

# CAMP COSTS



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## FLOATING CAMP - Alaska Solutions

6/5/2009

### SUMMARY OF CONSTRUCTION CAMP COSTS

Construction Season/Year	Start	Finish	# Mo	Amount
Construction Season 2009	06/01/09	11/30/09	6	2,261,975
Construction Season 2010	04/01/10	11/30/10	8	3,004,300
Construction Season 2011	04/01/11	11/30/11	8	3,004,300
Construction Season 2012	04/01/12	05/31/12	2	702,425

(Excludes AKDOT Employees) **Subtotal \$ 8,973,000**

**Mob/Demob Costs (included in BI 640 (1) Mobilization and Demobilization)**

1 Camp Mob (Ketchikan to Project)	1 LS	20,000	20,000
2 Camp DeMob (Project to Ketchikan)	1 LS	20,000	20,000

**Total \$ 40,000**

**PER DIEM (for workers that travel from Juneau or live in trailer camp)**

	FOH	Roadway	Bridge	Other	Subtotal
Est Work Mandays	24,000	18,700	14,040	7,000	63,740
Per Diem Mandays	8,400	6,545	4,914	2,450	22,309
Percent of Work Mandays 35%				Daily Per Diem Rate	75
				<b>Project Per Diem Cost</b>	<b>1,673,175</b>

**Total Construction Camp and Per Diem Costs \$10,646,175**

**Additional Options**

1 Satellite Phones	8 Months	4,160	33,280
4 Number of Phones			
1000 Monthly Minutes			
\$ 1.00 Cost per Minute			
40 Monthly Fee			
2 Satellite Internet	8 Months	39,000	312,000
2 Number of Units			
3,000 Monthly MB to and from Server			
\$ 6.50 Cost per MB			

## CAMP COSTS FLOATING CAMP - Alaska Solutions

6/5/2009

<b>Construction Season 2009 Duration</b>	<b>Full Capacity</b>	<b>88</b>
	<b>Average Capacity</b>	<b>70</b>

April	0	August	31
May	0	September	30
June	30	October	31
July	31	November	30

Total Number of Calendar Days per Construction Season = 183

# Description	Quantity	Unit	Unit Price	Subtotal
1 Bare Cost (8-month construction season)	183 Days		6,639	1,215,000
2 Off-Season Maint and Inspection	182 Days		Included in Item #1	
3 Crew Cost (2 Cooks, 1 Engineer, 2 Housecleaning/Laundry)	183 Days		2,700	494,100
4 Fuel Fuel Usage      200 Gallons/Day \$ 2.25 Cost/Gallon of Marine Fuel	183 Days		450	82,350
5 Food 70 Average # of Workers in Camp \$ 30.00 Cost per Worker per Day for Food Stuff	183 Days		2,100	384,300
6 Trash Handling and Disposal	183 Days		75	13,725
7 Insurance (75% of annual premium)	1 LS		37,500	37,500
8 Annual Barge Roundtrip Cost to Juneau for Maintenance and Inspection	1 LS		20,000	20,000
9 Annual Anchor Setting Fee at Camp Location	1 LS		15,000	15,000
10 Satellite TV	6 Months		300	1,800
<b>8-Month Seasonal Cost</b>				<b>\$ 2,261,975</b>
<b>Avg Cost per Day</b>				<b>\$ 12,361</b>
<b>Avg Cost Per Person (Full Camp) per Day</b>				<b>\$ 140.46</b>

## CAMP COSTS FLOATING CAMP - Alaska Solutions

6/5/2009

**Construction Season 2010 Duration**      Full Capacity      88  
                                                                                  Average Capacity      70

April	30	August	31
May	31	September	30
June	30	October	31
July	31	November	30

Total Number of Calendar Days per Construction Season =      244

# Description	Quantity	Unit	Unit Price	Subtotal
1 Bare Cost (8-month construction season)	244 Days		6,639	1,620,000
2 Off-Season Maint and Inspection	121 Days		Included in Item #1	
3 Crew Cost (2 Cooks, 1 Engineer, 2 Housecleaning/Laundry)	244 Days		2,700	658,800
4 Fuel Fuel Usage      200 Gallons/Day \$ 2.25 Cost/Gallon of Marine Fuel	244 Days		450	109,800
5 Food 70 Average # of Workers in Camp \$ 30.00 Cost per Worker per Day for Food Stuff	244 Days		2,100	512,400
6 Trash Handling and Disposal	244 Days		75	18,300
7 Insurance	1 LS		50,000	50,000
8 Annual Barge Roundtrip Cost to Juneau for Maintenance and Inspection	1 LS		20,000	20,000
9 Annual Anchor Setting Fee at Camp Location	1 LS		15,000	15,000
10 Satellite TV	8 Months		300	2,400
<b>8-Month Seasonal Cost</b>				<b>\$ 3,004,300</b>
<b>Avg Cost per Day</b>				<b>\$ 12,313</b>
<b>Avg Cost Per Person (Full Camp) per Day</b>				<b>\$ 139.92</b>



## CAMP COSTS FLOATING CAMP - Alaska Solutions

6/5/2009

<b>Construction Season 2012 Duration</b>	<b>Full Capacity</b>	<b>88</b>
<b>FLOATING CAMP - Alaska Solutions</b>	<b>Average Capacity</b>	<b>40</b>

April	30	August	0
May	31	September	0
June	0	October	0
July	0	November	0

Total Number of Calendar Days per Construction Season = 61

# Description	Quantity	Unit	Unit Price	Subtotal
1 Bare Cost (8-month construction season)	61	Days	6,639	405,000
2 Off-Season Maint and Inspection	304	Days	Included in Item #1	
3 Crew Cost (2 Cooks, 1 Engineer, 2 Housecleaning/Laundry)	61	Days	2,700	164,700
4 Fuel Fuel Usage	61	Days	450	27,450
200 Gallons/Day \$ 2.25 Cost/Gallon of Marine Fuel				
5 Food	61	Days	1,200	73,200
40 Average # of Workers in Camp \$ 30.00 Cost per Worker per Day for Food Stuff				
6 Trash Handling and Disposal	61	Days	75	4,575
7 Insurance	1	LS	12,500	12,500
8 Annual Barge Roundtrip Cost to Juneau for Maintenance and Inspection	0	LS	20,000	0
9 Annual Anchor Setting Fee at Camp Location	1	LS	15,000	15,000
10 Satellite TV	2	Months	300	600
<b>8-Month Seasonal Cost</b>				<b>\$ 702,425</b>

Avg Cost per Day \$ 11,515

**Avg Cost Per Person (Full Camp) per Day \$ 130.85**

# CAMP COSTS

## FLOATING CAMP - Alaska Solutions

6/5/2009

### Telephone Conversation Record

**DATE:** May 7, 2009

**TO:** Nick Salisbury, CRUX Subsurface, Inc., Spokane Valley, WA @ 509-892-9409  
www.alaskasolutions.com (for info on and pictures of the barge camp)

**FROM:** Bill Creger, David Evans and Associates, Vancouver, WA @360-314-1600

**RE:** Floating Camp Pricing for the Juneau Access Improvements Project

Alaska Solutions is the name of the barge camp offered for use by CRUX Subsurface who performs geotechnical work in Alaska. The barge camp was recently refitted in 2008 with a capacity for 88 construction workers.

A crew of 5 with Head Cook, Bull Cook, Engineer, and two housekeepers/laundry persons working seven 10-hour shifts at prevailing wage would have composite hourly rates of roughly the following:

#	Description	Rate	Unit	# of Units		Subtotal
1	Head Cook	\$70	per Hour	10	=	700
1	Bull Cook	\$50	per Hour	10	=	500
1	Engineer	\$500	per Day	1	=	500
2	Cleaning/Laun:	\$50	per Hour	10	=	1,000
Rates include Jones Act Insurance and MEL?						
<b>Subtotal</b>						<b>2,700 per day</b>

Annual bare boat charter fee for Alaska Solutions, for 8-month season, would be \$1,800,000 and would include maintenance and inspections in Juneau dock during 4-month off season.

Cost for roundtrip tow to Juneau and back each season would be approximately \$20,000. Cost for initial mob from Ketchikan to Berner's Bay or Comet would be about \$20,000. Annual anchor pulling and setting fee would be \$15,000. P&I (Protection and Incident) insurance would run \$50,000 per year.

Average daily fuel use would be 200 gallons/day on marine diesel fuel which runs \$2.25 per gallon. There is a 30,000 gallon fuel storage tank on the barge and generally needs to be refueled/filled once a month when in full operation.

Food would run from \$25 to \$35 per day per person and that includes the cost of procuring and transporting the food to the construction camp.

Fuel barges run on regular schedules up and down Southeast Alaska providing fuel to various locations. A couple of those companies are Petro-Alaska (Seattle) and Delta Western (?). There is at least one more company, but couldn't think of name.

Barge comes with 4 each satellite phone lines (on the Iridium satellite system) and cost roughly \$1/min to operate the phones. Also comes with Starbound internet system. Server for internet is not provided. Satellite TV dish is mounted on the barge and monthly fee runs a few hundred per month.



