

# MAGNOLIA TRAILS FEASIBILITY STUDY | SCHEDULE

JUNE

information gathering

JULY

6.25 | neighbor meeting

options exploration

AUGUST

7.28 | public alternatives exploration meeting

Parks internal ProView meeting (date TBD)

alternative refinement

SEPTEMBER

9.22 | alternative refinement public meeting

finalize + publish final document and next steps

OCTOBER

NOVEMBER

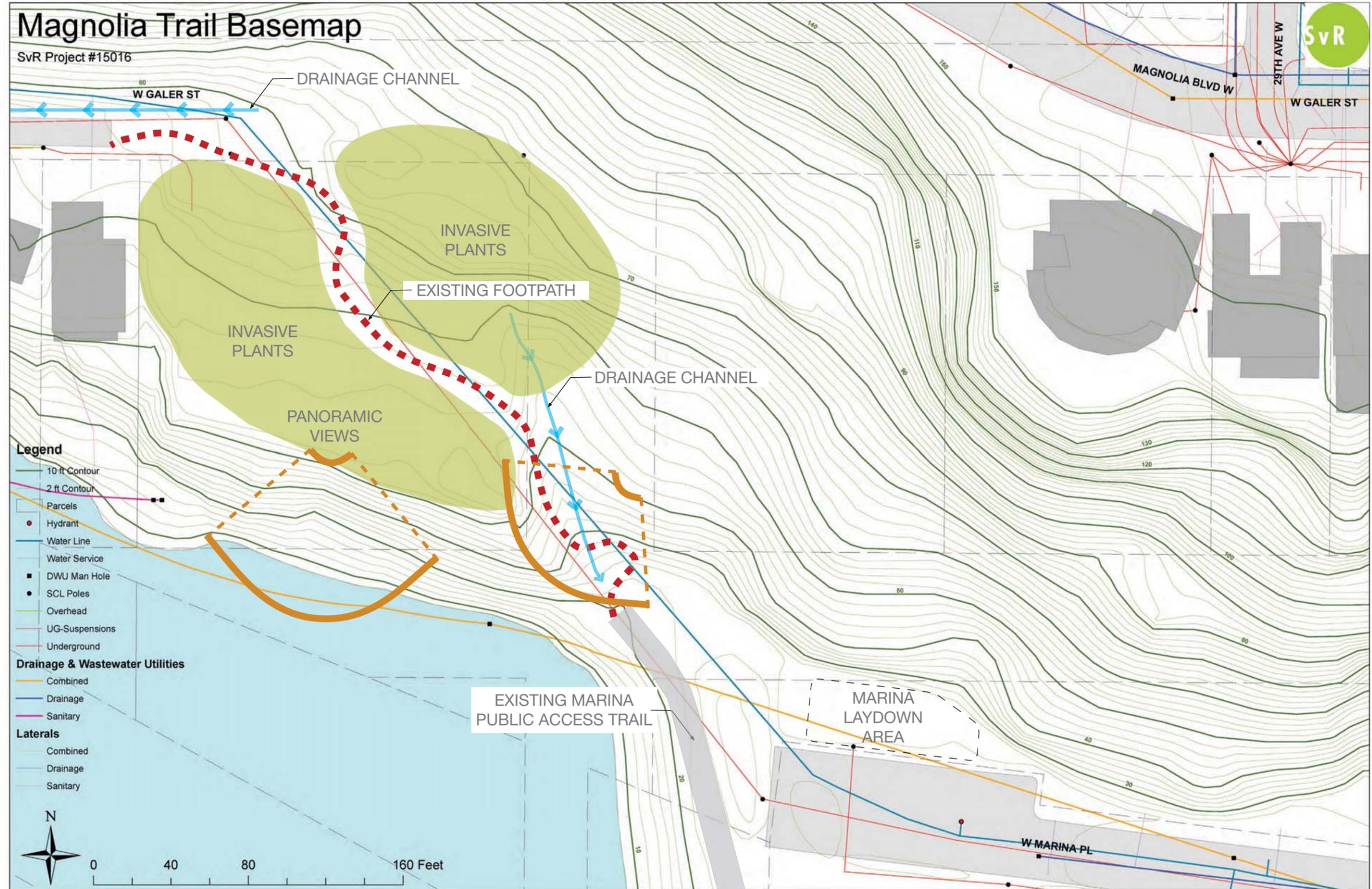
WE ARE HERE

