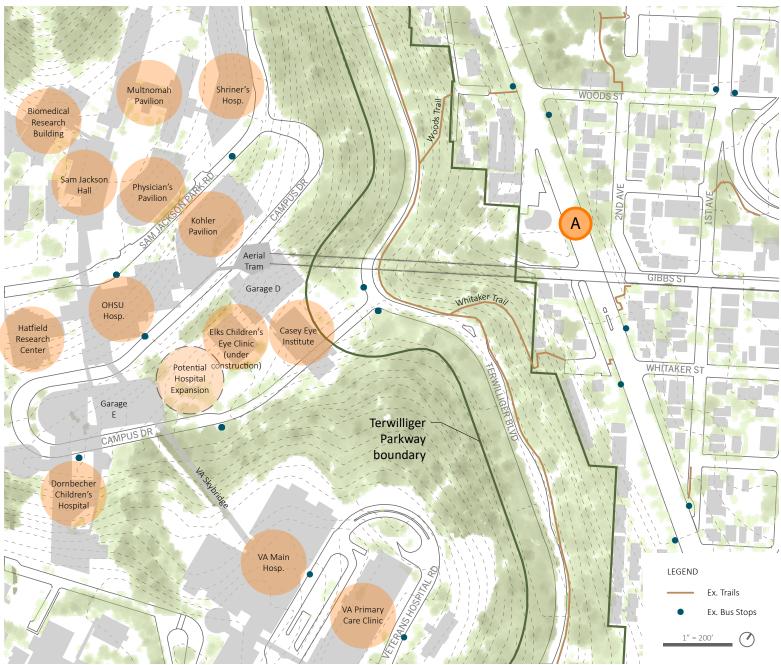
## Focus Topics from March GRC

#### Types to study further:

- Bridge + Elevators
- Funicular/Inclined Elevator
- Tunnel + Elevators
- Aerial Tram (cost analysis)
- At-grade Crossing
- Undercrossing