# FIELD OVERHEAD (FOH) COSTS



**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**GENERAL PROJECT ACTIVITY DURATIONS**

		<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
1. Pre-Job Planning and Mob (covered in Mob/Demob)	Mob 1	04/01/09	06/30/09	90	Calendar Days
	Mob 2	12/01/09	03/31/10	120	Calendar Days
				210	Calendar Days
				180	Work Days
				7	Months

	<b>Year</b>	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
2. Project Construction (Heavy) (covered in this item)	1	07/01/09	11/30/09	152	Calendar Days
	2	04/01/10	11/30/10	243	Calendar Days
	3	04/01/11	11/30/11	243	Calendar Days
	4	04/01/12	06/30/12	90	Calendar Days
			Subtotal	728	Calendar Days
			624	Work Days	
			25	Months	

	<b>Year</b>	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
3. Project Construction (Light) (covered in this item)	4	07/01/12	09/30/12	91	Calendar Days
			Subtotal	91	Calendar Days
				78	Work Days
			4	Months	

	<b>Year</b>	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
4. Winter Shutdown (covered in this item) (minimal construction activity)	1	12/01/09	03/31/10	120	Calendar Days
	2	12/01/10	03/31/11	120	Calendar Days
	3	12/01/11	03/31/12	121	Calendar Days
			Subtotal	361	Calendar Days
			310	Work Days	
			12	Months	

	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
5. Clean-up & Demob (covered in Mob/Demob)	10/01/12	11/30/12	60	Calendar Days
			52	Work Days
			2	Months

	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
6. Project Closeout (covered in this item)	12/01/12	05/31/13	181	Calendar Days
			156	Work Days
			6	Months

**FIELD OVERHEAD (FOH) COSTS**  
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6/5/2009

**FOH Assumptions**

General Project Activity Durations used to help determine FOH costs for various phases of the project, as detailed below  
 Pre-Job planning and mob/demob staff time, Items #1 and #5 above, are included on "Mob/Demob" spreadsheet  
 Assume avg 6 - 10 hour workdays per week for all indicated work periods  
 Project Construction (Heavy) are periods during which full project staff is on the job  
 Project Construction (Light) are periods during which light project staff is on the job  
 Road maintenance crews will work only during 8-month construction season  
 Shutdown roadwork and most bridgework during winter for approximately 4-months  
 QC material testing facilities (included), AKDOT QA test facilities not included  
 Construction camp and worker per diem costs are included in "Camp Costs"  
 Cost related to construction equipment fuel distribution and FOH fuel, see "FOH - Fuel Distribution" spreadsheet

**FOH Activities**

Field staff directs and monitors the field construction effort  
 Eagle Expert will work half time during all work except last season  
 Marine Mammal Expert will average work less than half time and not during last season  
 Road maintenance, 2 separate crews, working all but first and most of last seasons  
 Fuel distribution system for vehicles and storage tanks (see next spreadsheet)

**2. Project Construction (Heavy)**

<b>Labor (Supervision)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Manager	1	83.87	10	624	523,323	
General Superintendent	1	83.87	10	624	523,323	
Excavation Superintendent	2	69.89	10	624	872,204	
Bridge Superintendent	1	69.89	10	624	436,102	
Master Mechanic	1	69.89	10	624	436,102	
Ass't Mechanic	2	50.32	10	624	627,987	
	8					3,419,042
<b>Labor (Engineering)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Safety Engineer/EMT	2	69.89	10	624	872,204	
CPM Scheduler	1	67.09	10	624	418,658	
QC Supervisor	2	64.30	10	624	802,428	
Office Engineer	1	55.91	10	624	348,882	
Project Engineer	2	53.12	10	624	662,875	
Field Engineer	2	44.73	10	624	558,211	
	10					3,663,259
<b>Labor (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Field Office Manager	1	55.91	10	624	348,882	
Receptionist	1	39.14	10	624	244,217	
Accounting/Timekeeper	1	36.34	10	624	226,773	

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

Clerk/Data Input	1	27.96	10	624	174,441	
	4					994,313
<b>Labor (Other)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Eagle Expert	1	47.52	10	312	148,275	
Marine Mammal Expert	1	47.52	10	312	148,275	
Runner/Utility Person	2	27.96	10	624	348,882	
	4					645,431
<b>Labor (Road Maintenance)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Operating Engineer	2	59.00	10	564	665,520	
Teamster	2	52.00	10	564	586,560	
Laborer	2	49.00	10	564	552,720	
	6					1,804,800
<b>Equipment (Field)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b>Quantity</b>	<b>Subtotal</b>	<b>Subtotal</b>
PU Trucks 4x4	18	12.34	EA	3,120	693,014	
ATVs 4x4	8	10,000	EA		80,000	
ATV Vehicle Maint	8	100	Mo	31	24,800	
FB Truck, 2T	3	40,000	EA		120,000	
FB Truck Maint/Ins/Lic	3	250	Mo	31	23,250	
Forklift, 8K Telescoping	2	60,000	EA		120,000	
Forklift Maint/Ins/Lic	2	350	Mo	31	21,700	
Small Crew/Staff Boat	4	25,000	EA		100,000	
Radio System	3	5,000	EA		15,000	
Lab Trailer	1	2,000	Mo	31	62,000	
Curing Shed	2	17,000	EA		34,000	
NTESS Container	2	14,000	EA		28,000	
Mechanic Shop	2	1,500	Mo	31	93,000	
Portable Light Sets	4	7,000	EA		28,000	
Mechanic Tools/Parts	2	10,000	Mo	31	620,000	
Portable Generators, 35KW	2	15,000	EA		30,000	
Portable Generators, 12KW	2	3,000	EA		6,000	
Storage Containers	6	125	Mo	31	23,250	
Office Small Tools	2	300	Mo	31	18,600	
						2,140,614
<b>Equipment (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Month</b>	<b>Subtotal</b>	<b>Subtotal</b>
Office Trailer (800 SF)	4	250	EA	31	31,000	
Office Trailer (400 SF)	2	175	EA	31	10,850	
Office Trailer Stairs	6	50	EA	31	9,300	
Portable Generator, 35KW	3	15,000	EA		45,000	
Portable Generator, 12KW	4	3,000	EA		12,000	
Portable Fuel Tanks	6	250	EA	31	46,500	
Portable Light Sets	6	7,000	EA		42,000	

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

Portable Water Tanks	6	400	EA	31	74,400
Office Equipment					
Office Furniture	1	600	Set	31	18,600
Office Copier	4	250	EA	31	31,000
Office Phone System	1	300	EA	31	9,300
Office Drawing Copier	2	500	EA	31	31,000
Computer Hrdwr Set-up	60	2,000	EA		120,000
Computer Sftwr Set-up	60	2,000	EA		120,000
Cell Phones	100	250	EA		25,000
Cell Phone Service Plan	40	80	EA	31	99,200

725,150

<b>Equipment (Road Maintenance)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Hours</b>	<b>Subtotal</b>	<b>Subtotal</b>
Grader, 140H	2	75.68	HR	1,880	284,557	
Loader, 950	2	37.78	HR	1,880	142,053	
Dozer, D6N	2	44.00	HR	1,880	165,440	
Dump Truck	2	35.00	HR	5,640	394,800	
Haul Truck	2	35.00	HR	1,128	78,960	
Portable Generators, 35KW	2	15,000	EA		30,000	
Portable Generators, 12KW	2	3,000	EA		6,000	
Portable Water Tanks	2	400	EA	31	24,800	
Fuel Use	0	0	Gal	0	0	
(included in Fuel Costs)						
						1,126,610

<b>Materials</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Months</b>	<b>Subtotal</b>	<b>Subtotal</b>
Office Supplies	6	250	EA	25	37,500	
First Aid Supplies	2	1,500	EA	25	75,000	
Safety Supplies	2	3,000	EA	25	150,000	
						262,500

<b>Subs/Services</b>	<b>#</b>	<b>Unit</b>	<b>Rate</b>	<b>Quan</b>	<b>Subtotal</b>	<b>Subtotal</b>
Set-up Cell Phone Service	1	LS	200,000		200,000	
Fixed Wing Air Support	1	Trip	1,320	104	137,280	
(1x per Week, 2-Hrs per Trip)				(Weeks)		
Helicopter Support	1	Trip	1,500	104	156,000	
(1x per Week, 1-Hr per Trip)				(Weeks)		
Boat Support, 49 Passenger	7	Days	2,250	104	1,638,000	
(7 days per Week)				(Weeks)		
Boat Marine Fuel	104	Weeks	2.25	840	196,560	
(28x per Week @ 30-gal per RT)				(Gallons/Week)		
Airfare Seattle/Anchorage	20	Trip	1,000	3.5	70,000	
(2x per year for 10 key employees)						
						2,397,840

**Subtotal Item #2 17,179,559**

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**3. Project Construction (Light)**

