



Valley Water

Clean Water • Healthy Environment • Flood Protection



Coyote Creek Flood Protection Project

Preferred Project Alternative

June 10th, 2020 Virtual Public Meeting



Where are we?

Phases	Components	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
Planning	Problem Definition		■			<p>We are here!</p>						
	Conceptual Alternatives			■								
	Feasible Alternatives				■							
	Preferred Project Alternative				■							
Design and Permitting	FERC Order Compliance Project				■							
	Post FERC Order Compliance Project					■						
Construction	FERC Order Compliance Project						■					
	Post FERC Order Compliance Project								■			

Agenda Today

1. Overview of Past Meetings

2. Defining Feasible Alternatives

3. Natural Flood Protection Process

4. Preferred Project Alternative

5. Phasing of Project Elements

6. Project Timeline

7. Next Steps

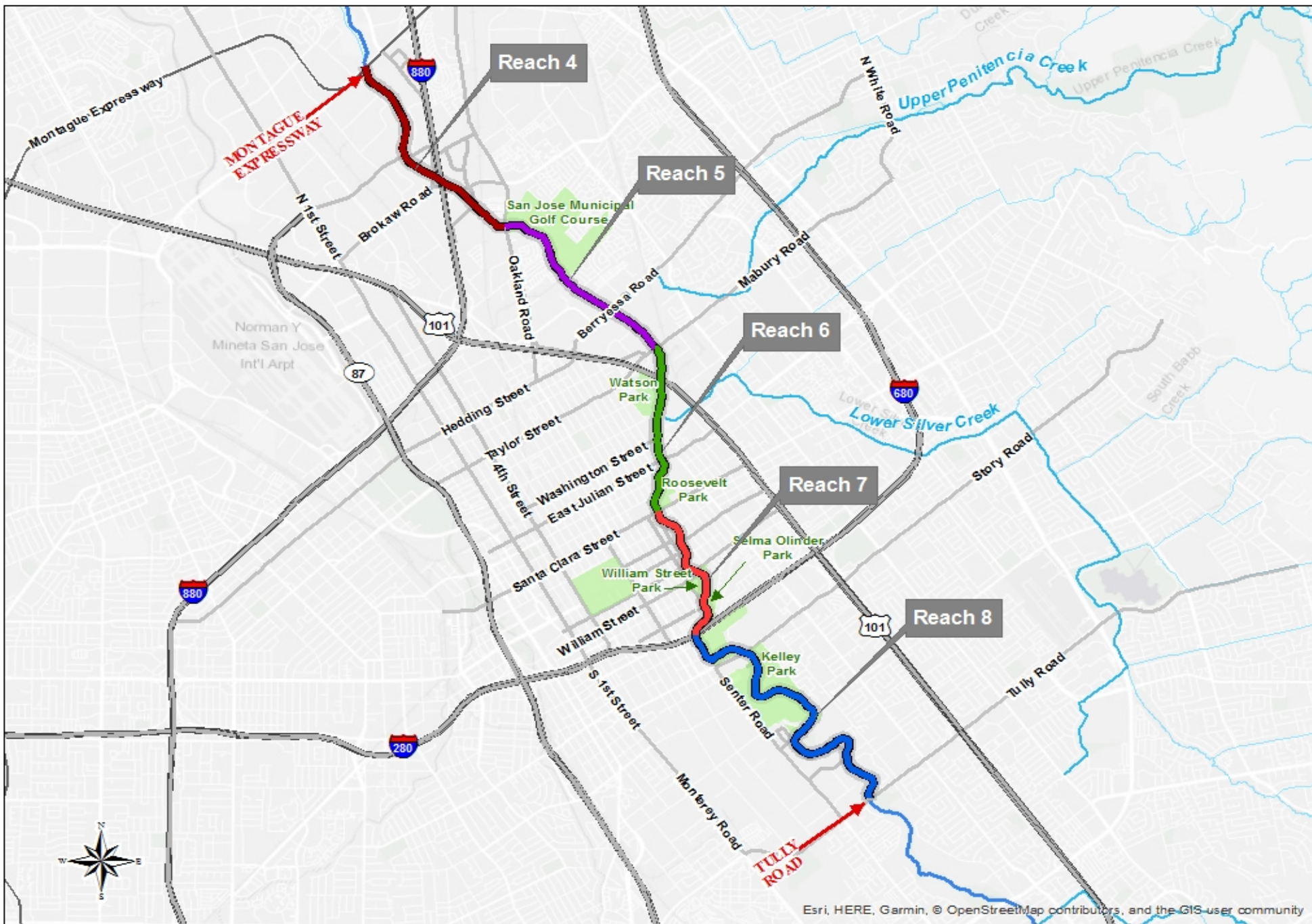
Project Planning Phase



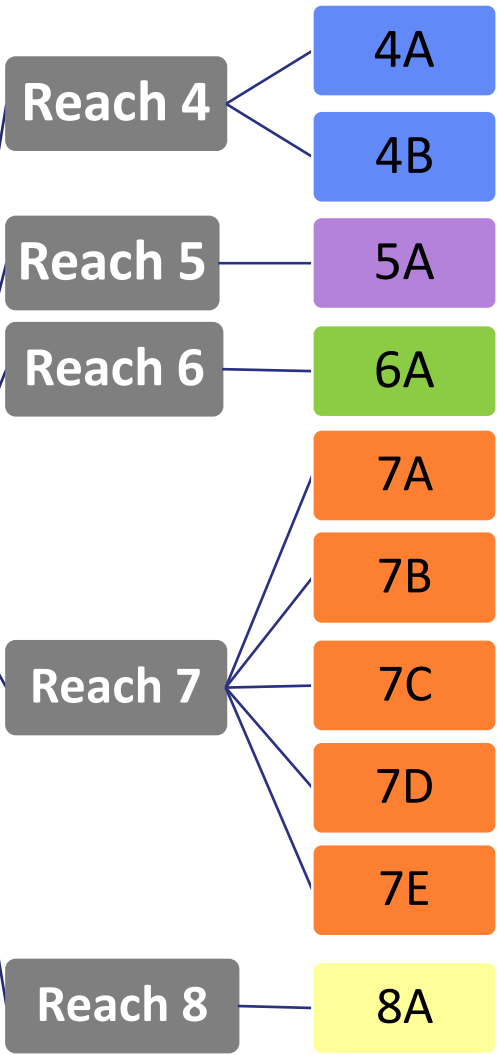
PUBLIC INPUT
Spring 2019

PUBLIC INPUT
Fall 2019

PUBLIC INPUT
Now

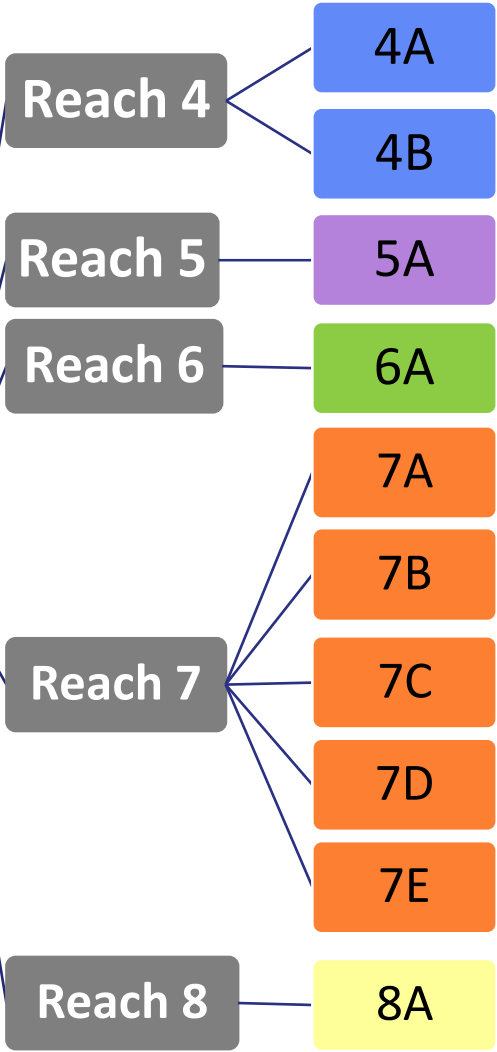


Project Scope



	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5
4A	4A	4A	4A	4A	4A
4B					
5A	5A	5A	5A	5A	5A
6A	6A	6A	6A	6A	6A
7A	7A				
7B		7B			
7C			7C		
7D				7D	
7E					7E
8A	8A	8A	8A	8A	8A

