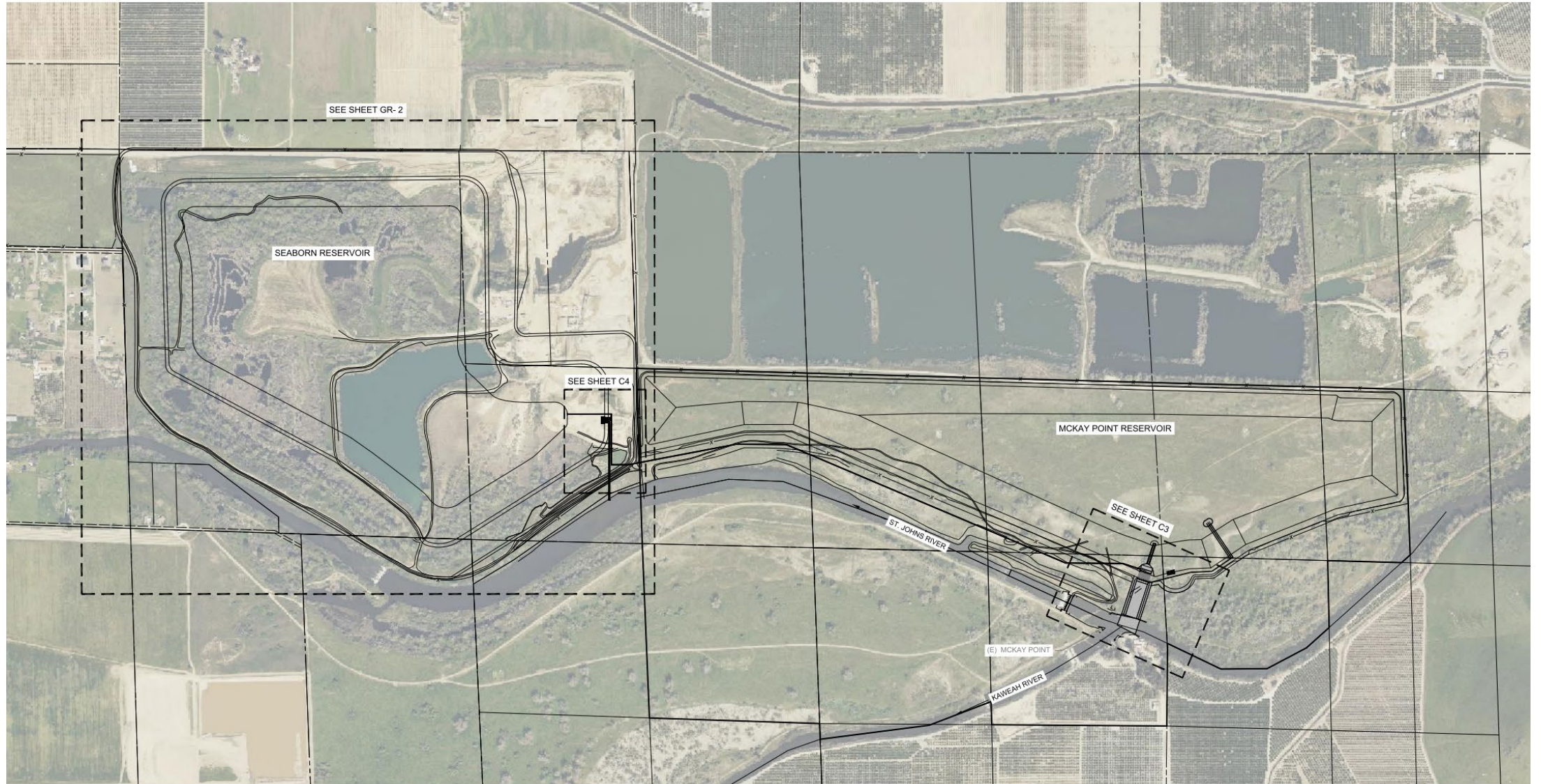


Flood Mitigation and Drought Resiliency Projects at McKay Point

“Projects at McKay Point”