<b>Labor (Supervision)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Manager	1	83.87	5	78	32,708	
General Superintendent	1	83.87	5	78	32,708	
Excavation Superintendent	1	69.89	10	78	54,513	
Bridge Superintendent	1	69.89	10	78	54,513	
Master Mechanic	1	69.89	10	78	54,513	
Ass't Mechanic	2	50.32	10	78	78,498	
	7					307,452
<b>Labor (Engineering)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Safety Engineer/EMT	1	69.89	10	78	54,513	
CPM Scheduler	1	67.09	5	78	26,166	
QC Supervisor	1	64.30	10	78	50,152	
Office Engineer	1	55.91	10	78	43,610	
Project Engineer	1	53.12	10	78	41,430	
Field Engineer	1	44.73	10	78	34,888	
	6					250,759
<b>Labor (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Field Office Manager	1	55.91	10	78	43,610	
Timekeeper/Receptionist	1	39.14	10	78	30,527	
Accounting	1	36.34	10	78	28,347	
Clerk/Data Input	1	27.96	10	78	21,805	
	4					124,289
<b>Labor (Other)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Eagle Expert	0	47.52	10	78	0	
Marine Mammal Expert	0	47.52	10	78	0	
Runner/Utility Person	1	27.96	10	78	21,805	
	1					21,805
<b>Labor (Road Maintenance)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Operating Engineer	0	59.00	10	78	0	
Teamster	0	52.00	10	78	0	
Laborer	0	49.00	10	78	0	
	0					0
<b>Equipment (Field)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b>Quantity</b>	<b>Subtotal</b>	<b>Subtotal</b>
PU Trucks 4x4	10	12.34	HR	390	48,126	
ATVs 4x4	0	15,000	EA		0	
ATV Vehicle Maint	0	100	Mo	4	0	
FB Truck, 2T	0	45,000	EA		0	

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

FB Truck, 2T Maint/Ins/Lic	1	250	Mo	4	1,000
Forklift, 8K Telescoping	0	60,000	EA		0
Forklift Maint/Ins/Lic	1	350	Mo	4	1,400
Small Crew/Staff Boat	1	350	Mo	4	1,400
Radio System	0	10,000	EA		0
Lab Trailer	1	2,000	Mo	4	8,000
Curing Shed	2	17,000	EA		34,000
NTESS Container	2	14,000	EA		28,000
Mechanic Shop	1	1,500	Mo	4	6,000
Portable Light Sets	1	7,000	EA		7,000
Mechanic Tools/Parts	1	5,000	Mo	4	20,000
Portable Generators, 35KW	0	15,000	EA		0
Portable Generators, 12KW	0	3,000	EA		0
Storage Containers	3	125	Mo	4	1,500
Office Small Tools	1	300	Mo	4	1,200
Fuel Use	0	0	Gal	0	0
(included in Fuel Costs)					

157,626

<b>Equipment (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Month</b>	<b>Subtotal</b>	<b>Subtotal</b>
Office Trailer (800 SF)	4	250	EA	4	4,000	
Office Trailer (400 SF)	2	175	EA	4	1,400	
Office Trailer Stairs	6	50	EA	4	1,200	
Portable Generator, 35KW	0	15,000	EA		0	
Portable Generator, 12KW	0	3,000	EA		0	
Portable Fuel Tanks	6	250	EA	4	6,000	
Portable Light Sets	0	900	EA	4	0	
Portable Water Tanks	6	400	EA	4	9,600	
Office Equipment						
Office Furniture	1	200	Sets	4	800	
Office Copier	4	150	EA	4	2,400	
Office Phone System	1	250	EA	4	1,000	
Office Drawing Copier	2	500	EA	4	4,000	
Computer Hrdwr Set-up	0	2,000	EA		0	
Computer Sftwr Set-up	0	2,000	EA		0	
Cell Phones	0	1,500	EA		0	
Cell Phone Service Plan	20	80	EA	4	6,400	

36,800

<b>Equipment (Road Maintenance)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Hours</b>	<b>Subtotal</b>	<b>Subtotal</b>
Grader, 140H	1	75.68	HR	260	19,677	
Loader, 950	1	37.78	HR	260	9,823	
Dozer, D6N	1	44.00	HR	260	11,440	
Dump Truck	1	35.00	HR	780	27,300	
Haul Truck	1	35.00	HR	156	5,460	
Portable Generators, 35KW	1	15,000	EA		15,000	
Portable Generators, 12KW	1	3,000	EA		3,000	
Portable Water Tanks	1	400	EA	4	1,600	



**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

Fuel Use (included in Fuel Costs)	0	0	Gal	0	0		
							93,300
<b>Materials</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Months</b>	<b>Subtotal</b>	<b>Subtotal</b>	
Office Supplies	3	250	EA	4	3,000		
First Aid Supplies	1	1,500	EA	4	6,000		
Safety Supplies	1	3,000	EA	4	12,000		
							21,000
<b>Subs/Services</b>	<b>#</b>	<b>Unit</b>	<b>Rate</b>	<b>Quan</b>	<b>Subtotal</b>	<b>Subtotal</b>	
Fixed Wing Air Support (0x per Week, 2-Hrs per Trip)	0	Trip	1,320	13 (Weeks)	0		
Helicopter Support (0x per Week, 1-Hr per Trip)	0	Trip	1,500	13 (Weeks)	0		
Boat Support, 49 Passenger (0 days per Week, up to 2 trips per day)	0	Days	2,500	13 (Weeks)	0		
Boat Marine Fuel (0x per Week @ 80-gal per RT)	0	Weeks	2.15	480 (Gallons/Week)	0		
							0
							<b>Subtotal Item #3 1,013,031</b>

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**4. Winter Shutdown**

<b>Labor (Supervision)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Manager	1	83.87	5	310	129,992	
General Superintendent	1	83.87	5	310	129,992	
Excavation Superintendent	1	69.89	5	310	108,327	
Bridge Superintendent	1	69.89	5	310	108,327	
Master Mechanic	0	69.89	5	310	0	
Ass't Mechanic	0	50.32	5	310	0	
	4					476,637
<b>Labor (Engineering)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Safety Engineer/EMT	0	69.89	5	310	0	
CPM Scheduler	1	67.09	5	310	103,994	
QC Supervisor	1	64.30	5	310	99,661	
Office Engineer	0	55.91	5	310	0	
Project Engineer	2	53.12	5	310	164,657	
Field Engineer	0	44.73	5	310	0	
	4					368,311
<b>Labor (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Field Office Manager	1	55.91	5	310	86,661	
Timekeeper/Receptionist	0	39.14	5	310	0	
Accounting	0	36.34	5	310	0	
Clerk/Data Input	0	27.96	5	310	0	
	1					86,661
<b>Labor (Camp Custodians)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Custodians	2	27.96	2	103	11,555	
	2					11,555
<b>Equipment (Field)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b>Quantity</b>	<b>Subtotal</b>	<b>Subtotal</b>
PU Trucks 4x4	2	12.34	HR	1,033	25,503	
Snowmobiles	2	20,000	EA		40,000	
						65,503
<b>Equipment (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Month</b>	<b>Subtotal</b>	<b>Subtotal</b>
Home Office Overhead (included in mark-up)	0	0	EA	0	0	
Cell Phones	0	250	EA		0	
Cell Phone Service Plan	2	80	EA	4	640	
						640

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

Materials	#	Rate	Unit	# Months	Subtotal	Subtotal
Office Supplies	1	250	EA	4	1,000	
						1,000
Subs/Services	#	Unit	Rate	Quan	Subtotal	Subtotal
Fixed Wing Air Support (0x per Week, 2-Hrs per Trip)	0	Trip	1,320	52 (Weeks)	0	
Boat Support (0x per Week)	0	Days	1,600	52 (Weeks)	0	
Boat Marine Fuel (0x per Week @ 30-gal per RT)	0	Weeks	2.15	80 (Gallons/Week)	0	
						0
					<b>Subtotal Item #4</b>	<b>1,010,307</b>

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**6. Project Closeout**

<b>Labor (Supervision)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Manager	1	83.87	6	156	78,498	
General Superintendent	1	83.87	6	156	78,498	
Excavation Superintendent	1	69.89	6	156	65,415	
Bridge Superintendent	1	69.89	6	156	65,415	
Master Mechanic	1	69.89	6	156	65,415	
Ass't Mechanic	0	50.32	6	156	0	
	5					353,243

<b>Labor (Engineering)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Safety Engineer/EMT	0	69.89	6	156	0	
CPM Scheduler	1	67.09	5	156	52,332	
QC Supervisor	1	64.30	6	156	60,182	
Office Engineer	0	55.91	6	156	0	
Project Engineer	2	53.12	6	156	99,431	
Field Engineer	0	44.73	6	156	0	
	4					211,946

<b>Labor (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Field Office Manager	1	55.91	6	156	52,332	
Timekeeper/Receptionist	0	39.14	6	156	0	
Accounting	0	36.34	6	156	0	
Clerk/Data Input	0	27.96	6	156	0	
	1					52,332

<b>Labor (Other)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Runner/Utility Person	0	27.96	10	156	0	
	0					0

