



Valley Water

Clean Water • Healthy Environment • Flood Protection



Coyote Creek Flood Protection Project

Conceptual/Feasible Project Alternatives

*November 13th, 2019 Public Meeting
Roosevelt Community Center
901 East Santa Clara Street, San José*

June 2019 Meeting Review

1. Defined project limits & setting

2. Flooding history & project timeline

3. Early conceptual alternatives

4. Obtained input from public

Agenda Today

1. Public input from past meeting

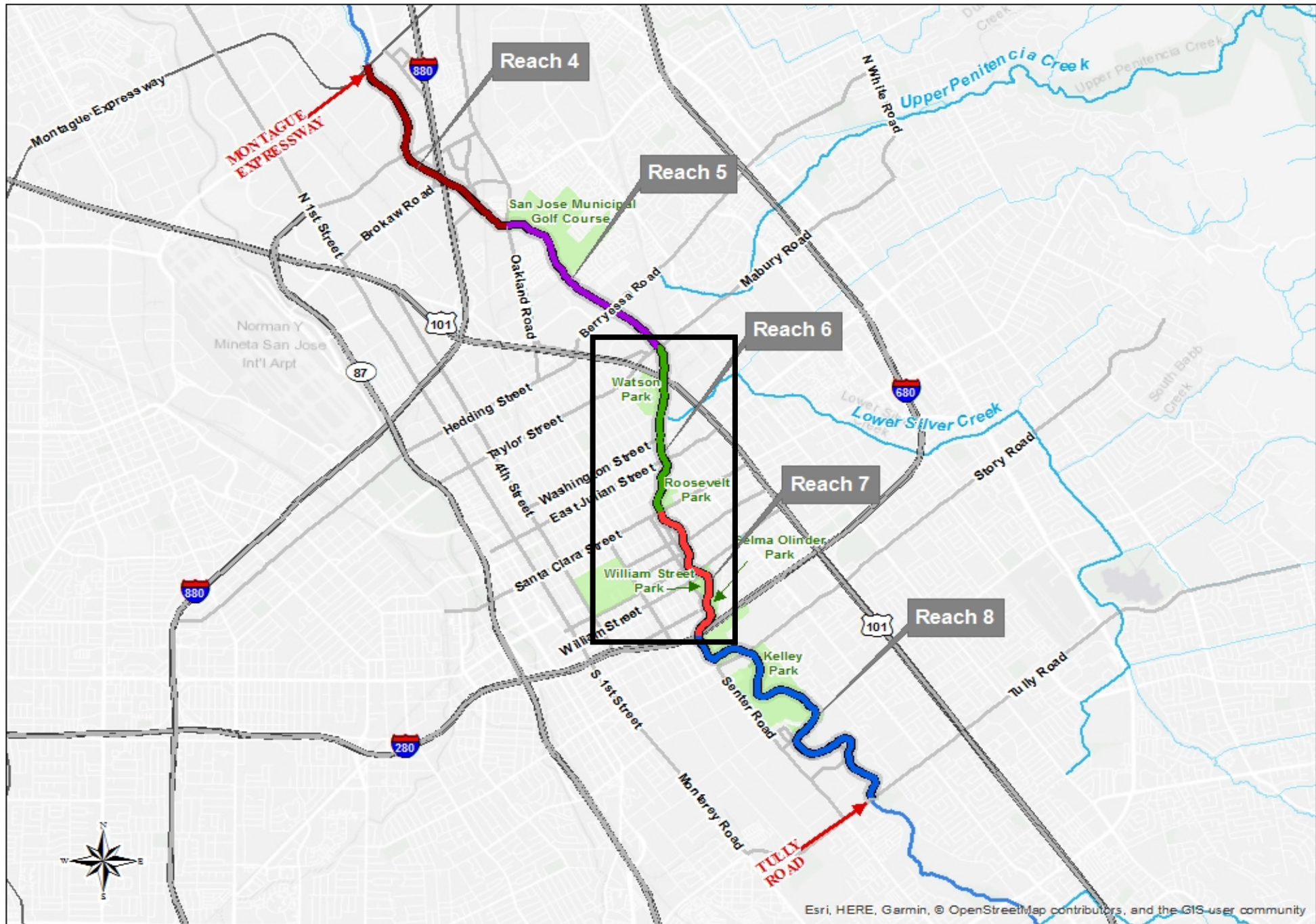
2. Define criteria for feasible alternatives

3. Feasible Alternatives

4. Emergency Preparedness

5. Anderson Dam Project Update

6. Table discussions

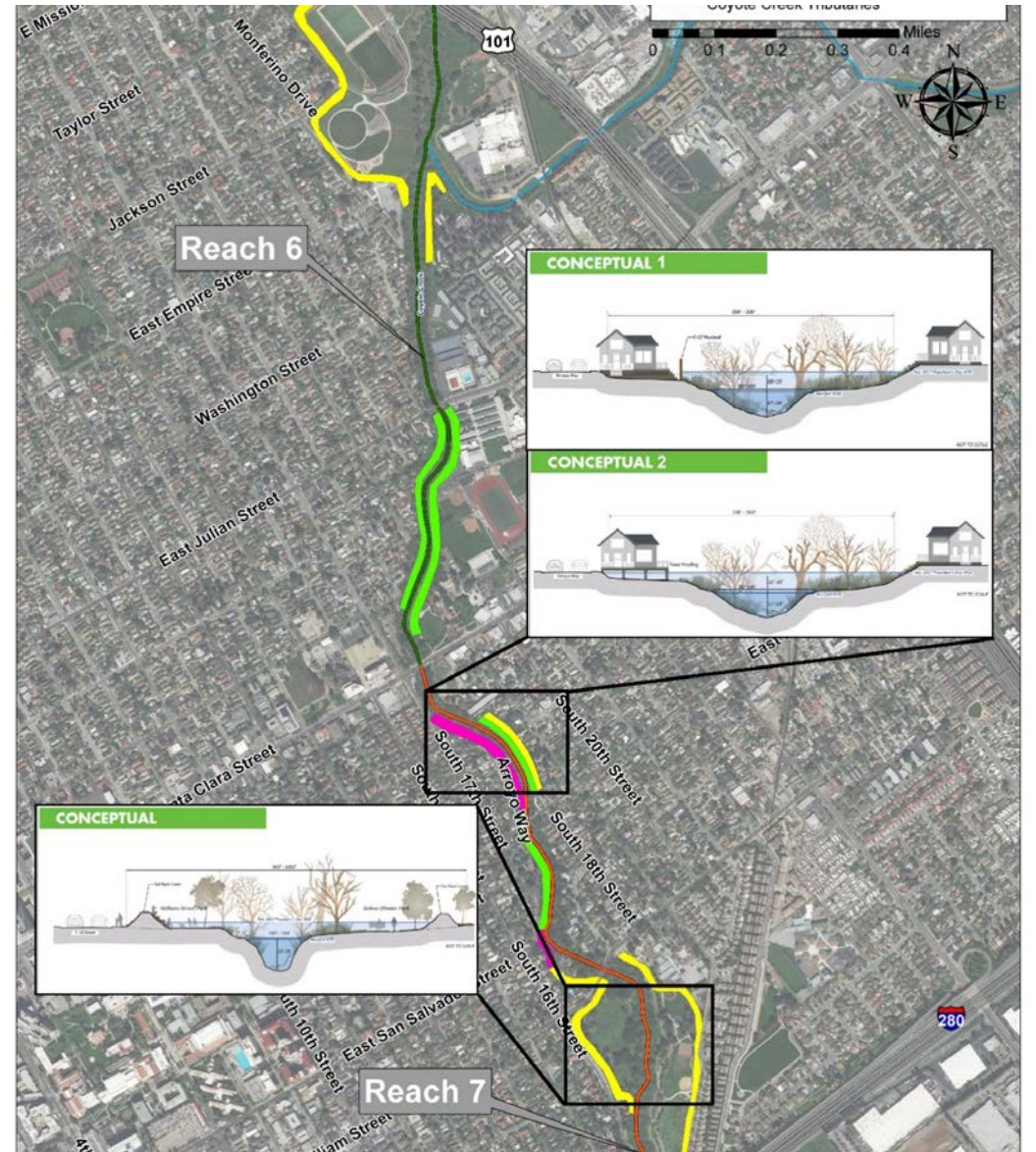
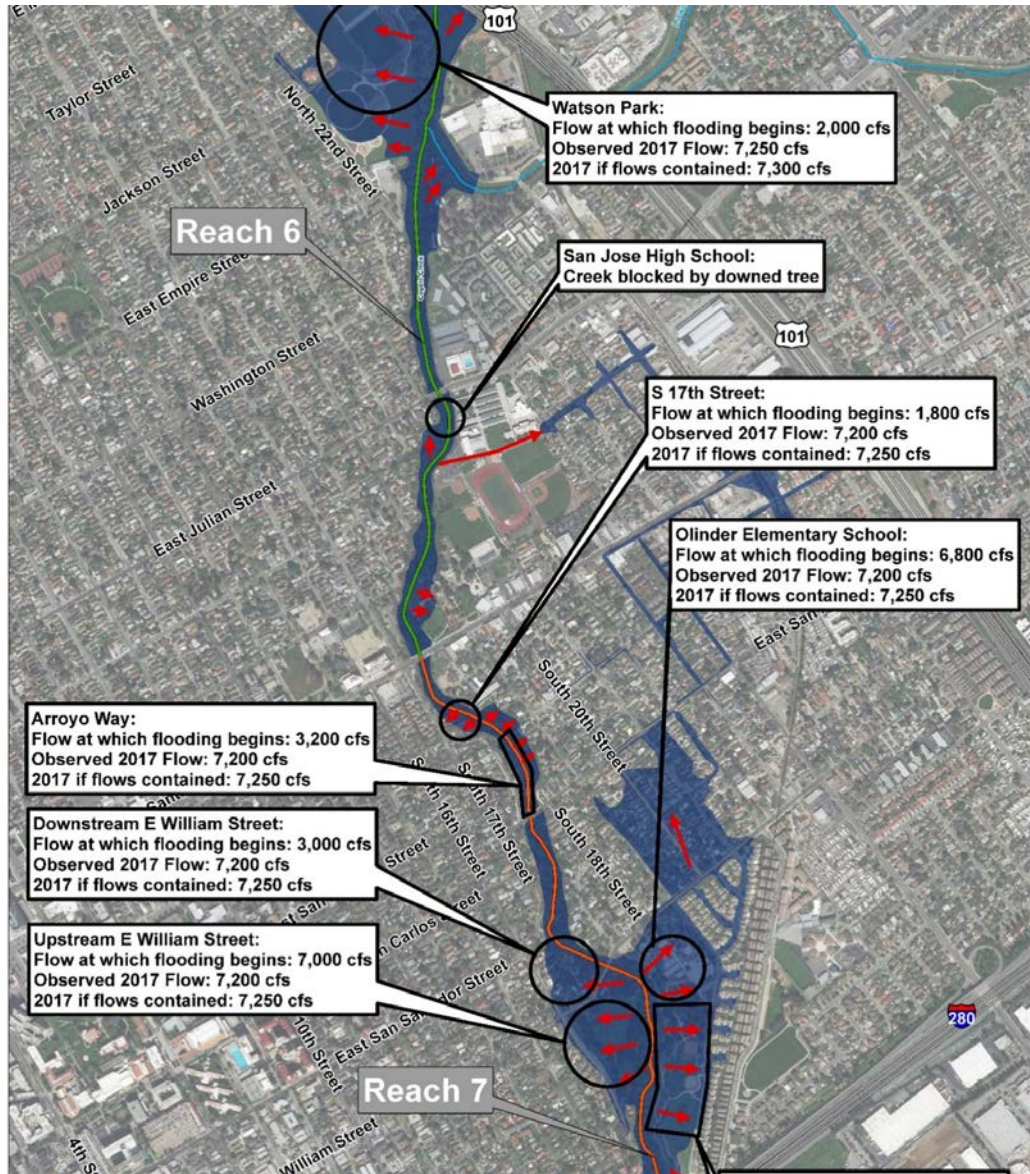