Project Scope



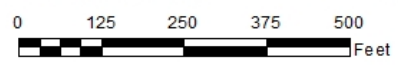
	Alt. 6	Alt. 7	Alt. 8	Alt. 9	Alt. 10
4A					
4B	4B	4B	4B	4B	4B
5A	5A	5A	5A	5A	5A
6A	6A	6A	6A	6A	6A
7A	7A				
7B		7B			
7C			7C		
7D				7D	
7E					7E
8A	8A	8A	8A	8A	8A

Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	Alt. 7	Alt. 8	Alt. 9	Alt. 10	Alt. 11
4A	4A	4A	4A	4A						
					4B	4B	4B	4B	4B	
5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	
6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	
7A					7A					
	7B					7B				
		7C					7C			
			7D					7D		
				7E					7E	
8A	8A	8A	8A	8A	8A	8A	8A	8A	8A	
										No Project



REACH 4 4A

Flood Mitigation Element

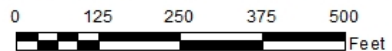
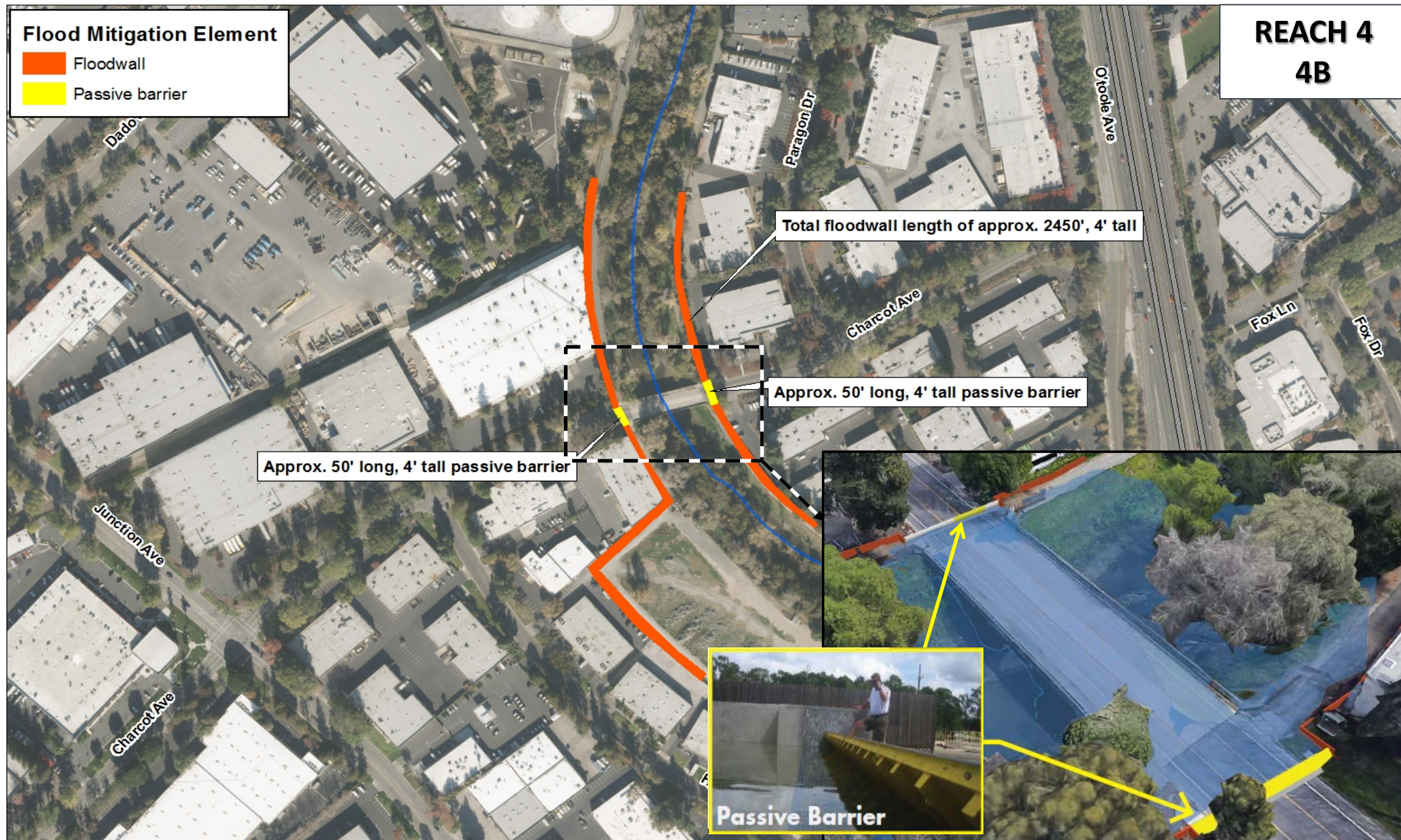
-  Floodwall
-  Headwall