<b>Equipment (Field)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b>Quantity</b>	<b>Subtotal</b>	<b>Subtotal</b>
PU Trucks, 4x4	9	12.34	HR	390	43,313	
						43,313

<b>Equipment (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Month</b>	<b>Subtotal</b>	<b>Subtotal</b>
Home Office Overhead (included in mark-up)	0	0	EA	0	0	
Cell Phones	0	150	EA		0	
Cell Phone Service Plan	10	80	EA	6	4,827	
						4,827

<b>Materials</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Months</b>	<b>Subtotal</b>	<b>Subtotal</b>
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**FIELD OVERHEAD (FOH) COSTS  
JAI - Zones 1, 2, and 3  
Echo Cove to Sweeny Creek**

6/5/2009

Office Supplies	1	250	EA	6	1,508	
						1,508
<b>Subs/Services</b>	<b>#</b>	<b>Unit</b>	<b>Rate</b>	<b>Quan</b>	<b>Subtotal</b>	<b>Subtotal</b>
Airfare to Juneau	6	Trip	1,000	3.0	18,000	
Meals, Lodging, Rental Car (trips for 3 persons w/meals, 2 nights lodging and rental car)	6	Trip	1,500		9,000	
						27,000
					Subtotal Item #6	694,169
					Subtotal Items #2, #3, #4, and #6	19,897,066
					Fuel and Fuel Distribution for FOH Vehicles and Equipment	3,018,355
					Subtract Direct Cost Amount from BI 646 (1) CPM Scheduling	-247,500
					<b>*TOTAL</b>	<b>22,667,921</b>

\* *This Item will be distributed through the Bid Schedule Items*

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**BI #642 (1) Construction Surveying**  
**Per Standard and Special Specification Section 642**

**Assumptions**

- Survey party of 3 will be required at least full-time during construction
- Support two bridge workfaces up to 25-miles apart
- Support two roadway workfaces up to 26-miles apart

**Activities**

- Recover control points from AKDOT and verify references
- Reestablish missing points before clear, grub or excavation
- Staking for clearing and grubbing limits
- Traverse and level and submit traverse closure report
- Cross-section for excavation and embankment quantities
- Slope staking
- Staking of culverts, signs, other drainage features
- Bridge staking
- Finish staking
- Measurement of pay quantities
- All other to complete the project

**Labor (Surveying)**

Surveyors (Party of 3)	2	210.00	10	654	2,746,800	
Surveyors (Party of 3)	1	210.00	10	78	163,800	
(includes vehicle, equipment, and materials)						
					Lump Sum	2,910,600
					per Hour	445.05

**BI #642 (3) Three Person Survey Party**

(Upgrade to DEA Survey rate of \$210/hr based on work in Alaska) per Hour 230

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**BI #644 (1) Field Office**

(Two Field Offices, 1 @ 1,200 SF, 1 @ 800 SF)

Office Trailer (800 sf)	2	250	EA	31	15,500
Office Trailer (400 sf)	1	175	EA	31	5,425
Office Trailer Stairs	3	50	EA	31	4,650
Portable Generator	4	15,000	EA		60,000
Portable Fuel Tanks	3	5,000	EA		15,000
Portable Water Tanks	2	7,500	EA		15,000
Fuel Use	2	2.5	Gal	40,300	201,500
(assume 25-gal per day per generator)					
Office Equipment					
Office Furniture	2	300	Sets	31	18,600
Office Copier	2	100	EA	31	6,200
Office Phone System	0	250	EA	31	0

341,875

Per Office Cost      2      170,938

**BI #644 (2) Field Laboratory**

(2 Field Laboratories)

Field Laboratories	2	2,000	Mo	33	132,000
Shipping Cost	2	8,000	LS		16,000

148,000

Per Lab Cost Each      49,333

**BI #644 (3) Curing Shed**

(2 Curing Sheds)

Curing Shed	2	17,000	LS		34,000
Shipping Cost	2	2,000	LS		4,000

Lump Sum      38,000

**BI #644 (4) Meal**

(for up to 10 AKDOT employees)

Meals per Calendar Day	#	Rate	# Days		
	10	55	per Day	879	483,450

Lump Sum      483,450

**BI #644 (5) Lodging**

(for up to 10 AKDOT employees)

Lodging per Calendar Day	#	Rate	# Days		
	10	85	per Day	879	747,150

Lump Sum      747,150

140      per day

**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**BI #644 (8a) Vehicle, 4x4 SUV**

(3 each mid-sized 4x4 SUVs)

SUV 4x4	3	25,000	EA		75,000
Vehicle Maint/Ins/Lic	3	250	Mo	33	24,750
Vehicle Fuel	3	2.50	Gal	25,740	193,050
Shipping Cost	3	1,000	LS		3,000

295,800

Vehicle Cost Per Month      216      3,181

**BI #644 (8b) Vehicle, 4x4 ATV**

(4 each 4x4 ATVs)

ATV 4x4	4	10,000	EA		40,000
Vehicle Maint/Ins/Lic	4	100	Mo	33	13,200
Vehicle Fuel	4	2.50	Gal	17,160	171,600
Shipping Cost	4	500	LS		2,000

226,800

Vehicle Cost Per Month      288      2,439

**BI #644 (15) Nuclear Testing Equipment Storage Shed**

(2 NTESSs)

NTESS Storage	2	14,000	LS		28,000
Shipping Cost	2	500	LS		1,000

Lump Sum      29,000

**BI #644 (16) Storage Container**

(Assume 2 each Storage Containers)

Storage Container	2	100	EA	33	6,600
Shipping Cost	2	500	LS		1,000

Lump Sum      7,600

**BI #646 (1) CPM Scheduling**

(Assume services during active field work only)

CPM Scheduling	1	7,500	MO	33	247,500
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Lump Sum      247,500



**FIELD OVERHEAD (FOH) COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

	Calendar Days	Work Days	Work Hours		
Avg Annual Work Hours	365	313	3,130		
<b>Classification</b>	<b>Base Salary</b>	<b>Labor Burden</b>	<b>Subtotal</b>	<b>Subtotal</b>	<b>Hourly Rate</b>
Project Manager	150,000	1.75	262,500	262,500	83.87
General Superintendent	150,000	1.75	262,500	262,500	83.87
Excavation Superintendent	125,000	1.75	218,750	218,750	69.89
Bridge Superintendent	125,000	1.75	218,750	218,750	69.89
Master Mechanic	125,000	1.75	218,750	218,750	69.89
Ass't Mechanic	90,000	1.75	157,500	157,500	50.32

<b>Classification</b>	<b>Base Salary</b>	<b>Labor Burden</b>	<b>Subtotal</b>	<b>Subtotal</b>	<b>Hourly Rate</b>
Safety Engineer/EMT	125,000	1.75	218,750	218,750	69.89
CPM Scheduler	120,000	1.75	210,000	210,000	67.09
QC Supervisor	115,000	1.75	201,250	201,250	64.30
Office Engineer	100,000	1.75	175,000	175,000	55.91
Project Engineer	95,000	1.75	166,250	166,250	53.12
Field Engineer	80,000	1.75	140,000	140,000	44.73

<b>Classification</b>	<b>Avg Base Salary</b>	<b>Labor Burden</b>	<b>Subtotal</b>	<b>Subtotal</b>	<b>Hourly Rate</b>
Field Office Manager	100,000	1.75	175,000	175,000	55.91
Receptionist	70,000	1.75	122,500	122,500	39.14
Accounting/Timekeeper	65,000	1.75	113,750	113,750	36.34
Clerk/Data Input	50,000	1.75	87,500	87,500	27.96

<b>Classification</b>	<b>Salary</b>	<b>Burden</b>	<b>Subtotal</b>	<b>Subtotal</b>	<b>Rate</b>
Eagle Expert	85,000	1.75	148,750	148,750	47.52
Marine Mammal Expert	85,000	1.75	148,750	148,750	47.52
Runner/Utility Person	50,000	1.75	87,500	87,500	27.96
Custodians	50,000	1.75	87,500	87,500	27.96



