

Hwy 101 Sewer Main Relocation Status Update

August 26, 2021

Work Completed to Date

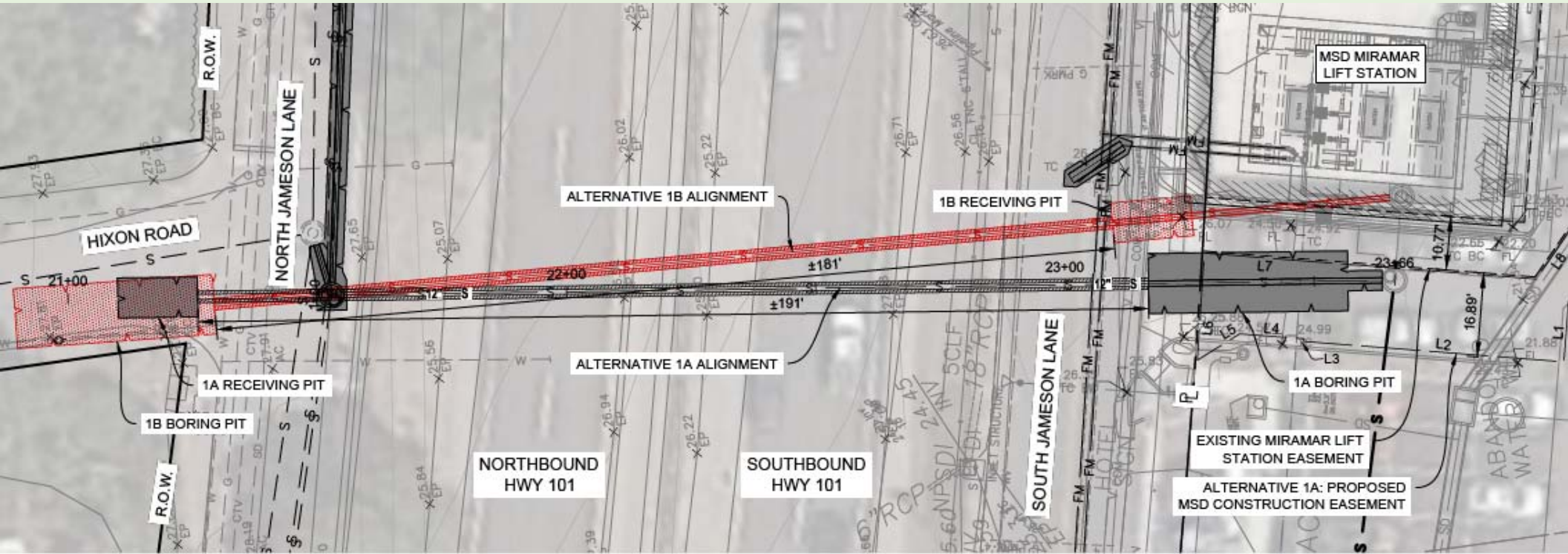
Preliminary Design Work

- Survey – complete for Alignment 1
- Geotechnical Investigation – 2 of 3 borings completed
- Miramar Lift Station Capacity Tech Memo – Draft Review, Final expected in September
- Crossing Alignment Alternatives Exhibits – completed

