



Informational Meeting February 2025



**SOUTH SAN JOAQUIN
IRRIGATION DISTRICT**
— 115 YEARS OF SERVICE —
SSJID.GOV



Meeting Purpose

- Provide information
- Take feedback
- Answer questions



SSJID Profile

Origins:

Established in 1909

Location:

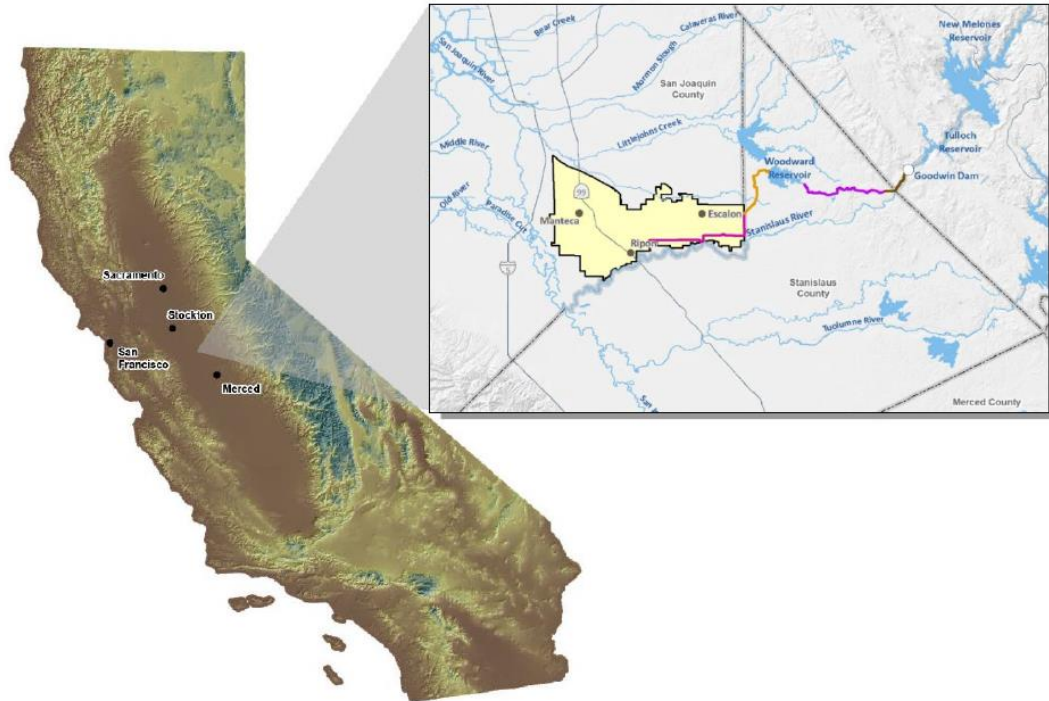
Escalon, Ripon, Manteca

Irrigated Area:

±50,000 acres

Domestic Water:

Lathrop, Tracy, Manteca



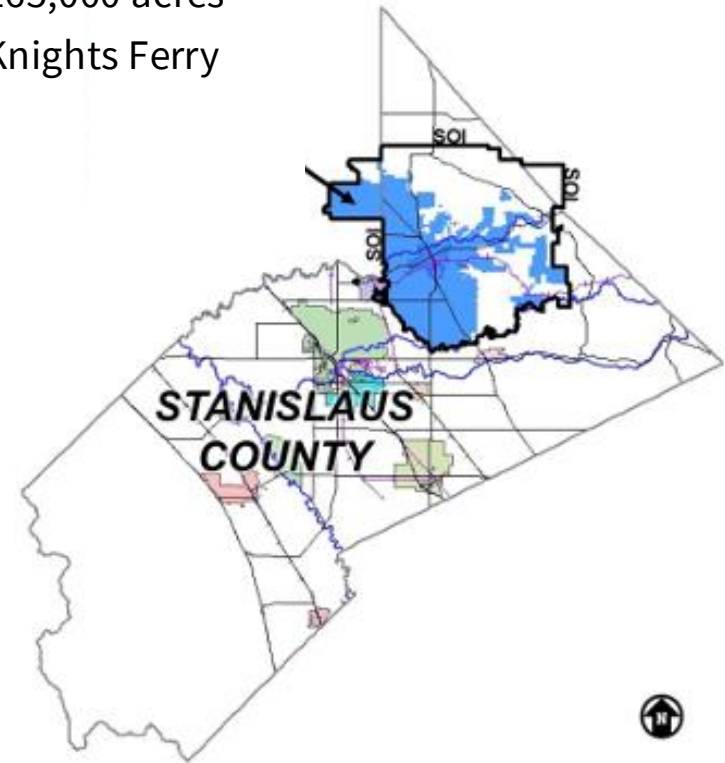
OID Profile

Established in 1909

Oakdale and Knights Ferry

±65,000 acres

Knights Ferry



Existing Infrastructure



1

Tulloch Dam

2

Goodwin Dam

3

Tulloch Dam Road

4

OID South Main Diversion

5

Joint Supply Canal
Diversion

6

Joint Supply Canal
(JSC)



The problem

Hazardous Conditions

Hazard Studies

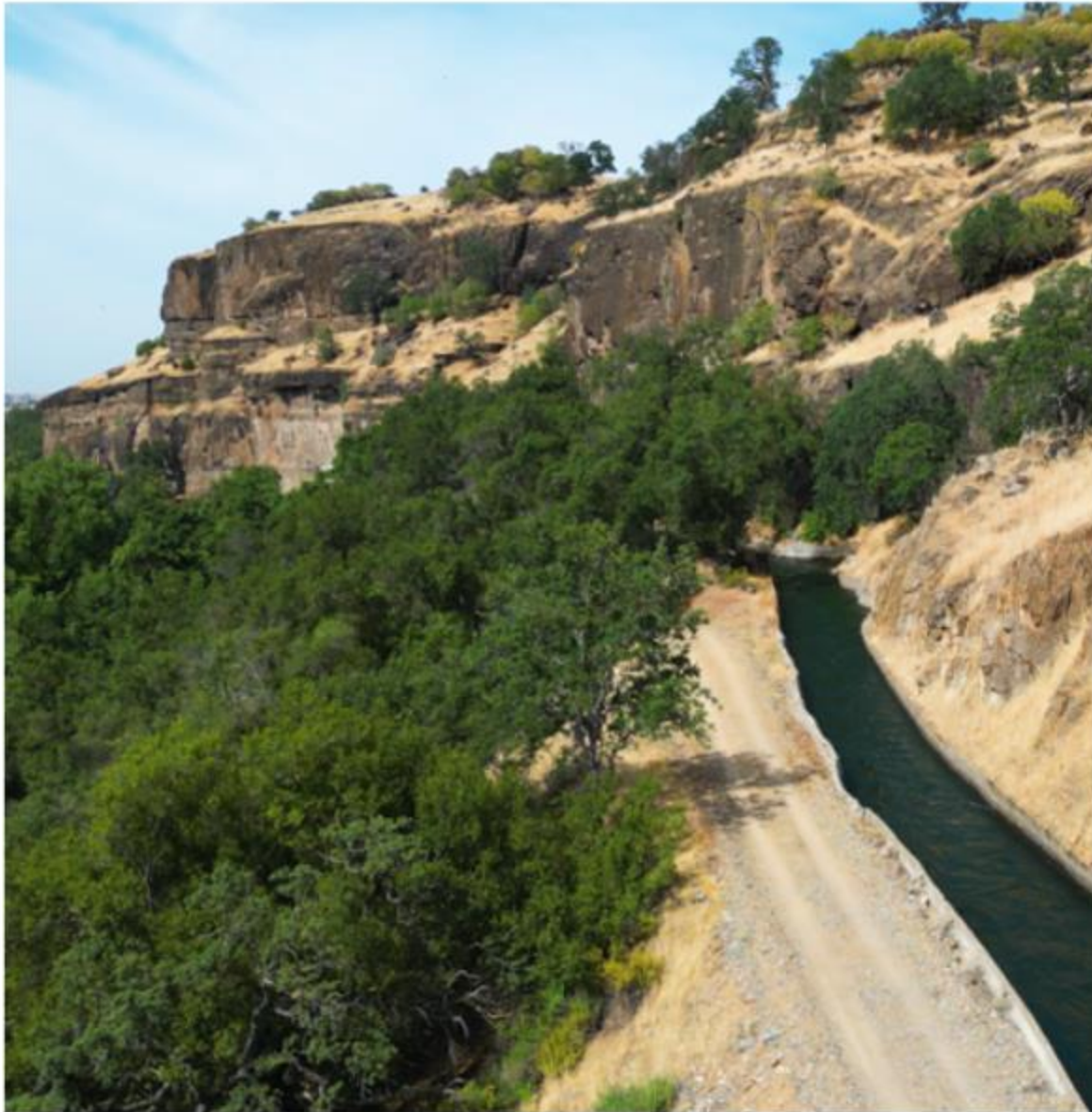
- 2005 Preliminary
- 2007 Update
- 2017 Update

