

ESTIMATE

Date: 03/02/23
Applicant: City of Wylie, Tx
Location: Wylie, Tx
Dot #: 789654P
Asset #: BP-939050

Mile Post: 200.02 Greenville Subdivision
Road Name: Eubanks Lane

Project Summary:

Install (2) 81.25' concrete crossing, new filter fabric, new ballast, new drainage pipes and extension of existing hardpan for the road widening project

All items may or may not be used. If not, the final billing will reflect actual quantities.

THIS IS AN ESTIMATE OF COST, THE INDIVIDUAL PRICES AND FINAL BILL MAY VARY, BUT THE FINAL BILLING WILL REFLECT ACTUAL DOCUMENTABLE PRICES.

Estimated Project Cost

\$493,722

Grading - Subgrade Preparation

(1) Materials

| | | |
|-----------------------------|--|------------------|
| 175 | Net Tons - Asphalt for Filler | |
| | \$150.00 per Net Ton | \$26,250 |
| 200 | Net Tons - 12" Asphalt Subbase for extension | |
| | \$150.00 per Net Ton | \$30,000 |
| 500 | Net Tons - Ballast Material | |
| | \$95.00 per Net Ton | \$47,500 |
| Total Materials Cost | | \$103,750 |

(2) Contractor Labor and Equipment

| | | |
|-----|---|----------|
| 84 | Hours - 3 Trackhoes with Operators | |
| | \$125.00 per Hour | \$31,500 |
| 84 | Hours - Dump Truck with Operator | |
| | \$90.00 per Hour | \$7,560 |
| 84 | Hours - Dozer with Operator | |
| | \$90.00 per Hour | \$7,560 |
| 84 | Hours - Asphalt Steel Wheel Roller | |
| | \$75.00 per Hour | \$6,300 |
| 48 | Hours - Saw Cut Machine | |
| | \$75.00 per Hour | \$3,600 |
| 48 | Hours - Asphalt Milling Machine | |
| | \$85.00 per Hour | \$4,080 |
| 48 | Hours - Asphalt Laydown Machine | |
| | \$150.00 per Hour | \$7,200 |
| 324 | Man Hours - Miscellaneous Labor | |
| | \$45.00 per Hour | \$14,580 |
| 84 | Man Hours - Flagging (Rail Pro) | |
| | \$130.00 per Hour | \$10,920 |
| 84 | Man Hours - Contract Recordkeeping & Completion Reports | |
| | \$50.00 per Hour | \$4,200 |
| 2 | Traffic Control Plan, Barricades, and Detouring | |
| | \$10,000.00 estimated | \$20,000 |
| 400 | Haul 80' Track Panel | |
| | \$13.00 estimated | \$5,200 |
| 700 | Mobilization In & Out | |
| | \$33.00 estimated | \$23,100 |
| 1 | Disposal of spoils | |
| | \$7,500.00 estimated | \$7,500 |

Total Contractor Cost

\$153,300

Crossing and Trackwork

(1) Materials

| | | |
|-------|---|----------|
| 162.5 | L.F. - Prefabricated Concrete Crossing Panel for 136lb Rail \$185.00 per L.F. | \$30,063 |
| 101 | Rubber Bearing Pads for Concrete Crossing Panel \$10.54 Ea. | \$1,065 |
| 4 | Ea. - 80' 136# Prefabricated Track Panel 10' Oak Ties on 19 1/2" centers \$14,250.00 Ea. | \$57,000 |
| 4 | Ea - Transition Rail 136RE/115 3/16 HL LH 20' with 1/4" head loss \$2,000.00 ea | \$8,000 |
| 4 | Ea - Transition Rail 136RE/115 3/16 HL RH 20' with 1/4" head loss \$2,000.00 ea | \$8,000 |
| 20 | Ea. - Plasma Welds \$955.00 | \$19,100 |
| 30 | Ea. - Oak Ties - 10' long \$49.75 Ea. | \$1,493 |
| 60 | Ea. - New 136 Tie Plates \$10.50 Ea. | \$630 |
| 300 | Ea. - Track Spikes \$0.45 Ea. | \$135 |
| 4800 | Sq. Ft. - Filter Fabric \$0.25 per Sq. Ft. | \$1,200 |
| 5 | % Freight and Handling of Materials | \$6,334 |
| 6 | % State and Use Tax on Materials | \$7,601 |

Total Materials Cost

\$140,621

(2) Labor

| | | |
|-------|---|----------|
| 80 | Project Management \$60.00 per Hour | \$4,800 |
| 252 | Man Hours to Remove Existing Crossing \$45.00 per Man Hour | \$11,340 |
| 252 | Man Hours to Reconstruct Track \$45.00 per Man Hour | \$11,340 |
| 252 | Man Hours to Install New Crossing \$45.00 per Man Hour | \$11,340 |
| 10.55 | % Vacation and Holidays | \$4,096 |
| 18.31 | % Health and Welfare | \$7,108 |
| 26.73 | % Railroad Retirement and Unemployment | \$11,471 |
| 1.95 | % Supplemental Pension | \$837 |
| 12.5 | % Railroad Public Liability Insurance | \$4,853 |

Total Labor Cost

\$67,184

(3) Equipment

| | | |
|---|--|----------|
| 6 | Days - 2 Heavy Duty Drills \$25.00 per Day | \$300 |
| 6 | Days - 2 Impact Wrenches \$25.00 per Day | \$300 |
| 6 | Days - 2 Air Compressors \$65.00 per Day | \$780 |
| 6 | Day - Automatic Tamper with Operator \$2,500.00 per Day | \$15,000 |

| | | | |
|-----------------------------|--|---------|-----------------|
| 6 | Day - Ballast Regulator with Operator | | |
| | \$1,040.00 per Day | \$6,240 | |
| 84 | Hours - Section Truck with Rail Units | | |
| | \$25.33 per Hour | \$2,128 | |
| 84 | Hours - Roadmaster Truck with Rail Units | | |
| | \$12.61 per Hour | \$1,059 | |
| 48 | Hours - Welding Truck with Rail Units | | |
| | \$63.75 per Hour | \$3,060 | |
| Total Equipment Cost | | | \$28,867 |

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|-------------------------------------|------------------|
| Estimated total project cost | \$493,722 |
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