## MAGNOLIA TRAILS FEASIBILITY STUDY | PROJECT GOALS

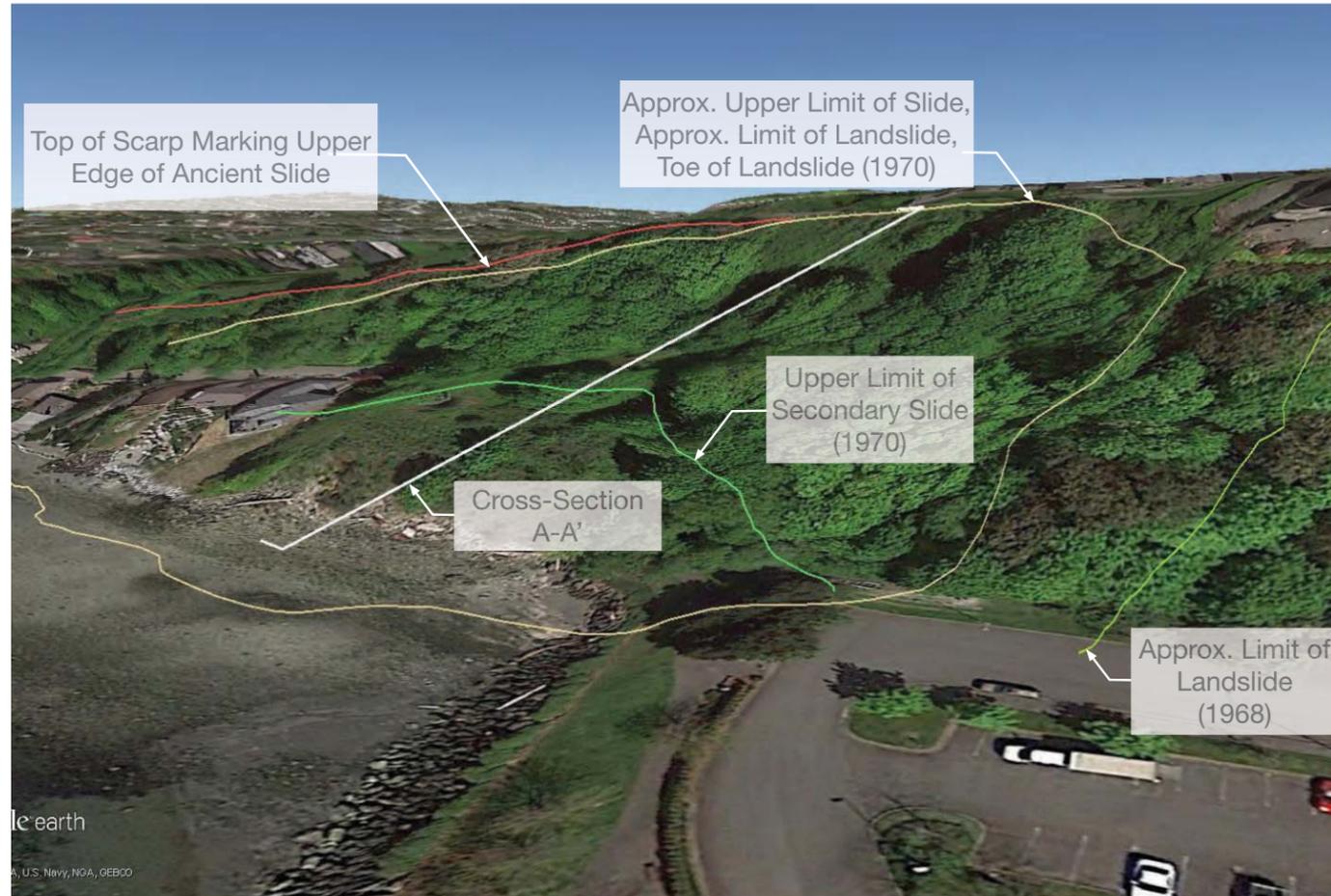
- 1. Understand the technical conditions within the study area.**
- 2. Evaluate the feasibility of building a trail for people on bikes and walking to connect between Upper Magnolia/Magnolia Village and Smith Cove Park/Downtown destinations.**
- 3. Identify permitting pathways, costs and issues needing further study.**
- 4. Provide as many “wins” for as many stakeholders as possible.**



