

**Wasilla Alaska Railroad Relocation Project
Budget Level Construction Cost Estimate**

Alternative A

Item No.	Work Description	Unit	Estimated Quantity	Unit Price	Total Bid Price
201	Clearing and Grubbing	Acre	147	2,300	338,100
202	Removal of Structures	Each	25	25,000	625,000
203	Unclassified Excavation	Cubic Yard	737,000	3.00	2,211,000
203	Muck Excavation	Cubic Yard	59,300	6.00	355,800
203	Removal of Existing Railroad Ties and Rails	Mile	6	50,000	300,000
203	Unclassified Fill	Ton	1,343,000	0.50	671,500
203	Borrow, Type A	Ton	794,300	2.50	1,985,750
203	Sub-Ballast	Ton	60,900	2.50	152,250
509	Grade Separated Railroad Crossings	Each	2	3,000,000	6,000,000
510	Railroad Bridge	Each	1	800,000	800,000
603	Culverts, Various Sizes	Lineal Foot	2,000	50	100,000
613	Right-of-Way Monuments	Each	100	400	40,000
618	Seed	Pound	14,500	30.00	435,000
618	Fertilizer	Pound	36,200	2.00	72,400
618	Topsoil	Acre	150	2,400	360,000
618	Soil Stabilization Material	Job	1	150,000	150,000
630	Geotextile	Square Yard	56,000	1.00	56,000
640	Mobilization and Demobilization	Job	1	1,000,000	1,000,000
641	Temporary Erosion and Pollution Controls	Job	1	80,000	80,000
641	Silt Fence	Lineal Foot	58,000	4.00	232,000
642	Construction Surveying	Month	24	20,000	480,000
642	Traffic Maintenance	Month	24	12,000	288,000
644	Field Office	Job	1	25,000	25,000
644	Field Laboratory	Job	1	50,000	50,000
644	Engineering Transportation	Month	24	2,000	48,000
671	Utility Sleeves, 12-Inch Diameter Steel	Lineal Foot	400	100	40,000
671	Utility Sleeves, 6-Inch Diameter Steel	Lineal Foot	400	60	24,000
672	Miscellaneous Utility Relocations	Job	1	300,000	300,000
672	Fiber Optic Cable	Miles	12.06	264,000	3,184,000
672	Fiber Optic Multiplex Hut and Equipment	Each	1	400,000	400,000
673	Ballast, Track and Ties	Miles	6.03	790,000	4,763,700
730	Signs	Job	1	100,000	100,000

Alternative A

\$25,667,500

**Wasilla Alaska Railroad Relocation Project
Budget Level Construction Cost Estimate**

Alternative B

Item No.	Work Description	Unit	Estimated Quantity	Unit Price	Total Bid Price
201	Clearing and Grubbing	Acre	151	2,300	347,300
202	Removal of Structures	Each	30	25,000	750,000
203	Unclassified Excavation	Cubic Yard	1,088,000	3.00	3,264,000
203	Muck Excavation	Cubic Yard	59,300	6.00	355,800
203	Removal of Existing Railroad Ties and Rails	Mile	6	50,000	300,000
203	Unclassified Fill	Ton	1,983,000	0.50	991,500
203	Borrow, Type A	Ton	3,618,000	2.50	9,045,000
203	Sub-Ballast	Ton	56,960	2.50	142,400
509	Grade Separated Railroad Crossings	Each	2	3,000,000	6,000,000
510	Railroad Bridge	Each	1	800,000	800,000
603	Culverts, Various Sizes	Lineal Foot	3,000	50	150,000
613	Right-of-Way Monuments	Each	120	400	48,000
618	Seed	Pound	18,000	30	540,000
618	Fertilizer	Pound	40,000	2.00	80,000
618	Topsoil	Acre	180	2,400	432,000
618	Soil Stabilization Material	Job	1	300,000	300,000
630	Geotextile	Square Yard	56,000	1.00	56,000
640	Mobilization and Demobilization	Job	1	1,000,000	1,000,000
641	Temporary Erosion and Pollution Controls	Job	1	80,000	80,000
641	Silt Fence	Lineal Foot	60,000	4.00	240,000
642	Construction Surveying	Month	24	20,000	480,000
642	Traffic Maintenance	Month	24	12,000	288,000
644	Field Office	Job	1	25,000	25,000
644	Field Laboratory	Job	1	50,000	50,000
644	Engineering Transportation	Month	24	2,000	48,000
671	Utility Sleeves, 12-Inch Diameter Steel	Lineal Foot	400	100	40,000
671	Utility Sleeves, 6-Inch Diameter Steel	Lineal Foot	400	60	24,000
672	Miscellaneous Utility Relocations	Job	1	300,000	300,000
672	Fiber Optic Cable	Miles	11.28	264,000	2,978,000
672	Fiber Optic Multiplex Hut and Equipment	Each	1	400,000	400,000
673	Ballast, Track and Ties	Miles	5.64	500,000	2,820,000
730	Signs	Job	1	100,000	100,000

