

01 Cost Summary

**MICHAEL BAKER JR., INC.**  
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 Phone: (907) 562-1399 FAX: (907) 562-9901  
**Client: Alaska Natural Gas Development Authority**  
 Project: Construct 24" gas spur P/L, one season  
 Spread No.: 1 summer work

**Date:** 15-Mar-05  
 Class 1 location  
 MAOP 2500 psi  
 pipe dia. 24 inches  
 Pipe w.t. 0.521 inches  
 Pipe wt/ft. 131 pounds  
 Length 79.3 miles  
 Length 418,704 feet  
 Duration 94 shifts

**COST SUMMARY**

<b>CONSTRUCTION COSTS</b>			<b>(\$m)</b>	<b>(\$)</b>
<b>UNIT</b>	<b>DESCRIPTION</b>		<b>Total Cost</b>	<b>Cost/ft.</b>
1	Direct Contractor Construction Costs	\$	44,826	\$ 107.06
2	Indirect Contractor Construction Costs	\$	21,879	\$ 52.25
	<b>Sub-total Contractor Construction Costs</b>	<b>\$</b>	<b>66,705</b>	<b>\$ 159.31</b>
3	Contractor Markup (20% overhead and profit)			
	<b>Sub-total Contractor Markup</b>	<b>\$</b>	<b>13,341</b>	<b>\$ 31.86</b>
	<b>Total Contractor Costs</b>	<b>\$</b>	<b>80,046</b>	<b>\$ 191.18</b>
<b>MATERIAL COSTS</b>				
1	Material (includes freight)			
	<b>Total Material Costs</b>	<b>\$</b>	<b>67,701</b>	<b>\$ 161.69</b>
<b>MISCELLANEOUS COSTS</b>				
1	Cathodic system protection (allowance, \$18,000 per mile)	\$ 18,000	\$ 1,427	\$ 3.41
2	SCADA and Communications ( allowance, \$3.00 per foot)	\$ 3.00	\$ 1,256	\$ 3.00
3	Camp, mobilization, setup, & demobilize (subcontract, LS)	LS	\$ -	\$ -
4	Medical Facility (ambulance, equipment, facility, training) \$125K ea per ANGDA	LS	\$ 125	\$ 0.30
5	Unload, haul and stockpile pipe & materials, based on pipe weight per cwt @4.30	547,011	\$ 2,352	\$ 5.62
6	Gravel Royalty @ 0.75 per cyd	418,704	\$ 314	\$ 0.75
7	Air freight supplies, etc @ \$25.00 per cwt	940	\$ 24	\$ 0.06
8	Open pits, mine and process material, cubic yards at \$9.50 per cubic yd.	150,000	\$ 1,425	\$ 3.40
9	HDD, stream crossings (allowance, \$950 per foot, 14 total @ 900-ft each)	\$ 950	\$ 11,970	\$ 28.59
	<b>Total Miscellaneous Costs</b>	<b>\$</b>	<b>18,893.185</b>	<b>\$ 45.12</b>
<b>PROJECT INDIRECT COSTS</b>				
			<b>Cost per ft.</b>	
1	Detailed Engineering	\$ 19.28	\$ 8,073	\$ 19.28
2	Surveying	\$ 3.00	\$ 1,256	\$ 3.00
3	Permitting	\$ 3.74	\$ 1,566	\$ 3.74
4	Quality Control	\$ 11.61	\$ 4,861	\$ 11.61
5	Project Management, etc.	\$ 25.48	\$ 10,669	\$ 25.48
6	Puchasing and expediting	\$ 3.74	\$ 1,566	\$ 3.74
	<b>Total Project Indirect Costs</b>	<b>\$</b>	<b>27,990</b>	<b>\$ 66.85</b>
	<b>SUB-TOTAL, TOTAL PIPELINE COSTS</b>	<b>\$</b>	<b>194,631</b>	<b>\$ 464.84</b>
<b>OWNERSHIP COSTS</b>				
1	Project management	\$	-	\$ -
2	Cost of Money	\$	-	\$ -
	<b>Total Ownership Costs</b>	<b>\$</b>	<b>-</b>	<b>\$ -</b>
<b>CONTINGENCY ALLOWANCE</b>				
1	Contingency			
	<b>Total Contingency cost</b>			<b>\$ -</b>
	<b>TOTAL SUMMER CONSTRUCTION PIPELINE COSTS ("Level 0" cost estimate)</b>	<b>\$</b>	<b>194,630.858</b>	<b>\$ 464.84</b>