



NEWHOPE PLACENTIA TRUNK SEWER REPLACEMENT, SEGMENT B and C, PROJECT NO. 2-72B & 2-72C

Construction Contract Contingency


Presented by:
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Operations
Committee
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Newhope-Placentia Trunk



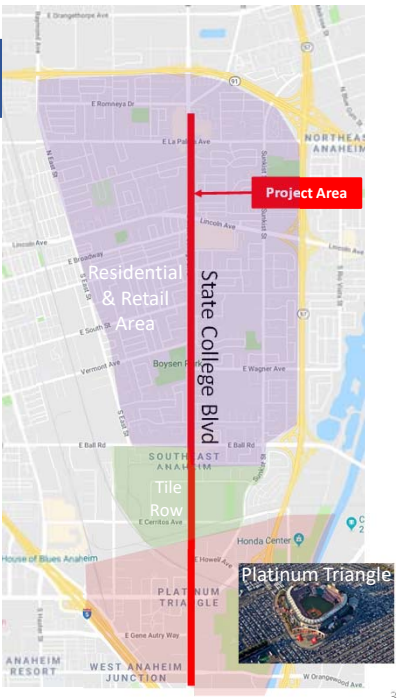
- Fullerton Rolling Hills Sub-Trunk Contract 2-72C** (Red callout)
- Fullerton & Anaheim Contract 2-72A (2+ miles) (Complete)** (Green callout)
- Anaheim Contract 2-72B** (Red callout)
- Demolish Yorba Linda Pump Station (Future Project)** (Yellow callout)
- Contract 2-65 Grade Separation (Complete)** (Blue callout)

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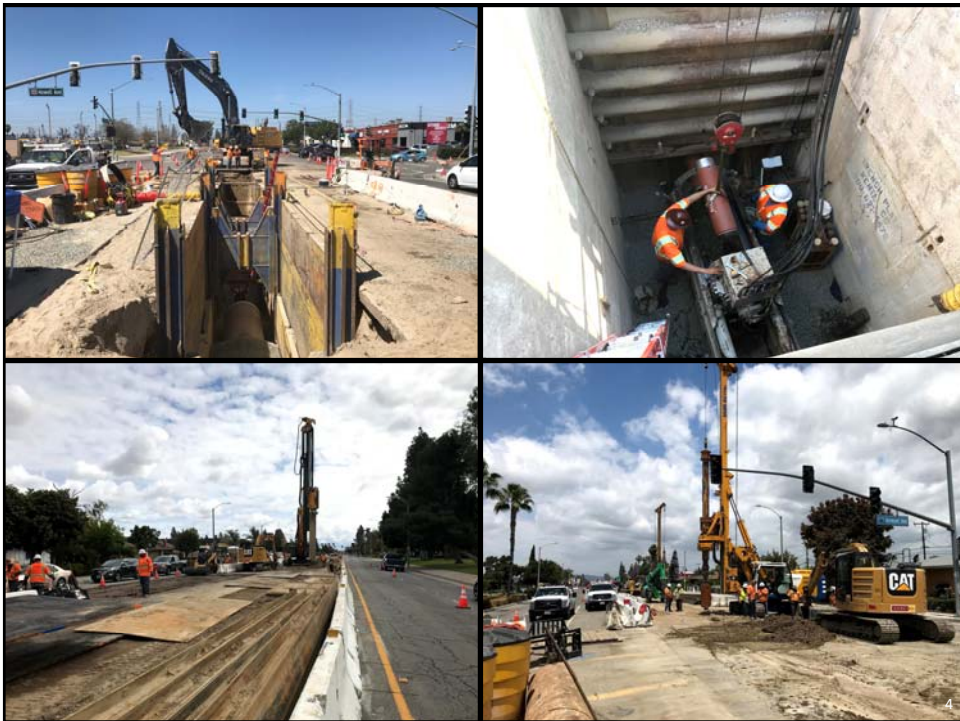
Project Details

- Approx. 4 miles of pipe
- Work for City of Anaheim
 - Waterline replacements
 - Misc. sewer upgrades
 - Transfer 2 miles of existing line for City use
- Tie-in to 2-72A Project
- Rolling Hills Sub-Trunk Sewer Rehabilitation



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Project Challenges

- Deep excavations
- Bypass pumping
- Unknown utilities
 - ✓ Impact to work in busy intersections
 - ✓ Shoring revisions



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Project Challenges

- Traffic control sequencing
 - ✓ Sensitive areas
 - ✓ Night work
 - ✓ Limited work windows
 - ✓ Adjacent projects



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Project Challenges

- Restoration Impacts
 - ✓ Many contributing factors
 - ✓ Increase in restoration scope
 - ✓ Disputed work



