I-244 / Arkansas River Multi-Modal Bridge

Preliminary Engineering Conceptual Engineering Studies and Report Functional Plans LRT Track and Bridge Design Criteria Report		\$240,000
Environmental Studies & NEPA Documentation		\$50,000
Final Engineering Survey Hydraulics Geotechnical Investigations Construction Plans for R/W Submission Final Design Final PS&E		\$3,855,000
Acquisition of Additional R/W		\$250,000
Construction South Bound Bridge North Bound Bridge Track Work & Bicycle/Pedestrian Improvements	\$68,318,000 \$41,434,000 \$10,602,000	\$120,354,000
Construction Management South Bound Bridge North Bound Bridge Track Work & Bicycle/Pedestrian Improvements	\$4,099,000 . \$2,486,000 \$636,000	\$7,221,000

Total Project Cost

\$131,970,000

Phase 1 - Southbound Construction Summary

TOTAL PHASE 1

Construction Cost

\$68,318,240

Grading Drainage Base and Surfacing	\$1,079,600 \$635,000 \$1,278,000
Bridge (Total)	\$46,627,800
Roadway Structures Transit Rail Structures	\$38,758,800 \$5,724,200
Bicycle / Pedestrian Bridge	\$2,144,800
Retaining Walls Roadside Safety	\$1,997,000 \$485,800
Signing and Striping	\$231,340
Miscellaneous	\$1,886,200
SUBTOTAL PHASE 1	\$54,220,740
MOBILIZATION (5%)	\$2,711,100
CONTINGENCY (20%)	\$11,386,400