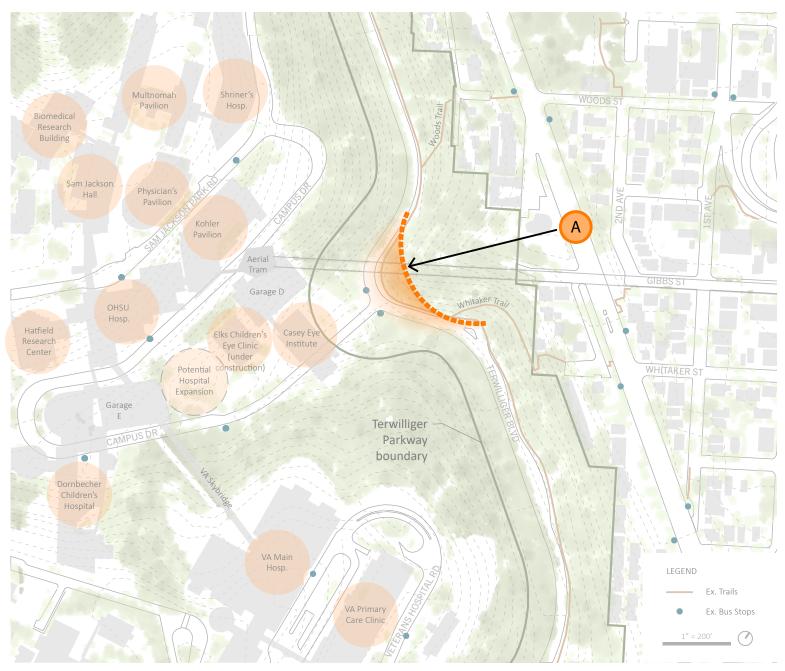


# Where are we going?



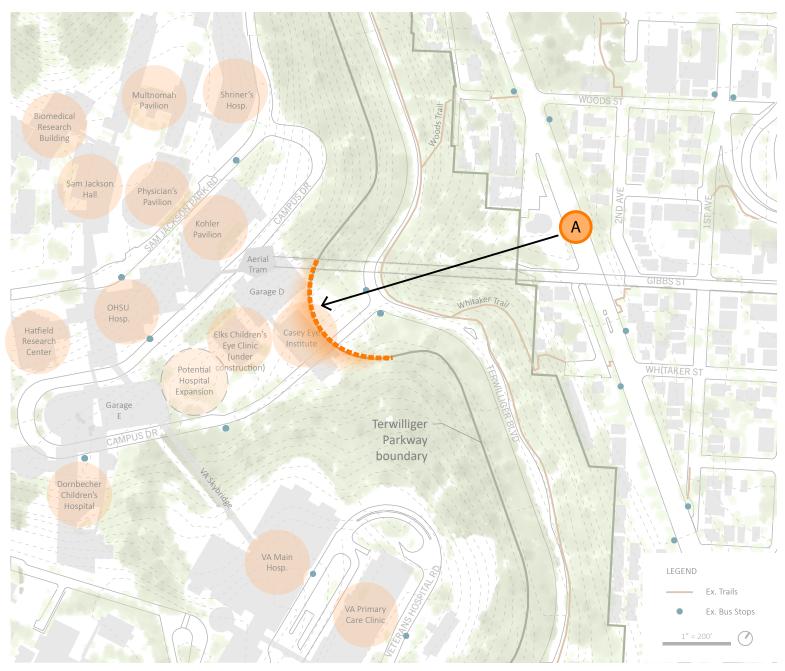


# Gibbs Station to Terwilliger Blvd



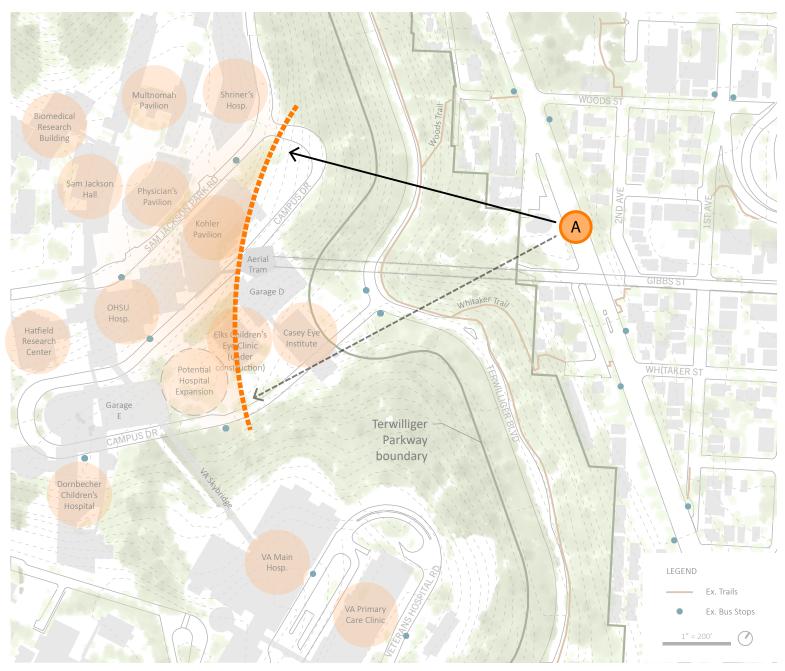


## Gibbs Station to Parkway Boundary





## Gibbs Station to OHSU Interior





## Inclined Elevators

#### **Precedents**



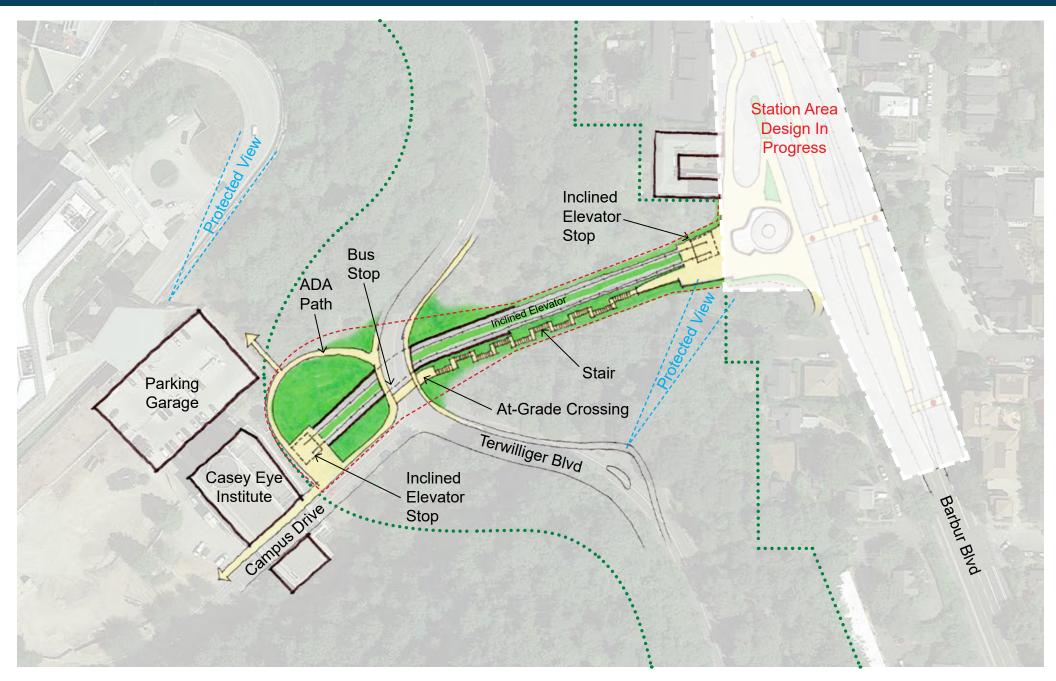