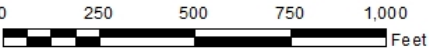
Flood Mitigation Element

-  Floodwall
-  Passive barrier

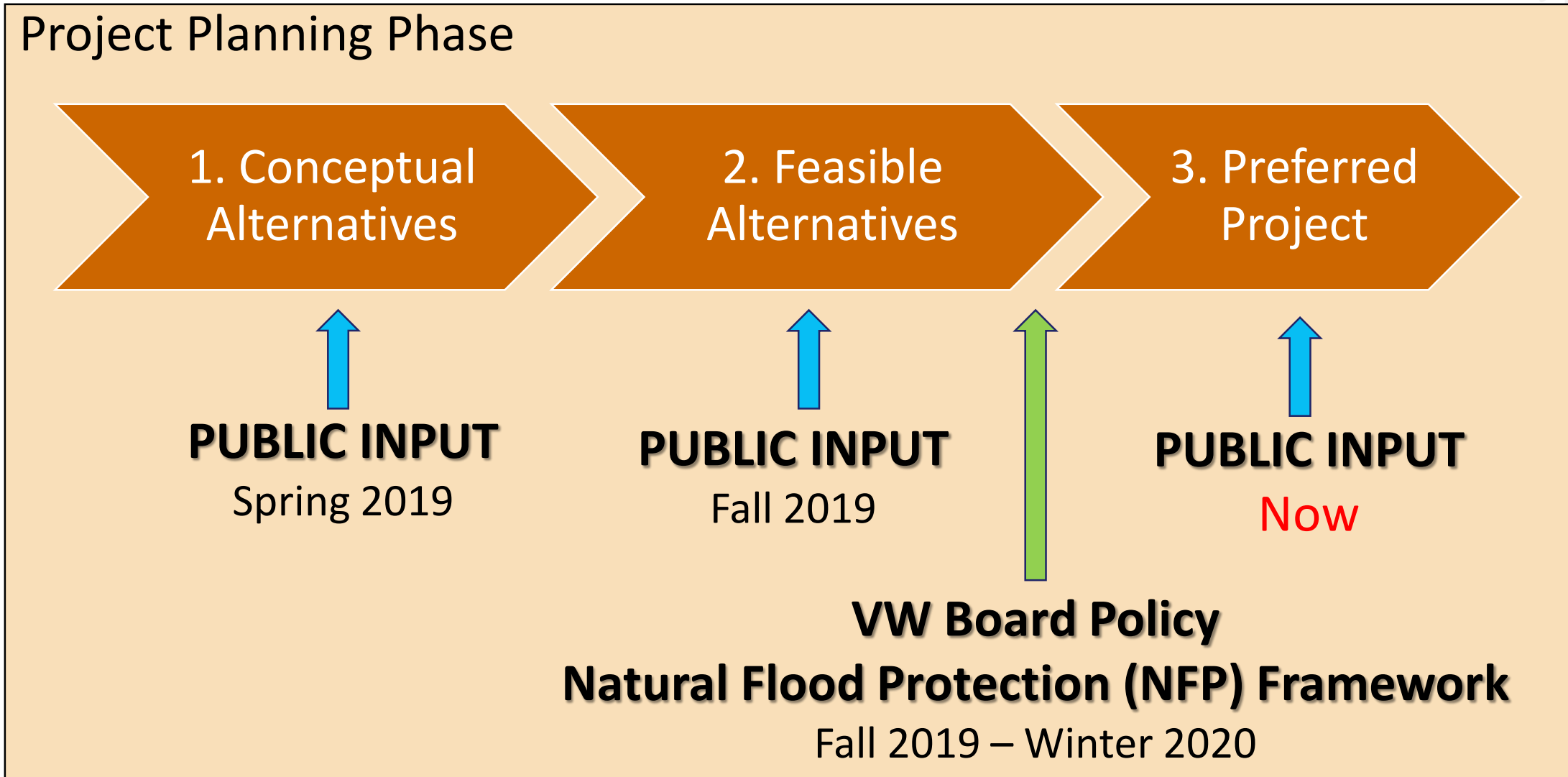
**REACH 4
4B**



REACH 5 5A



Source: Construction of new floodwalls at San Francisquito Creek.
<http://peninsulaexpress.com/2017/11/01/east-palo-alto-palo-alto-and-menlo-park-taking-steps-to-prevent-flooding/>



Natural Flood
Protection
Framework



Consider:

- Physical
- Hydrologic
- Ecological functions & processes



Least
environmentally
damaging practicable
alternative (LEDPA)

1	2	3	4	5	6	7	8	9	10	11	
4A	4A	4A	4A	4A	4B	4B	4B	4B	4B	No Project	
5A	5A	5A	5A	5A	5A	5A	5A	5A	5A		
6A	6A	6A	6A	6A	6A	6A	6A	6A	6A		
7A	7B	7C	7D	7E	7A	7B	7C	7D	7E		
8A	8A	8A	8A	8A	8A	8A	8A	8A	8A		
\$72 M	\$80 M	\$83 M	\$91 M	\$79 M	\$74 M	\$81 M	\$85 M	\$92 M	\$80 M		\$0
\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M		\$700 K



NFP Framework





Preferred Project Alternative

1	2	3	4	5	6	7	8	9	10	11	
4A	4A	4A	4A	4A	4B	4B	4B	4B	4B	No Project	
5A	5A	5A	5A	5A	5A	5A	5A	5A	5A		
6A	6A	6A	6A	6A	6A	6A	6A	6A	6A		
7A	7B	7C	7D	7E	7A	7B	7C	7D	7E		
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\$72 M	\$80 M	\$83 M	\$91 M	\$79 M	\$74 M	\$81 M	\$85 M	\$92 M	\$80 M		\$0
\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M		\$700 K