Excavation CY \$8.00 44000 \$352,000 Embankment CY \$10.00 19000 \$190,000 \$190,000 \$190,000 \$190,000 \$190,000 \$190,000 \$190,000 \$190,000 \$190,000 \$190,000 \$100,0	Phase 1 - Southbound Construction (Roadway Only) Southbound Main Lanes	Unit	Unit Price	# Units	Construction Cost
Part	Excavation	CY	\$8.00	44000	\$352,000
Inlets	Embankment	CY	\$10.00	19000	\$190,000
Storm Sewer LF \$100.00 2000 \$200,000 Culverts LF \$100.00 1000 \$100,0	Grading				\$542,000
Culverts LF \$100,00 \$100,000 Drainage LANE-MILE \$900,000,00 0.92 \$2828,000 Base and Surfacing LANE-MILE \$900,000,00 0.92 \$2828,000 Slopewall (4") SY \$40,00 2000 \$80,000 Retaining Walls (MSE) SF \$75.00 8000 \$600,000 Retaining Walls LF \$25.00 1200 \$300,000 Guardrail LF \$25.00 1200 \$300,000 Bridge End Sections EA \$3,000.00 4 \$8,000 Barrier w/ Coping LF \$160.00 1130 \$180,800 Barrier w/ Coping LF \$160.00 350 \$45,500 Median Barrier LF \$160.00 350 \$45,500 Roadside Safety F \$150.00 350 \$45,500 Overhead Signing EA \$60,000.00 1 \$60,000 Cantilever Signing EA \$50,000.00 3 \$890,000 Pane S	Inlets	EA	\$5,000.00	20	\$100,000
Drainage LANE-MILE \$900,000.00 0.92 \$2828,000 Base and Surfacing SIOpewall (4") SY \$40.00 2000 \$800,000 Retaining Walls (MSE) SY \$40.00 2000 \$800,000 Retaining Walls F \$75.00 1000 \$300,000 Burderall LF \$25.00 1200 \$300,000 Bridge End Sections EA \$30,000.00 4 \$80,000 Barrier w/ Coping LF \$130.00 350 \$45,500 Median Barrier LF \$130.00 350 \$45,500 Roadside Safety LF \$130.00 350 \$45,500 Cantilever Signing EA \$30,000.00 1 \$60,000 Cantilever Signing EA \$30,000.00 3 \$99,000 Sheet Signing EA \$5,000.00 3 \$99,000 Pavement Markings LF \$15.00 \$20,000 Meditional MOT LS \$1.00 \$100,000 Messa	Storm Sewer	LF	\$100.00	2000	\$200,000
Base and Surfacing LANE-MILE \$900,000.00 0.92 \$282,000 Base and Surfacing \$28 \$40.00 2000 \$800,000 Retaining Walls (MSE) \$F \$75.00 8000 \$600,000 Retaining Walls LF \$525.00 1200 \$680,000 End Terminals EA \$2,000.00 4 \$8,000 Bridge End Sections EA \$3,000.00 4 \$120,000 Barrier w/ Coping LF \$130.00 350 \$45,500 Median Barrier LF \$130.00 350 \$45,500 Roadside Safety EA \$30,000.00 1 \$60,000 Cantilever Signing EA \$60,000.00 1 \$60,000 Cantilever Signing EA \$30,000.00 3 \$90,000 Panel Signing EA \$5,000.00 3 \$90,000 Panel Signing EA \$5,000.00 3 \$90,000 Panel Signing EA \$5,000 6 \$30,000 \$0 <td>Culverts</td> <td>LF</td> <td>\$100.00</td> <td>1000</td> <td>\$100,000</td>	Culverts	LF	\$100.00	1000	\$100,000
Saze and Surfacing Siopewall (4") Sy \$40.00 2000 \$80.000 Retaining Walls (MSE) SF \$75.00 8000 \$600,	Drainage				\$400,000
Slopewall (4") SY \$40.00 2000 \$80,000 Retaining Walls (MSE) SF \$75.00 8000 \$600,000 \$600	Base and Surfacing	LANE-MILE	\$900,000.00	0.92	\$828,000
Retaining Walls (MSE) SF \$75.00 8000 \$600,000 Retaining Walls LF \$25.00 1200 \$30,000 End Terminals EA \$2,000.00 4 \$8,000 Bridge End Sections EA \$3,000.00 4 \$12,000 Barrier w/ Coping LF \$160.00 1130 \$180,800 Median Barrier LF \$130.00 350 \$45,500 Median Barrier LF \$130.00 350 \$45,500 Roadside Safety ***********************************	Base and Surfacing				\$828,000
Retaining Walls LF \$25.00 1200 \$30,000 End Terminals EA \$2,000.00 4 \$8,000 Bridge End Sections EA \$3,000.00 4 \$12,000 Barrier W/ Coping LF \$160.00 1130 \$180,800 Median Barrier LF \$130.00 350 \$45,500 Roadside Safety F \$130.00 350 \$45,500 Cantlever Signing EA \$60,000.00 1 \$60,000.00 Cantlever Signing EA \$30,000.00 3 \$99,000 Panel Signing EA \$50,000.00 6 \$30,000 Sheet Signing EA \$50,000.00 6 \$30,000 Sheet Signing SF \$15.00 120 \$1,800 Pawment Markings LF \$0.60 48000 \$28,800 Signing and Striping LF \$0.60 48000 \$28,800 Message Signs SD \$60.00 \$360,000 \$110,000 \$100,000 <td< td=""><td>Slopewall (4")</td><td>SY</td><td>\$40.00</td><td>2000</td><td>\$80,000</td></td<>	Slopewall (4")	SY	\$40.00	2000	\$80,000
Commitment	Retaining Walls (MSE)	SF	\$75.00	8000	\$600,000
End Terminals EA \$2,000.00 4 \$8,000 Bridge End Sections EA \$3,000.00 4 \$12,000 Barrier W/ Coping LF \$160.00 1130 \$180,800 Median Barrier LF \$130.00 350 \$45,500 New Figuria EA \$60,000.00 1 \$60,000 Cartilever Signing EA \$30,000.00 3 \$90,000 Panel Signing EA \$5,000.00 6 \$30,000 Pavement Markings LF \$0.60 48000 \$28,800 Signing and Striping LF \$0.60 48000 \$28,800 Signing and Striping LF \$0.60 48000 \$28,800 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 6000 \$240,000 Temp Signing LF \$1.00 250,000 \$250,000 <td>Retaining Walls</td> <td></td> <td></td> <td></td> <td>\$680,000</td>	Retaining Walls				\$680,000
Bridge End Sections EA \$3,000.00 4 \$12,000 Barrier w/ Coping LF \$160.00 1130 \$180,800 Median Barrier LF \$130.00 350 \$45,500 Sociation Sarrier FA \$130.00 30 \$45,500 Overhead Signing EA \$60,000.00 1 \$60,000 Cantilever Signing EA \$50,000.00 3 \$90,000 Panel Signing EA \$5,000.00 6 \$30,000 Sheet Signing SF \$15.00 120 \$1,800 Pavement Markings LF \$0.60 48000 \$28,800 Signing and Striping LS \$1.00 10000 \$210,600 Message Signs SD \$60.00 6000 \$360,000 Message Signs SD \$60.00 4000 \$220,000 Traffic Sensors SD \$330.00 6000 \$380,000 Traffic Sensors SD \$330.00 6000 \$180,000 <td>Guardrail</td> <td>LF</td> <td>\$25.00</td> <td>1200</td> <td>\$30,000</td>	Guardrail	LF	\$25.00	1200	\$30,000
Barrier w/ Coping Median Barrier LF \$130.00 350 \$45,500 \$45,500 \$25,000	End Terminals	EA	\$2,000.00	4	\$8,000
Median Barrier LF \$130.00 350 \$45,500 Roadside Safety \$276,300 \$276,300 Overhead Signing EA \$60,000.00 1 \$60,000 Cantilever Signing EA \$30,000.00 3 \$90,000 Panel Signing EA \$5,000.00 6 \$30,000 Sheet Signing SF \$15.00 120 \$1,800 Pavement Markings LF \$0.60 48000 \$28,800 Pavement Markings LF \$0.60 48000 \$28,800 Additional MOT LS \$1.00 10000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Temp Signing LF \$0.50 \$30.00 \$250,000 Temp Signing LF \$0.50 \$350.00 \$250,000 Temp Signing LF \$0.50 \$350.00 \$250,000 \$250,000 Temp Signing	Bridge End Sections	EA	\$3,000.00	4	\$12,000
Roadside Safety EA \$60,000.00 1 \$60,000.00 Cantilever Signing EA \$30,000.00 3 \$90,000 Panel Signing EA \$5,000.00 6 \$30,000 Sheet Signing SF \$15.00 120 \$1,800 Pavement Markings LF \$0.60 48000 \$28,800 Signing and Striping LS \$1.00 100000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Message Signs SD \$60.00 4000 \$240,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Temp Signing LS \$1.00 25000 \$250,000 Temp Signing LS \$1.00 25000 \$250,000 Temp Signing LS \$1.00 25000 \$250,000 Temp Signing LS \$51.00 25000 \$250,000 Temp Signing LF \$0.00 \$10,000 \$17,550	Barrier w/ Coping	LF	\$160.00	1130	\$180,800
Overhead Signing Cantilever Signing EA \$60,000.00 1 \$60,000 Cantilever Signing Panel Signing EA \$30,000.00 3 \$90,000 Sheet Signing Pavement Markings EA \$5,000.00 6 \$30,000 Pavement Markings LF \$0.60 48000 \$28,800 \$210,600 Additional MOT LS \$1.00 100000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$380,000 Temp Signing LS \$1.00 25000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control<	Median Barrier	LF	\$130.00	350	\$45,500
Cantilever Signing Panel Signing Panel Signing EA \$30,000.00 3 \$90,000 Panel Signing Panel Signing Sheet Signing Pavement Markings EA \$5,000.00 6 \$30,000 Pavement Markings LF \$0.60 48000 \$28,800 Signing and Striping LF \$0.60 48000 \$28,800 Additional MOT LS \$1.00 100000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$5.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00<	Roadside Safety				\$276,300
Panel Signing EA \$5,000.00 6 \$30,000 Sheet Signing SF \$15.00 120 \$1,800 Pavement Markings LF \$0.60 48000 \$28,800 Signing and Striping \$210,600 Additional MOT LS \$1.00 100000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Signing LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$8.00 6000 \$48,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control <t< td=""><td>Overhead Signing</td><td>EA</td><td>\$60,000.00</td><td>1</td><td>\$60,000</td></t<>	Overhead Signing	EA	\$60,000.00	1	\$60,000
Sheet Signing Pavement Markings SF \$15.00 120 \$1,800 Signing and Striping \$210,600 Additional MOT LS \$1.00 100000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$8.00 6000 \$48,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$1.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 4300 \$25,800	Cantilever Signing	EA	\$30,000.00	3	\$90,000
Pavement Markings LF \$0.60 48000 \$28,800 Signing and Striping \$210,600 Additional MOT LS \$1.00 100000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$8.00 6000 \$48,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Light Poles	Panel Signing	EA	\$5,000.00	6	\$30,000
\$210,600 Additional MOT LS \$1.00 100000 \$100,000 Message Signs SD \$60.00 6000 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$1.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA	Sheet Signing	SF	\$15.00	120	\$1,800
Additional MOT Message Signs SD \$60.00 Traffic Surveillance HOUR \$60.00 Traffic Sensors SD \$30.00 Temp Signing LS \$1.00 Temp Striping LF \$0.50 Temp Striping LF \$0.50 Relocate Concrete Barrier LF \$8.00 Erosion Control LS \$1.00 Survey Control Removal of Concrete Paving Lanes Modification of Pedestrian Landing Removal of Slope Paving LS LS \$1.00 \$100,000 \$240,000 \$240,000 \$240,000 \$250,000	Pavement Markings	LF	\$0.60	48000	\$28,800
Message Signs SD \$60.00 \$360,000 Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000	Signing and Striping				\$210,600
Traffic Surveillance HOUR \$60.00 4000 \$240,000 Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000	Additional MOT	LS	\$1.00	100000	\$100,000
Traffic Sensors SD \$30.00 6000 \$180,000 Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000	Message Signs	SD	\$60.00	6000	\$360,000
Temp Signing LS \$1.00 250000 \$250,000 Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000	Traffic Surveillance	HOUR	\$60.00	4000	\$240,000
Temp Striping LF \$0.50 35100 \$17,550 Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous	Traffic Sensors	SD	\$30.00	6000	\$180,000
Precast Concrete Barrier LF \$25.00 2000 \$50,000 Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous \$1,526,350 \$1,526,350 \$1,526,350	Temp Signing	LS	\$1.00	250000	\$250,000
Relocate Concrete Barrier LF \$8.00 6000 \$48,000 Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous	Temp Striping	LF	\$0.50	35100	\$17,550
Erosion Control LS \$1.00 20000 \$20,000 Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous	Precast Concrete Barrier	LF	\$25.00	2000	\$50,000
Survey Control LS \$1.00 20000 \$20,000 Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous	Relocate Concrete Barrier	LF	\$8.00	6000	\$48,000
Removal of Concrete Paving Lanes SY \$10.00 6500 \$65,000 Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous \$1,526,350	Erosion Control	LS	\$1.00	20000	\$20,000
Modification of Pedestrian Landing LS \$50,000.00 1 \$50,000 Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous \$1,526,350	Survey Control	LS	\$1.00	20000	\$20,000
Removal of Slope Paving SY \$6.00 4300 \$25,800 Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous \$1,526,350	Removal of Concrete Paving Lanes	SY	\$10.00	6500	\$65,000
Light Poles EA \$5,000.00 20 \$100,000 Miscellaneous \$1,526,350	Modification of Pedestrian Landing	LS	\$50,000.00	1	\$50,000
Miscellaneous \$1,526,350	Removal of Slope Paving	SY	\$6.00	4300	\$25,800
	Light Poles	EA	\$5,000.00	20	\$100,000
Southbound Main Lanes \$4,463,250	Miscellaneous				\$1,526,350
	Southbound Main Lanes				\$4,463,250