# Inclined Elevators - Plan



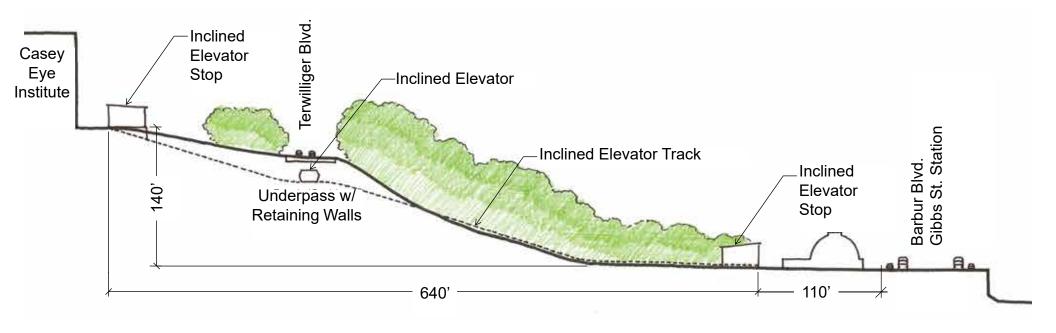


# Inclined Elevators - View from base





## Inclined Elevators - Section





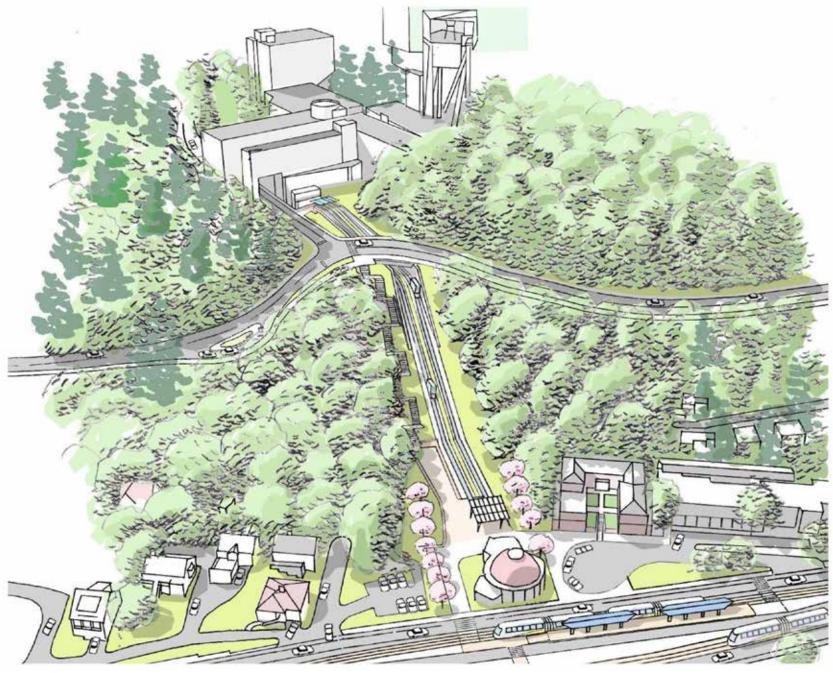
# Inclined Elevators - Stairway





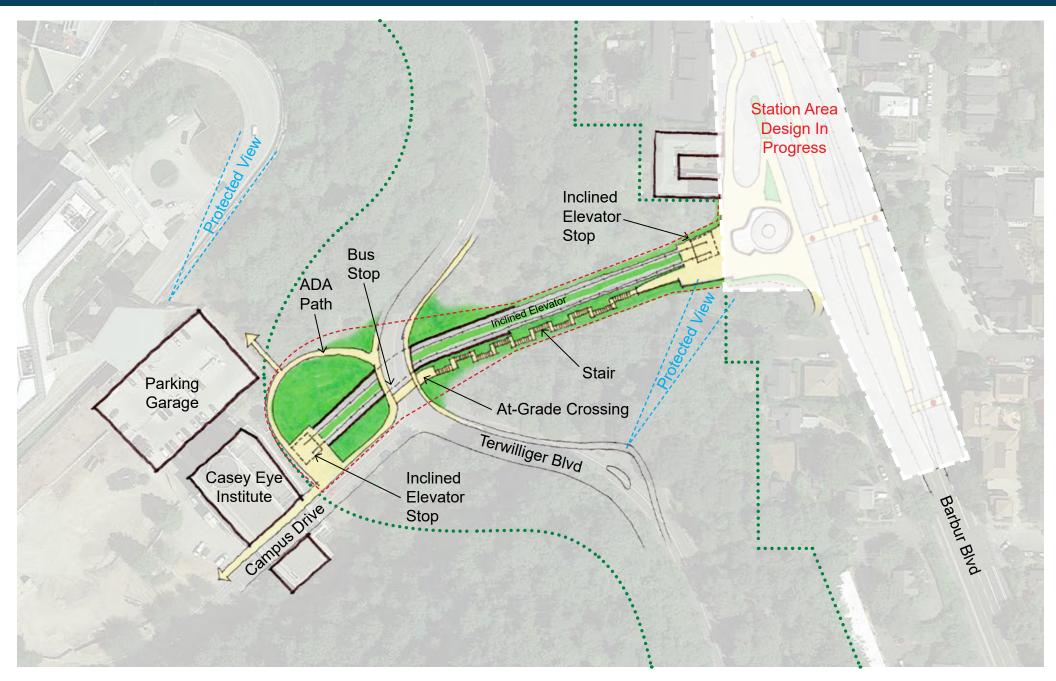


# Inclined Elevators - Aerial View



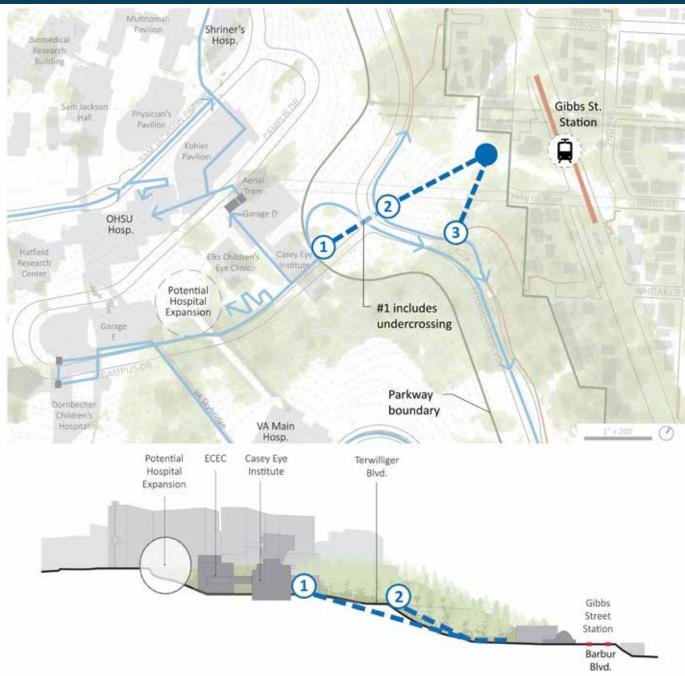