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Project Successes - Trenchless Segments

Successful Jack & Bore Sections:

- ✓ Katella Ave
- ✓ SCRRRA Railroad
- ✓ UPRR Railroad & Cerritos Ave
- ✓ Ball Road



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Project Successes

- Community Outreach
 - ✓ Community Meetings
 - ✓ Helped businesses with signage
 - ✓ Scheduled around Community Input
- Collaboration with Anaheim
 - ✓ Water Line work
 - ✓ Mitigating impacts
- No-Dig Conference Presentation
- Working through COVID-19

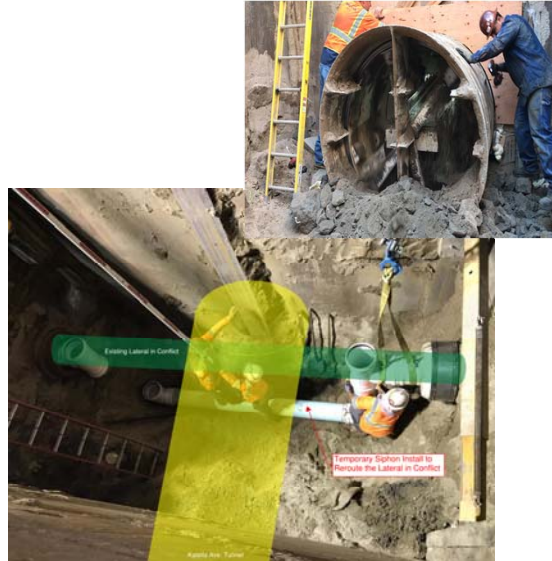


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Change Mitigation – Katella Intersection

- Busy intersection
- Conflict with existing City sewer line
- Implemented same day solution with siphon
- Mitigated boring rescue, redesign and schedule impacts



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Change Mitigation – Orangewood

- Busy intersection
- Conflict with Fiber Optic encasement
- Worked with AT&T to chip away encasement to allow sewer pipe installation
- Mitigated sewer redesign and schedule impacts



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Schedule

Description	Original Date	Actual / Forecasted Date
Platinum Triangle	Mar 2019	July 2020
Substantial Completion: Field work complete	Dec 2020	<i>July 2021</i>
Final Completion: Punchlist and closeout	Feb 2021	<i>Sept 2021</i>


- Seven months behind schedule
- Schedule impacts due to:
 - ✓ Unknown conditions (utilities)
 - ✓ Traffic control and work hour changes
 - ✓ Contractor productivity

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Current Project Status

- Currently 90% complete
- Remaining field work
 - ✓ 4 Lateral connections
 - ✓ Roadway restoration, 2 miles
 - ✓ Median & landscaping restoration, 1.5 miles
 - ✓ 2-72A tie-in @ SR91
 - ✓ Rolling Hills Sub-Trunk Sewer



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Type of Change Orders to Date

Type of Change	Amount
Unknown Utility Conflicts	\$1,089,125
City Inspection Fees & Waterline Changes	\$886,240
Design Modifications	\$460,554
Paving Changes	\$342,874
Unforeseen Obstructions & Existing Utility Repairs	\$294,216
Traffic Control Changes & Work Resequencing	\$118,112
TOTAL	\$3,191,121

- Additional contingency needs:
 - Known changes and conflicts, not yet negotiated
 - Risks related to work not yet complete
- Potential future needs:
 - Dispute resolution of Contractor Change Requests

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Contingency Forecast

Additional Contingency Requirements	Amount	Percent
Paving & Landscape Restoration Costs	\$300,000	0.5%
Open Changes Pending Negotiation	\$1,460,000	2.5%
Potential Changes on Remaining Field Work	\$278,470	0.5%
Forecasted Contingency Need	\$2,038,470	3.5%

Contract Status	Amount	Percent
Original Contract	\$58,242,000	
Original Contingency Amount	\$3,785,730	6.50%
Forecasted Contingency Need	\$2,038,470	3.50%
Total Contingency Requested	\$5,824,200	10.00%

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Project
Budget

- Project budget is \$112,000,000
- Budget is sufficient for this action
- Dispute resolution process related to Contractor Change Requests
 - ✓ Disputed work
 - ✓ Pavement restoration areas
 - ✓ Delays and associated costs

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Recommended Action

Recommend to the Board of Directors to:

Approve a contingency increase of \$2,038,470 (3.5%) to the construction contract with Group OHL USA, Inc. for Newhope-Placentia Trunk Sewer Replacement, Contract Nos. 2-72B & 2-72C, for a total construction contingency of \$5,824,200 (10%).

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Questions?



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