Phase 1 - Southbo 7th Street Entrand	und Construction (Roadway Only) ce Ramp	Unit	Unit Price	# Units	Construction Cost
	Excavation	CY	\$8.00	16000	\$128,000
	Embankment	CY	\$10.00	0	\$0
Grading					\$128,000
	Inlets	EA	\$5,000.00	1	\$5,000
	Storm Sewer	LF	\$100.00	50	\$5,000
	Culverts	LF	\$100.00	50	\$5,000
Drainage					\$15,000
	Base and Surfacing	LANE-MILE	\$900,000.00	0	\$0
Base and S	Gurfacing				\$0
	Slopewall (4")	SY	\$40.00	1000	\$40,000
	Retaining Walls (MSE)	SF	\$75.00	17000	\$1,275,000
Retaining \	Walls				\$1,315,000
	Guardrail	LF	\$25.00	0	\$0
	End Terminals	EA	\$2,000.00	0	\$0
	Bridge End Sections	EA	\$3,000.00	0	\$0
	Barrier w/ Coping	LF	\$160.00	0	\$0
	Median Barrier	LF	\$130.00	0	\$0
Roadside S	•				\$0
	Overhead Signing	EA	\$60,000.00	0	\$0
	Cantilever Signing	EA	\$30,000.00	0	\$0
	Panel Signing	EA	\$5,000.00	0	\$0
	Sheet Signing	SF	\$15.00	60	\$900
	Pavement Markings	LF	\$0.60	400	\$240
Signing an	d Striping				\$1,140
	Additional MOT	LS	\$25,000.00	1	\$25,000
	Message Signs	SD	\$60.00	0	\$0
	Traffic Surveillance	HOUR	\$60.00	0	\$0
	Traffic Sensors	SD	\$30.00	0	\$0
	Temp Signing	LS	\$1.00	0	\$0
	Temp Striping	LF	\$0.50	0	\$0
	Precast Concrete Barrier	LF	\$25.00	0	\$0
	Relocate Concrete Barrier	LF	\$8.00	0	\$0
	Erosion Control	LS	\$15,000.00	1	\$15,000
	Survey Control	LS	\$1.00	0	\$0
	Removal of Concrete Paving Lanes	SY	\$10.00	60	\$600
	Removal of Slope Paving	SY	\$5.00	3600	\$18,000
	Light Poles	EA	\$5,000.00	2	\$10,000
Miscellane	eous				\$68,600
7th Street Entranc	ce Ramp				\$1,527,740

Phase 1 - Southbound Construction (Roadway C East - South Entrance Ramp	Only) Unit	Unit Price	# Units	Construction Cost
Excavation	CY	\$8.00	41000	\$328,000
Embankment	CY	\$10.00	3000	\$30,000
Grading				\$358,000
Inlets	EA	\$5,000.00	5	\$25,000
Storm Sewer	LF	\$100.00	600	\$60,000
Culverts	LF	\$100.00	300	\$30,000
Drainage				\$115,000
Base and Surfacing	LANE-MILE	\$900,000.00	0.1	\$90,000
Base and Surfacing				\$90,000
Slopewall (4")	SY	\$40.00	0	\$0
Retaining Walls (MSE)	SF	\$75.00	0	\$0
Retaining Walls				\$0
Guardrail	LF	\$25.00	600	\$15,000
End Terminals	EA	\$2,000.00	2	\$4,000
Bridge End Sections	EA	\$3,000.00	2	\$6,000
Barrier w/ Coping	LF	\$160.00	600	\$96,000
Median Barrier	LF	\$130.00	0	\$0
Roadside Safety				\$121,000
Overhead Signing	EA	\$60,000.00	0	\$0
Cantilever Signing	EA	\$30,000.00	0	\$0
Panel Signing	EA	\$5,000.00	0	\$0
Sheet Signing	SF	\$15.00	400	\$6,000
Pavement Markings	LF	\$0.60	3000	\$1,800
Signing and Striping				\$7,800
Additional MOT	LS	\$20,000.00	1	\$20,000
Message Signs	SD	\$60.00	0	\$0
Traffic Surveillance	HOUR	\$60.00	0	\$0
Traffic Sensors	SD	\$30.00	0	\$0
Temp Signing	LS	\$1.00	0	\$0
Temp Striping	LF	\$0.50	0	\$0
Precast Concrete Barrier	LF	\$25.00	0	\$0
Relocate Concrete Barrier	LF	\$8.00	0	\$0
Erosion Control	LS	\$8,000.00	1	\$8,000
Survey Control	LS	\$1.00	0	\$0
Removal of Concrete Paving Lanes	SY	\$10.00	800	\$8,000
Removal of Slope Paving	SY	\$5.00	5300	\$26,500
Light Poles	EA	\$5,000.00	2	\$10,000
Miscellaneous				\$72,500
East - South Entrance Ramp				\$764,300