Types of Hazards

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



Hazardous Conditions



Hazardous Conditions





SOUTH SAN JOAQUIN
IRRIGATION DISTRICT



Hazardous Conditions



Hazardous Conditions





**SOUTH SAN JOAQUIN
IRRIGATION DISTRICT**



Hazardous Conditions



Hazardous Conditions



Hazardous Conditions





2013 Rockslide



2013 Rockslide



2013 Rockslide



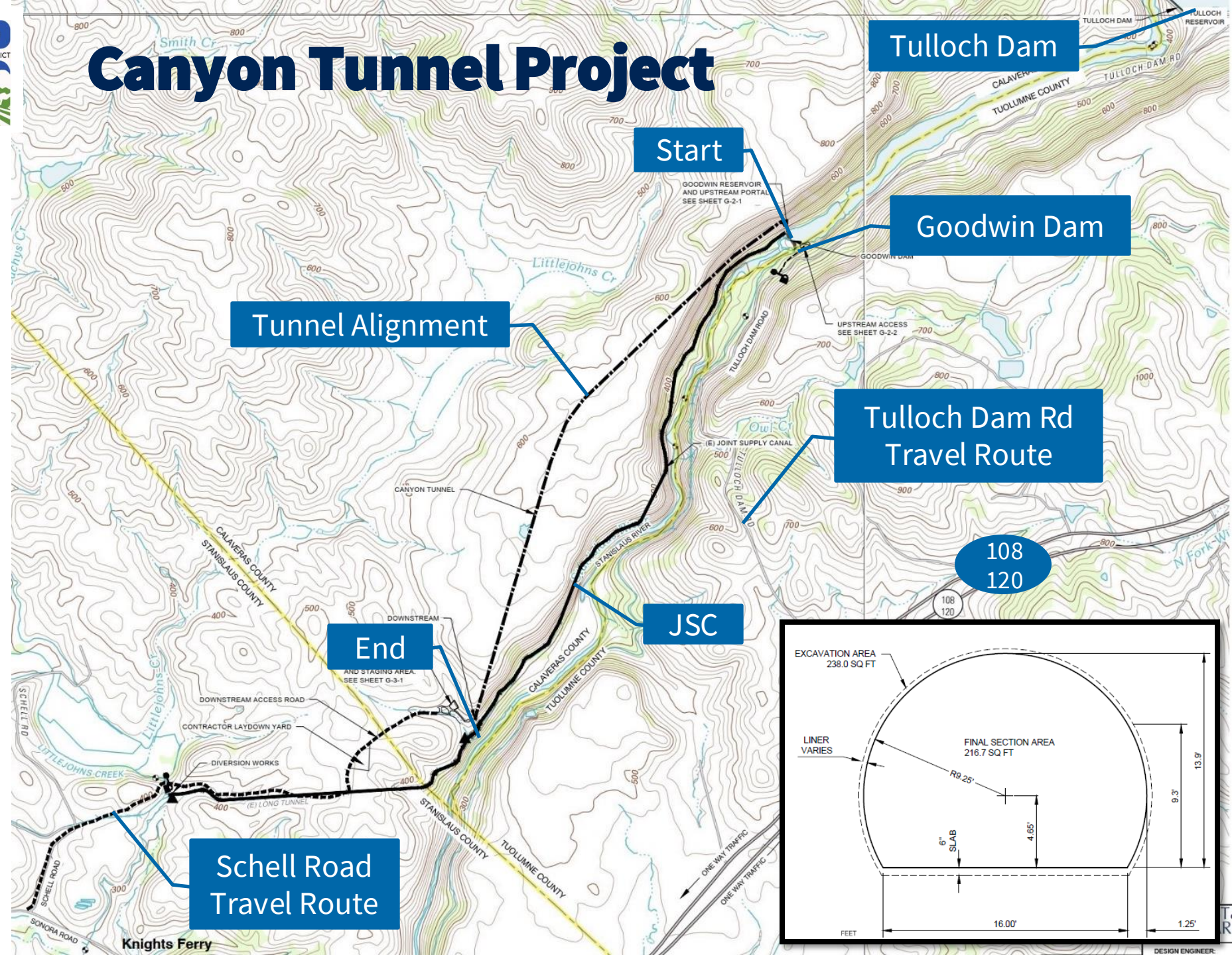
Canyon Tunnel Project

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

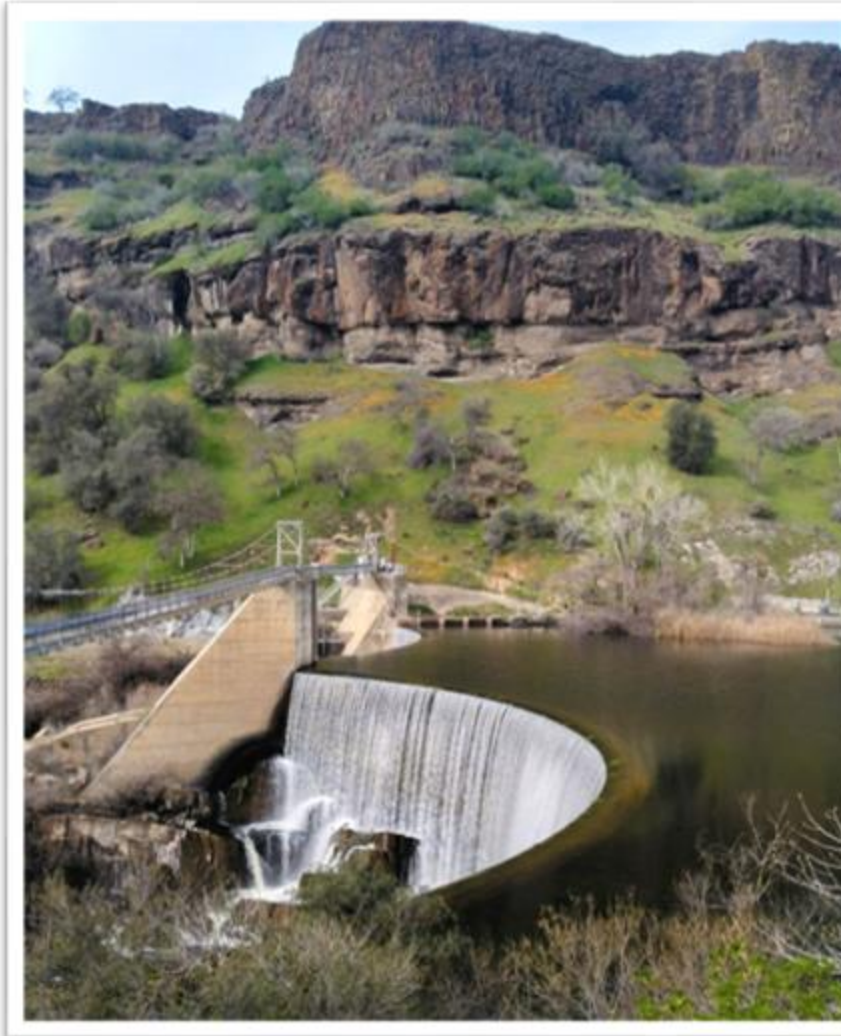


Upstream Portal