# MOBILIZATION AND DEMOBILIZATION COSTS



**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**MOB/DEMOB**

<b>1. Pre-Job Planning and Mob</b> (covered in this item)		<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
	Mob 1	04/01/09	06/30/09	90	Calendar Days
	Mob 2	12/01/09	03/31/10	120	Calendar Days
				210	Calendar Days
				180	Work Days
			7	Months	
<b>2. Project Construction (Heavy)</b> (covered in FOH)	<b>Year</b>	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
	1	07/01/09	11/30/09	152	Calendar Days
	2	04/01/10	11/30/10	243	Calendar Days
	3	04/01/11	11/30/11	243	Calendar Days
	4	04/01/12	06/30/12	90	Calendar Days
		<b>Subtotal</b>	<b>728</b>	<b>Calendar Days</b>	
			<b>624</b>	<b>Work Days</b>	
			<b>25</b>	<b>Months</b>	
<b>3. Project Construction Light</b> (covered in FOH)	<b>Year</b>	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
	4	07/01/12	09/30/12	91	Calendar Days
			<b>Subtotal</b>	<b>91</b>	<b>Calendar Days</b>
			<b>78</b>	<b>Work Days</b>	
			<b>4</b>	<b>Months</b>	
<b>4. Winter Shutdown</b> (covered in FOH)	<b>Year</b>	<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
	1	12/01/09	03/31/10	120	Calendar Days
	2	12/01/10	03/31/11	120	Calendar Days
	3	12/01/11	03/31/12	121	Calendar Days
		<b>Subtotal</b>	<b>361</b>	<b>Calendar Days</b>	
			<b>310</b>	<b>Work Days</b>	
			<b>12</b>	<b>Months</b>	
<b>5. Clean-up &amp; Demob</b> (covered in this item)		<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
		10/01/12	11/30/12	60	Calendar Days
				52	Work Days
			2	Months	
<b>6. Project Closeout</b> (covered in FOH)		<b>Start</b>	<b>Finish</b>	<b>Duration</b>	
		12/01/12	05/31/13	181	Calendar Days
				156	Work Days
			6	Months	

**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**Assumptions**

Pre-Job planning and mob/demob staff time included in costs per Section 640 of the Standard and Special Specifications  
 Assume avg 6 - 10 hour workdays per week for all indicated work periods  
 Construction camp and construction offices operations costs included in "Camp Costs"

**Mob/Demob Activities**

Mob 1 - Staff for pre-job planning, contract admin paperwork, and planning for mob 1st season  
 Mob 2 - Staff for pre-job planning, contract admin paperwork, and planning for mob 2nd season  
 Mob/Demob construction camp, offices, and mechanic shops  
 Construct and deconstruct temporary road from camp to (E) Jualin Road  
 Construct and deconstruct temporary staging area near north end of Lace River Bridge  
 Mob/Demob construction equipment to jobsite  
 Mob/Demob materials to staging area in/near Juneau  
 Mob/Demob construction materials to jobsite included in respective bid items

**1. Pre-Job Planning and Mob**

<b>Labor (Supervision)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Manager	1	83.87	10	180	150,958	
CPM Schedule	1	69.89	10	180	125,799	
General Superintendent	1	83.87	10	180	150,958	
Excavation Superintendent	2	69.89	10	180	251,597	
Bridge Superintendent	1	69.89	10	180	125,799	
Master Mechanic	1	69.89	10	180	125,799	
Ass't Mechanic	2	50.32	10	30	30,192	
	9					961,102
<b>Labor (Engineering)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Engineer	2	53.12	10	180	191,214	
Field Engineer	2	44.73	10	180	161,022	
QC Supervisor	2	64.30	10	180	231,470	
Office Engineer	1	55.91	10	180	100,639	
Safety Engineer/EMT	2	69.89	10	30	41,933	
	9					726,278
<b>Labor (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Field Office Manager	1	55.91	10	180	100,639	
Clerk/Data Input	1	27.96	10	180	50,319	
Accounting	1	36.34	10	180	65,415	
Timekeeper/Receptionist	1	39.14	10	180	70,447	
	4					286,821

**MOB/DEMOB COSTS  
JAI - Zones 1, 2, and 3  
Echo Cove to Sweeny Creek**

6/5/2009

Labor (Other)	#	Rate	Hrs/Day	#Days	Subtotal	Subtotal
Runner/Utility Person	0	27.96	10	180	0	
Eagle Expert	0	47.52	10	180	0	
Marine Mammal Expert	0	47.52	10	180	0	
	0					0

**Juneau and Site Barge Unload and Staging**

Unload and store materials in Juneau                      15 Shifts  
Unload and store materials on site                               20 Shifts

Subtotal Shifts                      35 Shifts

Labor (Barge Staging)	#	Rate	Hrs/Day	#Shifts	Subtotal	Subtotal
Foreman	1	63.00	10	35	22,050	
Operating Engineer	1	59.00	10	35	20,650	
Crane Operator	1	65.00	10	20	13,000	
Teamsters	1	52.00	10	35	18,200	
Laborers	2	49.00	10	35	34,300	
	6					108,200

Equipment (Camp Pads, Road)	#	Rate	Unit	Quantity	Subtotal	Subtotal
PU Trucks 4x4	1	12.34	HR	175	2,160	
Haul Trucks (see below)	0		HR		0	
Forklift, 8T	2	1,600.00	MO	6	19,200	
						21,360

Materials	#	Rate	Unit	# Months	Subtotal	Subtotal
Rigging	1	50,000	LS		50,000	
Fuel, Diesel	3,500	2.25	Gal		7,875	
						57,875

**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**Site Activities**

Clear and grub field office pad and maint shops	255,360 SF	
Clear and grub access road/staging area	260,240 SF	
<i>Subtotal for clear and grub</i>	515,600 SF	7 Shifts
Field office camp offices and parking pad	85,120 SF	
Mechanical Shop pad           2       85,120	170,240 SF	
Staging area for Bridge materials and equip	170,240 SF	
<i>Subtotal for pads</i>	425,600 SF	27 Shifts
Access road from camp to (E) Jualin Road	90,000 SF	21 Shifts
Deconstruct of all pads, staging areas, and temp roads		31 Shifts

Total Shifts                   86

<b>Labor (Camp Pads, Road)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Shifts</b>	<b>Subtotal</b>	<b>Subtotal</b>
Foreman	1	63.00	10	86	54,180	
Operating Engineer	2	59.00	10	86	101,480	
Teamster	2	52.00	10	86	89,440	
Laborer	2	49.00	10	86	84,280	
Per Diem	7	75.00		86	45,150	
(not included in Construction Camp and Per Diem)						
	7					374,530

<b>Equipment (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Month</b>	<b>Subtotal</b>	<b>Subtotal</b>
Cell Phones	2	250	EA		500	
Cell Phone Service Plan	2	80	EA	4	640	
						1,140

<b>Equipment (Camp Pads, Road)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b>Quantity</b>	<b>Subtotal</b>	<b>Subtotal</b>
PU Trucks 4x4	1	12.34	HR	175	2,160	
Forklift, 8T	1	1,600.00	MO	4	6,400	
						8,560

<b>Equipment (Camp Pads, Road)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b>Quantity</b>	<b>Subtotal</b>	<b>Subtotal</b>
PU Trucks 4x4	2	12.34	HR	860	21,225	
Excavator, 330	1	73.85	HR	430	31,756	
Dozer, D8T	2	102.00	HR	430	87,720	
Dump Truck, 730	2	78.50	HR	430	67,510	
Grader	1	75.68	HR	287	21,695	
Vibratory Roller	1	38.75	HR	172	6,665	
Storage Containers	2	125	Mo	4	1,000	
Portable Generators	2	1,060	Mo	4	8,480	
Portable Light Sets	2	900	Mo	4	7,200	
Fuel Storage Tanks	1	250	Mo	4	1,000	



**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

Safety Supplies	1	500	Mo	4	2,000	
						256,250
<b>Materials</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Months</b>	<b>Subtotal</b>	<b>Subtotal</b>
Aggregate for Pad	31,526	10	CY		315,259	
Aggregate for Temp Road	16,667	10	CY		166,667	
Fileter Fabric	515,600	0	SF		51,560	
Fuel, Diesel	10,750	2.25	Gal		24,188	
						557,673
<b>Subs/Services</b>	<b>#</b>	<b>Unit</b>	<b>Rate</b>	<b>Quan</b>	<b>Subtotal</b>	<b>Subtotal</b>
<b>PreMob Services</b>						
Helicopter Support (1x trips per month)	1	Trip	1,500	3 (# of Months)	4,500	
Airfare Seattle/Anchorage (3 employees per month)	3	Trip	1,000	3 (# of Months)	9,000	
Hotel/Food/Rental Car (3 employees for 3 days and nights)	3	Trip	2,250		6,750	
<b>During Mob 1 Services</b>						
Trucking Zone 1 Equip	160	HRs	80		12,800	
Barge Zone 2,3 Equip	3	Trips	30,000		90,000	
Float Plane Air Support (1x trips per week)	1	Trip	1,320	8 (# of Weeks)	10,560	
Helicopter Support (1x trips per week)	1	Trip	1,500	8 (# of Weeks)	12,000	
Airfare Seattle/Anchorage (3 employees per month)	3	Trip	1,000	3 (# of Months)	9,000	
Hotel/Food/Rental Car (3 employees for 3 days and nights)	3	Trip	2,250		6,750	
<b>During Construction Field Office Pad and Access Road Work</b>						
Float Plane Air Support (1x trips per week)	1	Trip	1,320	9 (# of Weeks)	11,880	
Helicopter Support (1x trips per week)	1	Trip	1,500	9 (# of Weeks)	13,500	
Boat Support (6x to and from Slate Cove per week)	6	Trip	2,500	9 (# of Weeks)	135,000	
Airfare Seattle/Anchorage (3 employees per month)	3	Trip	1,000	3	9,000	
Hotel/Food/Rental Car (3 employees for 3 days and nights)	3	Trip	2,250		6,750	
<b>Equip Mob #2/Demob</b>						
Mob Equip to Staging Area	2	LS	15,000		30,000	
Equip Storage Anacordas (2 acres for 2 months)	2	SF	0.08	85,120	13,619	
Wharfage & Handling	2	LS	40,000		80,000	
Equipment Lashing in Port	2	LS	700,000		1,260,000	