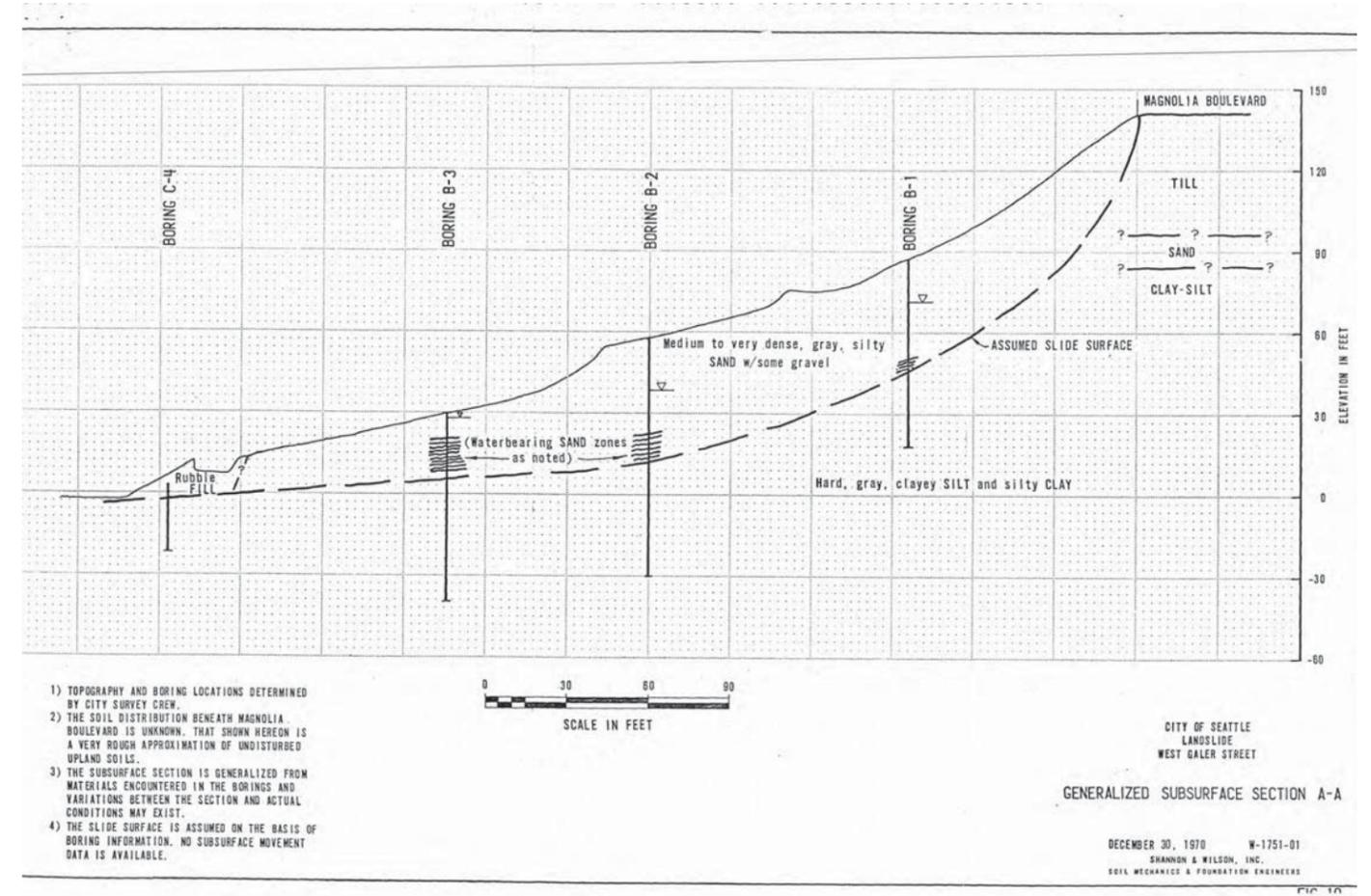
# MAGNOLIA TRAILS FEASIBILITY STUDY | EXISTING SITE ANALYSIS



# MAGNOLIA TRAILS FEASIBILITY STUDY | GEOTECHNICAL ANALYSIS



OBLIQUE IMAGE



CROSS SECTION A-A'