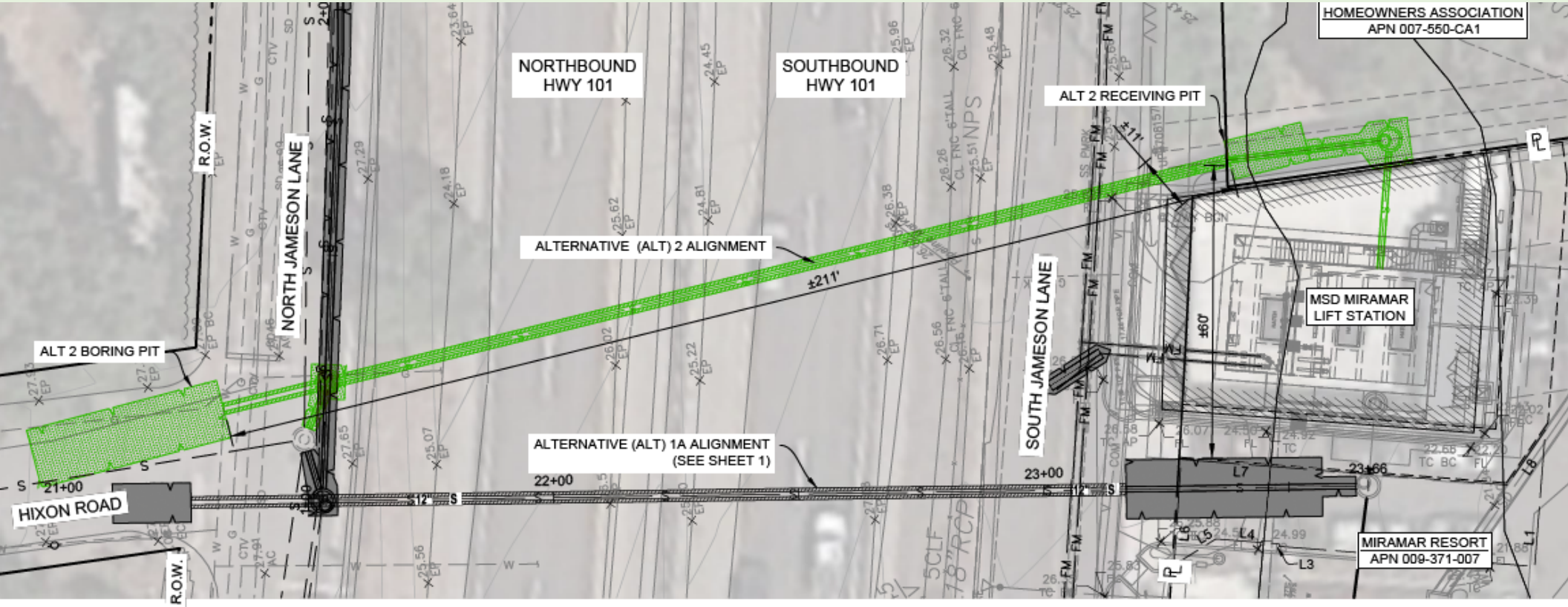
Stakeholder Outreach

- MSD Staff met with Miramar Resort Team on July 29th
- Discussed Alternatives with Caltrans Coordinators on August 10th

