

# Informational Meeting February 2025 - SSJID













### **Meeting Purpose**

- Provide information
- Take feedback
- Answer questions





### **About SSJID & OID**

#### SSJID Profile

Origins: Established in 1909

Location: Escalon, Ripon, Manteca

Irrigated Area: ±50,000 acres

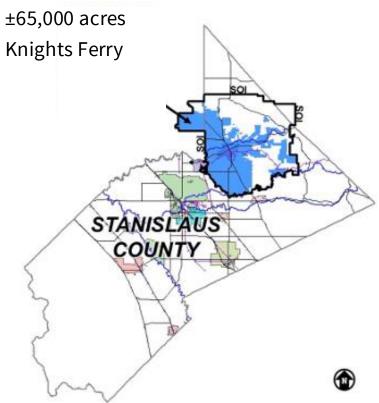
Domestic Water: Lathrop, Tracy, Manteca



#### OID Profile

Established in 1909

Oakdale and Knights Ferry







# **Existing Infrastructure**

- 1 Tulloch Dam
- 2 Goodwin Dam
- 3 Tulloch Dam Road
- 4 OID South Main Diversion
- Joint Supply Canal Diversion
- 6 Joint Supply Canal (JSC)
- The problem







#### **Hazard Studies**

- 2005 Preliminary
- 2007 Update
- 2017 Update

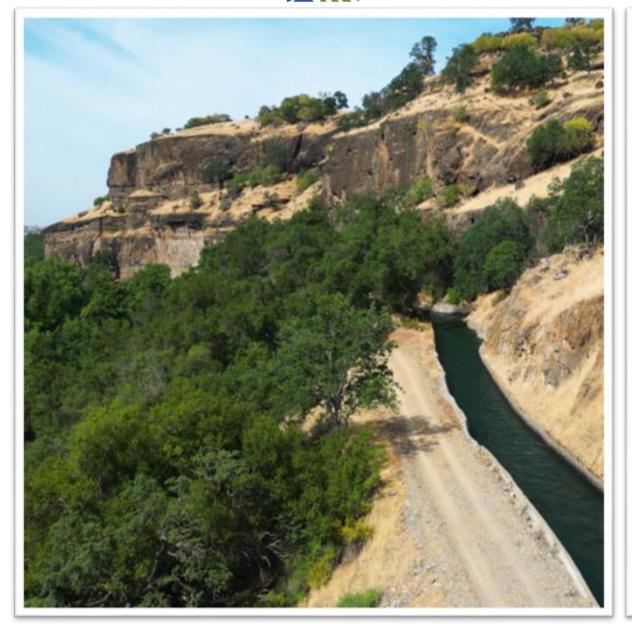
### **Types of Hazards**

- Rockslides
- Landslides
- Canal Embankment Failures
- Canal Liner Failures
- Tunnel Instability