Alternative B

\$32,475,000

**Wasilla Alaska Railroad Relocation Project
Budget Level Construction Cost Estimate**

Alternative C

Item No.	Work Description	Unit	Estimated Quantity	Unit Price	Total Bid Price
201	Clearing and Grubbing	Acre	149	2,300	342,700
202	Removal of Structures	Each	28	25,000	700,000
203	Unclassified Excavation	Cubic Yard	1,347,700	3.00	4,043,100
203	Muck Excavation	Cubic Yard	59,300	6.00	355,800
203	Removal of Existing Railroad Ties and Rails	Mile	6.03	50,000	301,500
203	Unclassified Fill	Ton	2,456,200	0.50	1,228,100
203	Borrow, Type A	Ton	2,554,200	2.50	6,385,500
203	Sub-Ballast	Ton	56,560	2.50	141,400
509	Grade Separated Railroad Crossings	Each	2	3,000,000	6,000,000
510	Railroad Bridge	Each	1	800,000	800,000
603	Culverts, Various Sizes	Lineal Foot	3,000	50	150,000
613	Right-of-Way Monuments	Each	164	400	65,600
618	Seed	Pound	16,000	30	480,000
618	Fertilizer	Pound	36,000	2.00	72,000
618	Topsoil	Acre	180	2,400	432,000
618	Soil Stabilization Material	Job	1	300,000	300,000
630	Geotextile	Square Yard	56,000	1.00	56,000
640	Mobilization and Demobilization	Job	1	1,000,000	1,000,000
641	Temporary Erosion and Pollution Controls	Job	1	80,000	80,000
641	Silt Fence	Lineal Foot	60,000	4.00	240,000
642	Construction Surveying	Month	24	20,000	480,000
642	Traffic Maintenance	Month	24	12,000	288,000
644	Field Office	Job	1	25,000	25,000
644	Field Laboratory	Job	1	50,000	50,000
644	Engineering Transportation	Month	24	2,000	48,000
671	Utility Sleeves, 12-Inch Diameter Steel	Lineal Foot	400	100	40,000
671	Utility Sleeves, 6-Inch Diameter Steel	Lineal Foot	400	60	24,000
672	Miscellaneous Utility Relocations	Job	1	300,000	300,000
672	Fiber Optic Cable	Miles	11.20	264,000	2,957,000
672	Fiber Optic Multiplex Hut and Equipment	Each	1	400,000	400,000
673	Ballast, Track and Ties	Miles	5.60	500,000	2,800,000
730	Signs	Job	1	100,000	100,000