# MAGNOLIA TRAILS FEASIBILITY STUDY | DISCARDED OPTIONS

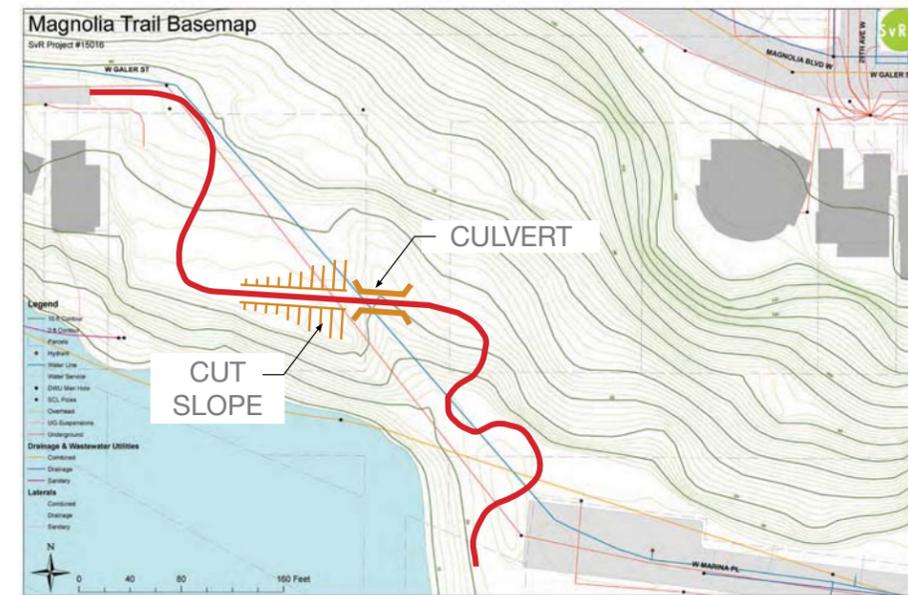
## Connection to Magnolia Park



### Fatal Flaws

- Traverses unstable slopes
- Very steep
- Prohibitively expensive
- Not all ages and abilities

