

Appendix I

- **Conceptual Project Construction Cost Summary**

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East Aberdeen Mobility Project
Conceptual Estimate Summary

Prepared: Dec. 2014



| | Alternative A - Heron St. Flyover | | | | Alternative B - Benn St. Texas-T | | | | Alternative C - Chehalis St. Overcrossing | | | |
|---|---|----------------------------------|------------------------|-------|--|----------------------------------|----------------------|--|--|----------------------------------|----------------------|--|
| | Concept 10 | | | | Concept 3 | | | | Concept 2A | | | |
| | One Round About on US 12 with Approach Retaining Walls and Bridge over Eastbound US 12 and Railroad | | | | Two Roundabouts on US 12 with Approach Fills and Texas-T Interchange with Bridge over Railroad | | | | One Roundabout on US 12 with Approach Retaining Walls and Bridge over US 12 and Railroad | | | |
| | Cost 2014 Dollars | Allocated Design Contingency 30% | Construction Cost | | Cost 2014 Dollars | Allocated Design Contingency 30% | Construction Cost | | Cost 2014 Dollars | Allocated Design Contingency 30% | Construction Cost | |
| Construction Bid Elements | | | | | | | | | | | | |
| Mobilization | \$864,837 | \$ 259,451 | \$ 1,124,288 | | \$910,087 | \$ 273,026 | \$ 1,183,113 | | \$789,343 | \$ 236,803 | \$ 1,026,146 | |
| Preparation | \$2,360 | \$ 708 | \$ 3,068 | | \$2,360 | \$ 708 | \$ 3,068 | | \$1,180 | \$ 354 | \$ 1,534 | |
| Grading | \$96,000 | \$ 28,800 | \$ 124,800 | | \$124,000 | \$ 37,200 | \$ 161,200 | | \$57,000 | \$ 17,100 | \$ 74,100 | |
| Drainage | \$0 | \$ - | \$ - | | \$0 | \$ - | \$ - | | \$0 | \$ - | \$ - | |
| Storm Sewer | \$408,450 | \$ 122,535 | \$ 530,985 | | \$382,950 | \$ 114,885 | \$ 497,835 | | \$261,850 | \$ 78,555 | \$ 340,405 | |
| Sanitary Sewer | \$200,000 | \$ 60,000 | \$ 260,000 | | \$200,000 | \$ 60,000 | \$ 260,000 | | \$200,000 | \$ 60,000 | \$ 260,000 | |
| Water Main | \$200,000 | \$ 60,000 | \$ 260,000 | | \$200,000 | \$ 60,000 | \$ 260,000 | | \$200,000 | \$ 60,000 | \$ 260,000 | |
| Structures | \$5,532,210 | \$ 1,659,663 | \$ 7,191,873 | | \$5,361,110 | \$ 1,608,333 | \$ 6,969,443 | | \$5,111,600 | \$ 1,533,480 | \$ 6,645,080 | |
| Surfacing | \$62,400 | \$ 18,720 | \$ 81,120 | | \$84,800 | \$ 25,440 | \$ 110,240 | | \$33,600 | \$ 10,080 | \$ 43,680 | |
| Hot Mix Asphalt | \$344,000 | \$ 103,200 | \$ 447,200 | | \$472,000 | \$ 141,600 | \$ 613,600 | | \$184,000 | \$ 55,200 | \$ 239,200 | |
| Erosion Control and Roadside Restoration | \$31,500 | \$ 9,450 | \$ 40,950 | | \$34,500 | \$ 10,350 | \$ 44,850 | | \$27,000 | \$ 8,100 | \$ 35,100 | |
| Traffic | \$621,450 | \$ 186,435 | \$ 807,885 | | \$589,150 | \$ 176,745 | \$ 765,895 | | \$477,200 | \$ 143,160 | \$ 620,360 | |
| Other Items | \$1,050,000 | \$ 315,000 | \$ 1,365,000 | | \$1,550,000 | \$ 465,000 | \$ 2,015,000 | | \$1,190,000 | \$ 357,000 | \$ 1,547,000 | |
| Landscaping | \$100,000 | \$ 30,000 | \$ 130,000 | | \$100,000 | \$ 30,000 | \$ 130,000 | | \$150,000 | \$ 45,000 | \$ 195,000 | |
| Subtotal: | \$9,513,207 | \$ 2,853,962 | \$12,367,169 | | \$10,010,957 | \$ 3,003,287 | \$ 13,014,244 | | \$8,682,773 | \$ 2,604,832 | \$ 11,287,605 | |
| Wash. Sales/Use Tax (Mat. Only) | \$451,877 | \$ 135,563 | \$587,441 | 4.75% | \$475,520 | \$ 142,656 | \$618,177 | | \$412,432 | \$ 123,730 | \$536,161 | |
| Construction Bid Elements Total | \$9,965,084 | \$ 2,989,525 | \$12,954,610 | | \$10,486,477 | \$ 3,145,943 | \$13,632,421 | | \$9,095,205 | \$ 2,728,561 | \$11,823,766 | |
| Placeholder Costs: | | | | | | | | | | | | |
| 3rd Party Utility Relocations | \$300,000 | \$ 90,000 | \$ 390,000 | | \$300,000 | \$ 90,000 | \$ 390,000 | | \$500,000 | \$ 150,000 | \$ 650,000 | |
| Right-of-Way Acquisition, Damages, & Relocation | \$2,500,000 | \$ 750,000 | \$ 3,250,000 | | \$3,200,000 | \$ 960,000 | \$ 4,160,000 | | \$2,700,000 | \$ 810,000 | \$ 3,510,000 | |
| Environmental Mitigation | \$0 | \$ - | \$ - | | \$0 | \$ - | \$ - | | \$0 | \$ - | \$ - | |
| Placeholder Costs Total | \$2,800,000 | \$ 840,000 | \$3,640,000 | | \$3,500,000 | \$ 1,050,000 | \$4,550,000 | | \$3,200,000 | \$ 960,000 | \$4,160,000 | |
| Total Construction Cost | \$ 12,765,084 | \$ 3,829,525 | \$ 16,594,610 | | \$ 13,986,477 | \$ 4,195,943 | \$ 18,182,421 | | \$ 12,295,205 | \$ 3,688,561 | \$ 15,983,766 | |
| Cost Range: | | | \$16.5M-\$18.5M | | | | \$18M-\$20M | | | | \$16M-\$18M | |

- Notes:**
- 3rd Party Utilities include relocations of telecommunications, natural gas and electric utilities.
 - No costs associated with engineering, construction administration and other program costs are included in this estimate.

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