**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

Tug, Swift Class 5,750 BHP	2	Trips	45,000	12	972,000	
Barge for Equip 400x100x20	4	Trips	30,000	12	1,296,000	
<b>Camp Mob/Demob</b>						
Camp Floating Mob	1	LS	20,000		20,000	
Camp Floating DeMob	1	EA	20,000		20,000	
						4,029,109
		<b>Subtotal Item #1</b>	<b>7,388,898</b>		<b>7,388,898</b>	

**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

**5. Clean-up & Demob**

<b>Labor (Supervision)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Manager	1	83.87	10	52	43,610	
CPM Schedule	1	69.89	10	52	36,342	
General Superintendent	1	83.87	10	52	43,610	
Excavation Superintendent	1	69.89	10	52	36,342	
Bridge Superintendent	1	69.89	10	52	36,342	
Master Mechanic	1	69.89	10	52	36,342	
Ass't Mechanic	1	50.32	10	52	26,166	
	7					258,754
<b>Labor (Engineering)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Project Engineer	1	53.12	10	52	27,620	
Field Engineer	1	44.73	10	52	23,259	
QC Supervisor	1	64.30	10	52	33,435	
Office Engineer	1	55.91	10	52	29,073	
Safety Engineer/EMT	1	69.89	10	52	36,342	
	5					149,728
<b>Labor (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Field Office Manager	1	55.91	10	52	29,073	
Clerk/Data Input	1	27.96	10	52	14,537	
Accounting	1	36.34	10	52	18,898	
Timekeeper/Receptionist	1	39.14	10	52	20,351	
	4					82,859
<b>Labor (Other)</b>	<b>#</b>	<b>Rate</b>	<b>Hrs/Day</b>	<b>#Days</b>	<b>Subtotal</b>	<b>Subtotal</b>
Runner/Utility Person	1	27.96	10	52	14,537	
Eagle Expert	0	47.52	10	52	0	
Marine Mammal Expert	0	47.52	10	52	0	
	1					14,537
<b>Equipment (Field)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b>Quantity</b>	<b>Subtotal</b>	<b>Subtotal</b>
PU Trucks, 4x4	12	12.54	HR	260	39,125	
						39,125

**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

<b>Equipment (Office)</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Month</b>	<b>Subtotal</b>	<b>Subtotal</b>
Home Office Overhead (included in mark-up)	0	0	EA	0	0	
Cell Phones	0	1,500	EA		0	
Cell Phone Service Plan	16	858	EA	2	27,456	
						27,456
<b>Materials</b>	<b>#</b>	<b>Rate</b>	<b>Unit</b>	<b># Months</b>	<b>Subtotal</b>	<b>Subtotal</b>
Office Supplies	1	500	EA	2	1,000	
						1,000
<b>Subs/Services</b>	<b>#</b>	<b>Unit</b>	<b>Rate</b>	<b>Quan</b>	<b>Subtotal</b>	<b>Subtotal</b>
None	0				0	
						0
					<b>Subtotal Item #5</b>	<b>573,459</b>
					<b>573,459</b>	<b>573,459</b>
					<b>TOTAL Items #1 and #5</b>	<b>7,962,358</b>
					<b>7,962,358</b>	<b>7,962,358</b>

**MOB/DEMOB COSTS**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

6/5/2009

	Calendar	Work	Work
	Days	Days	Hours
Avg Annual Work Hours	365	313	3,130

	Avg Base Salary	Labor Burden	Subtotal	Subtotal	Hourly Rate
<b>Classification</b>					
Project Manager	150,000	1.75	262,500	262,500	83.87
CPM Schedule	125,000	1.75	218,750	218,750	69.89
General Superintendent	150,000	1.75	262,500	262,500	83.87
Excavation Superintendent	125,000	1.75	218,750	218,750	69.89
Bridge Superintendent	125,000	1.75	218,750	218,750	69.89
Master Mechanic	125,000	1.75	218,750	218,750	69.89
Ass't Mechanic	90,000	1.75	157,500	157,500	50.32

	Avg Base Salary	Labor Burden	Subtotal	Subtotal	Hourly Rate
<b>Classification</b>					
Project Engineer	95,000	1.75	166,250	166,250	53.12
Field Engineer	80,000	1.75	140,000	140,000	44.73
QC Supervisor	115,000	1.75	201,250	201,250	64.30
Office Engineer	100,000	1.75	175,000	175,000	55.91
Safety Engineer/EMT	125,000	1.75	218,750	218,750	69.89

	Avg Base Salary	Labor Burden	Subtotal	Subtotal	Hourly Rate
<b>Classification</b>					
Field Office Manager	100,000	1.75	175,000	175,000	55.91
Clerk/Data Input	50,000	1.75	87,500	87,500	27.96
Accounting	65,000	1.75	113,750	113,750	36.34
Timekeeper/Receptionist	70,000	1.75	122,500	122,500	39.14

	Salary	Burden	Subtotal	Subtotal	Rate
<b>Classification</b>					
Runner/Utility Person	50,000	1.75	87,500	87,500	27.96
Eagle Expert	85,000	1.75	148,750	148,750	47.52
Marine Mammal Expert	85,000	1.75	148,750	148,750	47.52



# DRAIN HOLE COSTS





# DRAIN HOLE COSTS

## JAI - Zones 1, 2, and 3

6/5/2009

**BID ITEM No. 203 (12) - Drain Holes**

Reference Sheet J2 (231)

Reference Standard & Special Specification 203-3.02.4

**Assumptions**

- Assume avg 6 - 10 hour workdays per week for all indicated work periods
- Assume that travel to and from work face will average 1-hour per shift
- Drain holes will follow each lift of excavation
- All drain holes will be 20-feet in length with 2% slope to drain
- All drain holes will be drilled near bottom of lift
- No drain holes through boulders in talus

**Activities**

- Move drain holes equipment to the work zone
- Drill minimum 3-inch diameter hole

**Production**

Lineal feet of drain hole to install	11,000 EA
Depth of drain hole	20 LF
Total number of drain holes	550 EA
Avg daily production rate of drain holes	4 EA
Number of working days to install	138 Days

Labor	#	Rate	Hrs/Day	#Days	Subtotal	Subtotal
Foreman	1	56.00	10	138	77,280	
Laborer - Driller	1	50.00	10	138	69,000	
Laborer - Chuck Tender	1	49.00	10	138	67,620	
Laborer - Grout Mixer	1	49.00	10	138	67,620	
Laborer - Bar Make-up	1	49.00	10	138	67,620	
Laborer - Forklift	1	49.00	10	138	67,620	
Laborer - Tension	1	49.00	10	138	67,620	
	7					484,380

Equipment	#	Rate	Unit	Quantity	Subtotal	Subtotal
PU Trucks 4x4	1	12.54	HR	1,380	17,305	
(all equipment costs below are covered in rockbolting, except as shown below)						
Air Track Drill, ECM 350	0	40,000	EA		0	
Air Compressor, 1200 cfm	2	4,000	Mo	5	40,000	
Drill Steel	2	9,000	Sets		18,000	
Drill Bits	12	121.50	EA		1,458	
Spare/Replace Parts	1	10,000	LS		10,000	
Water Trailer	2	400	Mo	5	4,000	
FB Truck	1	1,200	Mo	5	6,000	
Radio System	0	5,000	EA		0	
						96,763

Materials	#	Rate	Unit	Subtotal	Subtotal
Drill Steel Grease	138	22.50	Tubs	3,105	

**DRAIN HOLE COSTS**  
**JAI - Zones 1, 2, and 3**

6/5/2009

3,105

Subs/Services	#	Rate	Unit	Quan	Subtotal	Subtotal
Drill Steel Grease	0	0.00			0	
						0
				Subtotal	584,248	584,248
				Cost per LF of Drain Hole	53	

# STABLIZATION – ROCK BOLTS COSTS



# ROCKBOLTING COSTS

## JAI - Zones 1, 2, and 3

6/5/2009

**BID ITEM No. 203 (13) - Stabilization - Rock Bolt**

Reference Sheet J2 (231)

Reference Standard & Special Specification 203-3.02

**Assumptions**

- Assume avg 6 - 10 hour workdays per week for all indicated work periods
- Assume that travel to and from work face will average 1-hour per shift
- Rockbolting will follow each lift of excavation
- Pattern rock bolting will be used for 80% of the rockbolt quantities
- Pattern rock bolts will be spaced 20-ft OC equidistant in horiz and vert directions
- Spot rock bolting will be used for 20% of the rockbolt quantities
- Spot rock bolts will be placed as directed by AKDOT with a steel plate and nut
- Spot rock bolt lengths will be 25-feet long
- Rock bolts will be per the detail on Sheet J1 (231)
- All rock bolts will be 20-feet in length and use bare #8 Grade 75 bar
- All rock bolts will be grouted with non-shrink cement grout
- Rock bolts will be tensioned up to allowable limit based on #8 bar (approx. 50 Kips)
- Anticipate need for high-lift equipment or rappelling for 40% of spot rock bolt installation
- No rockbolting through boulders in talus