# Inclined Elevators - Plan





# Inclined Elevators-Potential Alignments



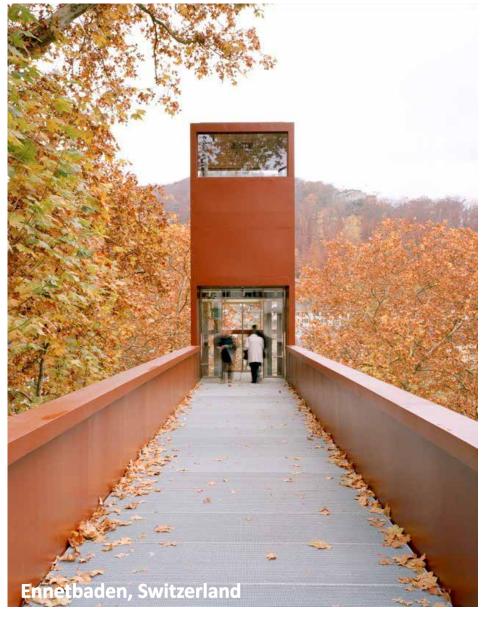


# Bridge + Elevators

#### **Precedents**

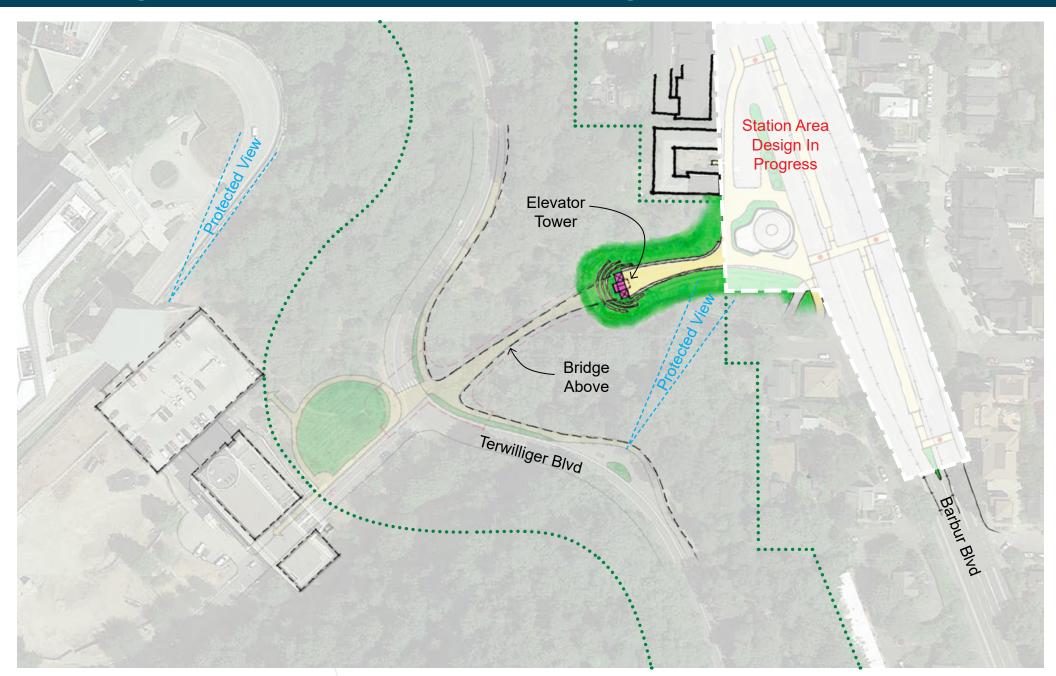






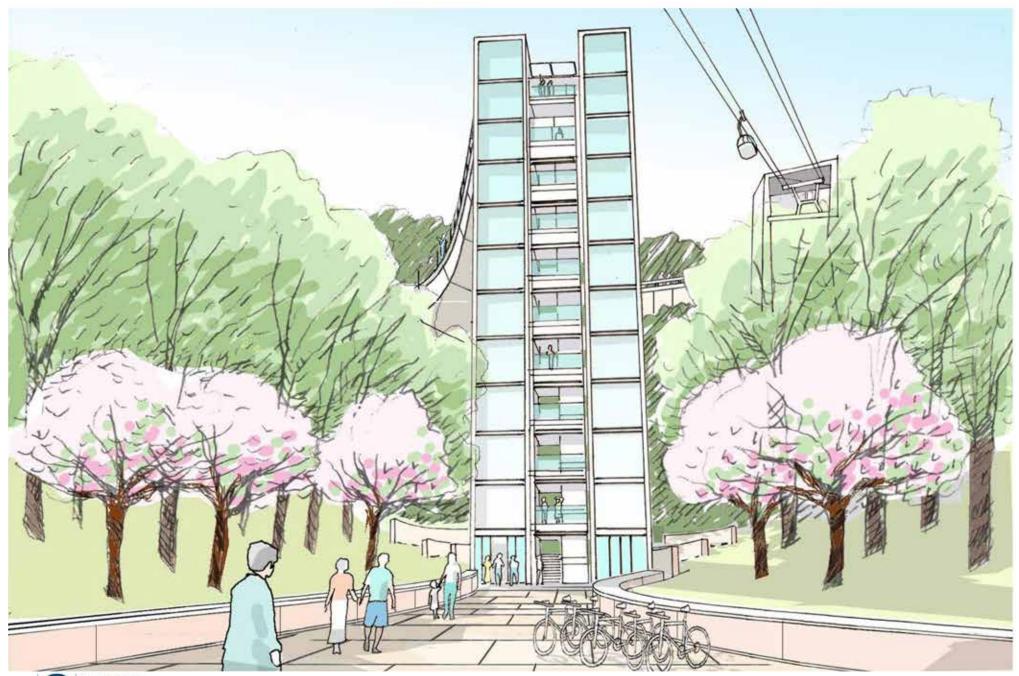


# Bridge + Elevators to Terwilliger (Lower Level)





# Bridge + Elevators - View west from base



# Bridge + Elevators - Overlooks

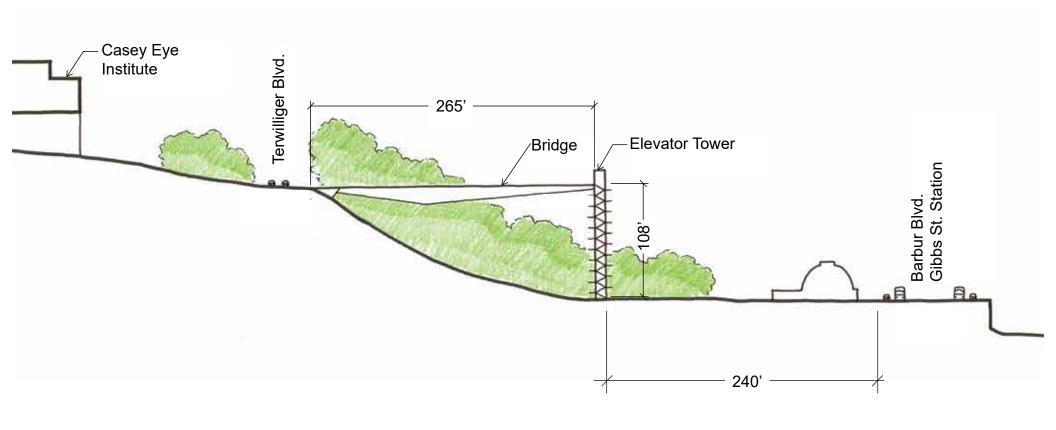