March 2022

Project Site Plan



Background

- Partnership: Tulare Irrigation District and Consolidated Peoples Ditch Company
- Location: Seaborn Property (old Santa Fe Aggregate mining operation)
 - Approximately 260 acres
 - Mining operations have ended (Lease ends April 2022)
 - Property purchased by Partners in December 2020
- Goals & Objectives:
 - Develop a reservoir to store Kaweah River water for reregulation and flood control
 - Enhance local habitat potential by developing a Habitat Restoration Zone

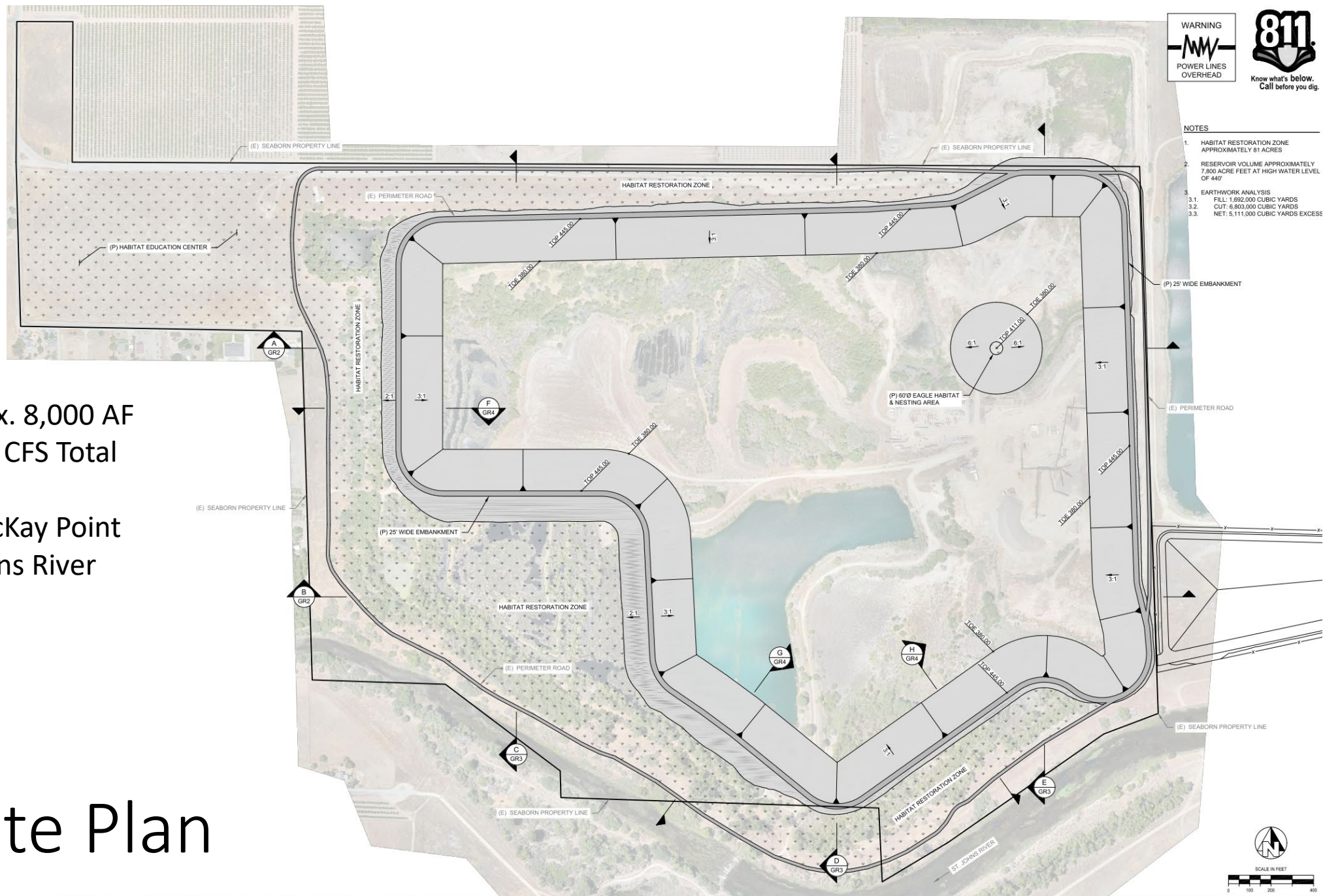
Total Storage: approx. 8,000 AF
 Intake Capacity: 250 CFS Total
 Return Capacity:

- 150 CFS above McKay Point
- 100 CFS to St. Johns River

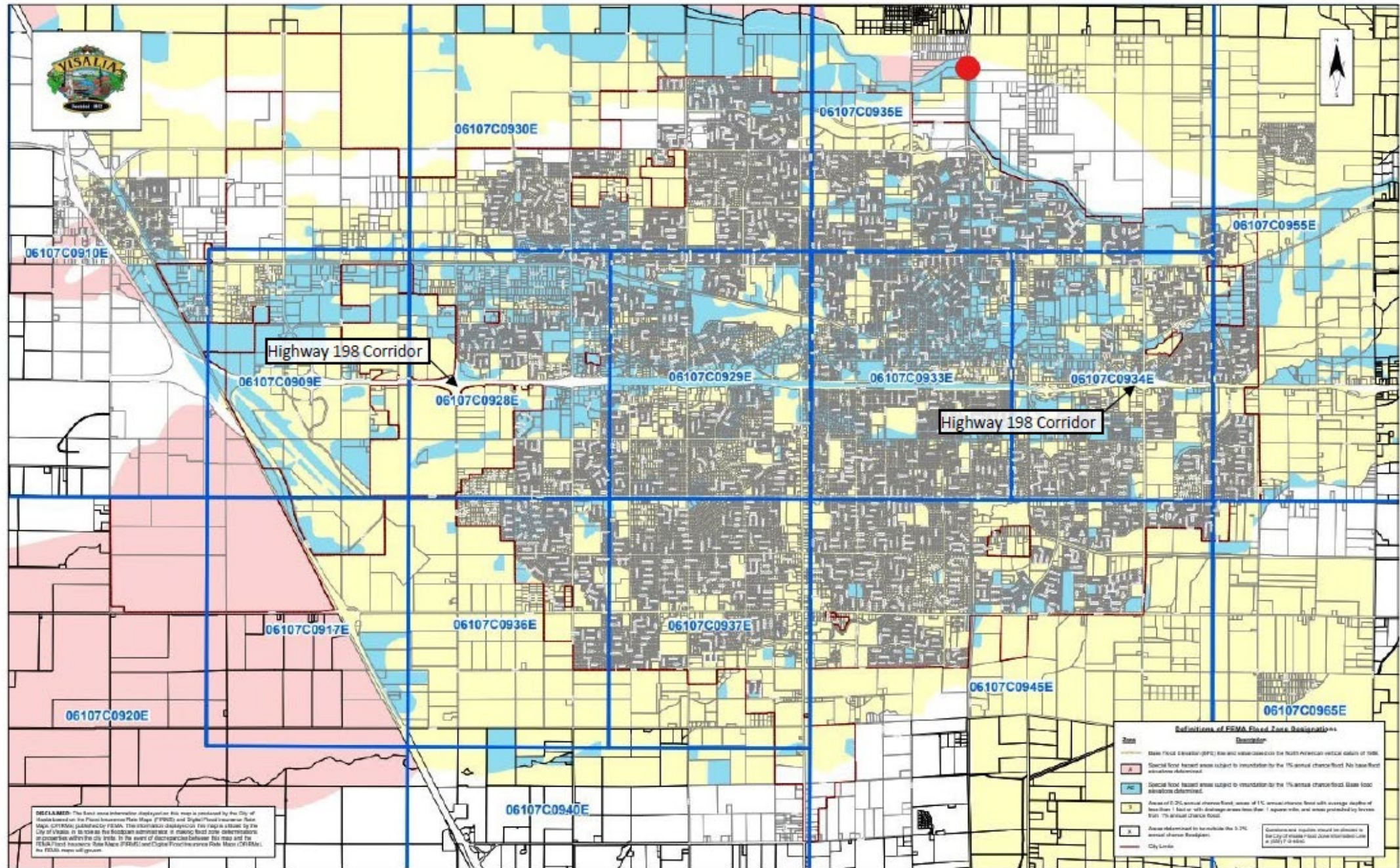
Habitat Potential

- Riparian
- Wetlands
- Upland Wetlands
- Wet Meadow

Project Site Plan



Flood Insurance Rate Map Index



Flood Reduction Zones

- Removes 250 CFS from the St. Johns River
 - Lowers river levels from 333.2' to 333.1'
- Total Area Removed from 100-year Flood Zone: 174.6 acres
- At average of 7 homes per acre = 1,222 homes mitigated

-
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Flood Reduction Zones



Figure 3: Example Inset of an Area Spared from Flooding by the 100- Year Flood along Mill Creek near the East Edge of Visalia. Areas subject to flooding by the 100- year post-condition flood shown in blue. Additional areas subject to flooding by the 100- year pre-condition flood but not the 100- year post-condition flood shown in red. Visalia city limits shown in purple.