June 3rd, 2019 Public Input

87 comments

Subject	Quantity
Anderson Dam	19
Flooding dynamics/Problem Definition	5
Interagency coordination & collaboration	9
Project Goals	17
Conceptual Alternatives	30
Other	7
Total	87







What is Valley Water doing to ensure the joint collaboration of Valley Water and City of San José staff and let residents know government is working for you



Most of the people in the affected areas do not want berms, walls or floodproofing



Unclear in some areas how concepts would help protect anything, especially houses that did not flood near William Street



Support berms since they are a better option than walls but some residents are concerned about losing park space



Rather than raising houses, buy homes to recreate the floodplain north of Selma Olinder/William Street Park



We understand that many communities are now raising homes above the 100-year flood level. There is probably no point in stopping at the 20 year flood level once such project begins



Flood risk reduction is important but we do not want a big impact on our neighborhood with the proposed alternatives



Getting property owners to legally maintain their own property, if this is not possible, get Valley Water and City of San José to step in



On 17th Street and San Antonio Street, absolutely no public access since we would like to deter the homeless from living there



Instead of permanent floodwalls, what about temporary floodwalls?



External Coordination

- **Berryessa Bart Urban Village Project:**
<http://sanjoseca.gov/berryessabarturbanvillage>
- **Coyote Creek Trail Master Plan:**
<http://www.sanjoseca.gov/?nid=2821>
- **BART Silicon Valley (Valley Transportation Authority):**
<https://www.sanjoseca.gov/index.aspx?NID=6060>





In future presentations, please articulate feasibility factors as I am left wondering what those are

Conceptual into Feasible Alternatives, What does it mean?

- **Conceptual Alternatives:** broad, simple and high-level options of flood mitigation strategies proposed in a certain area
- **Feasible Alternatives:** available and reasonable options which are screened during the conceptual alternative stage against a set criteria



CRITERIA TO MOVE TO FEASIBLE ALTERNATIVES





Houses on 16th Street did not flood, this is where the team is proposing the berm

Critical Facilities

A facility for which even a slight chance of flooding poses too great a threat.



Image by Jim Gensheimer
Bay Area News Group



Police stations, fire stations, vehicle and equipment storage facilities and emergency operation centers



Streets and roads considered critical for fire prevention, evacuation and rescue operations



Hospital, nursing homes and housing likely to have occupants who may not be sufficiently mobile



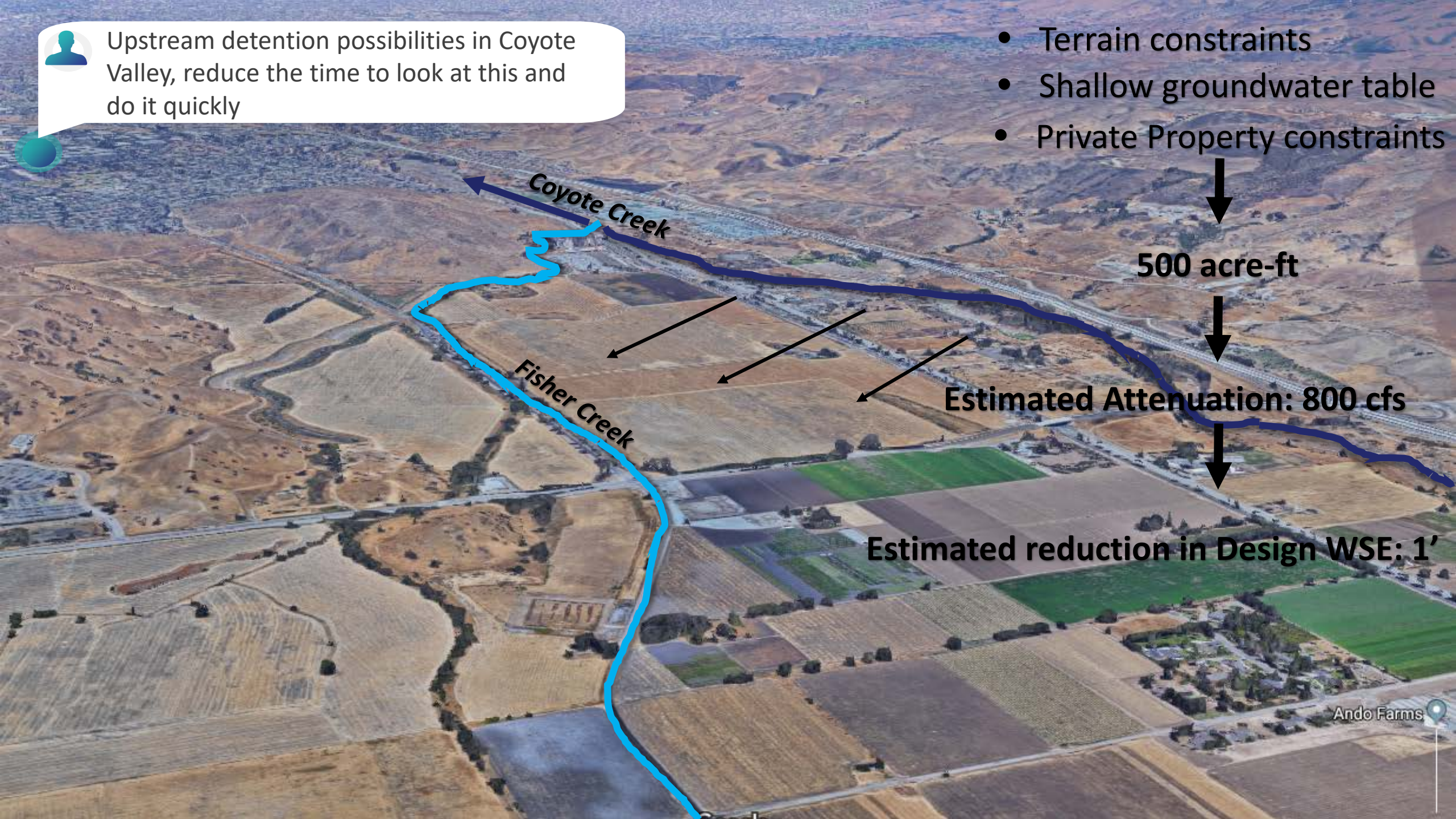
Public and private utility facilities vital to maintaining or restoring normal services to flooded areas

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Upstream detention possibilities in Coyote Valley, reduce the time to look at this and do it quickly

- Terrain constraints
- Shallow groundwater table
- Private Property constraints



Coyote Creek

Fisher Creek

500 acre-ft

Estimated Attenuation: 800 cfs

Estimated reduction in Design WSE: 1'

Reach 6 - Watson Park



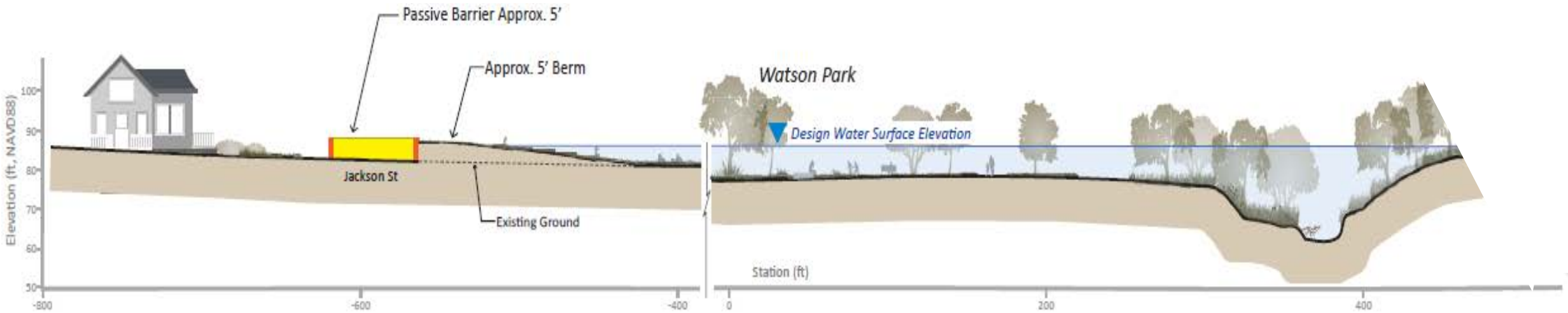
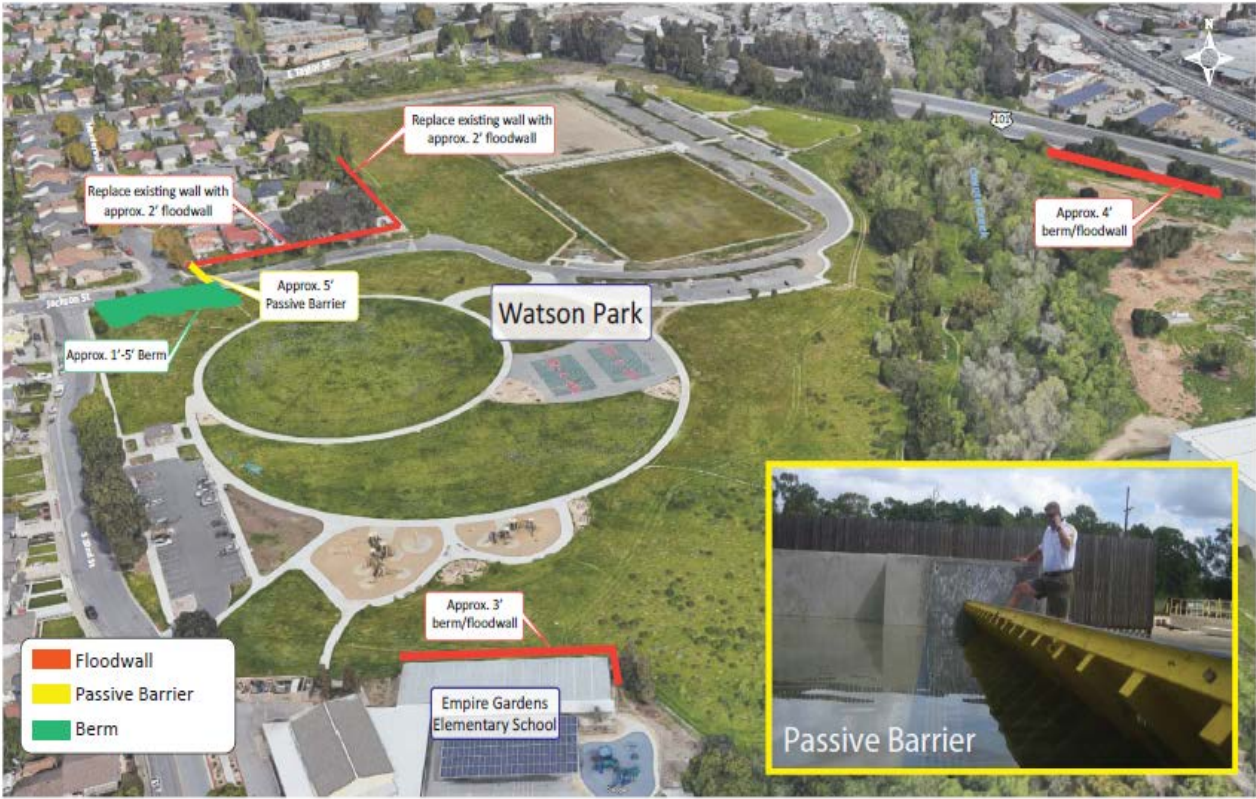
CONCEPTUAL