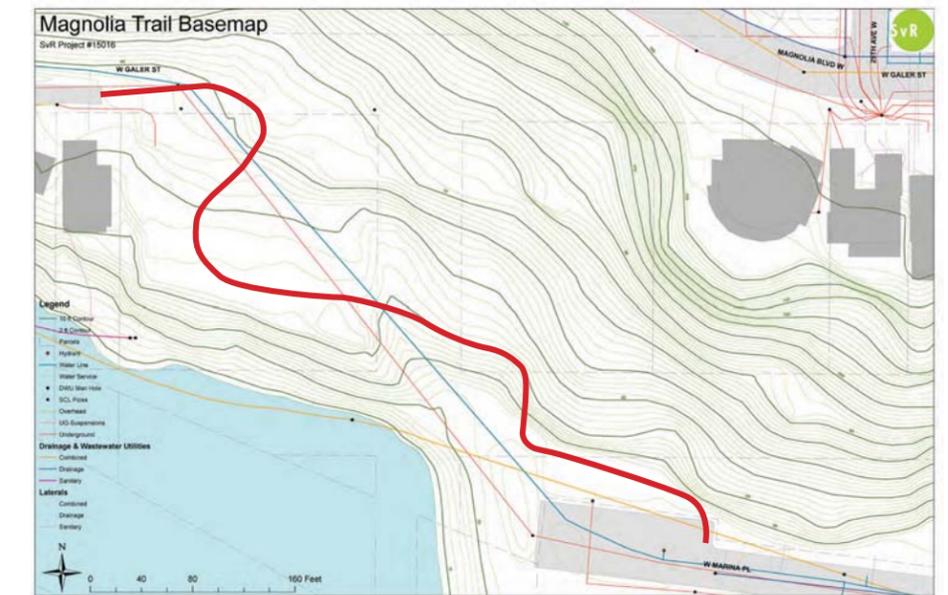
## Cut Into Slope



### Fatal Flaws

- Requires too great of a cut into toe of the slide slope, which may cause long-term instability