Figure 4: Example Inset of an Area Spared from Flooding by the 100- Year Flood near the St. Johns River along the North Edge of Visalia. Areas subject to flooding by the 100- year post-condition flood shown in blue. Additional areas subject to flooding by the 100- year pre-condition flood but not the 100- year post-condition flood shown in red. Visalia city limits shown in purple.

Engineer's Estimate

Building Resilience In Communities

BRIC '21 Tulare County Drought Resiliency and Flood Mitigation Project At McKay Point

PRELIMINARY ENGINEERING ESTIMATE

Item No.	Description	\$/Unit	Unit	Quantity	Subtotal	TID/CPDC Cost-Share	BRIC Grant	Cost Estimating Source
PHASE 1 - Pre Construction								
1.1	CEQA Compliance	\$ 200.00	Hours	500	\$ 100,000.00	\$ 30,000.00	\$ 70,000.00	Experience Estimate ²
1.2	NEPA Compliance	\$ 200.00	Hours	250	\$ 75,000.00	\$ 22,500.00	\$ 52,500.00	Experience Estimate ²
1.3	Permits	\$ 200.00	Hours	250	\$ 50,000.00	\$ 15,000.00	\$ 35,000.00	Experience Estimate ²
1.4	Project Designs and Specifications	\$ 150.00	Hours	667	\$ 100,000.00	\$ 30,000.00	\$ 70,000.00	Experience Estimate ²
1.5	Public Construction Bid Offering (go-no-go #1)	\$ 150.00	Hours	133	\$ 20,000.00	\$ 6,000.00	\$ 14,000.00	Experience Estimate ²
PHASE 2 - Construction								
2.1	Mobilization/Demobilization, Insurance, Permits, Worker Protection	\$ 1,140,000.00	1	Each	\$ 1,140,000.00	\$ 342,000.00	\$ 798,000.00	Preliminary Engineer's Estimate ³
2.2	Inlet Structure	\$ 3,600,000.00	1	Each	\$ 3,600,000.00	\$ 1,080,000.00	\$ 2,520,000.00	Preliminary Engineer's Estimate ³
2.3	Gravity/Pressure Pipeline	\$ 2,100,000.00	1	Each	\$ 2,100,000.00	\$ 630,000.00	\$ 1,470,000.00	Preliminary Engineer's Estimate ³
2.4	Pump Station	\$ 2,360,000.00	1	Each	\$ 2,360,000.00	\$ 708,000.00	\$ 1,652,000.00	Preliminary Engineer's Estimate ³
2.5	Pump Station Manifold and Discharge	\$ 720,000.00	1	Each	\$ 720,000.00	\$ 216,000.00	\$ 504,000.00	Preliminary Engineer's Estimate ³
2.6	Earthwork (Cut & Fill) and Habitat Restoration Zone	\$ 11,355,000.00	1	Each	\$ 11,355,000.00	\$ 3,406,500.00	\$ 7,948,500.00	Preliminary Engineer's Estimate ³
2.7	Construction Management - As Builts (go-no-go #2)	\$ 200.00	Hours	900	\$ 180,000.00	\$ 54,000.00	\$ 126,000.00	Experience Estimate ²
Contingencies (5%)					\$ 1,090,000.00	\$ 327,000.00	\$ 763,000.00	
Totals					\$ 22,890,000.00	\$ 6,867,000.00	\$ 16,023,000.00	
Percentages						30.00%	70.00%	

Schedule

- Q2 2022 begin RFQ for Engineering/Enviro Consultants
- Q3 2022 Award Engineering/Enviro Consultants Contracts and begin work
- Q2 2024 complete Engineering/Enviro Work and bid construction
- Q2 2024 begin construction
- Q1 2026 complete construction