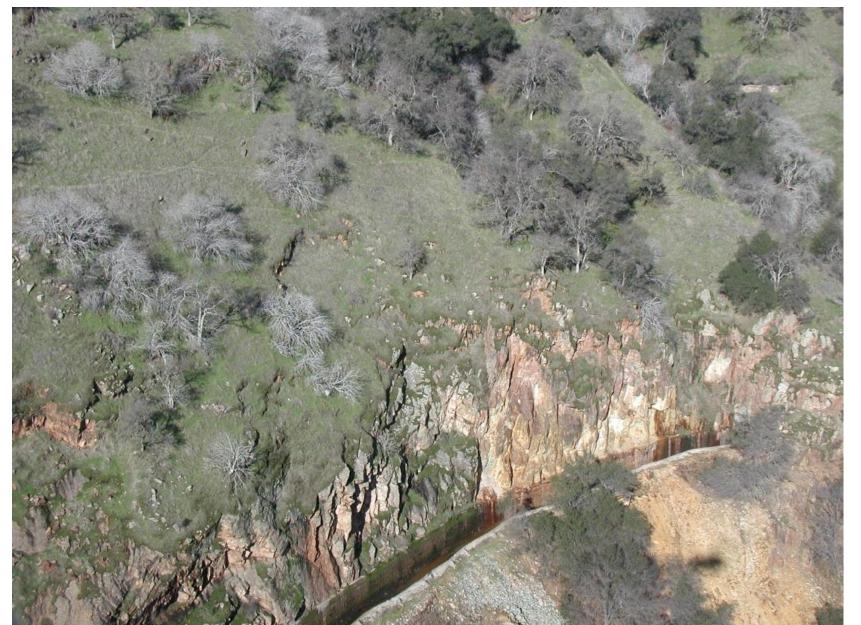




































### **2013 Rockslide**







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### **2013 Rockslide**







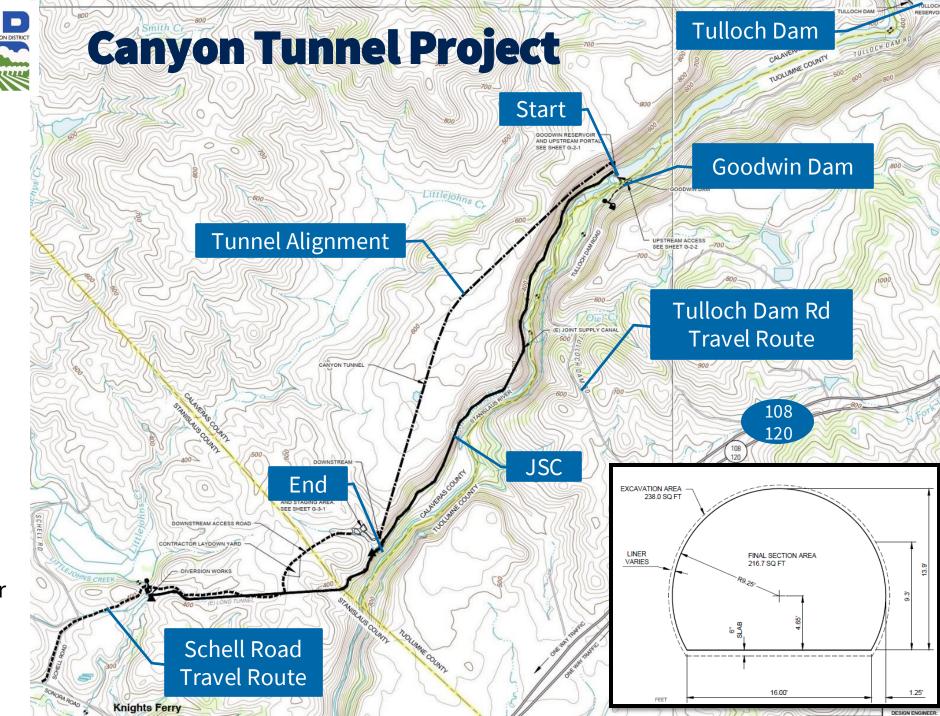


#### **Design Process**

- Started in 2018
- Subsurface Investigation
- Alignment Identification
- Portal Orientation
- Design Details

#### **Project Details**

- 12,106' long
- 200' to 300' below surface
- 100% on private property
- 18'-20' in diameter, flat floor
- Concrete lined
- 1,263 cfs capacity