**Activities**

- Move rockbolting equipment to the work zone
- Drill minimum 3-inch diameter hole
- Insert bare bar with spacers located at 8 feet on center
- Mix and place grout in the annular space of the hole
- Tension the rockbolt with center hole test ram and chair

**Production**

Number of rock bolts to install		3,330 EA
Pattern rock bolts	80%	2,664 EA
Spot rock bolts	20%	666 EA
Buy Length of Bar		27 LF
Total length of bar installed		89,910 LF
Daily production rate Pattern Bolts		8 EA
Number of working days to install		333 Days
Daily production rate Spot Bolts		5 EA
Number of working days to install		134 Days

Labor	#	Rate	Hrs/Day	#Days	Subtotal	Subtotal
Foreman	1	56.00	10	467	261,520	
Laborer - Driller	1	50.00	10	467	233,500	
Laborer - Chuck Tender	1	49.00	10	467	228,830	
Laborer - Grout Mixer	1	49.00	10	467	228,830	
Laborer - Bar Make-up	1	49.00	10	467	228,830	
Laborer - Forklift	1	49.00	10	467	228,830	
Laborer - Tension	1	49.00	10	467	228,830	
	7					1,639,170

Equipment	#	Rate	Unit	Quantity	Subtotal	Subtotal
PU Trucks 4x4	1	13	HR	4,670	58,562	

## ROCKBOLTING COSTS JAI - Zones 1, 2, and 3

6/5/2009

Air Track Drill, ECM 350	2	35,000	EA		70,000
Air Compressor, 1200 cfm	2	4,000	Mo	26	208,000
Pnuematic Drills	2	25,000	Set-ups		50,000
Man-Lift 60-ft Reach	2	20,000	EA		40,000
Drill Steel	6	4,500	Sets		27,000
Drill Bits	113	121.50	EA		13,730
Equip Spare/Replace Parts	1	50,000	LS		50,000
ChemGrout Mixer/Pump	2	40,000	EA		80,000
Generator, 12 KW	2	3,000	EA		6,000
Forklift, 8K Telescoping	2	1,500	Mo	26	78,000
Water Trailer	2	400	Mo	26	20,800
FB Truck	1	1,200	Mo	26	31,200
Test Ram, 60T	2	800	Mo	26	41,600
Rope Rapelling Gear	16	1,500	Sets		24,000
Radio System	1	5,000	EA		5,000

803,891

Materials	#	Rate	Unit	Subtotal	Subtotal
Buy Bare Bar, #8 Gr 75	98,901	1.37	LF	135,297	
Centralizers, PVC	10,989	1.35	EA	14,835	
Steel Plates, 6x6x1	699	9.00	EA	6,294	
Beveled Washer	3,663	0.90	EA	3,297	
Flat Washer	3,663	0.18	EA	659	
Nuts, #8	699	4.50	EA	3,147	
Cement, Bags	7,005	10.80	Bag	75,652	
Testing Chair	8	250.00	EA	2,000	
Packers	20	292.50	EA	5,850	
Bearing Pad Materials	3,663	13.50	EA	49,451	
Cold Tar	416	22.50	Tubs	9,366	
Drill Steel Grease	333	22.50	Tubs	7,493	

313,339

Subs/Services	#	Rate	Unit	Quan	Subtotal	Subtotal
Deliver Materials to Seattle	1	3,800	LS		3,800	
Deliver Materials to Jobsite	350	200	Ton		70,066	

90,487

Subtotal      2,846,887      2,846,887

Cost per Rockbolt      855

# ROADWAY COSTS





**AKDOT ROADWAY BID SCHEDULE**  
**Direct Cost Plus Material Shipping**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

Item Number	Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
201 (1A)	Clearing	Acre	150	\$2,820.69	\$423,103.91
201 (1B)	Clearing - Zones 1, 2, & 3	Acre	144	\$3,173.26	\$456,949.53
201 (6)	Selective Tree Removal	Each	350	\$68.65	\$24,026.01
202 (4)	Removal of Culvert Pipe	Linear Foot	530	\$10.26	\$5,436.66
203 (2)	Rock Excavation	Cubic Yard	1,804,700	\$8.88	\$16,028,617.95
203 (3)	Unclassified Excavation	Cubic Yard	786,900	\$3.04	\$2,388,984.99
203 (5)	Borrow	Cubic Yard	242,500	\$2.50	\$606,250.00
203 (10)	Controlled Blasting	Square Yard	148,000	\$11.85	\$1,753,800.00
203 (19)	Barrier Rocks	Linear Foot	4,000	\$12.18	\$48,727.07
301 (1)	Aggregate Base Course, Grading	Ton	97,120	\$11.55	\$1,121,809.91
306 (1)	Asphalt Treated Base	Ton	47,525	\$23.20	\$1,102,580.00
401 (1)	Asphalt Concrete, Type II; Class B	Ton	51,360	\$25.20	\$1,294,272.00
401 (2)	Asphalt Cement, Grade 58-28	Ton	5,232	\$510.30	\$2,669,889.60
402 (1)	STE-1 Asphalt for Tack Coat	Ton	125	\$510.30	\$63,788.00
507 (6)	Safety Railing	Linear Foot	1,553	\$6.30	\$9,784.19
511 (1)	Mechanically Stabilized Earth Wall	Square Foot	22,306	\$62.83	\$1,401,414.21
602 (3A)	Structural Plate Arch 20' Span, 8'3 1/2" Rise, 7 Gage	Linear Foot	50	\$1,629.06	\$81,453.05
602 (3B)	Structural Plate Arch 35' 4" Span, 11' 5" Rise, 7 Gage	Linear Foot	52	\$2,863.44	\$148,898.98
603 (17-24)	24 Inch Pipe	Linear Foot	10,877	\$40.30	\$438,323.08
603 (17-36)	36 Inch Pipe	Linear Foot	7,312	\$55.16	\$403,322.56
603 (17-48)	48 Inch Pipe	Linear Foot	1,434	\$77.30	\$110,853.53
603 (17-60)	60 Inch Pipe	Linear Foot	664	\$142.73	\$94,773.78
603 (17-72)	72 Inch Pipe	Linear Foot	504	\$199.71	\$100,653.13
603 (17-144)	144 Inch Pipe	Linear Foot	120	\$504.12	\$60,494.16
606 (1)	W-beam Guardrail	Linear Foot	4,400	\$25.00	\$110,000.00
606 (11)	Extruder Terminal (ET-2000)	Each	36	\$2,250.00	\$81,000.00
610 (3)	Ditch Lining	Station	25	\$764.83	\$19,120.81
611 (3)	Riprap Slope Stabilization	Square Yard	3,222	\$1.74	\$5,617.03
615 (1)	Standard Sign	Square Foot	1,872	\$20.00	\$37,440.00
618 (1)	Seeding	Acre	94	\$4,679.79	\$439,900.00
619 (2)	Matting	Square Yard	59,000	\$0.99	\$58,654.03
630 (1)	Geotextile, Separation	Square Yard	130,000	\$0.82	\$106,380.51
631 (2)	Geotextile, Erosion Control, Class 1	Square Yard	3,740	\$1.85	\$6,901.86
633 (1)	Silt Fence	Linear Foot	57,000	\$2.25	\$128,250.00
637 (1)	Reinforced Soil Slope	Square Foot	500	\$27.45	\$13,724.08
641 (1)	Erosion And Pollution Control Administration	Lump Sum	All Required	\$720,672.13	\$720,672.13

**AKDOT ROADWAY BID SCHEDULE**  
**Direct Cost Plus Material Shipping**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

641 (2)	Temporary Erosion And Pollution Control	Contingent Su	All Required	\$529,410.00	\$529,410.00
641 (5)	Preliminary Seeding	Acre	47	\$3,851.06	\$181,000.00
641 (6)	Temporary Rock Check Dam	Each	540	\$50.00	\$27,000.00
641 (8)	Settling Pool	Each	8	\$566.25	\$4,530.00

**TOTAL ROADWAY DIRECT COST AMOUNT    \$33,307,806.75**

**AKDOT ROADWAY BID SCHEDULE**  
**Direct Cost Plus Material Shipping**  
**JAI - Zones 1, 2, and 3**  
**Echo Cove to Sweeny Creek**