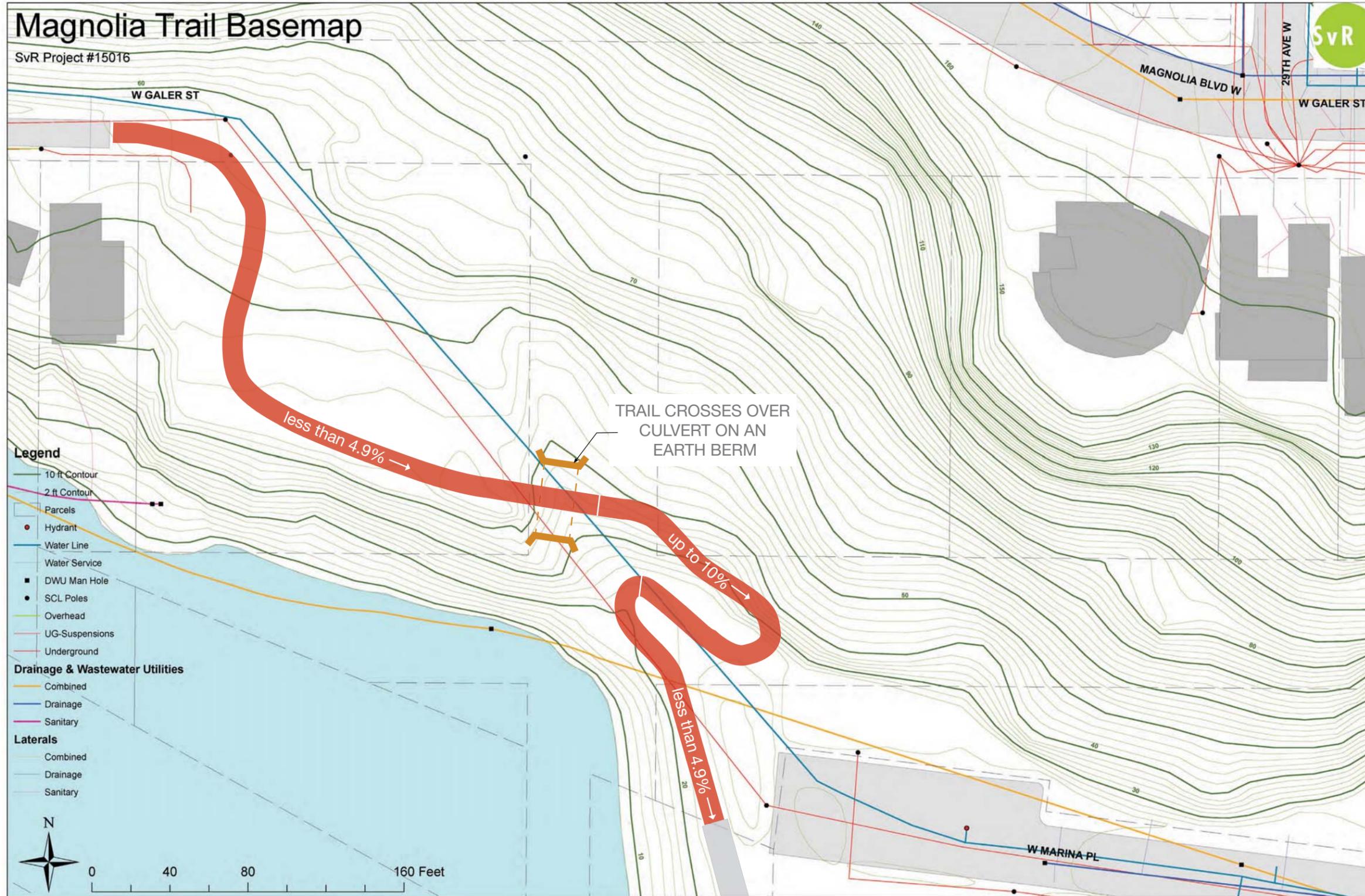
## Parking Lot Start to Trail



### Fatal Flaws

- Traverses marina laydown area

# MAGNOLIA TRAILS FEASIBILITY STUDY | OPTION A



## DESCRIPTION

This option provides a trail that aims for a maximum grade of 4.9% to cross the existing drainage course with a new culvert. One short segment may need to be up to 10% grades. Fill over the existing utility lines will need to be carefully considered.