FEASIBLE

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Passive Flood Barriers

How do they work?

Rising floodwater creates hydrostatic pressure to lift the barrier. No manpower required.

Videos

<https://www.youtube.com/watch?v=NuDshmb4fmA&t=40s>

<https://drive.google.com/open?id=1WMpKjVzOuLm6rTuJ8LkDtZyoHRMT5V4r>

<https://www.dropbox.com/s/jahaa4gdkdhotav/My%20Movie.mp4?dl=0>



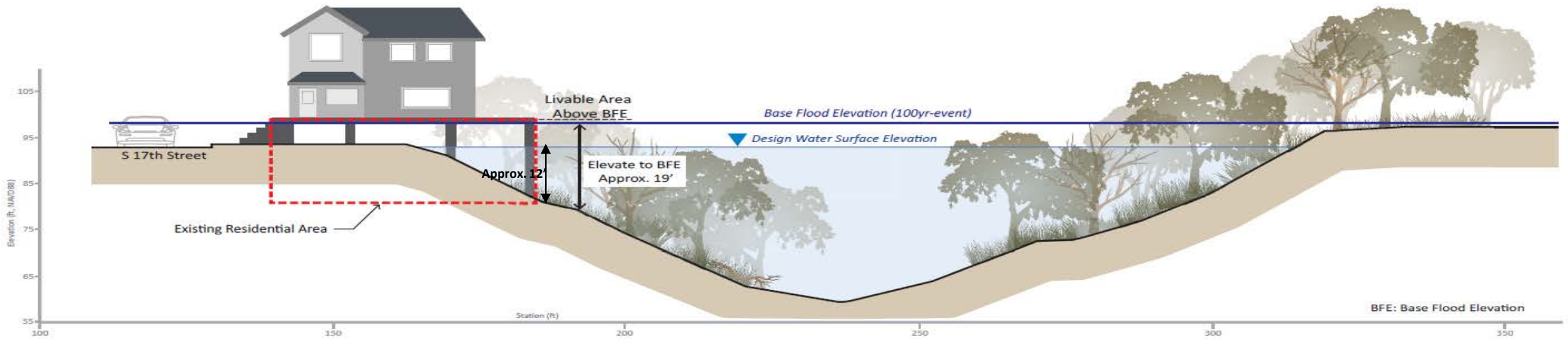
Reach 7 - E. Santa Clara St. to E. San Antonio St.



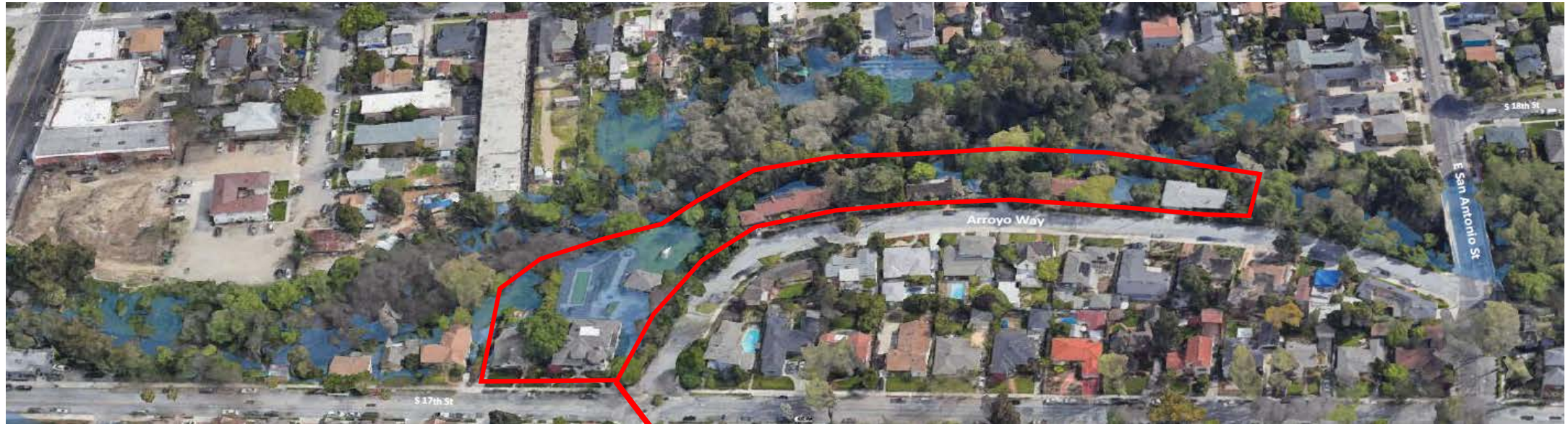
OPTION A – ELEVATE TO BASE FLOOD ELEVATION (BFE)

48 S. 17th Street
50 S. 17th Street
70 S. 17th Street

OPTION B – VOLUNTARY ACQUISITION

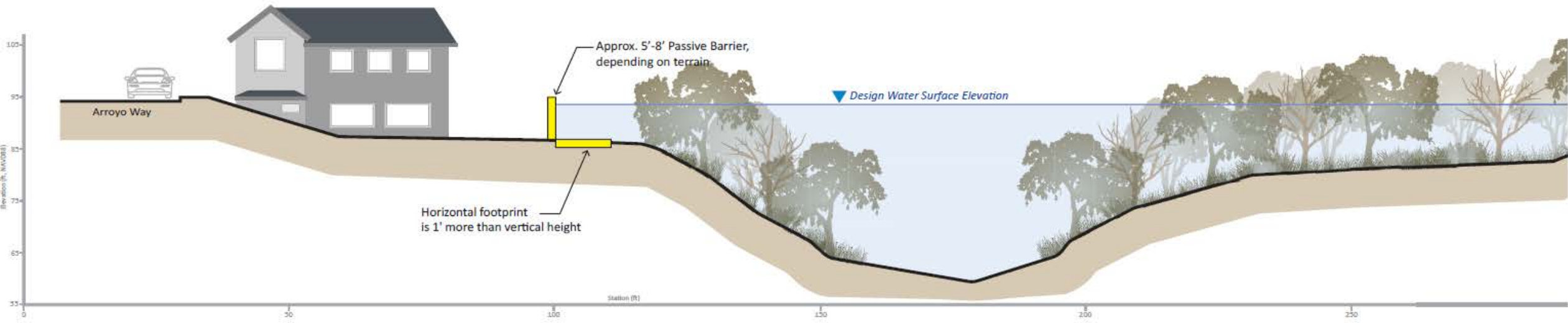


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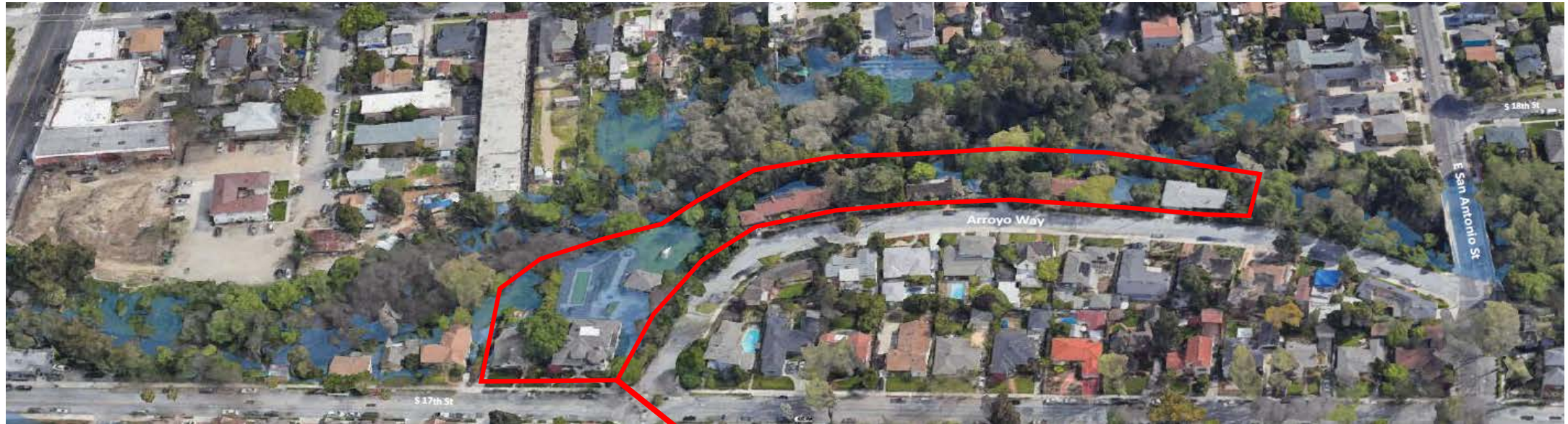