Phase 1 - Southbound Construction (Roadway Only)	Unit	Unit Price	# Units	Construction Cost
17th Street Exit Ramp				
Excavation	CY	\$8.00	500	\$4,000
Embankment	CY	\$10.00	200	\$2,000
Grading				\$6,000
Inlets	EA	\$5,000.00	2	\$10,000
Storm Sewer	LF	\$100.00	100	\$10,000
Culverts	LF	\$100.00	100	\$10,000
Drainage				\$30,000
Base and Surfacing	LANE-MILE	\$900,000.00	0.12	\$108,000
Base and Surfacing				\$108,000
Slopewall (4")	SY	\$40.00	50	\$2,000
Retaining Walls (MSE)	SF	\$75.00	0	\$0
Retaining Walls				\$2,000
Guardrail	LF	\$25.00	500	\$12,500
End Terminals	EA	\$2,000.00	2	\$4,000
Bridge End Sections	EA	\$3,000.00	2	\$6,000
Barrier w/ Coping	LF	\$160.00	0	\$0
Median Barrier	LF	\$130.00	0	\$0
Roadside Safety				\$22,500
Overhead Signing	EA	\$60,000.00	0	\$0
Cantilever Signing	EA	\$30,000.00	0	\$0
Panel Signing	EA	\$5,000.00	2	\$10,000
Sheet Signing	SF	\$15.00	0	\$0
Pavement Markings	LF	\$0.60	0	\$0
Signing and Striping				\$10,000
Additional MOT	LS	\$1.00	0	\$0
Message Signs	SD	\$60.00	0	\$0
Traffic Surveillance	HOUR	\$60.00	0	\$0
Traffic Sensors	SD	\$30.00	0	\$0
Temp Signing	LS	\$1.00	0	\$0
Temp Striping	LF	\$0.50	0	\$0
Precast Concrete Barrier	LF	\$25.00	0	\$0
Relocate Concrete Barrier	LF	\$8.00	0	\$0
Erosion Control	LS	\$2,000.00	1	\$2,000
Survey Control	LS	\$1.00	0	\$0
Removal of Concrete Paving Lanes	SY	\$10.00	700	\$7,000
Removal of Slope Paving	SY	\$5.00	0	\$0
Light Poles	EA	\$5,000.00	3	\$15,000
Miscellaneous				\$24,000
17th Street Exit Ramp				\$202,500

Phase 1 - Southbound Construction (Roadway Only)	Unit	Unit Price	# Units	Construction Cost
Temporary Crossover 1				
Excavation	CY	\$8.00	200	\$1,600
Embankment	CY	\$10.00	0	\$0
Grading				\$1,600
Inlets	EA	\$5,000.00	2	\$10,000
Storm Sewer	LF	\$100.00	100	\$10,000
Culverts	LF	\$100.00	100	\$10,000
Drainage				\$30,000
Base and Surfacing	LANE-MILE	\$900,000.00	0.1	\$90,000
Base and Surfacing				\$90,000
Slopewall (4")	SY	\$40.00	0	\$0
Retaining Walls (MSE)	SF	\$75.00	0	\$0
Retaining Walls				\$0
Guardrail	LF	\$25.00		\$0
End Terminals	EA	\$2,000.00	1	\$2,000
Bridge End Sections	EA	\$3,000.00		\$0
Barrier w/ Coping	LF	\$160.00		\$0
Median Barrier	LF	\$130.00	425	\$55,250
Roadside Safety				\$57,250
Overhead Signing	EA	\$40,000.00	0	\$0
Cantilever Signing	EA	\$10,000.00	0	\$0
Panel Signing	EA	\$1,000.00	0	\$0
Sheet Signing	SF	\$15.00	60	\$900
Pavement Markings	LF	\$0.60	0	\$0
Signing and Striping				\$900
Additional MOT	LS	\$1.00	25000	\$25,000
Message Signs	SD	\$60.00	0	\$0
Traffic Surveillance	HOUR	\$60.00	0	\$0
Traffic Sensors	SD	\$30.00	0	\$0
Temp Signing	LS	\$1.00	20000	\$20,000
Temp Striping	LF	\$0.50	1700	\$850
Precast Concrete Barrier	LF	\$25.00	425	\$10,625
Relocate Concrete Barrier	LF	\$8.00	425	\$3,400
Erosion Control	LS	\$2,500.00	1	\$2,500
Survey Control	LS	\$1.00	0	\$0
Removal of Median Barrier	SY	\$15.00	425	\$6,375
Removal of Slope Paving	SY	\$5.00	0	\$0
Light Poles	EA	\$5,000.00	2	\$10,000
Miscellaneous				\$78,750
Temporary Crossover 1				\$258,500

Phase 1 - Southbo	und Construction (Roadway Only)	Unit	Unit Price	# Units	Construction Cost
Temporary Crosso					
	Excavation	CY	\$8.00	3000	\$24,000
	Embankment	CY	\$10.00	2000	\$20,000
Grading					\$44,000
	Inlets	EA	\$5,000.00	1	\$5,000
	Storm Sewer	LF	\$100.00	100	\$10,000
	Culverts	LF	\$100.00	300	\$30,000
Drainage					\$45,000
	Surfacing	TON	\$90.00	1800	\$162,000
Base and S	urfacing				\$162,000
	Slopewall (4")	SY	\$40.00	0	\$0
	Retaining Walls (MSE)	SF	\$75.00	0	\$0
Retaining \	Walls				\$0
	Guardrail	LF	\$25.00	350	\$8,750
	End Terminals	EA	\$2,000.00		\$0
	Bridge End Sections	EA	\$3,000.00		\$0
	Barrier w/ Coping	LF	\$160.00		\$0
	Median Barrier	LF	\$130.00		\$0
Roadside S	afety				\$8,750
	Overhead Signing	EA	\$40,000.00	0	\$0
	Cantilever Signing	EA		0	\$0
	Panel Signing	EA		0	\$0
	Sheet Signing	SF	\$15.00	60	\$900
	Pavement Markings	LF	\$0.60	0	\$0
Signing and	d Striping				\$900
	Additional MOT	LS	\$1.00	25000	\$25,000
	Message Signs	SD	\$6,000.00	1	\$6,000
	Traffic Surveillance	HOUR	\$4,000.00	0	\$0
	Traffic Sensors	SD	\$6,000.00	0	\$0
	Temp Signing	LS	\$1.00	0	\$0
	Temp Striping	LF	\$0.50	3800	\$1,900
	Precast Concrete Barrier	LF	\$25.00	1900	\$47,500
	Relocate Concrete Barrier	LF	\$8.00	1900	\$15,200
	Erosion Control	LS	\$14,000.00	1	\$14,000
	Survey Control	LS	\$1.00	5000	\$5,000
	Removal of Guardrail	LF	\$4.00	350	\$1,400
Miscellane	ous				\$116,000
Temporary Crosso	ver 2				\$376,650