#### **Precedents**







# Bridge + Elevators - Section



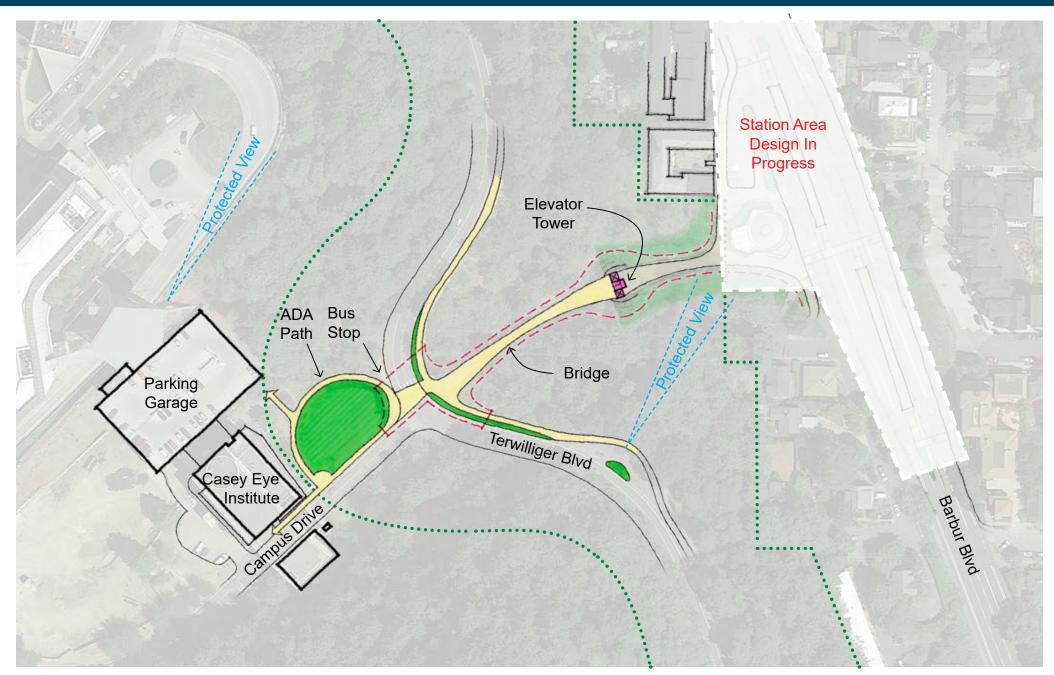


# Bridge + Elevators - View east from roadway



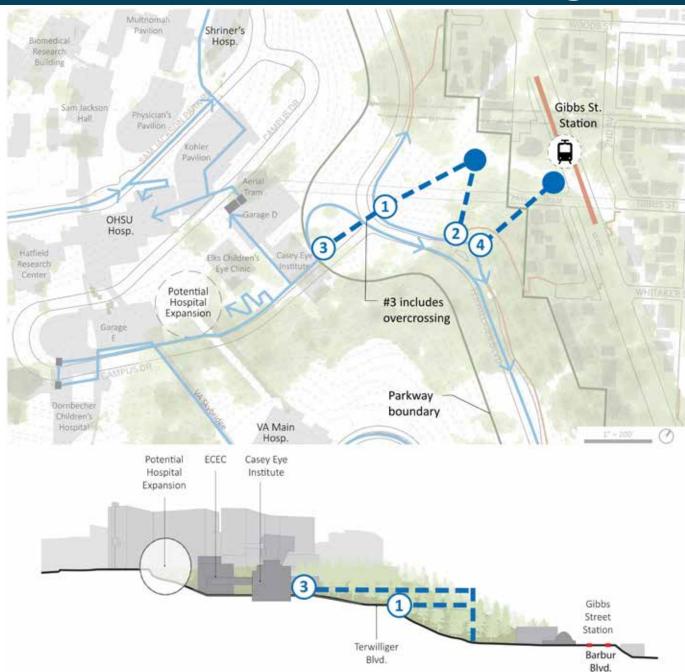


# Bridge + Elevators to Terwilliger (Upper Level)





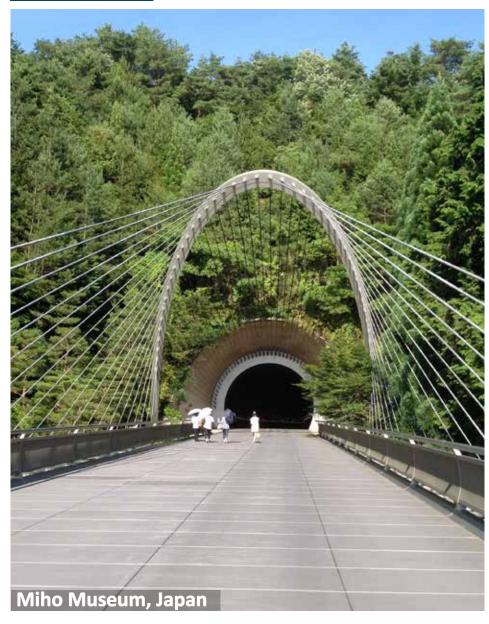
## Bridge + Elevators - Potential Alignments