OPTION A – INSTALL PASSIVE BARRIER

82 S. 17th Street
96 S. 17th Street
All homes on east side of Arroyo Way



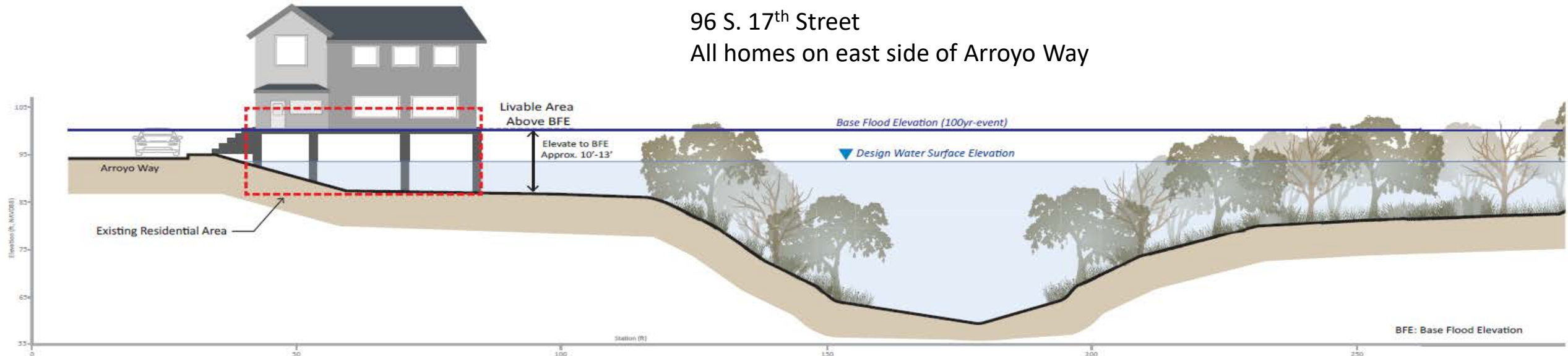
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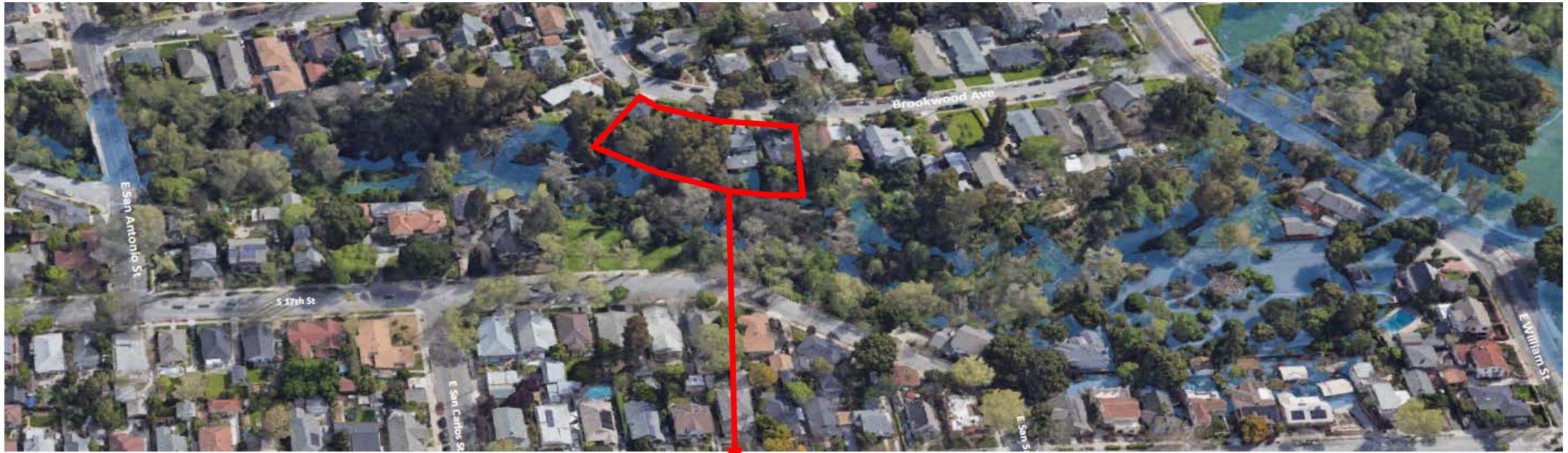
OPTION B – ELEVATE TO BASE FLOOD ELEVATION (BFE)

OPTION C – VOLUNTARY ACQUISITION

82 S. 17th Street
96 S. 17th Street
All homes on east side of Arroyo Way

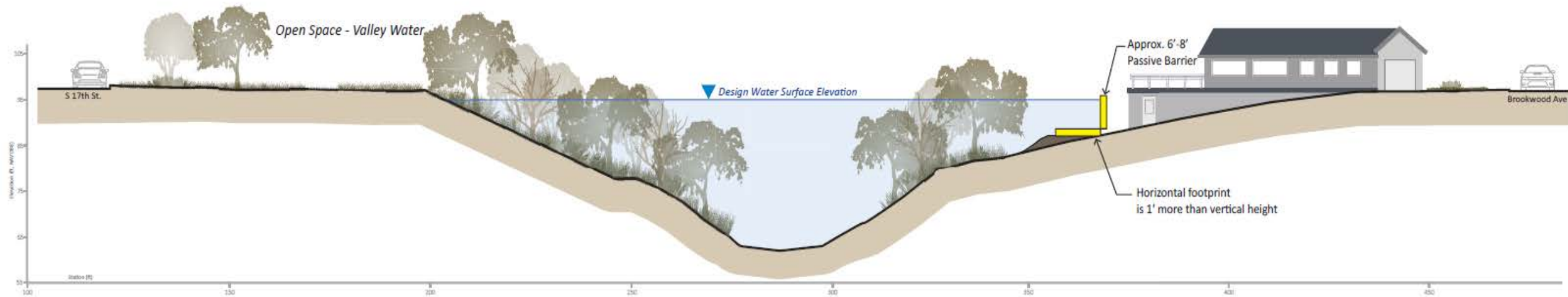


Reach 7 - E. San Antonio St. to E. William St.

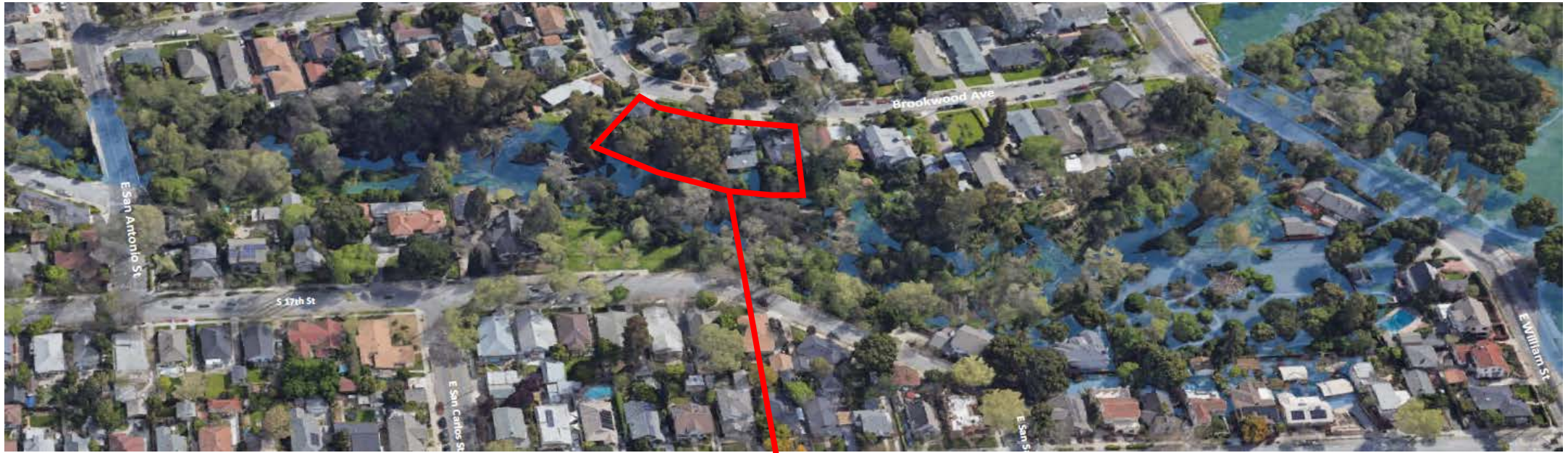


OPTION A – INSTALL PASSIVE BARRIER

311 Brookwood Avenue
315 Brookwood Avenue
321 Brookwood Avenue



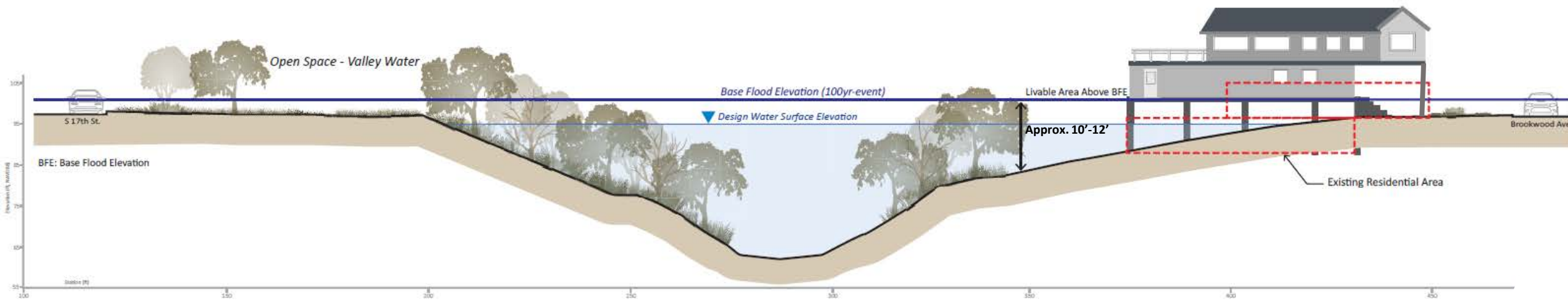
Reach 7 - E. San Antonio St. to E. William St.