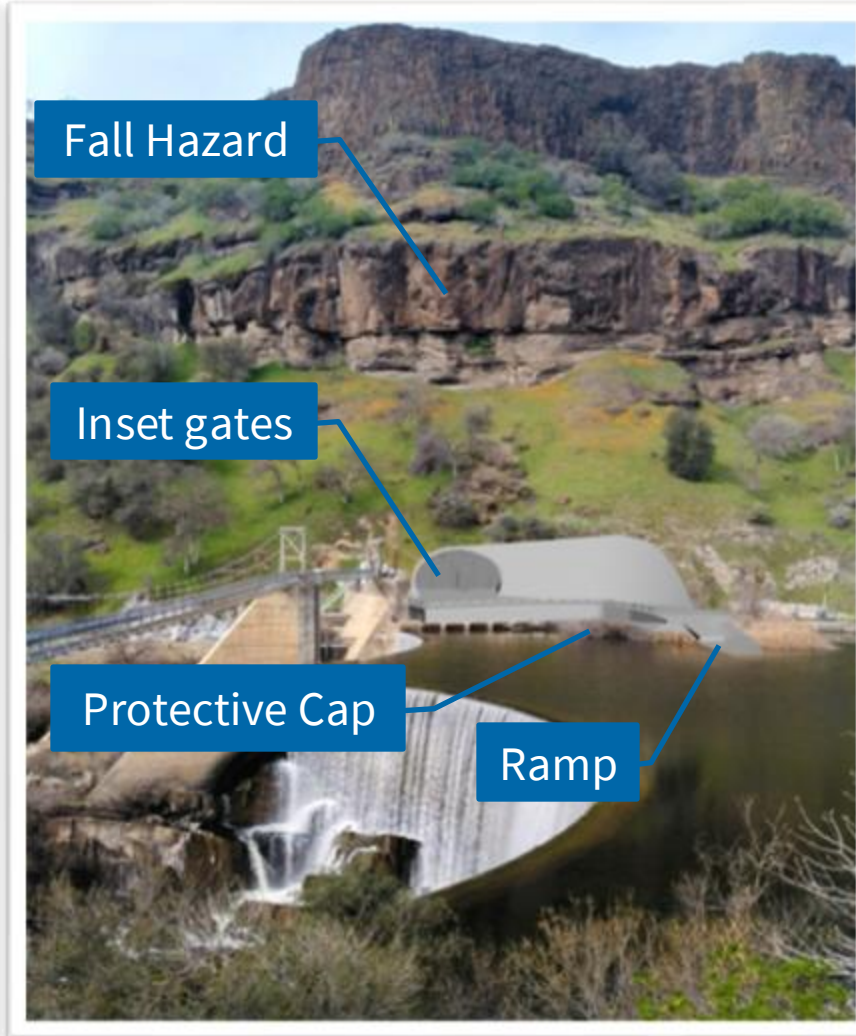
Design Details

- 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



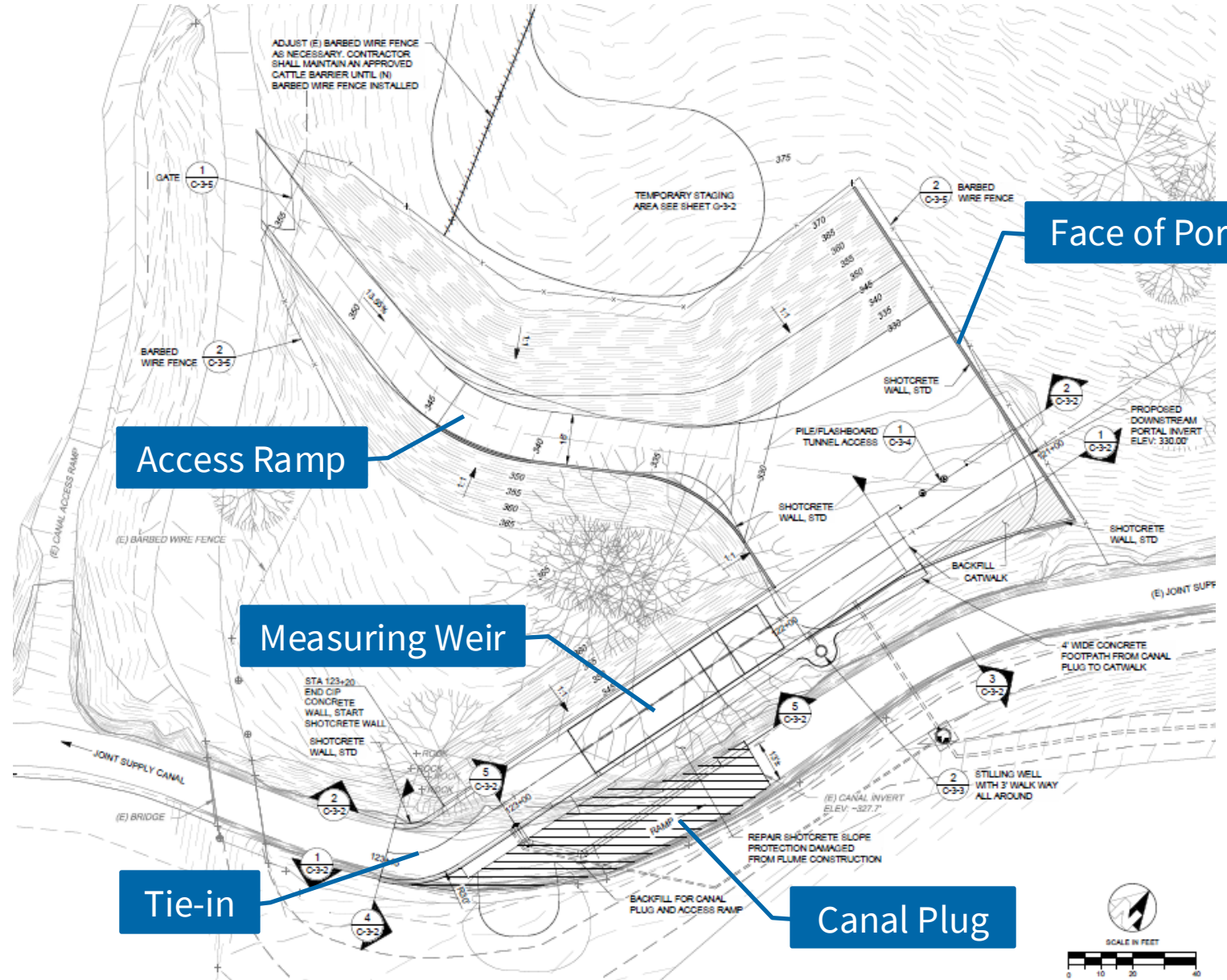
After Project



Downstream Portal

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



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 mitigation incorporation