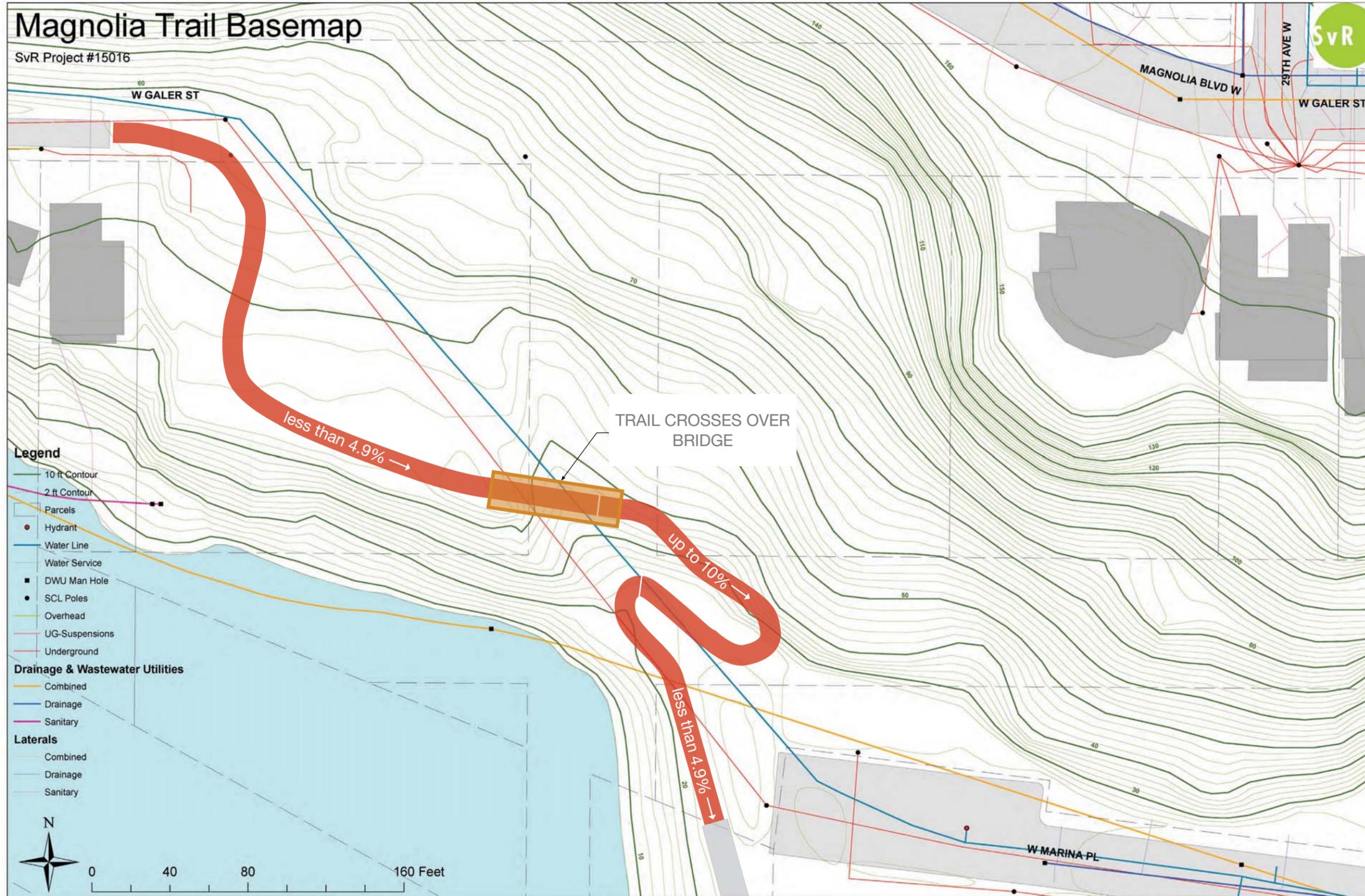
## PROS

- Maximizes extent of accessible grades
- Does not cut into the toe of the slide slope
- Culvert is more cost effective
- Minimizes fill over existing utilities

## CONS

- Culvert may provide a hiding spot
- Underground utilities may need to be reset

# MAGNOLIA TRAILS FEASIBILITY STUDY | OPTION B



## DESCRIPTION

This option provides an accessible trail with a maximum grade of 4.9% to cross the existing drainage course with a new bridge on pin piles.

## PROS

- Maximizes extent of accessible grades
- Does not cut into the toe of the slide slope
- Bridge allows for air & water flows underneath

## CONS

- Bridge may be less resilient during slides
- Underground utilities may need to be reset

# MAGNOLIA TRAILS FEASIBILITY STUDY | OPTION C



## DESCRIPTION

Rather than trying to make the whole trail accessible, this option uses a new set of stairs with a bike runnel to navigate the steep slopes. Other portions of the trail will be accessible with slopes of less than 4.9%.