Phase 1 - Southbound Bridge Summary Southbound Bridge		Unit	Unit Price	# Units	Construction Cost
Class AA Concrete		CY	\$600.00	9250	\$5,550,000
Epoxy Coated Reinf. Steel (Grade 60)	LB	\$1.10	2681220	\$2,949,342
Structural Steel		LB	\$2.25	1655000	\$3,723,750
Parapet Rail		LF	\$90.00	10180	\$916,200
Water Repellent Treatmen	t	SY	\$4.00	13290	\$53,160
PS Beams Type III		LF	\$225.00	24820	\$5,584,500
PS Beams Type IV		LF	\$275.00	8030	\$2,208,250
Class A Concrete		CY	\$600.00	5675	\$3,405,000
Reinforcing Steel (Grade 60	0)	LB	\$1.00	850920	\$850,920
Drilled Shafts 60" Diameter	r	LF	\$1,000.00	3850	\$3,850,000
Drilled Shafts 72" Diameter	r	LF	\$1,200.00	600	\$720,000
Drilled Shafts 84" Diameter	r	LF	\$1,400.00	2950	\$4,130,000
Steel Piling (HP 10x42)		LF	\$75.00	2900	\$217,500
Approach Slabs		SY	\$200.00	640	\$128,000
Sealed Expansion Joint		LF	\$150.00	2582	\$387,300
Fixed Bearing Assembly		EA	\$1,200.00	452	\$542,400
Expansion Bearing Assemb	ly	EA	\$1,200.00	452	\$542,400
Bridge Removal		LS	\$3,000,000.00	1	\$3,000,000
Southbound Bridge					\$38,758,800
Transit Rail Structures					
Class AA Concrete		CY	\$750.00	1940	\$1,455,000
Epoxy Coated Reinf. Steel (Grade 60)	LB	\$1.10	561420	\$617,562
PS Beams Type IV		LF	\$275.00	8440	\$2,321,000
Class A Concrete		CY	\$750.00	250	\$187,500
Reinforcing Steel (Grade 60	0)	LB	\$1.00	37500	\$37,500
Steel Piling (HP 10x42)		LF	\$75.00	1800	\$135,000
Approach Slabs		SY	\$200.00	190	\$38,000
Sealed Expansion Joint		LF	\$150.00	640	\$96,000
Fixed Bearing Assembly		EA	\$1,200.00	114	\$136,800
Expansion Bearing Assemb	ly	EA	\$1,200.00	114	\$136,800
Handrail		LF	\$100.00	5630	\$563,000
Transit Rail Structures			•		\$5,724,200

Bicycle / Pedestrian Structure

Class AA Concrete	CY	\$600.00	781	\$468,600
Epoxy Coated Reinf. Steel (Grade 60)	LB	\$1.10	226530	\$249,183
PS Beams Type III	LF	\$275.00	2812	\$773,300
Class A Concrete	CY	\$600.00	70	\$42,000
Reinforcing Steel (Grade 60)	LB	\$1.00	10500	\$10,500
Steel Piling (HP 10x42)	LF	\$75.00	600	\$45,000
Sealed Expansion Joint	LF	\$150.00	190	\$28,500
Fixed Bearing Assembly	EA	\$1,200.00	38	\$45,600
Expansion Bearing Assembly	EA	\$1,200.00	38	\$45,600
Water Repellent Treatment	SY	\$4.00	3670	\$14,680
Handrail	LF	\$300.00	1406	\$421,800
Bicycle / Pedestrian Structure				\$2,144,800

Phase 2 - Northbound Construction Summary Construction Cost

Grading	\$81,600
Drainage	\$410,100
Base and Surfacing	\$736,200
Bridge	\$28,628,800
Retaining Walls	\$733,000
Roadside Safety	\$355,150
Signing and Striping	\$155,280
Miscellaneous	\$1,782,750
SUBTOTAL PHASE 2	\$32,882,880
MOBILIZATION (5%)	\$1,644,200

\$1,644,200 \$6,905,500 **CONTINGENCY (20%)**

TOTAL PHASE 2 \$41,432,580

Phase 2 - Northbound Construction (Roadway Only) Northbound Main Lanes	Unit	Unit Price	# Units	Construction Cost
Excavation	CY	\$8.00	2000	\$16,000
Embankment	CY	\$10.00	2000	\$20,000
Grading				\$36,000
Inlets	EA	\$5,000.00	15	\$75,000
Storm Sewer	LF	\$100.00	1200	\$120,000
Culverts	LF	\$100.00	1200	\$120,000
Drainage				\$315,000
Base and Surfacing	LANE-MILE	\$900,000.00	0.6	\$540,000
Base and Surfacing				\$540,000
Slopewall (4")	SY	\$40.00	600	\$24,000
Retaining Walls (MSE)	SF	\$75.00	8000	\$600,000
Retaining Walls				\$624,000
Guardrail	LF	\$25.00	400	\$10,000
End Terminals	EA	\$2,000.00	2	\$4,000
Bridge End Sections	EA	\$3,000.00	2	\$6,000
Barrier w/ Coping	LF	\$160.00	500	\$80,000
Median Barrier	LF	\$130.00	400	\$52,000
Roadside Safety				\$152,000
Overhead Signing	EA	\$60,000.00	2	\$120,000
Cantilever Signing	EA	\$30,000.00	0	\$0
Panel Signing	EA	\$5,000.00	6	\$30,000
Sheet Signing	SF	\$15.00	0	\$0
Pavement Markings	LF	\$0.60	0	\$0
Signing and Striping				\$150,000
Additional MOT	LS	\$1.00	100000	\$100,000
Message Signs	SD	\$60.00	6000	\$360,000
Traffic Surveillance	HOUR	\$60.00	4000	\$240,000
Traffic Sensors	SD	\$30.00	6000	\$180,000
Temp Signing	LS	\$1.00	250000	\$250,000
Temp Striping	LF	\$0.50	27000	\$13,500
Precast Concrete Barrier	LF	\$25.00		\$150,000
Relocate Concrete Barrier	LF	\$8.00		\$48,000
Erosion Control	LS	\$35,000.00	1	\$35,000
Survey Control	LS	\$40,000.00	1	\$40,000
Removal of Concrete Paving Lanes	SY	\$10.00	6200	\$62,000
Removal of Slope Paving	SY	\$6.00		\$6,000
Light Poles	EA	\$5,000.00	20	\$100,000
Miscellaneous				\$1,584,500
Northbound Main Lanes				\$3,401,500

Phase 2 - Northbound Construction (Roadway Only)	Unit	Unit Price	# Units	Construction Cost
17th Street Entrance Ramp				
Excavation	CY	\$8.00	3000	\$24,000
Embankment	CY	\$10.00	200	\$2,000
Grading				\$26,000
Inlets	EA	\$5,000.00	1	\$5,000
Storm Sewer	LF	\$100.00		\$10,000
Culverts	LF	\$100.00	100	\$10,000
Drainage				\$25,000
Base and Surfacing	LANE-MILE	\$900,000.00	0.1	\$90,000
Base and Surfacing				\$90,000
Slopewall (4")	SY	\$40.00	100	\$4,000
Retaining Walls (MSE)	SF	\$75.00	1400	\$105,000
Retaining Walls				\$109,000
Guardrail	LF	\$25.00	200	\$5,000
End Terminals	EA	\$2,000.00	2	\$4,000
Bridge End Sections	EA	\$3,000.00	2	\$6,000
Barrier w/ Coping	LF	\$160.00	300	\$48,000
Median Barrier	LF	\$130.00	0	\$0
Roadside Safety				\$63,000
Overhead Signing	EA	\$60,000.00	0	\$0
Cantilever Signing	EA	\$30,000.00	0	\$0
Panel Signing	EA	\$5,000.00	0	\$0
Sheet Signing	SF	\$15.00	60	\$900
Pavement Markings	LF	\$0.60	2000	\$1,200
Signing and Striping				\$2,100
Additional MOT	LS	\$20,000.00	1	\$20,000
Message Signs	SD	\$60.00	0	\$0
Traffic Surveillance	HOUR	\$60.00	0	\$0
Traffic Sensors	SD	\$30.00	0	\$0
Temp Signing	LS	\$1.00	0	\$0
Temp Striping	LF	\$0.50	0	\$0
Precast Concrete Barrier	LF	\$25.00	0	\$0
Relocate Concrete Barrier	LF	\$8.00	0	\$0
Erosion Control	LS	\$4,000.00	1	\$4,000
Survey Control	LS	\$4,000.00	1	\$4,000
Removal of Concrete Paving Lanes	SY	\$10.00	900	\$9,000
Removal of Slope Paving	SY	\$5.00	0	\$0
Light Poles	EA	\$5,000.00		\$10,000
Miscellaneous				\$47,000
17th Street Entrance Ramp				\$362,100