# Tunnel + Elevators

#### **Precedents**

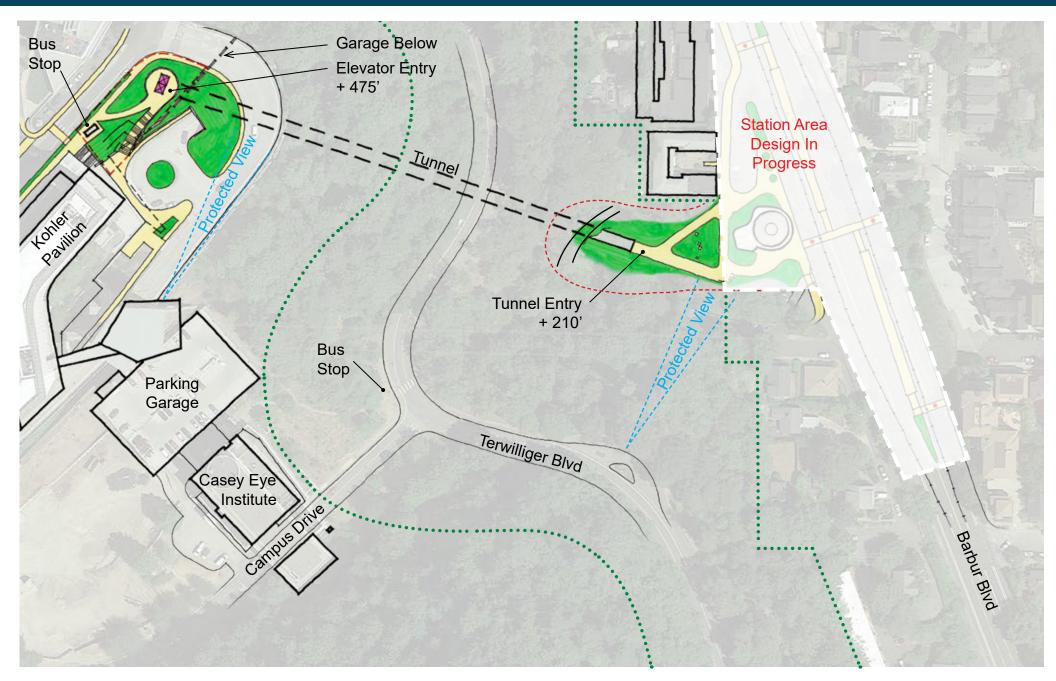






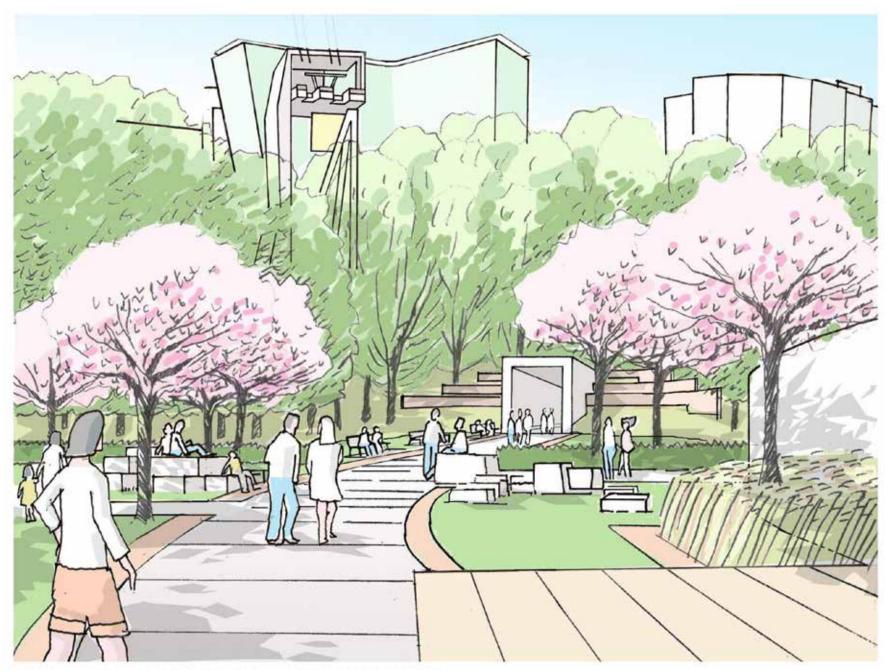


# Tunnel + Elevators - Plan



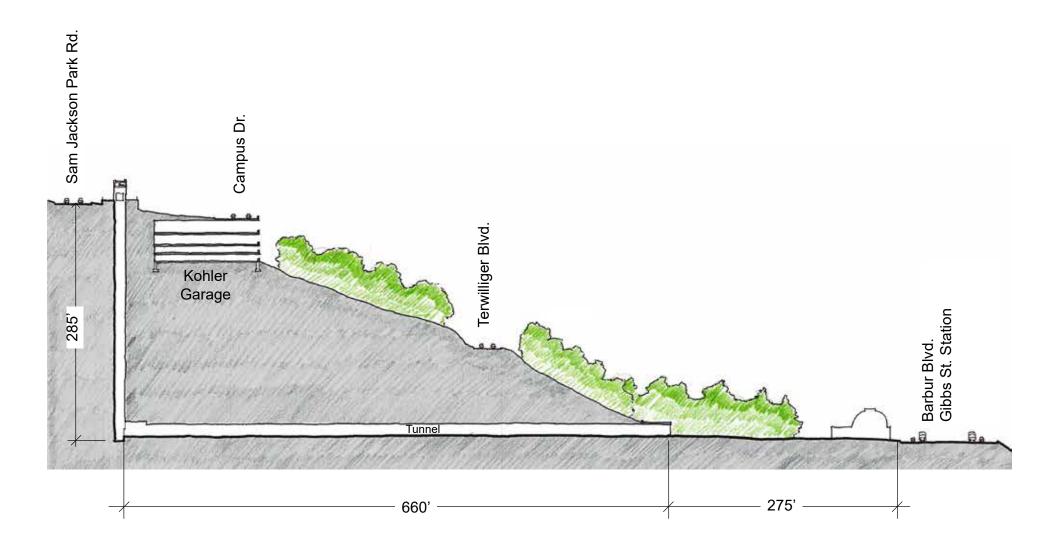


### Tunnel + Elevators - View west from base





### Tunnel + Elevators - Section





### Tunnel + Elevators





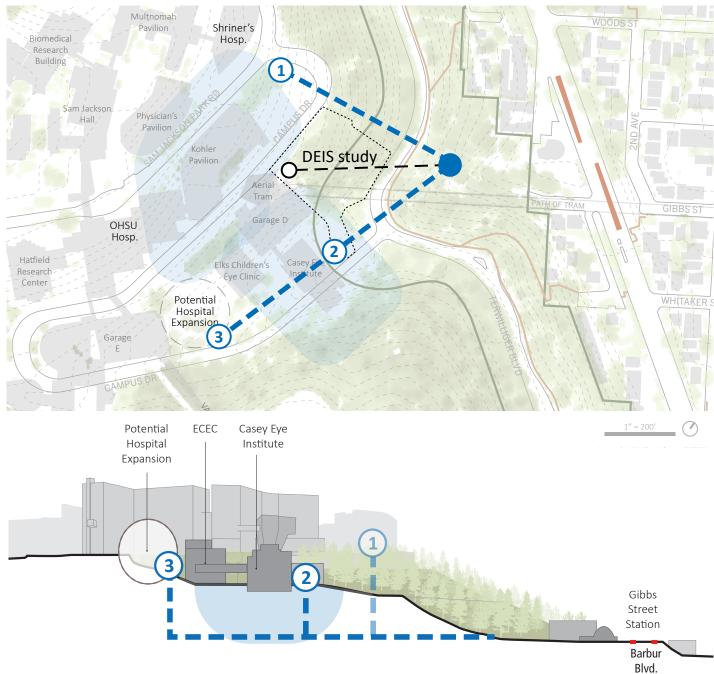


# Tunnel + Elevators - Aerial View





### Tunnel + Elevators - Potential Alignments





# Aerial Tram Concept

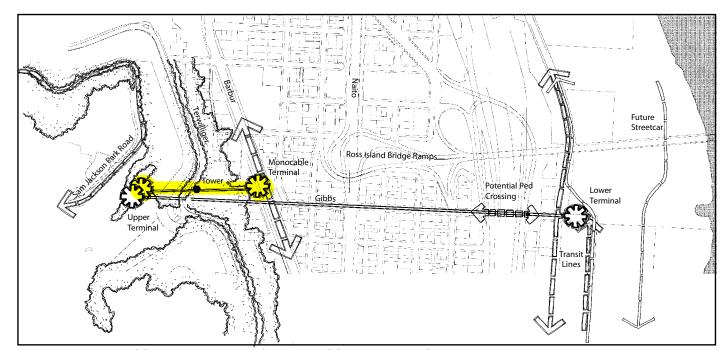


Figure 3.12 Gibbs Street Tram with Monocable Tram at Barbur

141 Feet to Top of Tower

Terwilliger

Figure 3.13 Monocable Tram Profile

Barbur



# Aerial Tram Concept

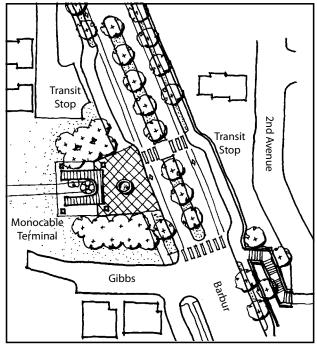
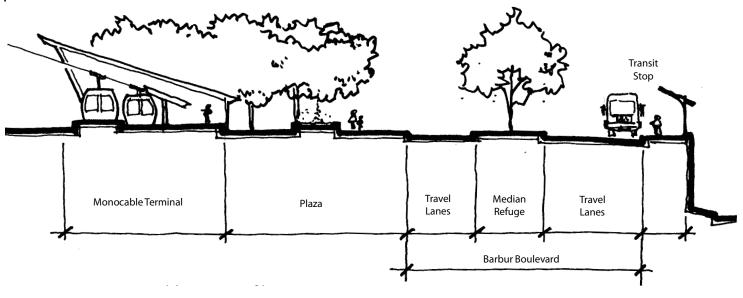