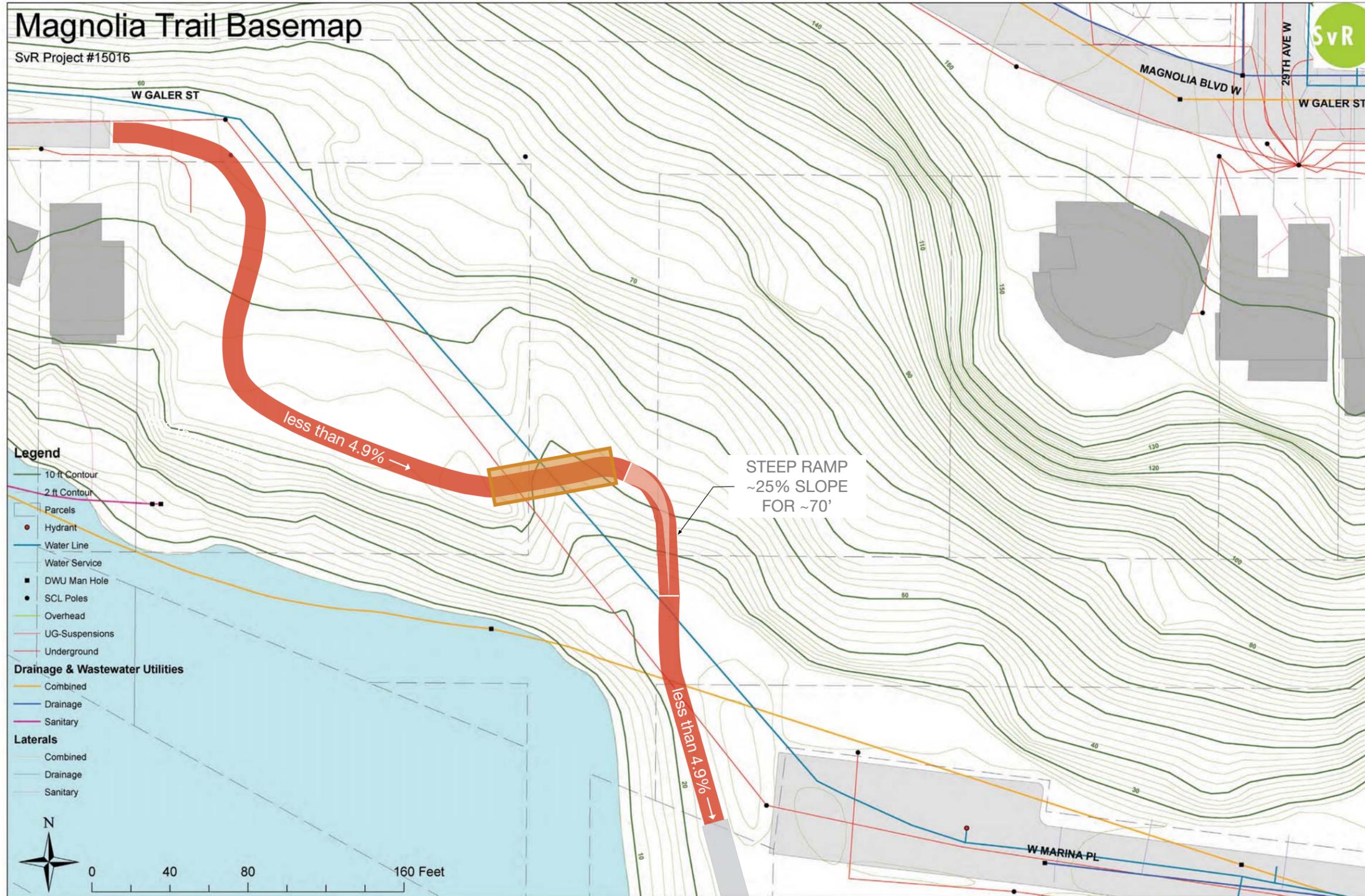
## PROS

- Shorter trail alignment
- Less earth moving
- Culvert is more cost-effective
- Top of steps could offer a wonderful new view of the sound

## CONS

- People on bikes would have to dismount
- Culvert may provide a hiding spot

# MAGNOLIA TRAILS FEASIBILITY STUDY | OPTION D



## DESCRIPTION

Rather than trying to make the whole trail accessible, this option uses a segment of trail with a steep slope. Other portions of the trail will be accessible with slopes of less than 4.9%.

## PROS

- Shorter trail alignment
- Less earth moving
- Bridge allows for air & water flows underneath

## CONS

- Very steep
- Bridge structure will need further analysis

# MAGNOLIA TRAILS FEASIBILITY STUDY | PAVING & ADDITIONAL PROGRAM ELEMENTS

## PAVING TYPES



ASPHALT



GRAVEL



PED/BIKE BRIDGE

## ADDITIONAL POTENTIAL ELEMENTS



FOREST RESTORATION & INVASIVE REMOVAL



LIGHTING



OVERLOOK BENCH