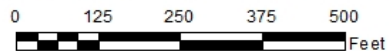


NFP Preferred

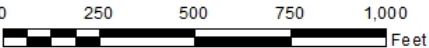
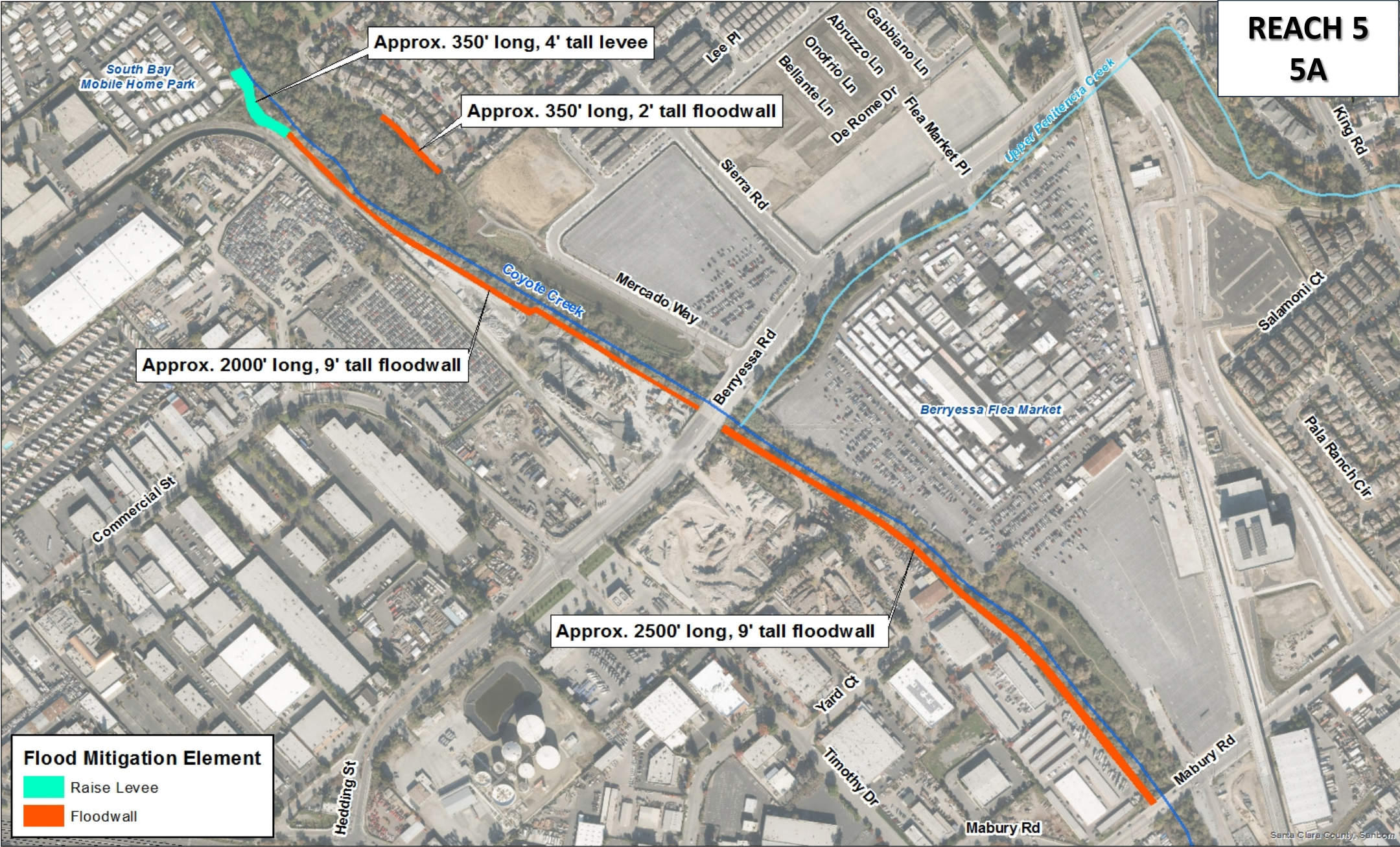
Flood Mitigation Element

-  Floodwall
-  Passive barrier

**REACH 4
4B**



REACH 5 5A



FERC Order Compliance Flood Management Measures

FERC directs VW to start lowering Anderson Dam to deadpool no later than October 1st, 2020

FERC directs VW to expedite implementation of the diversion tunnel system – Anderson Dam Tunnel Project (ADTP)

February 20, 2020

Federal Energy Regulatory Commission (FERC) letter to Valley Water (VW)

ADTP designed for a maximum discharge of 2,000 cfs plus additional contribution from existing outlet and tributary flows

Completion of some elements of the ongoing Coyote Creek Flood Protection Project is necessary as avoidance and minimization measures for the ADTP to prevent flooding within urbanized areas – FERC Order Compliance Project (FOCP)