 - Environmental Impact Report (EIR) – A document that indicates a project has potentially significant impacts on the environment

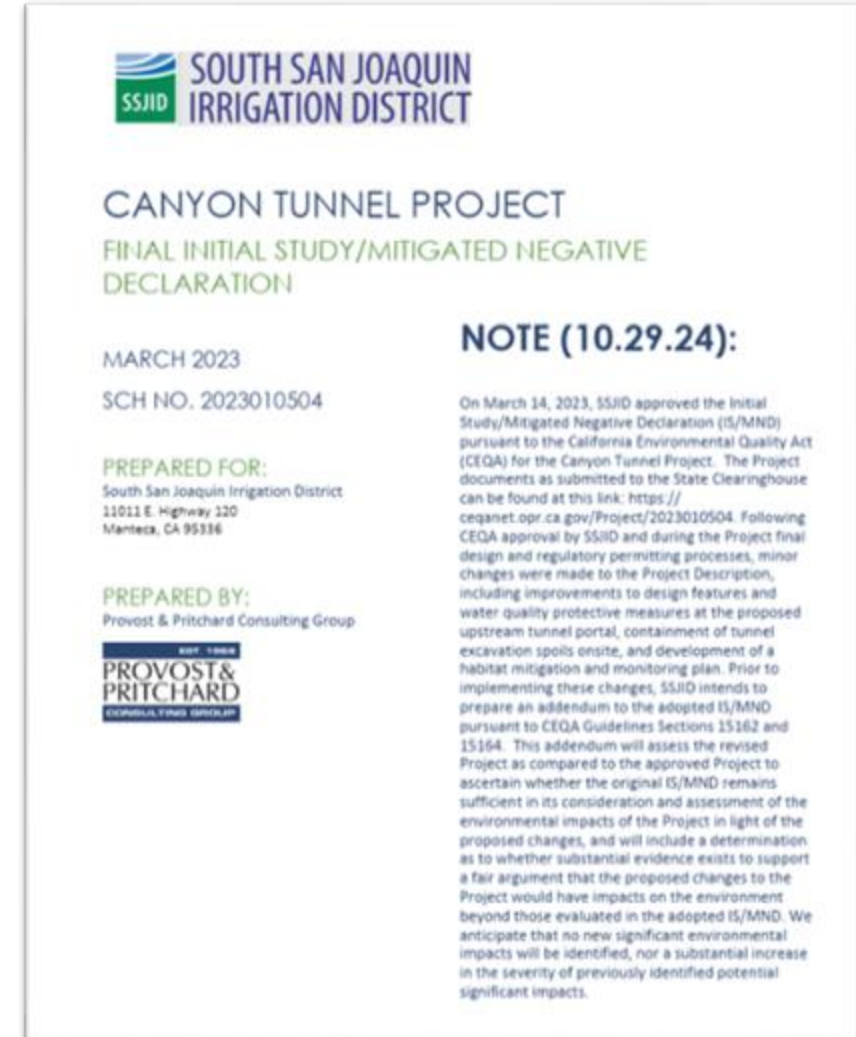
Canyon Tunnel CEQA Document

- 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

CEQA Process (Cont.)