Phase 2 - Northbound Construction (Roadway Only)	Unit	Unit Price	# Units	Construction Cost
South - East Exit Ramp				
Excavation	CY	\$8.00	1000	\$8,000
Embankment	CY	\$10.00	1000	\$10,000
Grading				\$18,000
Inlets	EA	\$5,000.00	1	\$5,000
Storm Sewer	LF	\$100.00	100	\$10,000
Culverts	LF	\$100.00	100	\$10,000
Drainage				\$25,000
Base and Surfacing	LANE-MILE	\$900,000.00	0.1	\$90,000
Base and Surfacing				\$90,000
Slopewall (4")	SY	\$40.00	0	\$0
Retaining Walls (MSE)	SF	\$75.00	0	\$0
Retaining Walls				\$0
Guardrail	LF	\$25.00	1000	\$25,000
End Terminals	EA	\$2,000.00	2	\$4,000
Bridge End Sections	EA	\$3,000.00	2	\$6,000
Barrier w/ Coping	LF	\$160.00	0	\$0
Median Barrier	LF	\$130.00	0	\$0
Roadside Safety				\$35,000
Overhead Signing	EA	\$60,000.00	0	\$0
Cantilever Signing	EA	\$30,000.00	0	\$0
Panel Signing	EA	\$5,000.00	0	\$0
Sheet Signing	SF	\$15.00	60	\$900
Pavement Markings	LF	\$0.60	800	\$480
Signing and Striping				\$1,380
Additional MOT	LS	\$10,000.00	1	\$10,000
Message Signs	SD	\$60.00	0	\$0
Traffic Surveillance	HOUR	\$60.00	0	\$0
Traffic Sensors	SD	\$30.00	0	\$0
Temp Signing	LS	\$1.00	0	\$0
Temp Striping	LF	\$0.50	0	\$0
Precast Concrete Barrier	LF	\$25.00	0	\$0
Relocate Concrete Barrier	LF	\$8.00	0	\$0
Erosion Control	LS	\$2,000.00	1	\$2,000
Survey Control	LS	\$2,000.00	1	\$2,000
Removal of Concrete Paving Lanes	SY	\$10.00	1200	\$12,000
Removal of Slope Paving	SY	\$5.00	0	\$0
Light Poles	EA	\$5,000.00	2	\$10,000
Miscellaneous				\$36,000
South - East Exit Ramp				\$205,380

Phase 2 - Northbound Construction (Roadway Only) Temporary Crossover 3	Unit	Unit Price	# Units	Construction Cost
Excavation	CY	\$8.00	200	\$1,600
Embankment	CY	\$10.00	0	\$0
Grading				\$1,600
Inlets	EA	\$5,000.00	0	\$0
Storm Sewer	LF	\$100.00	0	\$0
Culverts	LF	\$100.00	1	\$100
Drainage				\$100
Surfacing	TON	\$90.00	180	\$16,200
Base and Surfacing				\$16,200
Slopewall (4")	SY	\$40.00	0	\$0
Retaining Walls (MSE)	SF	\$75.00	0	\$0
Retaining Walls				\$0
Guardrail	LF	\$25.00		\$0
End Terminals	EA	\$2,000.00		\$4,000
Bridge End Sections	EA	\$3,000.00		\$0
Barrier w/ Coping	LF	\$160.00		\$0
Median Barrier	LF	\$130.00	400	\$52,000
Roadside Safety				\$56,000
Overhead Signing	EA	\$40,000.00		\$0
Cantilever Signing	EA	\$10,000.00		\$0
Panel Signing	EA	\$1,000.00		\$0
Sheet Signing	SF	\$15.00		\$900
Pavement Markings	LF	\$0.60	0	\$0
Signing and Striping				\$900
Additional MOT	LS	\$10,000.00		\$0
Message Signs	SD	\$60.00		\$0
Traffic Surveillance	HOUR	\$60.00		\$0
Traffic Sensors	SD	\$30.00		\$0
Temp Signing	LS	\$10,000.00		\$0
Temp Striping	LF	\$0.50		\$1,000
Precast Concrete Barrier	LF	\$25.00		\$23,500
Relocate Concrete Barrier	LF	\$8.00		\$3,400
Erosion Control	LS	\$2,000.00		\$2,000
Survey Control	LS	\$5,000.00		\$5,000
Removal of Median Barrier	SY	\$15.00		\$6,000
Removal of Slope Paving	SY	\$5.00		\$0
Light Poles	EA	\$5,000.00	0	\$0
Miscellaneous				\$40,900
Temporary Crossover 3				\$115,700

hase 2 - Northbo Temporary Crosso	und Construction (Roadway Only) over 4	Unit	Unit Price	# Units	Construction Cost \$1,000
	Excavation	CY	\$8.00	0	\$0
	Embankment	CY	\$10.00	0	\$0
Grading					\$0
	Inlets	EA	\$5,000.00	1	\$5,000
	Storm Sewer	LF	\$100.00	100	\$10,000
	Culverts	LF	\$100.00	300	\$30,000
Drainage					\$45,000
	Surfacing	TON	\$90.00	0	\$0
Base and S	Gurfacing				\$0
	Slopewall (4")	SY	\$40.00	0	\$0
	Retaining Walls (MSE)	SF	\$75.00	0	\$0
Retaining \	Walls				\$0
	Guardrail	LF	\$25.00	350	\$8,750
	End Terminals	EA	\$2,000.00	2	\$4,000
	Bridge End Sections	EA	\$3,000.00	0	\$0
	Barrier w/ Coping	LF	\$160.00	0	\$0
	Median Barrier	LF	\$130.00	280	\$36,400
Roadside S	Safety				\$49,150
	Overhead Signing	EA	\$40,000.00	0	\$0
	Cantilever Signing	EA		0	\$0
	Panel Signing	EA		0	\$0
	Sheet Signing	SF	\$15.00	60	\$900
	Pavement Markings	LF	\$0.60	0	\$0
Signing and	d Striping				\$900
	Additional MOT	LS	\$1.00	25000	\$25,000
	Message Signs	SD	\$6,000.00	1	\$6,000
	Traffic Surveillance	HOUR	\$4,000.00	0	\$0
	Traffic Sensors	SD	\$6,000.00	0	\$0
	Temp Signing	LS	\$10,000.00	1	\$10,000
	Temp Striping	LF	\$0.50	1900	\$950
	Precast Concrete Barrier	LF	\$25.00	800	\$20,000
	Relocate Concrete Barrier	LF	\$8.00	800	\$6,400
	Erosion Control	LS	\$2,000.00	1	\$2,000
	Survey Control	LS	\$2,000.00	1	\$2,000
	Removal of Median Barrier	LF	\$4.00		\$2,000
Miscellane	eous				\$74,350
Temporary Crosso					\$169,400

