

Cost Estimate to Replace 30" Diameter Pipe with Two # 24" Diameter HDPE Pipe for the Barton Pump Station Forcemain

Mobilization

- Including Crew and Equipment	\$220,000
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Forcemain Beach to Discharge Structure - 5000 Feet

- Install Soldier Pile Shoring	\$100,000
- Excavate Pits for Slip Lining	\$100,000
- Fuse 24" HDPE Pipe	\$600,000
- Install 24" HDPE into 30" Existing Pipe	\$625,000
- Testing New Slip Lined Pipe	\$20,000
- Grouting Pipe Annulus Between 24" and 30" Diameter Pipe	\$50,000
- Excavate - Provide & Install 24" HDPE	<u>\$1,000,000</u>
Subtotal	\$2,495,000

Forcemain to Lincoln Park

- Excavate and Install Twin 24" PVC Pipe	\$300,000
- Install Shoring to Barton Pump Station	\$100,000
- Excavate Cell at Pump Station	\$50,000
- Install Valving and Connection to Pump Station	<u>\$75,000</u>
Subtotal	\$525,000

Final Connections & Cured In Place Pipe (CIPP)

- Excavate and Shore for New Discharge Structure	\$20,000
- Pour Base Slab, Walls and Roof of New Discharge Structure	\$30,000
- Preinspection and Cleaning for CIPP	\$10,000
- Install 18" HDPE Bypass	\$30,000
- Install 42" CIPP	\$200,000
- Reinstate Service/Remove Bypass	\$10,000
- Install Linabond	<u>\$20,000</u>
Subtotal	\$320,000

<u>Surface Restoration - Including Paving, Planting & Mitigation</u>	\$400,000
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GRAND TOTAL	\$3,960,000
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