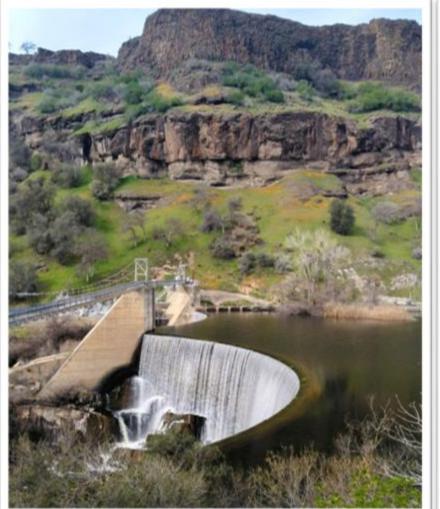


### **Upstream Portal**

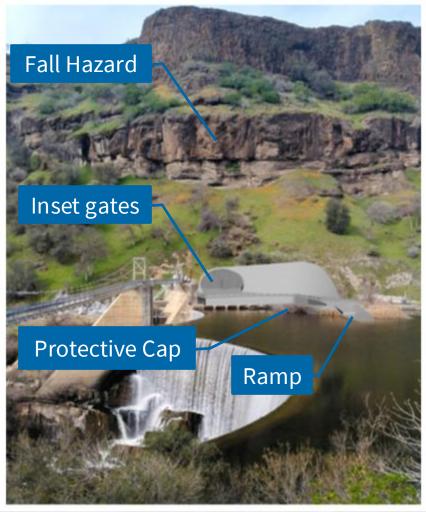
### **Design Details**

- Gates constructed into hillside
- Intake protection
  - 3' concrete cap covered by a 6' soil cushion
- Temporary floating bridge or ferry for construction
- Permanent boat ramps on both sides of river for future access

#### **Before Project**



### **After Project**



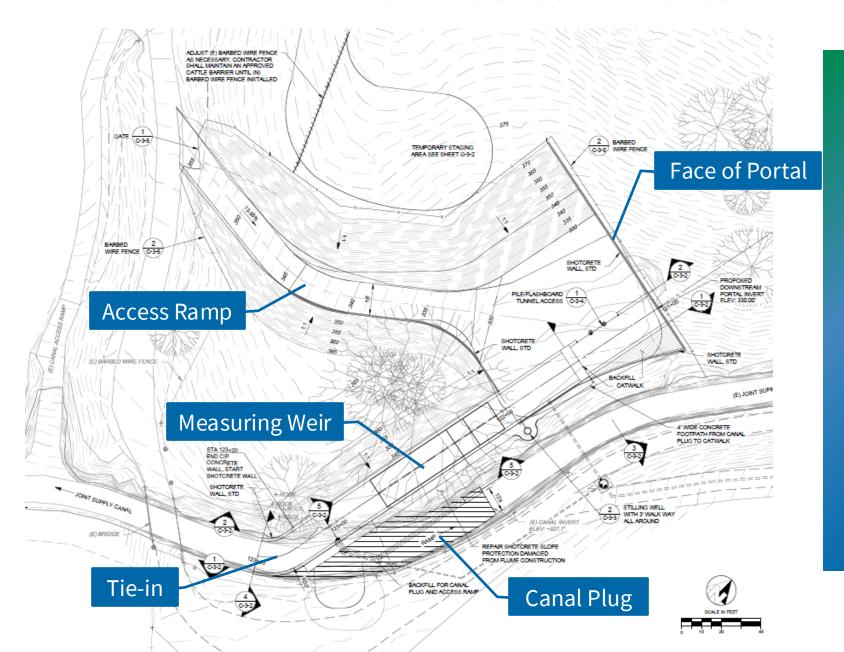




### **Design Details**

- Primary construction location
- Not accessible or visible to Public
  - 1.25' from nearest resident
  - 1.5' miles from Knights Ferry
- Includes:
  - Access Ramp
  - Measuring Weir
  - JSC tie-in
  - JSC canal plug
  - Shoring walls

### **Downstream Portal**





### **CEQA Process**

### **California Environmental Quality Act**

- Public agencies are required to disclose and evaluate the potential environmental impacts of their project
- Three Types of CEQA Documents
  - Notice of Exemption A document that indicates a project is exempt from CEQA review
  - Negative Declaration or **Mitigated Negative Declaration** A document that indicates a project has less than significant impacts on the environment, or less than significant with <u>mitigation incorporation</u>
  - Environmental Impact Report (EIR) A document that indicates a project has potentially significant impacts on the environment

#### **Canyon Tunnel CEQA Document**

- Prepared an Initial Study to evaluate the potential Canyon Tunnel Project environment impacts
- Results of the Initial Study concluded that a Mitigated Negative Declaration is appropriate
- The CEQA compliance document was prepared and submitted to the State Clearinghouse for distribution and public comment in **January of 2023** for 30 days





#### **Canyon Tunnel CEQA Document (cont.)**

- Following the public input period, the Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program was adopted on March 14, of 2023 by the SSJID Governing Board
- The documents can be found here:

https://ceqanet.opr.ca.gov/Project/2023010504 or https://canyontunnelproject.org/documents/

### **CEQA Process (Cont.)**



#### CANYON TUNNEL PROJECT

FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

MARCH 2023

SCH NO. 2023010504

#### PREPARED FOR:

South San Joaquin Irrigation District 11011 E. Highway 120 Manteca, CA 95336

PREPARED BY:

Provost & Pritchard Consulting Group



#### NOTE (10.29.24):

On March 14, 2023, 55JID approved the Initial Study/Mitigated Negative Declaration (IS/MND) pursuant to the California Environmental Quality Act (CEQA) for the Canyon Tunnel Project. The Project documents as submitted to the State Clearinghouse can be found at this link: https:// ceganet.opr.ca.gov/Project/2023010504. Following CEQA approval by SSIID and during the Project final design and regulatory permitting processes, minor changes were made to the Project Description, including improvements to design features and water quality protective measures at the proposed upstream tunnel portal, containment of tunnel excavation spoils onsite, and development of a habitat mitigation and monitoring plan. Prior to implementing these changes, SSJID intends to prepare an addendum to the adopted IS/MND pursuant to CEQA Guidelines Sections 15162 and 15164. This addendum will assess the revised Project as compared to the approved Project to ascertain whether the original IS/MND remains sufficient in its consideration and assessment of the environmental impacts of the Project in light of the proposed changes, and will include a determination as to whether substantial evidence exists to support a fair argument that the proposed changes to the Project would have impacts on the environment beyond those evaluated in the adopted IS/MND. We anticipate that no new significant environmental impacts will be identified, nor a substantial increase in the severity of previously identified potential significant impacts.



### **CEQA Addendum**

### **Summary of Design Changes Since CEQA Adoption**

- Location of spoils disposal
- Tunnel length is increasing 100 feet (from 12,000 to 12,106 lineal feet)
- Construction of new boat landing at the north shore of Goodwin Dam reservoir
- Minor intake adjustments at the upstream portal and the tunnel outlet

#### **CEQA Document Addendum**

SSJID is in the process of preparing an Addendum to the adopted IS/MND for **minor** changes that are necessary due to design and permitting changes that have occurred over the last two years.

- No new significant environmental effects or a substantial increase in the severity of previously identified significant effects have occurred
- All mitigation measures incorporated into the original CEQA document will remain
- The Addendum will be uploaded to the State Clearinghouse with a new Notice of Determination





### **Tentative Construction Schedule**

#### **Schedule**

6 Contractors were pre-qualified in November

• Out to bid February 2025

• Bids Due April 2025

Notice of Award
 May 2025

Notice to Proceed June 2025

Start Construction July 2025

Complete Construction April 2028

### **Construction Notes:**

- Two years of tunnel excavation
- Mobilization at downstream portal starts right away
- Timing of upstream portal work dependent on Contractor's schedule (will know in May/June)
  - High activity in winter 2028 to make tie-ins
- JSC remains in operation during construction
- Engineer's Estimate: \$70 to \$80 Million