Phase 2 - Northbound Bridge Summary Northbound Bridge	Unit	Unit Price	# Units	Construction Cost
Class AA Concrete	CY	\$600.00	7500	\$4,500,000
Epoxy Coated Reinf. Steel (Grade 60)	LB	\$1.10	2174600	\$2,392,060
Structural Steel	LB	\$2.25	613000	\$1,379,250
Parapet Rail	LF	\$90.00	6910	\$621,900
Water Repellent Treatment	SY	\$4.00	9020	\$36,080
PS Beams Type III	LF	\$225.00	14340	\$3,226,500
PS Beams Type IV	LF	\$275.00	13190	\$3,627,250
Class A Concrete	CY	\$600.00	3350	\$2,010,000
Reinforcing Steel (Grade 60)	LB	\$1.00	501970	\$501,970
Drilled Shafts 60" Diameter	LF	\$1,000.00	2550	\$2,550,000
Drilled Shafts 72" Diameter	LF	\$1,200.00	2950	\$3,540,000
Drilled Shafts 84" Diameter	LF	\$1,400.00	0	\$0
Steel Piling (HP 10x42)	LF	\$75.00	2700	\$202,500
Approach Slabs	SY	\$200.00	664	\$132,800
Sealed Expansion Joint	LF	\$150.00	2043	\$306,450
Fixed Bearing Assembly	EA	\$1,200.00	355	\$426,000
Expansion Bearing Assembly	EA	\$1,200.00	355	\$426,000
Bridge Removal	LS	\$2,750,000.00	1	\$2,750,000
Northbound Bridge				\$28,628,800

Phase 3 - Trackwo	rk	Unit	Unit Price	# Units	Construction Cost
Track A (Commute	er Rail)				
	Embankment	CY	\$15.00	5000	\$75,000
Grading					\$75,000
	Inlets	EA	\$5,000.00	5	\$25,000
	Storm Sewer	LF	\$100.00	400	\$40,000
	Culverts	LF	\$100.00	400	\$40,000
Drainage					\$105,000
	Retaining Walls (MSE)	SF	\$75.00	6000	\$450,000
Retaining \	Walls				\$450,000
	Erosion Control	LS	\$20,000.00	1	\$20,000
	Survey Control	LS	\$20,000.00	1	\$20,000
	Removal of Pedestrian Landing	LS	\$100,000.00	1	\$100,000
Miscellane	eous				\$140,000
	Subballast	CY	\$60.00	1700	\$102,000
	Ballasted Track	TF	\$235.00	1200	\$282,000
	Ballasted Track with Restraining Rail	TF	\$275.00	500	\$137,500
	Direct Fixation Track (Bridge)	TF	\$450.00	1400	\$630,000
	Traction Power System	TF	\$230.00	3100	\$713,000
	Communications	TF	\$100.00	3100	\$310,000
	Signals	TF	\$200.00	3100	\$620,000
Trackwork					\$2,794,500
Track A (Commute	er Rail)				\$3,564,500