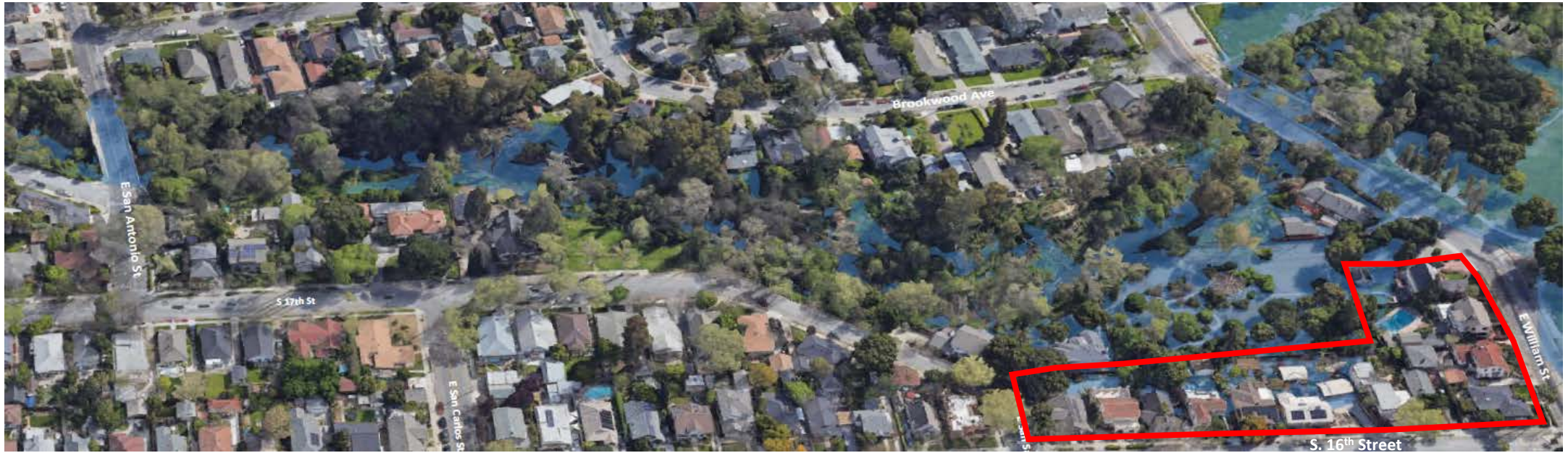
OPTION B – ELEVATE PROPERTY TO BASE FLOOD ELEVATION (BFE)

311 Brookwood Avenue
315 Brookwood Avenue
321 Brookwood Avenue

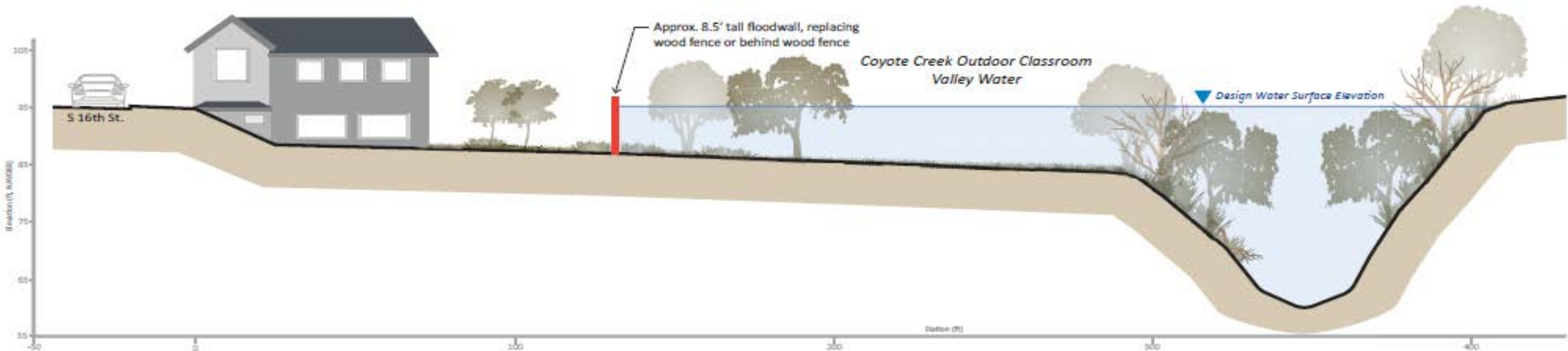
OPTION C – VOLUNTARY ACQUISITION



Reach 7 - E. San Antonio St. to E. William St.



OPTION A – REPLACE WOODEN FENCE WITH FLOODWALL/INSTALL FLOODWALL



Reach 7 - E. San Antonio St. to E. William St.



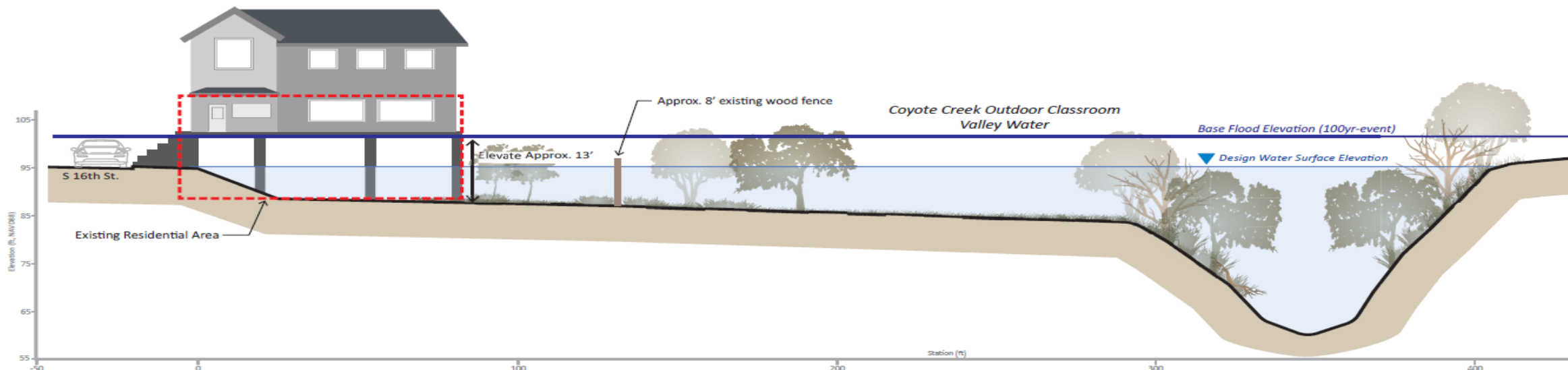
OPTION A – REPLACE WOODEN FENCE WITH FLOODWALL/INSTALL FLOODWALL

Reach 7 - E. San Antonio St. to E. William St.



OPTION B – ELEVATE PROPERTY TO BASE FLOOD ELEVATION (BFE)

OPTION C – VOLUNTARY ACQUISITION



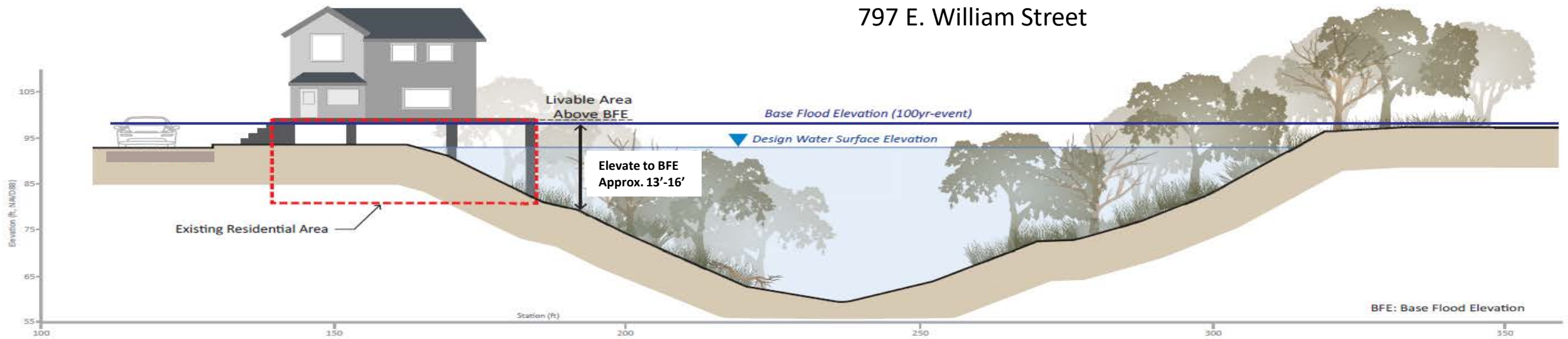
Reach 7 - E. San Antonio St. to E. William St.



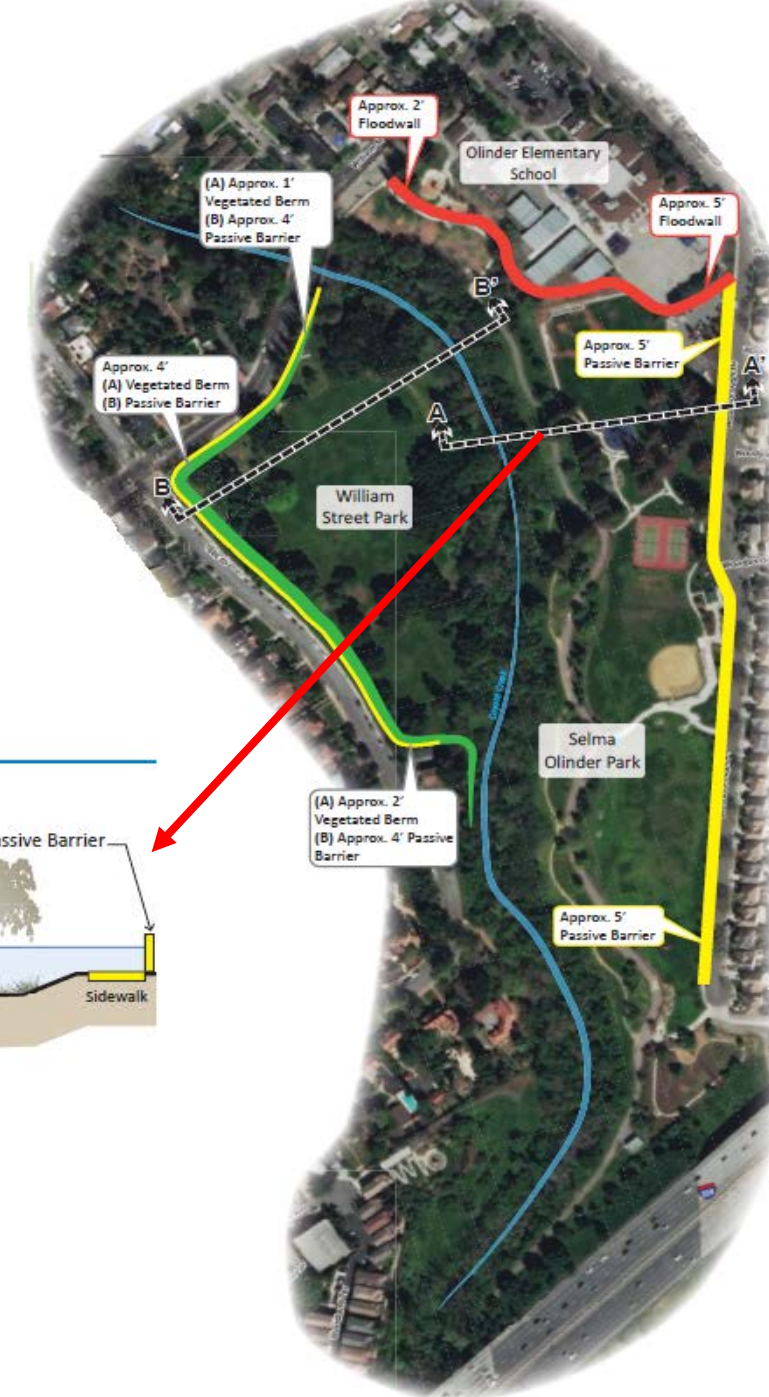
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OPTION B – VOLUNTARY ACQUISITION