Alternative 1



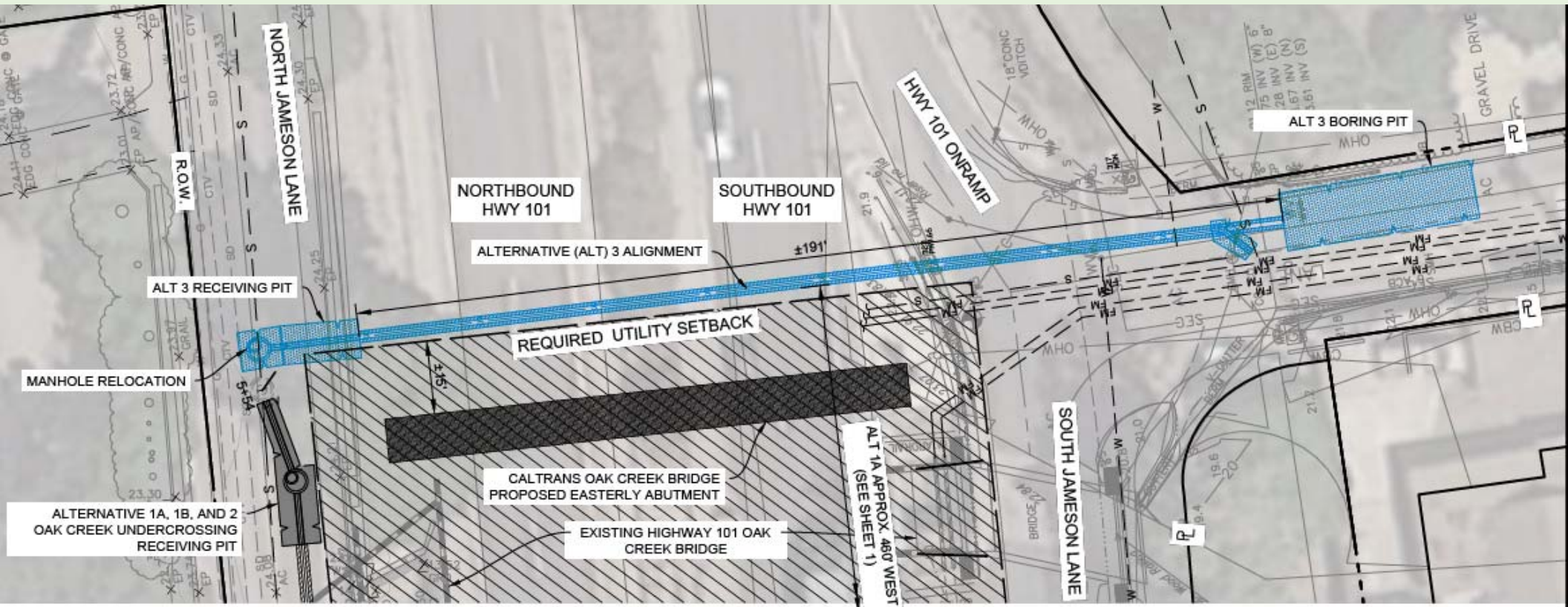
Alternative 2



HOMEOWNERS ASSOCIATION
APN 007-550-CA1

MIRAMAR RESORT
APN 009-371-007

Alternative 3



Proposed Alternatives

Alternative	Opportunities	Challenges
<p>Alternative 1 - 12" Sewer Main at Hixon Road, entering Miramar Lift Station from Resort side (west)</p>	<ul style="list-style-type: none"> • Flow is redirected from Posilipo Lift Station and minimizes low flow and odor issues at Miramar Lift Station • Construction at Hixon Road is within County Right-of-Way (ROW) and work on south side Hwy 101 is off S. Jameson roadway 	<ul style="list-style-type: none"> • Requires real property acquisition for new permanent easement in Miramar parcel and acquisition of manhole/pipeline in the secondary valet driveway (cost and schedule) • Construction and long term operation coordination with Miramar Staff
<p>Alternative 2 - 12" Sewer Main at Hixon Road, entering Miramar Lift Station from HOA (east)</p>	<ul style="list-style-type: none"> • Flow is redirected from Posilipo Lift Station and minimizes low flow and odor issues at Miramar Lift Station • Construction at Hixon Road is within County Right-of-Way (ROW) 	<ul style="list-style-type: none"> • Requires real property acquisition for new permanent easement on neighboring Homeowners Association (HOA) property (cost and schedule) • Construction will require coordination third parties - SCE, HOA (schedule) • Will still require coordination with Miramar Resort to get equipment down to worksite through the secondary valet driveway and parking lot (schedule) • Angle of approach for relocated sewer main may require additional Caltrans approval • Location of manhole adjacent to lift station will be difficult for future operation and maintenance • Unclear if design can be completed within Flowers & Associates contract amount (schedule and cost)
<p>Alternative 3 - 12" Sewer Main Crossing Hwy 101 at Posilipo Lane, outside of Caltrans Setback</p>	<ul style="list-style-type: none"> • Can be constructed from County ROW to County ROW, which limits third-party involvement (schedule) • All new District assets located in County ROW 	<ul style="list-style-type: none"> • WW flows and future sewer main extensions will directly impact Posilipo Lift Station and will require future capacity improvements for Posilipo lift station and forcemains (cost) • Missing opportunity to reduce low flow issues at Miramar Lift Station which will leave higher operation and maintenance level of effort (cost) • Coordination with homeowners near receiving pit • Not scoped within existing Flowers & Associates contract (schedule and cost)

Draft Technical Memo- Miramar Lift Station

- Per the basis of design KEH report:
 - The total daily average wastewater generation for the project was expected to be **52,474 gallons per day**
 - Estimated basin volume was calculated to be **103,200 gallons (to contain the peak flow of 430 GPM for 4 hours)**
- From February 2019 - June 2021, Miramar's total daily average flow is **21,900 gallons** with an observed instantaneous peak (daily maximum) of **49,700 gallons**.

Project Milestones

Future Project Schedule

- Alignment selection and real property preliminary approvals by October 4, 2021
- 65% Relocation and abandonment plans, and relocation construction schedule – due to Caltrans by December 31, 2021
- 100% Relocation and Abandonment Plans – due to Caltrans March 31, 2022
- Real Property Final Negotiations (if necessary) – End of 2022
- Permitting – Winter 2022
- Bidding Project – Spring 2022
- Sewer Main Relocation Construction completed and existing utilities abandoned by February 2023