# **Project Elements**

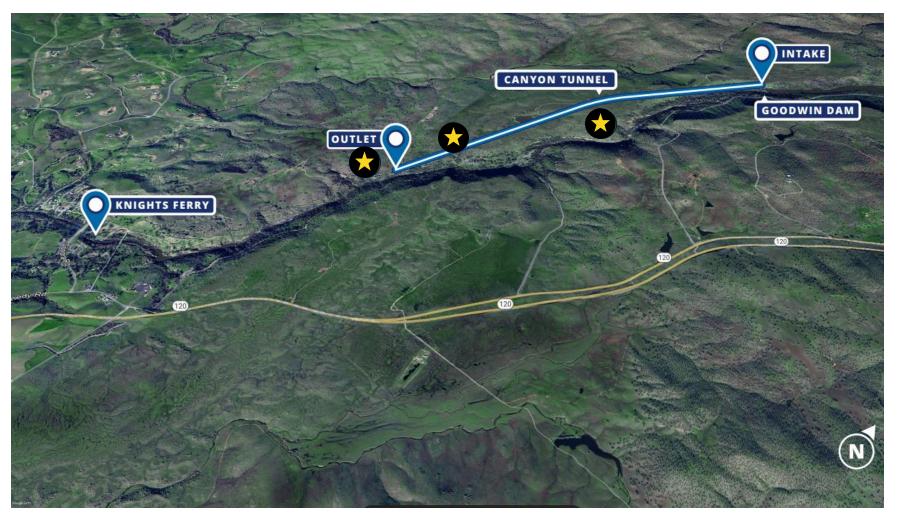




### **Tunnel Spoils**

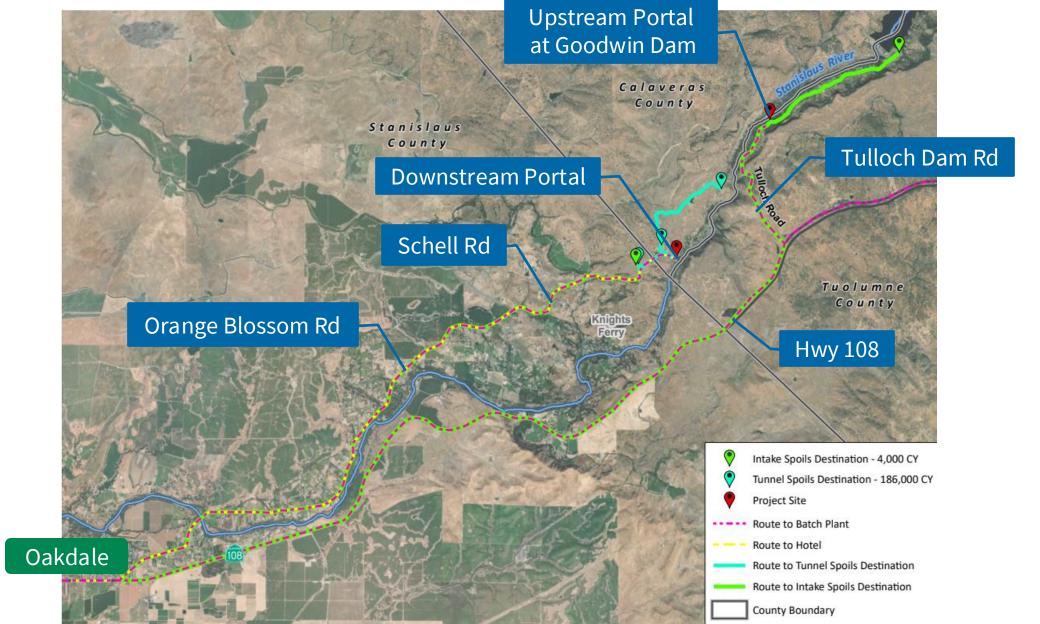
### **Tunnel Spoils**

- 165,000 Loose Cubic Yards
- Spoils will be deposited on one, or all, of the three sites shown
- Primary reason for CEQA Addendum





### **Construction Traffic**





### **Construction Noise & Dust**



#### **Blasting Noise**

- Common tunneling technique, only required at, or near portals where we have hard rock
- For portal construction, 1 blast per week for a few weeks
- For tunneling, 1 to 2 blasts per day, inside tunnel, for a 6 to 8 weeks
- Unlikely to be heard, potential thud (not like Hollywood)



#### **Drilling Noise**

• Will occur over a mile from residential communities, primarily 300' below ground, will not be audible to the public or residents



#### Dust

- There will be minimal dust on the private access roads that the contractor will be required to manage
- Contractor will manage dust during tunnel and portal construction with water trucks, pumps, and misters





### **Other Project Elements**



#### **Fire Hazards**

- Contractor required to coordinate with Cal Fire to develop a Fire Safety Plan
- Water trucks required on-site at all times
- Several other preventative measures required



### **Water Quality**

- 401 Water Quality Certification ensures compliance with State water quality standards (acquired)
- 404 Clean Water Act Permit ensures compliance with water quality standards for Waters of the US through the Army Corp of Engineers (acquired)
- Lake or Streambed Alteration (LSA) Agreement with CDFW (acquired)



#### **Wildlife and Plant Species**

 Mitigation measures have been adopted through CEQA to adequately survey and identify listed species that may be encountered, to ensure they are adequately protected





# **Other Project Elements**



#### **Native American Tribes**

 Coordination with Chicken Ranch Rancheria of Mi-Wuk Indians to provide monitoring during surface level excavation



