

APPENDIX D

CONCEPTUAL COST ESTIMATE



ENGINEER'S PRELIMINARY COST ESTIMATE

STATE OF ALASKA -- DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES -- CENTRAL REGION

Project Number:

Project Name: Trunk Road South Extension
Includes Fairview Loop, Nelson At-Grade and Timothy (MSB)

Item No.	Pay Item	Pay Unit	Unit Price	Quantity	Amount
===== BASIC BID =====					
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	\$7,500.00	1	\$7,500.00
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	\$3.50	8,100	\$28,350.00
202(13)	ENVIRONMENTAL IMPACTS	CONTINGENT SUM	\$5,000.00	1	\$5,000.00
203(1)	COMMON EXCAVATION- USABLE	CUBIC YARD	\$6.00	8,120	\$48,720.00
203(3)	UNCLASSIFIED EXCAVATION - UNUSABLE	CUBIC YARD	\$9.00	5,420	\$48,780.00
203(6A)	BORROW, TYPE A	TON	\$12.00	34,165	\$409,980.00
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	\$16.00	4,450	\$71,200.00
401(1B)	ASPHALT CONCRETE, TYPE II; CLASS B	TON	\$70.00	1,450	\$101,500.00
603(17-18)	18 INCH PIPE, CORRUGATED STEEL PIPE	LINEAR FOOT	\$43.00	250.0	\$10,750.00
603(17-24)	24 INCH PIPE, CORRUGATED STEEL PIPE	LINEAR FOOT	\$47.00	250	\$11,750.00
609(2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	\$25.00		\$0.00
615(1)	STANDARD SIGN	SQUARE FOOT	\$65.00	250.00	\$16,250.00
617(9)	RAILROAD CROSSING, CONCRETE SURFACE	LINEAR FOOT	\$125.00	100	\$12,500.00
617(10)	RAILROAD CROSSING, ASPHALT SURFACE	LINEAR FOOT	\$95.00	100	\$9,500.00
618(1)	SEEDING, TYPE A	LBS	\$50.00	185	\$9,250.00
618(3)	WATER FOR SEEDING	MGALLON	\$100.00	185	\$18,500.00
620(1)	TOPSOIL (4" DEPTH)	SQUARE YARD	\$5.50	20,550	\$113,025.00
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	\$2.50	20,550	\$51,375.00
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	\$50,000.00	1	\$50,000.00
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	\$5,000.00	1	\$5,000.00
641(3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	\$10,000.00	1	\$10,000.00
641(4)	TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS	CONTINGENT SUM	\$7,500.00	1	\$7,500.00
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	\$30,000.00	1	\$30,000.00
642(3)	THREE PERSON SURVEY PARTY	HOUR	\$240.00	80	\$19,200.00
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	\$50,000.00	1	\$50,000.00
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	\$30,000.00	1	\$30,000.00
660(1)	TRAFFIC SIGNAL COMPLETE	EACH	\$250,000.00		\$0.00
660(3)	POLE PILING	EACH	\$2,500.00		\$0.00
660(4)	2" CONDUIT	LF	\$5.00		\$0.00
660(5)	8/3 WIRE	LF	\$3.00		\$0.00
660(6)	TYPE 1 J BOX	EACH	\$1,000.00		\$0.00
660(7)	CIRCUIT BREAKER	EACH	\$100.00		\$0.00
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	\$30,000.00	1	\$30,000.00
	Right-of-Way Acquisition	LUMP SUM	\$214,300.00	1	\$214,300.00
		BASIC BID TOTAL			\$1,419,930
		CONSTRUCTION ENGINEERING @ 15%			\$212,990
		SUBTOTAL			\$1,632,920
		25% Contingency			\$408,230
		PROJECT TOTAL			\$2,041,149



ENGINEER'S PRELIMINARY COST ESTIMATE

STATE OF ALASKA -- DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES -- CENTRAL REGION

Project Number:

Project Name: Trunk Road South Extension

Includes Fairview Loop, Nelson At-Grade and Timothy (Developer)

