



Orange County
Sanitation District
70th Anniversary

Los Alamitos Sub- Trunk and Westside Relief Interceptor Rehabilitation, Contract No. 3-64C

Presented by:

Marianne Kleine, Engineering Supervisor

Operations Committee

December 4, 2024

Construction Contract Award

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Reasons for the Project

Project Drivers:

- Capacity Deficiency
- Aged Infrastructure*
- Damaged Pipes
- Undersized Manholes
- Pipeline Infiltration



Calcium Deposits



Deteriorated Manholes

*Los Alamitos Sub-Trunk (built 1959) – 65 yrs old
Westside Relief Interceptor (built 1975) – 49 yrs old

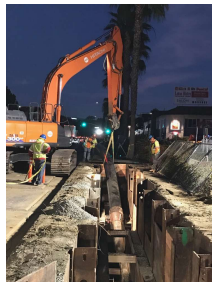
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Project Scope

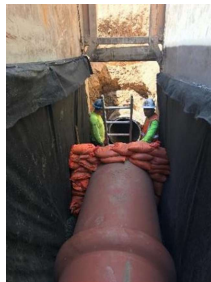
Pipeline		Manholes	
Open Cut	620 ft	Replacement	4
Pipe Bursting	4,500 ft	Rehabilitation	81
CIPP	120 ft	Abandonment	3
Grout Injection	15,400 ft	New Installation	11



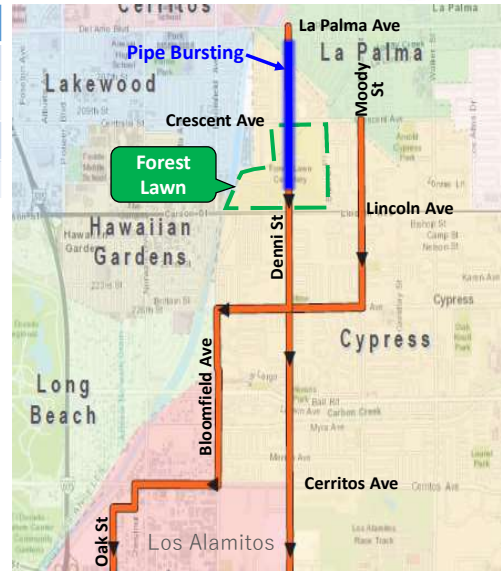
Manhole replacement



Pipe upsizing via pipe bursting



Pipe replacement via open cut



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Work in Forest Lawn Cemetery

- Pipe Bursting, Open Cut, and New Manholes
- Night work
- May to November
- Existing 15-foot wide easement



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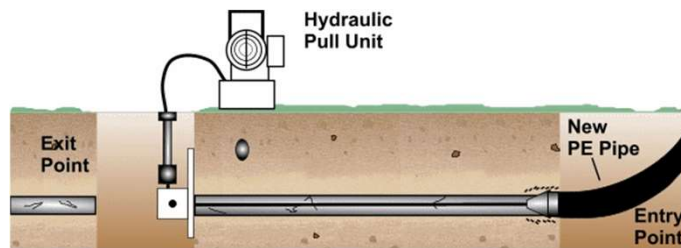
Pipe Construction Methods



Open Cut
Replacement
620 ft



Pipe Bursting
4,500 ft



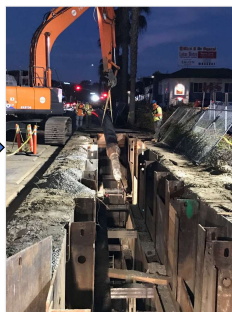
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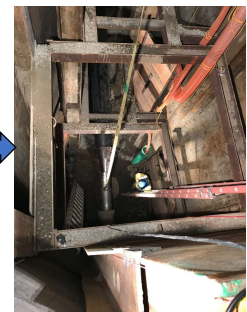
Pipe Bursting Photos



Trench Shoring



New Pipe Prepared for Installation



Pipe Bursting

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Bid Results



Engineer's Estimate	\$ 27,200,000
Bidder	Amount of Bid
T.E. Roberts, Inc.	\$ 35,320,572

- T.E. Roberts, Inc. bid is 30% higher than Engineer's Estimate.
- OC San met with and reviewed costs with T.E. Roberts, Inc. and performed cost analysis.
- Primary cost difference is in bypass pumping due to:
 - Longer pumping durations
 - Additional pump watch
 - Increased standby equipment to mitigate potential spill risk
- OC San updated the Engineer's Estimate — bid 4% higher than the revised Engineer's Estimate.

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Why Only One Bid?



- Pipe bursting bid experience requirements:
 - Supervised or self performed at least 2 projects with a public owner within the last 10 years with a minimum 12-inch diameter and length of 2,000 feet collectively for all projects
- Pre-bid survey: 4 bidders (one bidder dropped due to qualification requirements)
- OC San revisited qualification requirements and decided no change due to at least 3 potential bidders and experience concerns due to work near residential homes and within Forest Lawn Cemetery
- Post-bid survey: 2 bidders could not meet pipe bursting qualification requirements



Pipe bursting through residential streets and Forest Lawn Cemetery

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Project Budget Increase Request



Current project budget insufficient to cover award and construction contingency amount

Subject	Amount
Current Project Budget	\$94,000,000
Total Requested Project Budget	\$96,300,000

Total Project Budget Increase Request = \$2,300,000
(Project includes Contract Nos. 3-64A, 3-64B, and 3-64C)

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Recommendation



Recommend to the Board of Directors to:

- A. Receive and file Bid Tabulation and Recommendation for Los Alamitos Sub-Trunk and Westside Relief Interceptor Rehabilitation, Contract No. 3-64C as part of the Rehabilitation of Western Regional Sewers, Project No. 3-64;
- B. Approve a project budget increase of \$2,300,000 for Rehabilitation of Western Regional Sewers, Project No. 3-64, for a new total project budget of \$96,300,000;
- C. Award a Construction Contract Agreement to T. E. Roberts, Inc. for Los Alamitos Sub-Trunk and Westside Relief Interceptor Rehabilitation, Contract No. 3-64C, for a total amount not to exceed \$35,320,572; and
- D. Approve a construction contract agreement contingency of \$3,532,057 (10%).

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