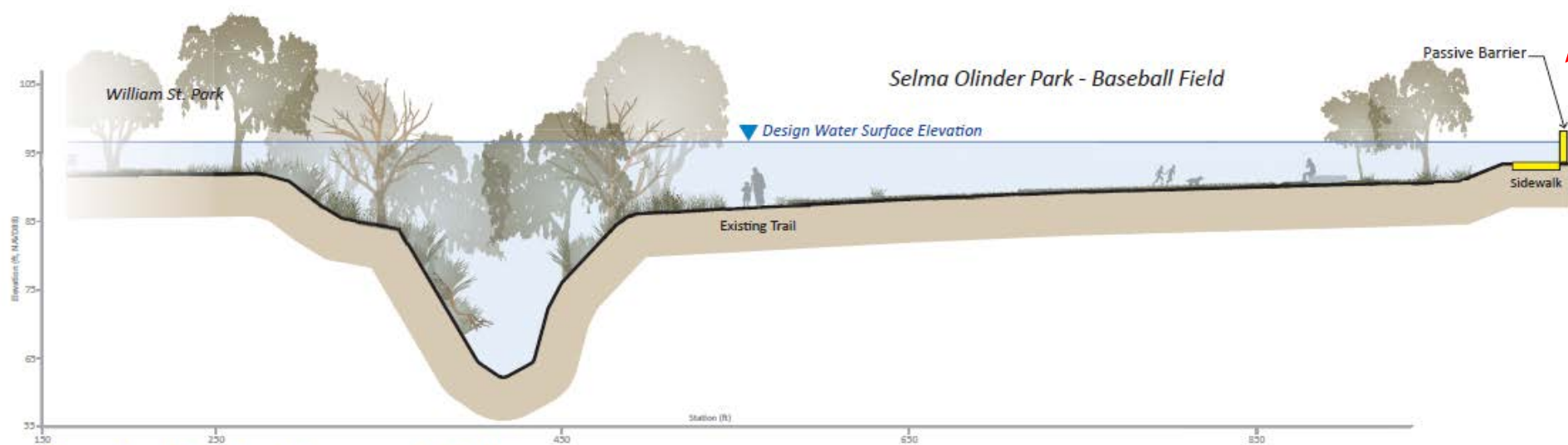
398 S. 17th Street
797 E. William Street



Reach 7 - William Street Park & Selma Olinder Park

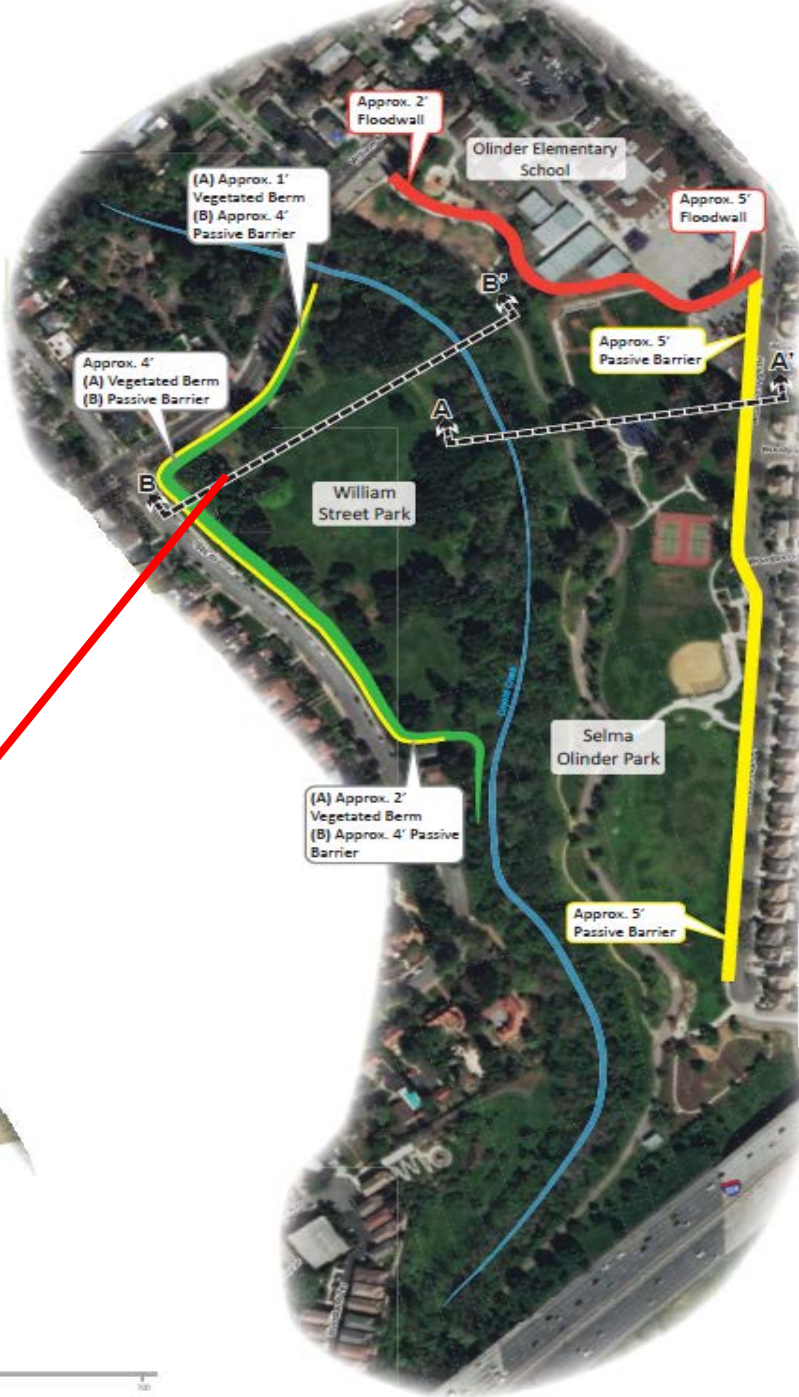


Cross Section A - A'

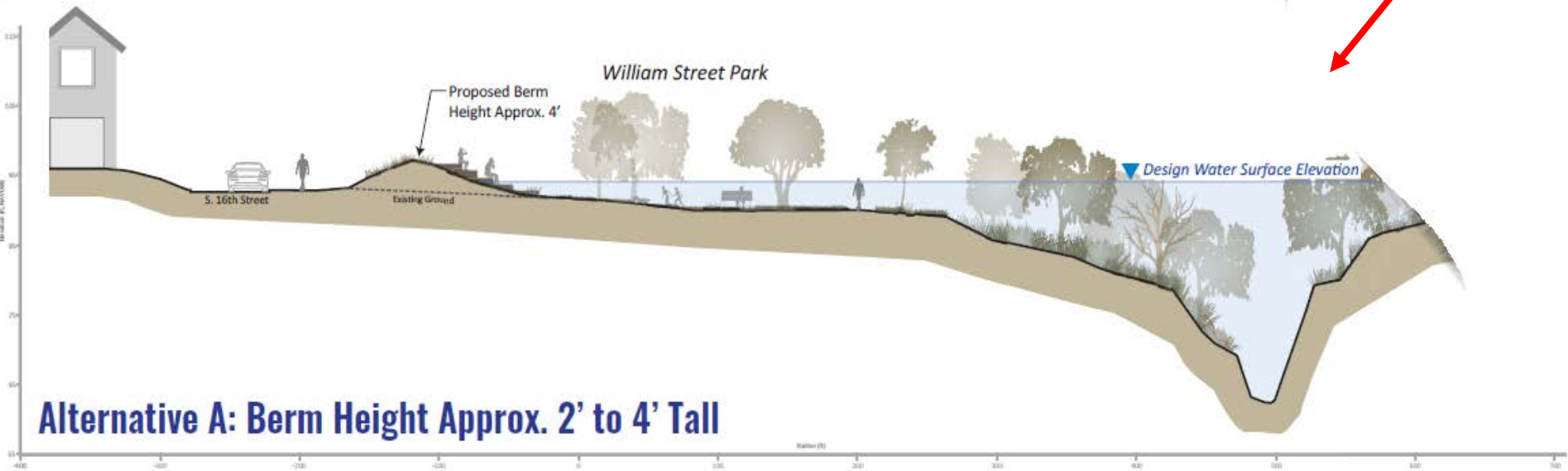


Passive Barrier Approx. 5' Tall

Reach 7 - William Street Park & Selma Olinder Park



Cross Section B - B'