Item No.	Pay Item	Pay Unit	Unit Price	Quantity	Amount
===== BASIC BID =====					
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	\$7,500.00		\$0.00
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	\$3.50		\$0.00
202(13)	ENVIRONMENTAL IMPACTS	CONTINGENT SUM	\$5,000.00		\$0.00
203(1)	COMMON EXCAVATION- USABLE	CUBIC YARD	\$6.00	5,560	\$33,360.00
203(3)	UNCLASSIFIED EXCAVATION - UNUSABLE	CUBIC YARD	\$9.00	5,420	\$48,780.00
203(6A)	BORROW, TYPE A	TON	\$12.00	34,200	\$410,400.00
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	\$16.00	5,420	\$86,720.00
401(1B)	ASPHALT CONCRETE, TYPE II; CLASS B	TON	\$70.00	1,760	\$123,200.00
603(17-18)	18 INCH PIPE, CORRUGATED STEEL PIPE	LINEAR FOOT	\$43.00	250.0	\$10,750.00
603(17-24)	24 INCH PIPE, CORRUGATED STEEL PIPE	LINEAR FOOT	\$47.00	250	\$11,750.00
609(2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	\$25.00		\$0.00
615(1)	STANDARD SIGN	SQUARE FOOT	\$65.00	250.00	\$16,250.00
617(9)	RAILROAD CROSSING, CONCRETE SURFACE	LINEAR FOOT	\$125.00		\$0.00
617(10)	RAILROAD CROSSING, ASPHALT SURFACE	LINEAR FOOT	\$95.00		\$0.00
618(1)	SEEDING, TYPE A	LBS	\$50.00	185	\$9,250.00
618(3)	WATER FOR SEEDING	MGALLON	\$100.00	185	\$18,500.00
620(1)	TOPSOIL (4" DEPTH)	SQUARE YARD	\$5.50	20,550	\$113,025.00
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	\$2.50	20,550	\$51,375.00
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	\$50,000.00		\$0.00
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	\$5,000.00		\$0.00
641(3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	\$10,000.00		\$0.00
641(4)	TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS	CONTINGENT SUM	\$7,500.00		\$0.00
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	\$30,000.00	1	\$30,000.00
642(3)	THREE PERSON SURVEY PARTY	HOURLY	\$240.00	20	\$4,800.00
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	\$10,000.00	1	\$10,000.00
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	\$10,000.00	1	\$10,000.00
660(1)	TRAFFIC SIGNAL COMPLETE	EACH	\$250,000.00		\$0.00
660(3)	POLE PILING	EACH	\$2,500.00		\$0.00
660(4)	2" CONDUIT	LF	\$5.00		\$0.00
660(5)	8/3 WIRE	LF	\$3.00		\$0.00
660(6)	TYPE 1 J BOX	EACH	\$1,000.00		\$0.00
660(7)	CIRCUIT BREAKER	EACH	\$100.00		\$0.00
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	\$15,000.00	1	\$15,000.00
		BASIC BID TOTAL			\$1,003,160
		CONSTRUCTION ENGINEERING @ 15%			\$150,474
		SUBTOTAL			\$1,153,634
		25% Contingency			\$288,409
		PROJECT TOTAL			\$1,442,043



ENGINEER'S PRELIMINARY COST ESTIMATE

STATE OF ALASKA -- DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES -- CENTRAL REGION

Project Number:

Project Name: Trunk Road South Extension

Includes Trunk Road 4-Way (MSB)

Item No.	Pay Item	Pay Unit	Unit Price	Quantity	Amount
===== BASIC BID =====					
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	\$7,500.00	1	\$7,500.00
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	\$3.50	5,000	\$17,500.00
202(13)	ENVIRONMENTAL IMPACTS	CONTINGENT SUM	\$50,000.00	1	\$50,000.00
203(1)	COMMON EXCAVATION- USABLE	CUBIC YARD	\$4.00	20,000	\$80,000.00
203(3)	UNCLASSIFIED EXCAVATION - UNUSABLE	CUBIC YARD	\$7.00	10,000	\$70,000.00
203(6A)	BORROW, TYPE A	TON	\$12.00	13,650	\$163,800.00
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	\$16.00	2,260	\$36,160.00
401(1B)	ASPHALT CONCRETE, TYPE II; CLASS B	TON	\$70.00	740	\$51,800.00
603(17-18)	18 INCH PIPE, CORRUGATED STEEL PIPE	LINEAR FOOT	\$43.00	250.0	\$10,750.00
603(17-24)	24 INCH PIPE, CORRUGATED STEEL PIPE	LINEAR FOOT	\$47.00	250	\$11,750.00
609(2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	\$25.00		\$0.00
615(1)	STANDARD SIGN	SQUARE FOOT	\$65.00	100.00	\$6,500.00
617(9)	RAILROAD CROSSING, CONCRETE SURFACE	LINEAR FOOT	\$125.00	0	\$0.00
617(10)	RAILROAD CROSSING, ASPHALT SURFACE	LINEAR FOOT	\$95.00	0	\$0.00
618(1)	SEEDING, TYPE A	LBS	\$40.00	105	\$4,200.00
618(3)	WATER FOR SEEDING	MGALLON	\$40.00	105	\$4,200.00
620(1)	TOPSOIL (4" DEPTH)	SQUARE YARD	\$5.50	11,500	\$63,250.00
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	\$2.50	0	\$0.00
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	\$25,000.00	1	\$25,000.00
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	\$5,000.00	1	\$5,000.00
641(3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	\$10,000.00	1	\$10,000.00
641(4)	TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS	CONTINGENT SUM	\$7,500.00	1	\$7,500.00
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	\$30,000.00	1	\$30,000.00
642(3)	THREE PERSON SURVEY PARTY	HOURLY	\$240.00	80	\$19,200.00
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	\$25,000.00	1	\$25,000.00
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	\$10,000.00	1	\$10,000.00
660(1)	TRAFFIC SIGNAL COMPLETE	EACH	\$0.00	1	\$0.00
660(3)	POLE PILING	EACH	\$2,500.00	0	\$0.00
660(4)	2" CONDUIT	LF	\$5.00	0	\$0.00
660(5)	8/3 WIRE	LF	\$3.00	0	\$0.00
660(6)	TYPE 1 J BOX	EACH	\$1,000.00	0	\$0.00
660(7)	CIRCUIT BREAKER	EACH	\$100.00	0	\$0.00
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	\$20,000.00	1	\$20,000.00
	Right-of-Way Acquisition	LUMP SUM	\$530,700.00	1	\$530,700.00
		BASIC BID TOTAL			\$1,259,810
		CONSTRUCTION ENGINEERING @ 15%			\$188,972
		SUBTOTAL			\$1,448,782
		25% Contingency			\$362,195
		PROJECT TOTAL			\$1,810,977