Unclassified Excavation	Track B (High Speed Rail)				
Inlets	Unclassified Excavation	CY	\$8.00	3200	\$25,600
Inlets	Embankment	CY	\$15.00	15000	\$225,000
Storm Sewer LF \$100.00 400 \$40,000	Grading				\$25,600
Culverts LF \$100.00 400 \$40,000 Drainage Retaining Walls (MSE) SF \$75.00 8500 \$637,500 Retaining Walls Frosion Control LS \$20,000.00 1 \$20,000 Survey Control LS \$20,000.00 1 \$20,000 Miscellaneous CY \$60.00 2200 \$132,000 Ballasted Track TF \$270.00 2200 \$594,000 Direct Fixation Track (Bridge) TF \$465.00 1400 \$651,000 Communications TF \$100.00 3600 \$360,000 Signals TF \$100.00 3600 \$360,000 Trackwork TF \$200.00 3600 \$360,000 Track B (High Speed Rail) \$3,265,100 Bicycle / Pedestrian Trail Modification \$75 \$112,500.00 \$112,500.00 ADA Ramp LF \$1,000.00 100 \$100,000.00 Elevated Trail LF \$1,000.00 100 \$100,000.00	Inlets	EA	\$5,000.00	5	\$25,000
Drainage Retaining Walls (MSE) SF \$75.00 \$8500 \$637,500 Retaining Walls (MSE) F \$75.00 \$8500 \$637,500 Erosion Control LS \$20,000.00 1 \$20,000 Survey Control LS \$20,000.00 1 \$20,000 Miscellaneous CY \$60.00 2200 \$132,000 Miscellaneous CY \$60.00 2200 \$132,000 Miscellaneous TF \$270.00 2200 \$594,000 Ballasted Track TF \$270.00 2200 \$5594,000 Direct Fixation Track (Bridge) TF \$465.00 1400 \$651,000 Communications TF \$100.00 3600 \$360,000 \$720,000 Track B (High Speed Rail) TF \$200.00 3600 \$720,000 Bicycle / Pedestrian Trail Modification SF \$150.00 750 \$112,500.00 ADA Ramp LF \$1,000.00 160 \$160,000.00 \$100,000.00 \$100,000.00 \$10	Storm Sewer	LF	\$100.00	400	
Retaining Walls (MSE)	Culverts	LF	\$100.00	400	\$40,000
Retaining Walls	Drainage				
Erosion Control LS \$20,000.00 1 \$20,000 \$20,000	• , ,	SF	\$75.00	8500	
Survey Control LS \$20,000.00 1 \$20,000 1 \$20,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000 1 \$40,000.00					
Subballast CY \$60.00 2200 \$132,000 Ballasted Track TF \$270.00 2200 \$594,000 Direct Fixation Track (Bridge) TF \$465.00 1400 \$651,000 Communications TF \$100.00 3600 \$360,000 Signals TF \$200.00 3600 \$22,457,000 Trackwork Track (Bridge) TF \$200.00 3600 \$360,000 Trackwork Track (Bridge) TF \$200.00 3600 \$22,457,000 Track B (High Speed Rail) \$3,265,100 Bicycle / Pedestrian Trail Modification F \$1,000.00 160 \$160,000.00 Elevated Trail LF \$1,000.00 160 \$160,000.00 Elevated Trail LF \$1,000.00 100 \$100,000.00 Demolition of Existing LS \$75,000.00 1400 \$490,000.00 Demolition of Existing LS \$75,000.00 1400 \$937,500 Bicycle / Pedestrian Trail Modification \$937,500 SUBTOTAL PHASE 3 \$7,767,100 MOBILIZATION (5%) \$338,400 CONTINGENCY (30%) \$338,400 CONTINGENCY (30%) \$22,446,700 CONTINGENCY (30%) \$22,446,700 Continued Trail \$200.00 \$200.00 Continued Trail \$338,400 CONTINGENCY (30%) \$22,446,700 Continued Trail \$320.00 \$200.00 Continued Trail \$338,400 CONTINGENCY (30%) \$22446,700 Continued Trail \$320.00 Continued Trail \$338,400 Continued Trail \$346,000 Conti				1	
Subballast CY \$60.00 2200 \$132,000	Survey Control	LS	\$20,000.00	1	\$20,000
Ballasted Track TF \$770.00 2200 \$594,000 Direct Fixation Track (Bridge) TF \$465.00 1400 \$651,000 Communications TF \$100.00 3600 \$360,000 Signals TF \$200.00 3600 \$720,000 Trackwork Trackwork \$2,457,000 Track B (High Speed Rail) \$3,265,100 Bicycle / Pedestrian Trail Modification Frackwork \$150.00 750 \$112,500.00 ADA Ramp LF \$1,000.00 160 \$160,000.00 Elevated Trail LF \$1,000.00 160 \$160,000.00 At Grade Trail LF \$350.00 1400 \$490,000.00 Demolition of Existing LS \$75,000.00 1 \$75,000.00 Bicycle / Pedestrian Trail Modification \$937,500 SUBTOTAL PHASE 3 \$7,767,100 MOBILIZATION (5%) \$388,400 CONTINGENCY (30%) \$2,446,700	Miscellaneous				\$40,000
Direct Fixation Track (Bridge) TF \$465.00 1400 \$651,000 Communications TF \$100.00 3600 \$360,000 \$36	Subballast	СУ	\$60.00	2200	\$132,000
Communications TF \$100.00 3600 \$360,000 \$360,000 \$360,000 \$360,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720,000 \$720 \$720,00	Ballasted Track	TF	\$270.00	2200	\$594,000
Signals TF \$200.00 3600 \$720,000	Direct Fixation Track (Bridge	e) TF	\$465.00	1400	\$651,000
Trackwork \$2,457,000 Track B (High Speed Rail) \$3,265,100 Bicycle / Pedestrian Trail Modification Prefabricated Truss Span SF \$150.00 750 \$112,500.00 ADA Ramp LF \$1,000.00 160 \$160,000.00 Elevated Trail LF \$1,000.00 100 \$100,000.00 At Grade Trail LF \$350.00 1400 \$490,000.00 Demolition of Existing LS \$75,000.00 1 \$75,000.00 Bicycle / Pedestrian Trail Modification \$937,500 1 \$75,000.00 SUBTOTAL PHASE 3 \$7,767,100 \$388,400 \$388,400 CONTINGENCY (30%) \$2,446,700 \$2,446,700	Communications	TF	\$100.00	3600	\$360,000
Track B (High Speed Rail) Bicycle / Pedestrian Trail Modification Prefabricated Truss Span SF \$150.00 750 \$112,500.00 ADA Ramp LF \$1,000.00 160 \$160,000.00 Elevated Trail LF \$1,000.00 100 \$100,000.00 At Grade Trail LF \$350.00 1400 \$490,000.00 Demolition of Existing LS \$75,000.00 1 \$75,000.00 Elevated Trail Modification SUBTOTAL PHASE 3 \$7,767,100 \$388,400 CONTINGENCY (30%)	Signals	TF	\$200.00	3600	\$720,000
Prefabricated Truss Span SF \$150.00 750 \$112,500.00 ADA Ramp LF \$1,000.00 160 \$160,000.00 Elevated Trail LF \$1,000.00 100 \$100,000.00 At Grade Trail LF \$350.00 1400 \$490,000.00 Demolition of Existing LS \$75,000.00 1 \$75,000.00 Bicycle / Pedestrian Trail Modification \$937,500 SUBTOTAL PHASE 3 \$7,767,100 MOBILIZATION (5%) \$338,400 CONTINGENCY (30%) \$2,446,700	Trackwork				\$2,457,000
Prefabricated Truss Span SF \$150.00 750 \$112,500.00 ADA Ramp LF \$1,000.00 160 \$160,000.00 Elevated Trail LF \$1,000.00 100 \$100,000.00 At Grade Trail LF \$350.00 1400 \$490,000.00 Demolition of Existing LS \$75,000.00 1 \$75,000.00 Bicycle / Pedestrian Trail Modification \$937,500 SUBTOTAL PHASE 3 \$7,767,100 MOBILIZATION (5%) \$388,400 CONTINGENCY (30%)	Track B (High Speed Rail)				\$3,265,100
ADA Ramp Elevated Trail LF \$1,000.00 160 \$160,000.00 \$100,000.00 \$100,000.00 At Grade Trail LF \$350.00 Demolition of Existing LS \$75,000.00 Bicycle / Pedestrian Trail Modification SUBTOTAL PHASE 3 MOBILIZATION (5%) CONTINGENCY (30%) LF \$1,000.00 \$100 \$100 \$100,000.00 \$490,000.00 1 \$755,000.00 \$490,000.00 \$490,000.00 \$775,000.00 \$77,767,100 \$388,400 \$388,400 \$2,446,700	Bicycle / Pedestrian Trail Modification				
ADA Ramp Elevated Trail LF \$1,000.00 160 \$160,000.00 \$100,000.00 \$100,000.00 At Grade Trail LF \$350.00 Demolition of Existing LS \$75,000.00 Bicycle / Pedestrian Trail Modification SUBTOTAL PHASE 3 MOBILIZATION (5%) CONTINGENCY (30%) LF \$1,000.00 \$100 \$100 \$100,000.00 \$490,000.00 1 \$755,000.00 \$490,000.00 \$490,000.00 \$775,000.00 \$77,767,100 \$388,400 \$388,400 \$2,446,700	Prefahricated Truss Span	ÇE.	\$150.00	750	\$112 500 00
Elevated Trail	•		·		
At Grade Trail LF \$350.00 1400 \$490,000.00 Demolition of Existing LS \$75,000.00 1 \$75,000.00 Sicycle / Pedestrian Trail Modification \$937,500 \$1 \$77,767,100 MOBILIZATION (5%) \$388,400 CONTINGENCY (30%)	•		• •		
Demolition of Existing LS \$75,000.00 1 \$75,000.00			• •		
Bicycle / Pedestrian Trail Modification \$937,500 SUBTOTAL PHASE 3 \$7,767,100 MOBILIZATION (5%) \$388,400 CONTINGENCY (30%) \$2,446,700			-		
\$1,767,100 \$7,767,100 MOBILIZATION (5%) \$388,400 CONTINGENCY (30%) \$2,446,700	•		\$75,000.00	1	
MOBILIZATION (5%) \$388,400 CONTINGENCY (30%) \$2,446,700					
CONTINGENCY (30%) \$2,446,700	SUBTOTAL PHASE 3				
	MOBILIZATION (5%)				
TOTAL PHASE 3 \$10.602.200	CONTINGENCY (30%)				\$2,446,700
Ţ20,002,200		TOTAL PHASE 3			\$10,602,200