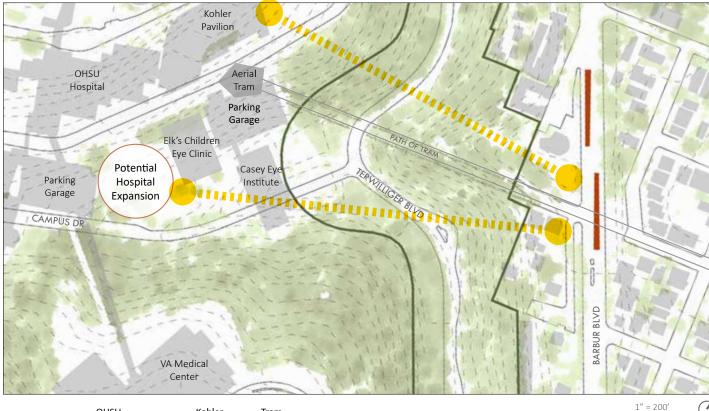
Figure 3.14 Barbur Monocable Station & Crossing Improvements



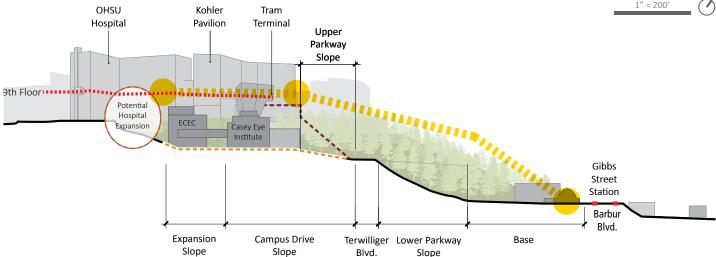


### Aerial Tram Concept

#### Plan

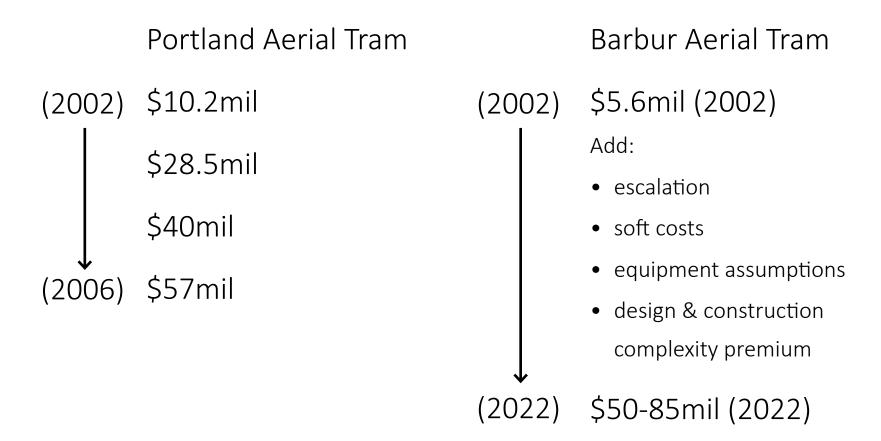


#### **Section**





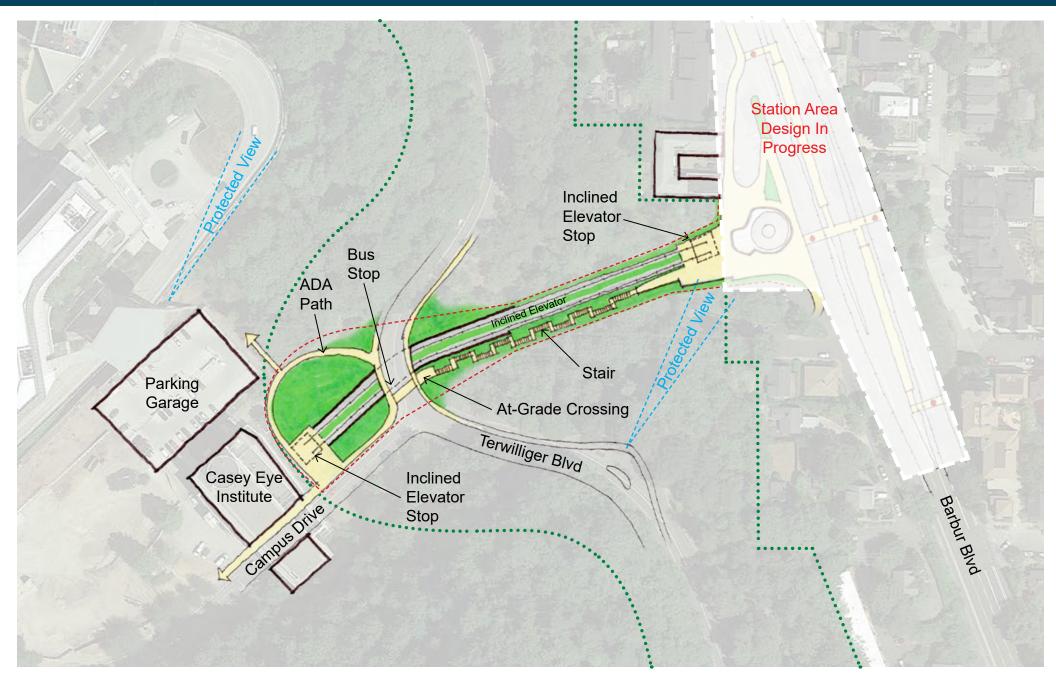
### Aerial Tram Cost Analysis





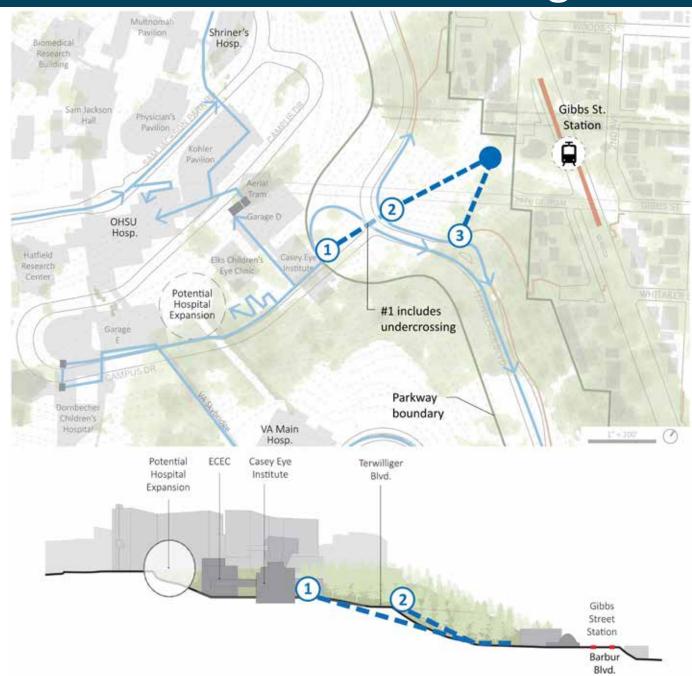