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/>



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 April 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

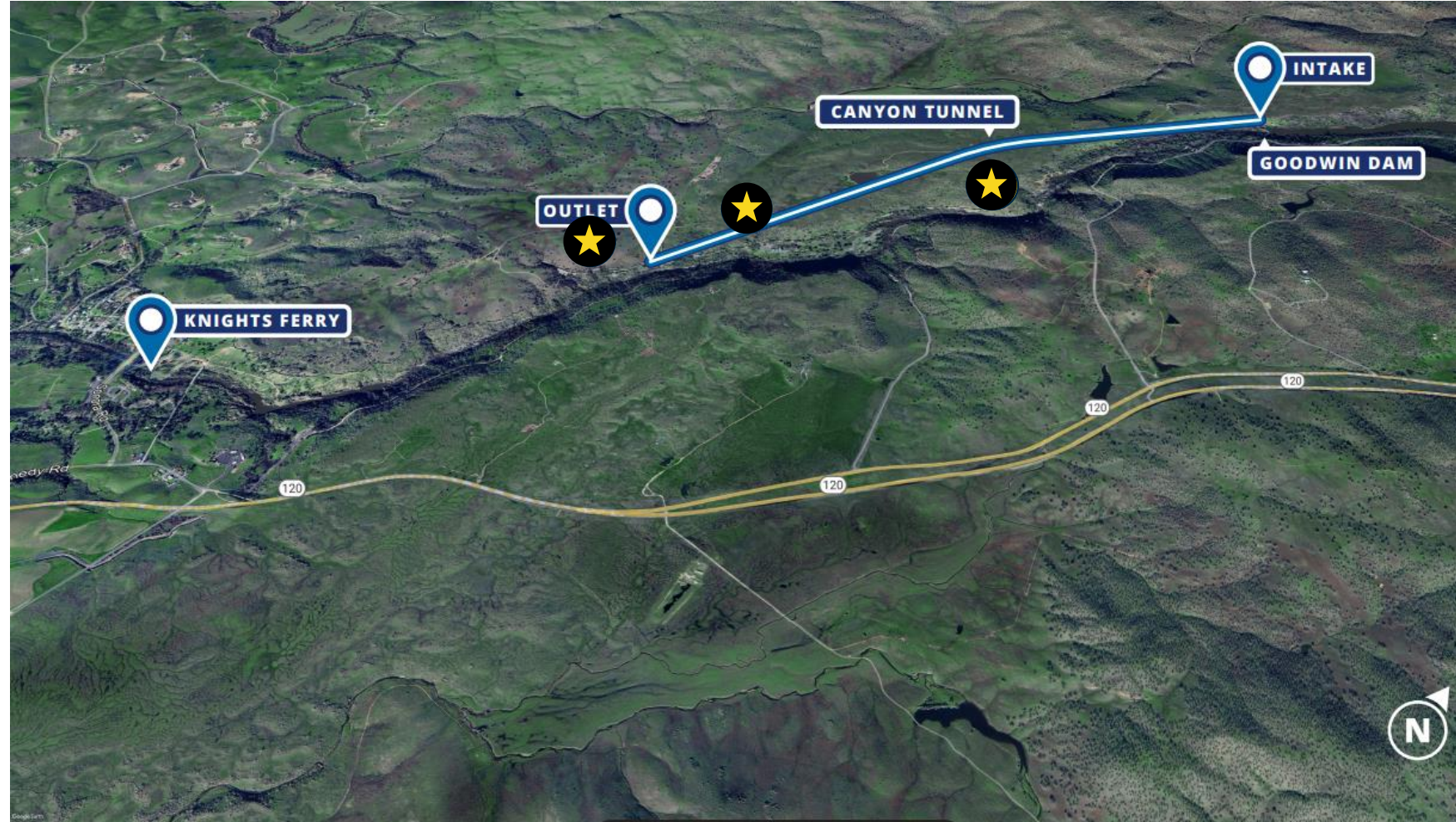


Project Elements

Tunnel Spoils

Tunnel Spoils

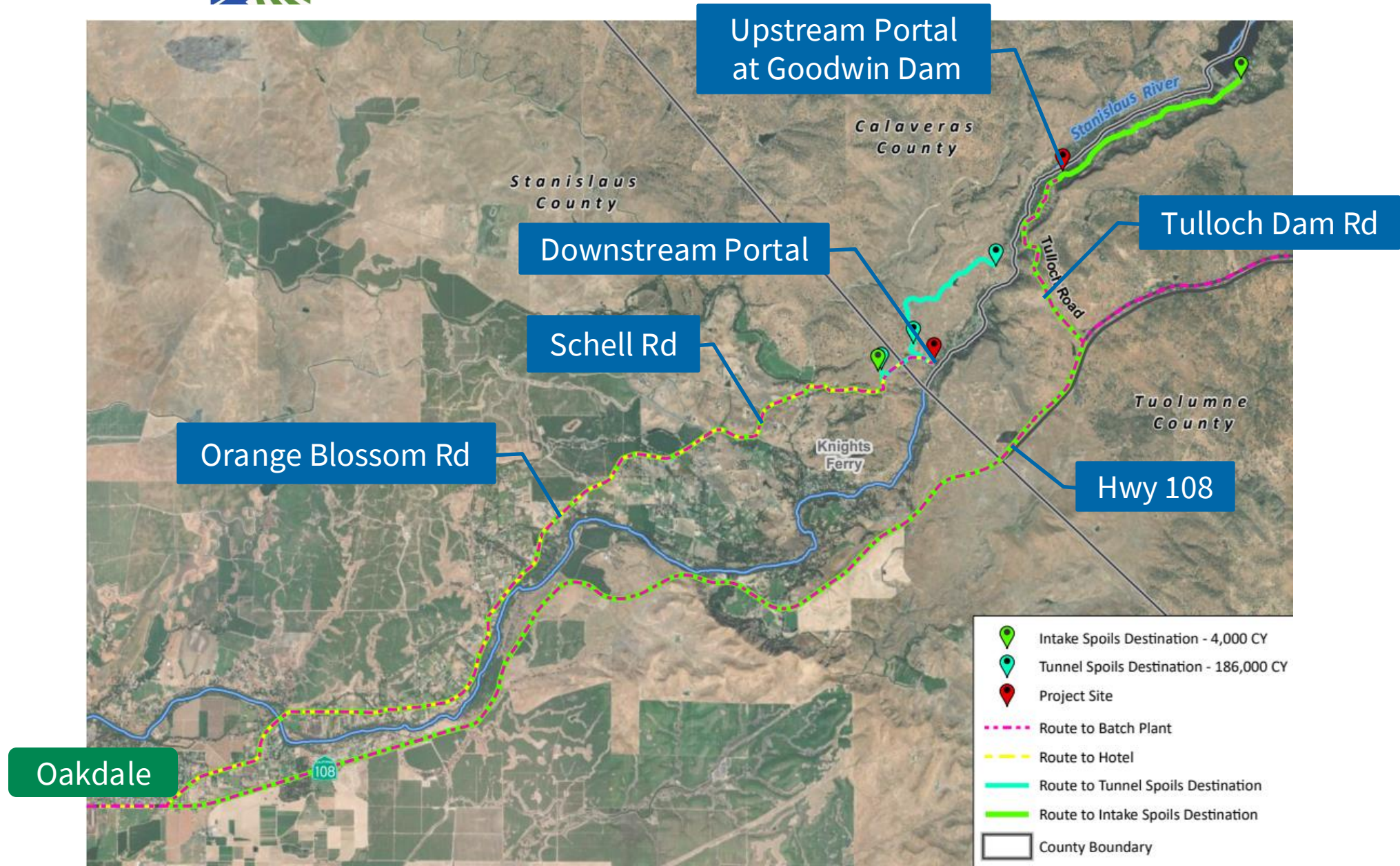
- 165,000 Loose Cubic Yards
- Spoils will be deposited on one, or all, of the three sites shown
- Primary reason for CEQA Addendum



Spoils Disposal Site Options



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 (Pending Issuance)
- 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)



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

Engagement Stations



**CANYON TUNNEL
PROJECT**



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