Alternative C

\$30,685,700

**Wasilla Alaska Railroad Relocation Project
Budget Level Construction Cost Estimate**

Alternative D

Item No.	Work Description	Unit	Estimated Quantity	Unit Price	Total Bid Price
201	Clearing and Grubbing	Acre	213	2,300	489,900
202	Removal of Structures	Each	35	25,000	875,000
203	Unclassified Excavation	Cubic Yard	659,500	3.00	1,978,500
203	Muck Excavation	Cubic Yard	59,300	6.00	355,800
203	Removal of Existing Railroad Ties and Rails	Mile	9.13	50,000	456,500
203	Unclassified Fill	Ton	945,800	0.50	472,900
203	Unusable Excavation	Cubic Yard	126,500	1.75	221,375
203	Sub-Ballast	Ton	80,590	2.50	201,475
509	Grade Separated Railroad Crossings	Each	4	2,500,000	10,000,000
510	Railroad Bridge	Each	1	800,000	800,000
603	Culverts, Various Sizes	Lineal Foot	4,000	50	200,000
613	Right-of-Way Monuments	Each	200	400	80,000
618	Seed	Pound	25,000	30	750,000
618	Fertilizer	Pound	60,000	2.00	120,000
618	Topsoil	Acre	360	2,400	864,000
618	Soil Stabilization Material	Job	1	150,000	150,000
630	Geotextile	Square Yard	56,000	1.00	56,000
640	Mobilization and Demobilization	Job	1	1,000,000	1,000,000
641	Temporary Erosion and Pollution Controls	Job	1	80,000	80,000
641	Silt Fence	Lineal Foot	84,000	4.00	336,000
642	Construction Surveying	Month	24	20,000	480,000
642	Traffic Maintenance	Month	24	12,000	288,000
644	Field Office	Job	1	25,000	25,000
644	Field Laboratory	Job	1	50,000	50,000
644	Engineering Transportation	Month	24	2,000	48,000
671	Utility Sleeves, 12-Inch Diameter Steel	Lineal Foot	800	100	80,000
671	Utility Sleeves, 6-Inch Diameter Steel	Lineal Foot	800	60	48,000
672	Miscellaneous Utility Relocations	Job	1	300,000	300,000
672	Fiber Optic Cable	Miles	15.96	264,000	4,213,000
672	Fiber Optic Multiplex Hut and Equipment	Each	1	400,000	400,000
673	Ballast, Track and Ties	Miles	7.98	500,000	3,990,000
730	Signs	Job	1	100,000	100,000

Alternative D

\$29,509,450

**Wasilla Alaska Railroad Relocation Project
Budget Level Construction Cost Estimate**

Alternative E

Item No.	Work Description	Unit	Estimated Quantity	Unit Price	Total Bid Price
201	Clearing and Grubbing	Acre	205	2,300	471,500
202	Removal of Structures	Each	28	25,000	700,000
203	Unclassified Excavation	Cubic Yard	2,515,000	3.00	7,545,000
203	Muck Excavation	Cubic Yard	59,300	6.00	355,800
203	Removal of Existing Railroad Ties and Rails	Mile	9.13	50,000	456,500
203	Unclassified Fill	Ton	4,003,000	0.50	2,001,500
203	Unusable Excavation	Cubic Yard	286,420	1.75	501,235
203	Sub-Ballast	Ton	80,590	2.50	201,475
509	Grade Separated Railroad Crossings	Each	3	3,000,000	9,000,000
510	Railroad Bridge	Each	1	800,000	800,000
603	Culverts, Various Sizes	Lineal Foot	4,000	50	200,000
613	Right-of-Way Monuments	Each	180	400	72,000
618	Seed	Pound	20,360	30	610,800
618	Fertilizer	Pound	50,900	2.00	101,800
618	Topsoil	Acre	360	2,400	864,000
618	Soil Stabilization Material	Job	1	300,000	300,000
630	Geotextile	Square Yard	56,000	1.00	56,000
640	Mobilization and Demobilization	Job	1	1,000,000	1,000,000
641	Temporary Erosion and Pollution Controls	Job	1	80,000	80,000
641	Silt Fence	Lineal Foot	84,000	4.00	336,000
642	Construction Surveying	Month	24	20,000	480,000
642	Traffic Maintenance	Month	24	12,000	288,000
644	Field Office	Job	1	25,000	25,000
644	Field Laboratory	Job	1	50,000	50,000
644	Engineering Transportation	Month	24	2,000	48,000
671	Utility Sleeves, 12-Inch Diameter Steel	Lineal Foot	800	100	80,000
671	Utility Sleeves, 6-Inch Diameter Steel	Lineal Foot	800	60	48,000
672	Miscellaneous Utility Relocations	Job	1	300,000	300,000
672	Fiber Optic Cable	Miles	15.42	264,000	4,071,000
672	Fiber Optic Multiplex Hut and Equipment	Each	1	400,000	400,000
673	Ballast, Track and Ties	Miles	7.71	500,000	3,855,000
730	Signs	Job	1	100,000	100,000

Alternative E

\$35,398,610