### Discussion

# Inclined Elevators - Plan



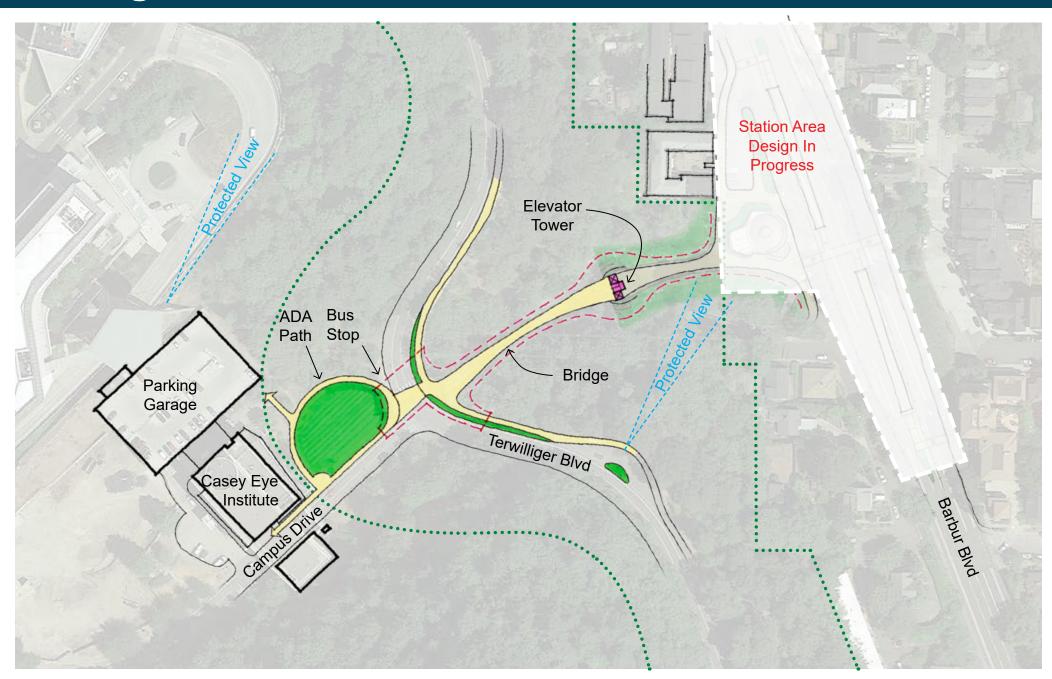


# Inclined Elevators-Potential Alignments



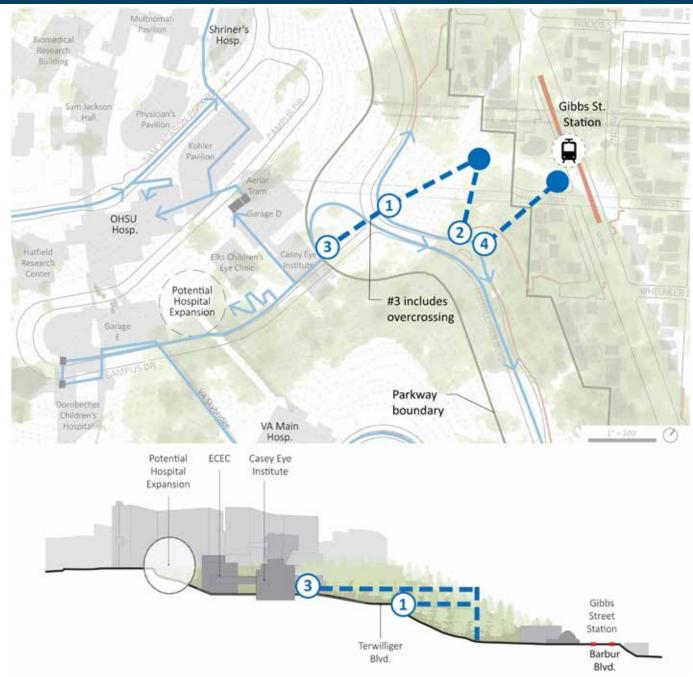


# Bridge + Elevators - Plan



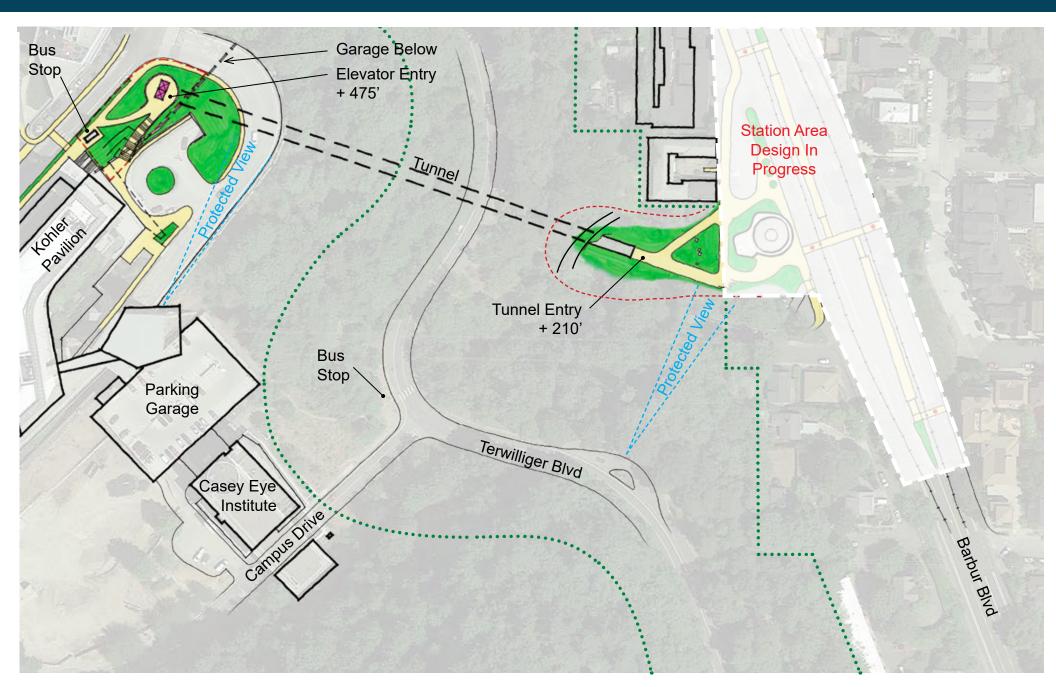


### Bridge + Elevators - Potential Alignments





# Tunnel + Elevators - Plan





### Tunnel + Elevators - Potential Alignments