December 2023

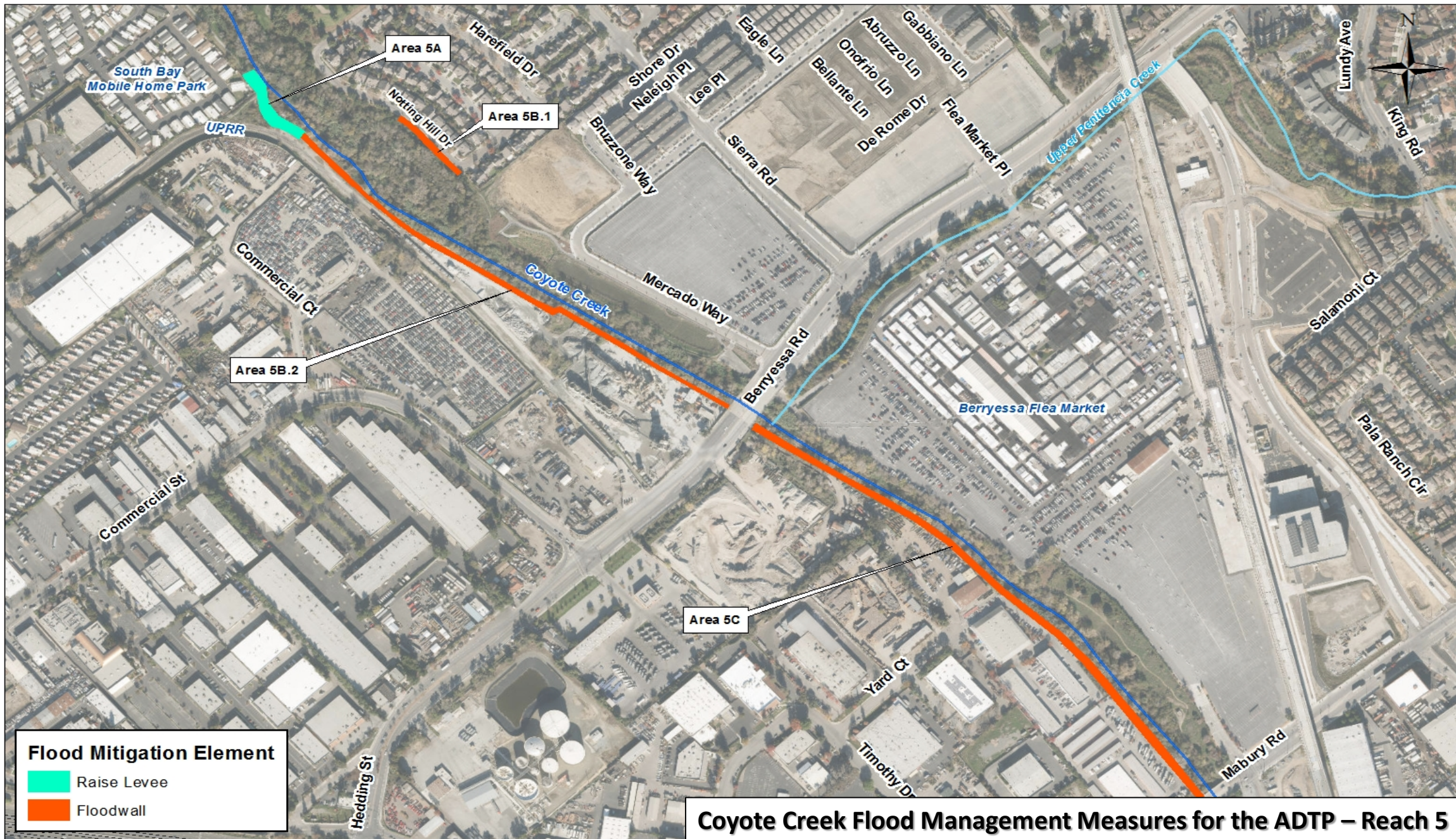
ADTP tunnel system scheduled to complete construction

Spring 2020

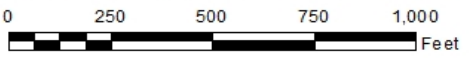
VW identified areas within Coyote Creek where flooding would occur as a result of implementing the FERC Order

Anderson Dam Flood Management Measures

Reach	General Location Along Coyote Creek	Facility/Area subject to flooding	Approximate Creek Capacity (cfs)	Combined Coyote Creek Flows during ADTP Emergency Operation (cfs) – Dec 2023
5	Berryessa Road	5A	2,000	6,500
		5B.1	1,300	
		5B.2		
	U/S Upper Penitencia Creek	5C	4,100	5,600
6	D/S Lower Silver Creek	6A	4,500	5,600
7	U/S Lower Silver Creek	7A.1	1,600	4,000
		7A.2		
		7B	3,200	
		7C	2,600	
	East William Street	7D.1	4,000	
		7D.2		
		7D.3		



Coyote Creek Flood Management Measures for the ADTP – Reach 5



Project Timeline

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	Post FERC Order Compliance Project					■	■	■			
Construction	FERC Order Compliance Project						■	■			
	Post FERC Order Compliance Project							■	■	■	

We are here!