Alternative A: Berm Height Approx. 2' to 4' Tall

Reach 7 - William Street Park & Selma Olinder Park



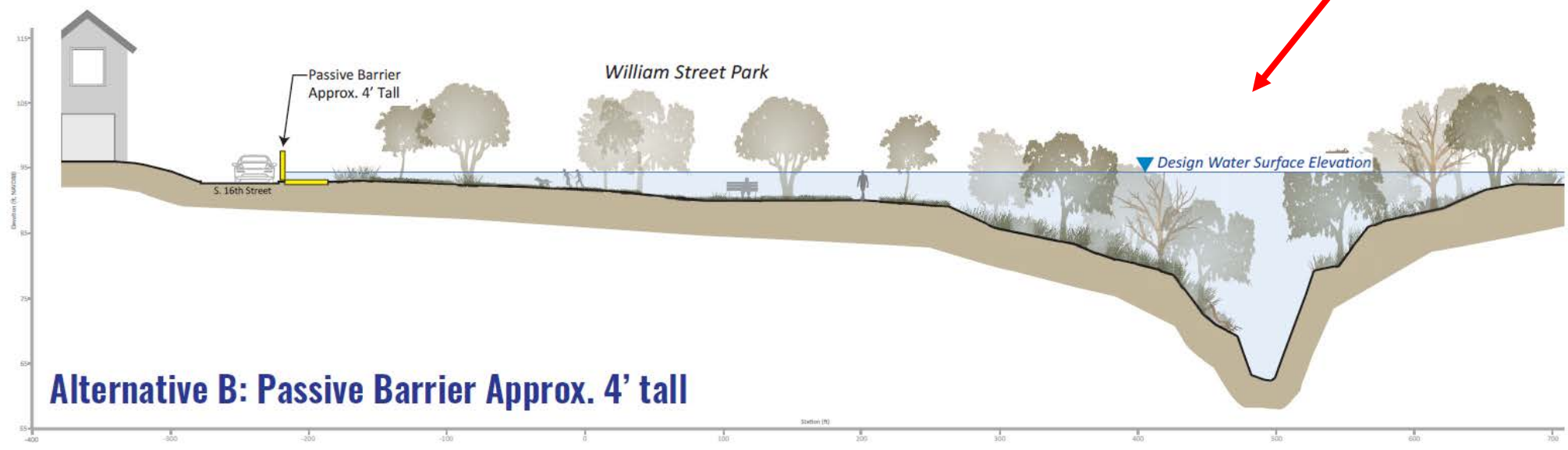
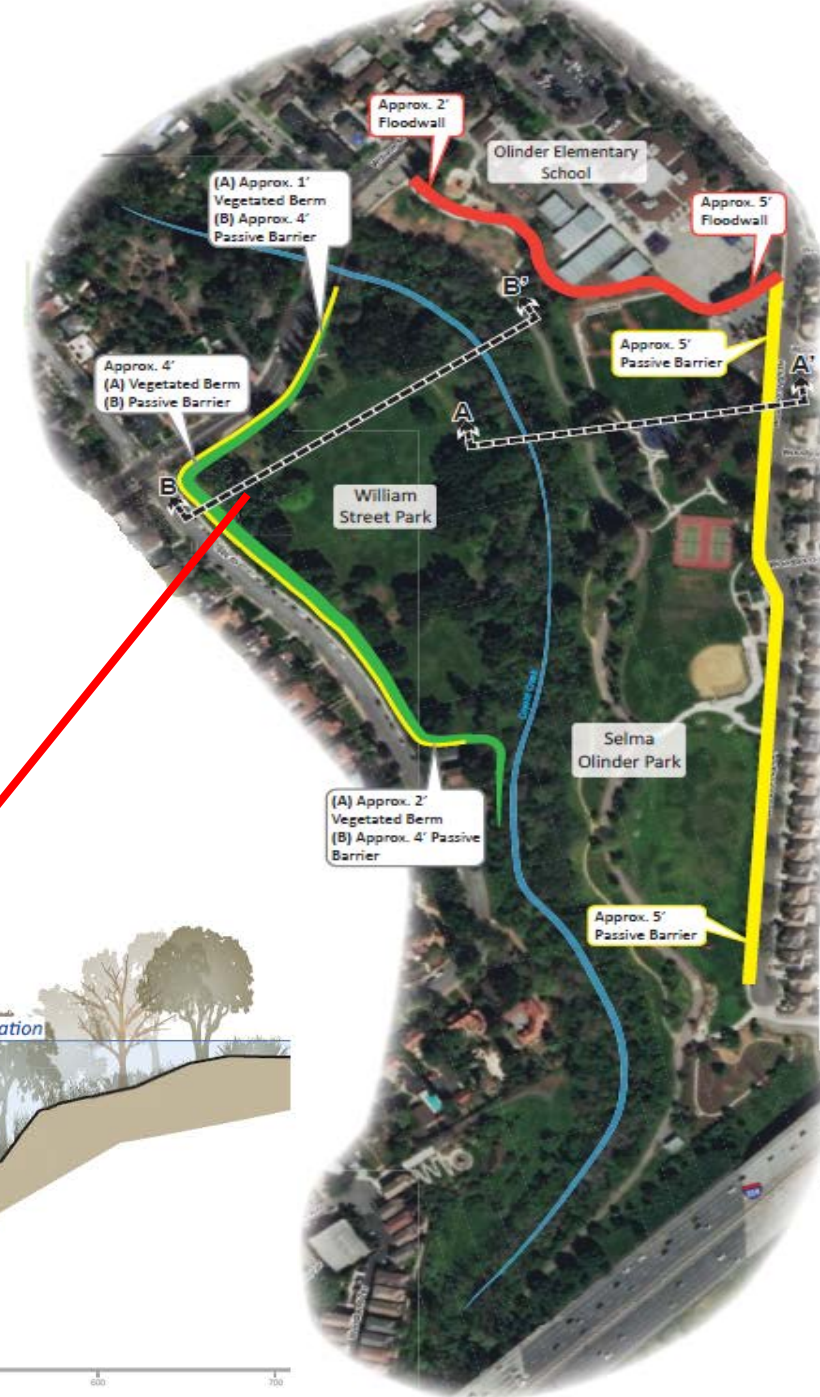
Reach 7 - William Street Park & Selma Olinder Park



Reach 7 - William Street Park & Selma Olinder Park



Reach 7 - William Street Park & Selma Olinder Park





If a flood event happens next year, what is Valley Water doing in terms of developing an early warning and notification system prior to a flood event?

➔ Joint Emergency Action Plan

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- November 3rd, 2017, Valley Water Board of Directors and San José City Council approved a Joint Emergency Action Plan for Severe Storm and Flood Response
- Outlines how the City and Valley Water manage, prepare for and communicate about flooding issues on Coyote Creek as well as other waterways
- Establishes roles and responsibilities, who does what?

<https://www.valleywater.org/news-events/news-releases/district-and-city-approve-emergency-action-plan>

01.

Improves how we measure water levels in Coyote Creek

gis.valleywater.org/SCVWDF
loodWatch

02.

Communicates every stage of a potential flood using clear triggers for various actions

03.

Improves communication with the community using better tools and improved procedures

Preparedness	No storms are forecasted within the next 72 hours. Stream depths are below 50% of flood stage. Reservoirs are not spilling.
Flood Monitoring	Storms are forecasted. Stream depths are at 50% to 70% of flood stage. This condition is fluctuating and requires monitoring and being alert for potential flooding and possible evacuation notification.
Flood Watch	Storms have occurred. Stream depths may reach flood stage in 24 to 72 hours. Prepare for possible evacuation notice.
Flood Warning	Flooding is imminent, generally within 24 hours or is occurring.

Get Flood Ready

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valleywater.org/floodready

Flood Protection Resources



Is your home in a flood zone?



Sign up for emergency alerts



Flood insurance



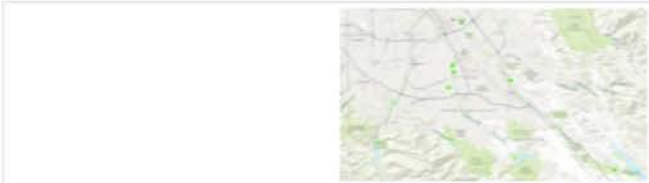
Flood safety advice: Before, During, After



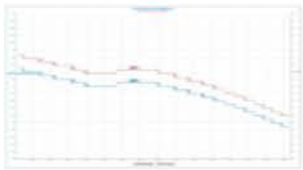
Sandbag distribution sites



Report creek blockages and local street flooding



SCVWD Map-Based Flood Watch Tool (Maps best viewed in Chrome, Firefox, Safari or IE 11)



Monitor Stream, Reservoir, Rainfall Levels with the ALERT gauge system

Next Steps

Problem Definition Report: Nov 2017 – Jan 2019 (Draft Completed)

Conceptual and Feasible Alternatives: Sep 2018 - Sep 2019

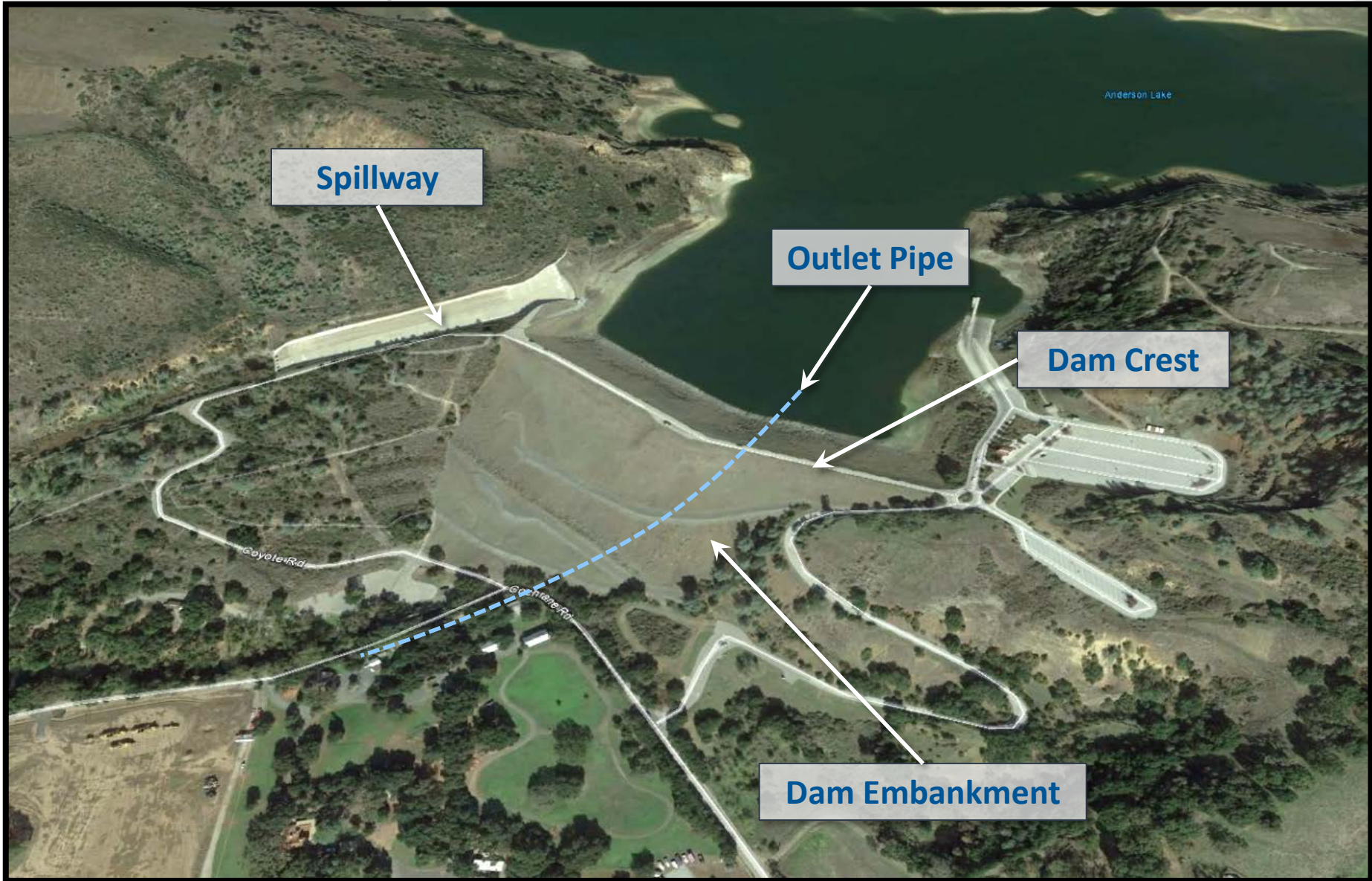
→ **Planning Study Report: July 2019 – Jan 2020**