#### **Construction Work Schedule**

- Decided by contractor
- Anticipate 5 to 6 days per week
- 24-hour shifts during tunneling
  - Alternating between drilling and shotcrete application
  - Shift changes generally occur around 6am and 6pm
- Will coordinate with the contractor to be aware of periods of high-volume residential traffic (i.e., school and commute periods)



Canyon Tunnel Presentation | February 2025





# **Capital Improvement Planning**

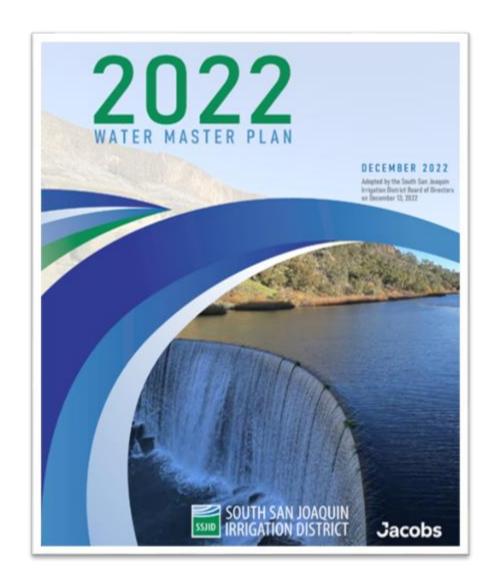


#### **SSJID Water Master Plan**

- Adopted December 2022
- Resulted in a 30-year Capital Improvement Program
- Included the Canyon Tunnel Project
- Suggested rate increases to support plan implementation

#### Water Master Plan Link:

https://www.ssjid.gov/water-master-plan/







### **Proposition 218 Process**

#### **Prop 218 Rate Increases**

- Public Hearing in July 2023
- Proposed stepped rate increases from \$31/ac to \$98/ac by 2028
- 332 protest from 3,257 eligible parcels (10%)
- Rate Schedule adopted by SSJID Governing Board on July 25, 2023

|                                       | Existing |       | New Rates |       |      |       |      |       |      |       |      |       |
|---------------------------------------|----------|-------|-----------|-------|------|-------|------|-------|------|-------|------|-------|
| Charge Category                       | 2023     |       | 2024      |       | 2025 |       | 2026 |       | 2027 |       | 2028 |       |
| Fixed - per acre                      | \$       | 24.00 | \$        | 38.00 | \$   | 52.00 | \$   | 60.00 | \$   | 65.00 | \$   | 70.00 |
| Volumetric - Tier 1 (<= 48") - per AF | \$       | 3.00  | \$        | 5.00  | \$   | 7.50  | \$   | 10.00 | \$   | 10.75 | \$   | 11.75 |
| Volumetric - Tier 2 (> 48") - per AF  | \$       | 10.00 | \$        | 12.50 | \$   | 15.00 | \$   | 17.50 | \$   | 18.25 | \$   | 20.00 |
| Minimum Charge                        | \$       | 50.00 | \$        | 50.00 | \$   | 52.00 | \$   | 60.00 | \$   | 65.00 | \$   | 70.00 |
|                                       |          |       |           |       |      |       |      |       |      |       |      |       |
| Blended Charge per Acre               | \$       | 31.30 | \$        | 50.17 | \$   | 70.13 | \$   | 84.17 | \$   | 90.98 | \$   | 98.40 |

Note: table above assumes an average annual irrigation delivery of approximately 2.42 ac-ft per acre per year





# **Project Funding**

#### **Construction Costs**

- \$70-80 Million
- Split between SSJID/OID with 72%/28% Cost Share

#### **Funding Options**

- Reserves
- State Revolving Fund (SRF) Loans
- California Infrastructure and Economic Development Bank funding (I-Bank)
- Federal funding (WIFIA)
- Private market (banks, equity)
- Public market (revenue bonds)

SSJID is working with PFM Financial Advisors to determine best funding strategy for the Canyon Tunnel Project







# **Community Outreach**

Sign up for updates via the QR Code or the website at: www.canyontunnelproject.org



Email: Katie.Patterson@SSJID.GOV

Phone: (209) 249-2624







# **Engagement Stations**



Technical
Design and
Construction



Community Outreach



Project Purpose