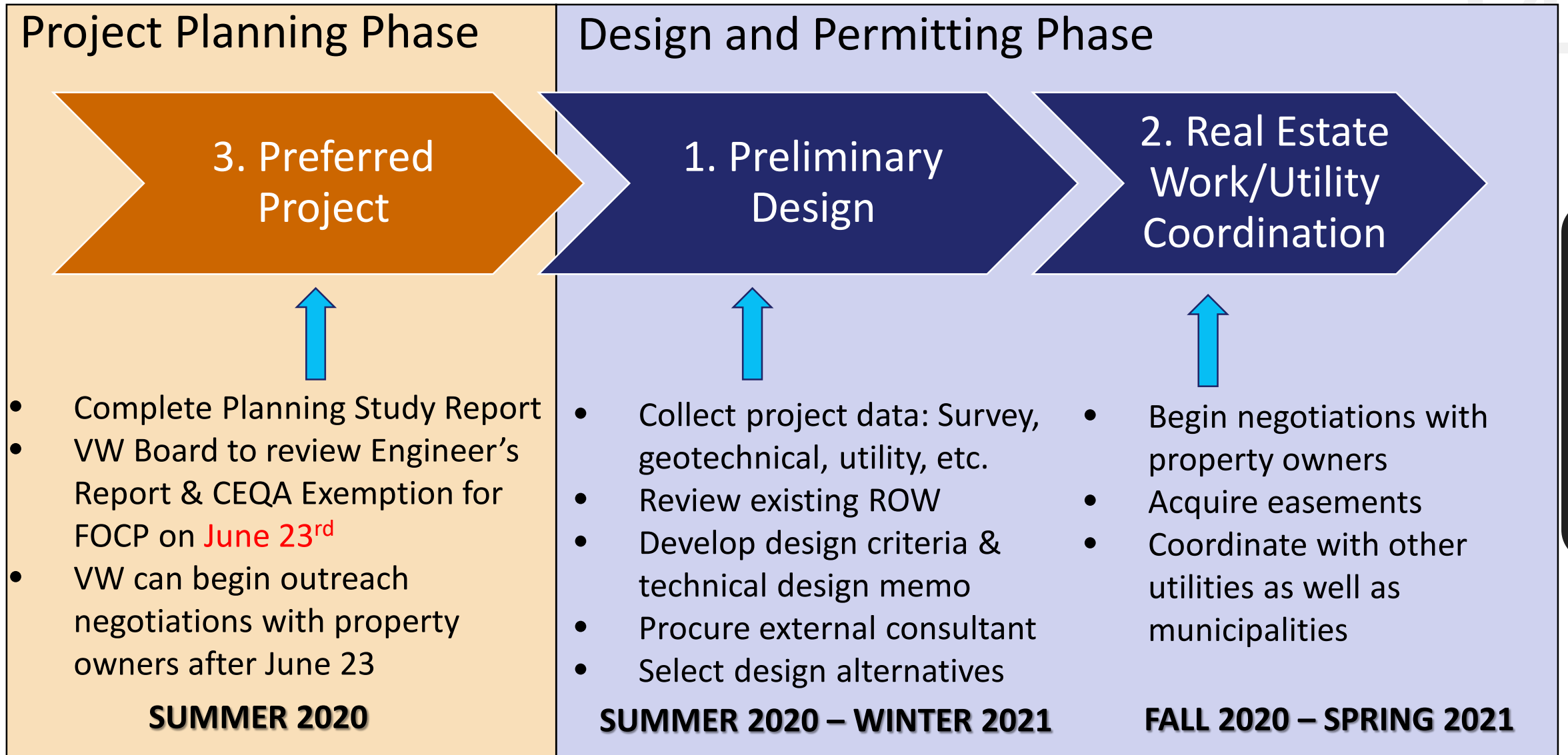


End of ADTP Construction

Site Prep for Construction of ADSRP



Next Steps



Next Steps

Design and Permitting Phase



- Continue meeting with public throughout design phase
 - Update public on current project status
 - Solicit public input on various design elements, i.e. aesthetics, signage, open space elements, public art

Project Design Team

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Thank You



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