Design, CEQA and Permitting: Jan 2020 – Dec 2021

Construction: Jan 2022 – Dec 2024

Anderson Dam Existing Components

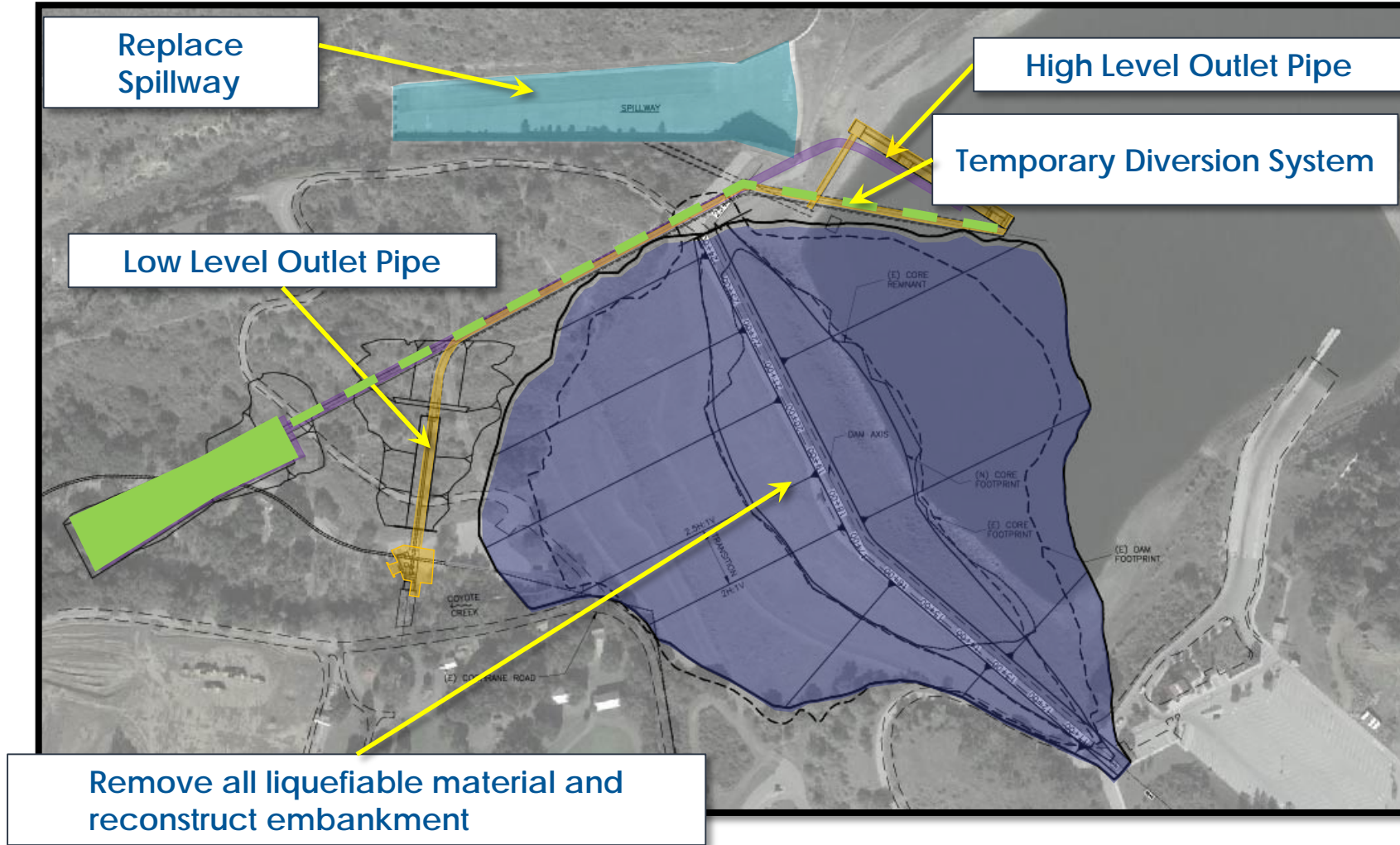
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Anderson Dam Project Components

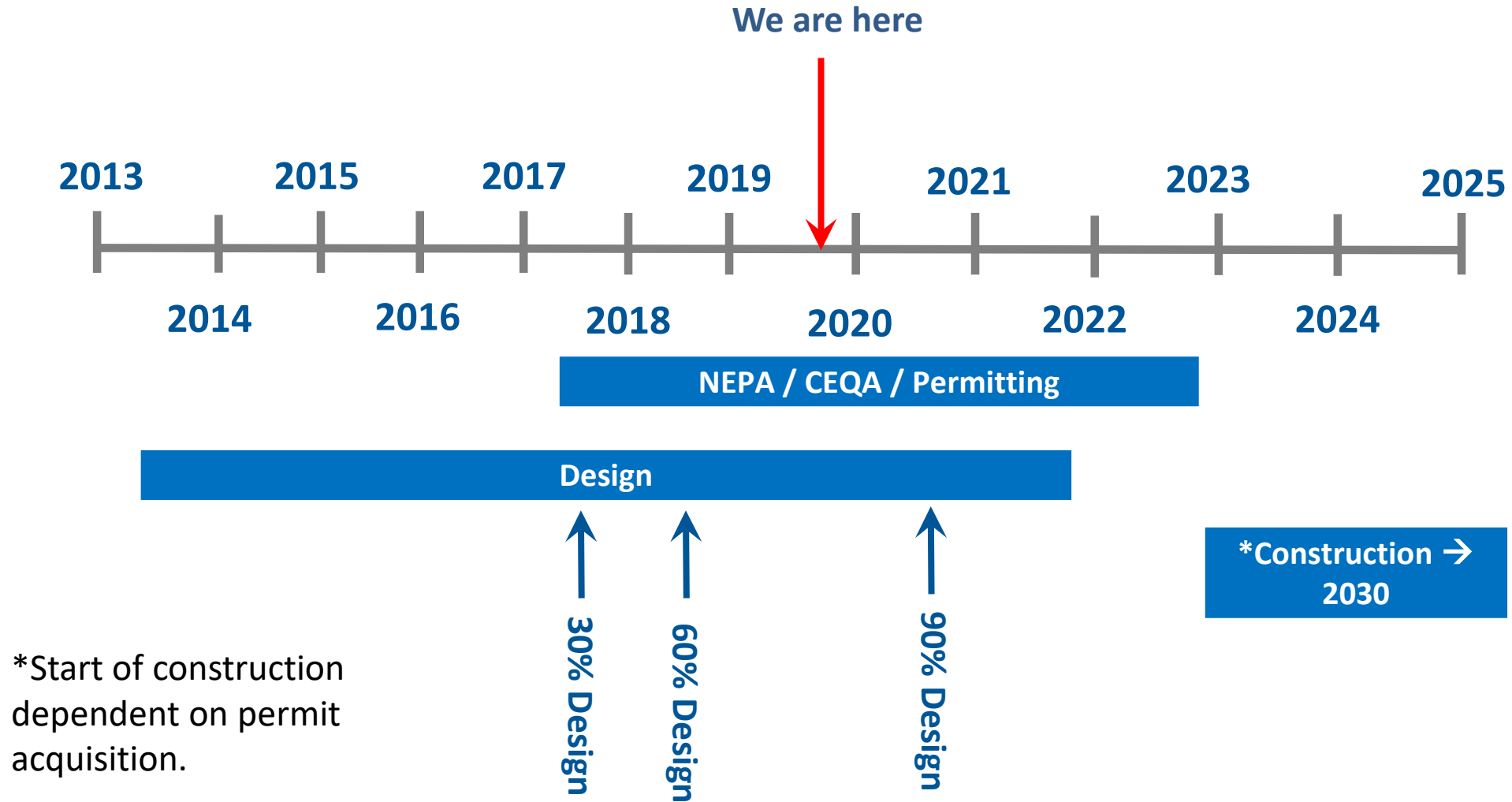
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Project Schedule

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*Start of construction dependent on permit acquisition.

For more information

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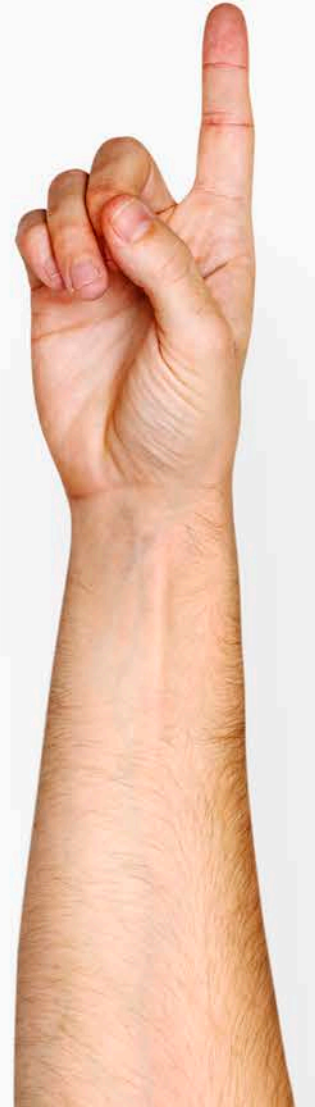
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QUESTIONS





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