Amount Before Shipping	Tons	Cost per Ton	Shipping Cost	Amount After Shipping	Quantity	Unit Price w/Shipping
423,103.91	0	200.00	0.00	423,103.91	150	2,820.69
456,949.53	0	200.00	0.00	456,949.53	144	3,173.26
24,026.01	0	200.00	0.00	24,026.01	350	68.65
5,436.66	0	200.00	0.00	5,436.66	530	10.26
16,028,617.95	0	200.00	0.00	16,028,617.95	1804700	8.88
2,388,984.99	0	200.00	0.00	2,388,984.99	786900	3.04
606,250.00	0	200.00	0.00	606,250.00	242500	2.50
1,753,800.00	0	200.00	0.00	1,753,800.00	148000	11.85
48,727.07	0	200.00	0.00	48,727.07	4000	12.18
1,121,809.91	0	200.00	0.00	1,121,809.91	97120	11.55
1,102,580.00	0	200.00	0.00	1,102,580.00	47525	23.20
1,294,272.00	0	200.00	0.00	1,294,272.00	51360	25.20
2,669,889.60	0	200.00	0.00	2,669,889.60	5232	510.30
63,788.00	0	200.00	0.00	63,788.00	125	510.30
7,784.19	10	200.00	2,000.00	9,784.19	1553	6.30
1,202,214.21	996	200.00	199,200.00	1,401,414.21	22306	62.83
79,453.05	10	200.00	2,000.00	81,453.05	50	1,629.06
144,698.98	21	200.00	4,200.00	148,898.98	52	2,863.44
415,523.08	114	200.00	22,800.00	438,323.08	10877	40.30
383,922.56	97	200.00	19,400.00	403,322.56	7312	55.16
104,853.53	30	200.00	6,000.00	110,853.53	1434	77.30
90,773.78	20	200.00	4,000.00	94,773.78	664	142.73
96,853.13	19	200.00	3,800.00	100,653.13	504	199.71
56,294.16	21	200.00	4,200.00	60,494.16	120	504.12
110,000.00	0	200.00	0.00	110,000.00	4400	25.00
81,000.00	0	200.00	0.00	81,000.00	36	2,250.00
19,120.81	0	200.00	0.00	19,120.81	25	764.83
5,617.03	0	200.00	0.00	5,617.03	3222	1.74
37,440.00	0	200.00	0.00	37,440.00	1872	20.00
439,900.00	0	200.00	0.00	439,900.00	94	4,679.79
50,654.03	40	200.00	8,000.00	58,654.03	59000	0.99
99,380.51	35	200.00	7,000.00	106,380.51	130000	0.82
4,701.86	11	200.00	2,200.00	6,901.86	3740	1.85
128,250.00	0	200.00	0.00	128,250.00	57000	2.25
13,724.08	0	200.00	0.00	13,724.08	500	27.45
720,672.13	0	200.00	0.00	720,672.13 All Required		720,672.13

**AKDOT ROADWAY BID SCHEDULE  
 Direct Cost Plus Material Shipping  
 JAI - Zones 1, 2, and 3  
 Echo Cove to Sweeny Creek**

529,410.00	0	200.00	0.00	529,410.00	All Required	529,410.00
125,000.00	280	200.00	56,000.00	181,000.00	47	3,851.06
27,000.00	0	200.00	0.00	27,000.00	540	50.00
4,530.00	0	200.00	0.00	4,530.00	8	566.25
32,967,006.75	1,704		340,800.00	33,307,806.75		
				33,307,806.75	Check	

**MATERIALS LISTS**  
**JAI - Juneau Access Improvement**

**ZONES 1, 2, AND 3**

**Pricing of Barge Service from Seattle (Anacordas, WA) to north of Juneau, AK**

Safety rail: 3 galvanized 1/4" cables rated to 7,000lbs Estimated # of Containers: 1 EA  
 6' galvanized 2" diameter posts. Container Size: 8'x8'x40' 2,560 CF  
 Turnbuckles @ 500' intervals Container Weight: 20,000 LBS 10 Tons

MSE Walls: MSE Wall panels & tie-backs Weight per SF = 85

Bid Install Quantity (SF)	Panel L (FT)	Panel W (FT)	Panel T (FT)	Panel Area (SF)	Panel Volume (CF)	Panel Pieces (EA)	Buy Quantity (EA)	Buy Panel Area (SF)	Buy Panel Volume (CF)	Buy Weight (Tons)	Buy Volume (CF)	Buy Weight (LBS)	Buy Weight (Tons)
22,306	6.00	6.00	1.33	36	48	620	651	23,436	31,170	1,992,060	996		
24	10,877	20	572	12,012	3.14	37,718	19	114					
36	7,312	20	384	8,064	7.07	56,972	24	97					
48	1,434	20	76	1,596	12.56	20,046	38	30					
60	664	20	35	735	19.63	14,424	55	20					
72	504	20	27	567	28.26	16,023	66	19					
144	120	20	7	147	113.04	16,617	282	21					
50	50	20	3	63	27.26	1,717	311	10					
52	52	20	3	63	51.16	3,223	675	21					
<b>Subtotals</b>	<b>21,013</b>	<b>23,247</b>	<b>166,740</b>	<b>332</b>									

**Geotextiles:**  
 Jute Matting: Bid Quant 59,000 SY/Cont 2 40,000 LBS/Cont 40 Tons 5,120 Volume 40,000lbs/container - 500 rolls per container, 100 sy per roll  
 Separation Geotextile: 130,000 50,000 3 23,000 35 Tons 7,680 Volume 50,000 sy / container @ 23,000 lbs.  
 Class 1 Erosion Control Geotextile: 3,740 40,000 1 21,000 11 Tons 2,560 Volume 40,000 sy/ container @ 21,000 lbs.  
 Reinforced Soil Slope: 500 sf (Face) Small quantities Container Size: 8'x8'x40' 2,560 CF

**Hydroseeding:**  
 Acres of Prelim Seeding 47 Weight (LBS) 40,000 Buy Weight (LBS) 560,000 Buy Volume 35,840  
 Acres of Seeding 94 Acres per Container 11.43 Buy # of Containers 14 Subtotal 280 Tons 35,840

**SUMMARY:**

	Safety Rail	MSE	Culvert	Geotex	Seeding	Subtotal
Tons	10	996	332	85	280	1,703
Cubic Feet	2,560	31,170	166,740	15,360	35,840	251,670
						<b>Cubic Feet</b>



DIRECT COST REPORT

Activity Resource	Desc	Quantity	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Contract	Total
<b>BID ITEM = 2010</b>									
Description = Clearing - Zone 1			Unit =	ACRE	Takeoff Quan:	150.000	Engr Quan:	150.000	
<b>2010A Clearing - Zone 1A</b>									
<b>CLEAR</b>				<b>Quant:</b>	<b>75.00</b>	<b>ACR Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610 WC: ORI</b>
	Clearing Crew	166.66	CH	Prod:	4.5000	US	Lab Pcs:	10.00	Eqp Pcs: 14.00
8D6	D6N	1.00	166.67	HR	37.000		6,167		6,167
8E320	320 EXCAVATOR	1.00	166.67	HR	44.000		7,333		7,333
8SMALLTOOLS	Misc Small Tools	10.00	1,666.67	HR	10.000		16,667		16,667
8TPU	PICKUP	2.00	333.33	HR	12.340		4,113		4,113
LAB1	Laborer 1: ACPaver, Gen.L	7.00	1,166.67	MH	28.240	65,678			65,678
OE1	Oper. 1: Dozers, Sm Loader	2.00	333.33	MH	36.190	22,786			22,786
OEF	Oper. Foreman	1.00	166.67	MH	40.000	12,321			12,321
\$135,065.44	22.2222 MH/ACRE	1,666.67	MH	[ 803.884 ]	100,785		34,280		135,065
0.4500 Units/Hr	4.5002 Un/Shift	* 16.6660	Shifts		1,343.80		457.07		1,800.87
<b>2010B Clearing - Zone 1B</b>									
<b>CLEAR</b>				<b>Quant:</b>	<b>75.00</b>	<b>ACR Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610 WC: ORI</b>
	Clearing Crew	214.28	CH	Prod:	3.5000	US	Lab Pcs:	10.00	Eqp Pcs: 14.00
8D6	D6N	1.00	214.29	HR	37.000		7,929		7,929
8E320	320 EXCAVATOR	1.00	214.29	HR	44.000		9,429		9,429
8SMALLTOOLS	Misc Small Tools	10.00	2,142.86	HR	10.000		21,429		21,429
8TPU	PICKUP	2.00	428.57	HR	12.340		5,289		5,289
LAB1	Laborer 1: ACPaver, Gen.L	7.00	1,500.00	MH	28.240	84,443			84,443
OE1	Oper. 1: Dozers, Sm Loader	2.00	428.57	MH	36.190	29,296			29,296
OEF	Oper. Foreman	1.00	214.29	MH	40.000	15,842			15,842
\$173,655.56	28.5714 MH/ACRE	2,142.86	MH	[ 1033.565 ]	129,581		44,075		173,656
0.3500 Units/Hr	3.5001 Un/Shift	* 21.4280	Shifts		1,727.75		587.66		2,315.41
<b>2010C Burning - Zone 1A</b>									
<b>BURN</b>				<b>Quant:</b>	<b>75.00</b>	<b>ACR Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610 WC: ORI</b>
	Burning Crew	166.66	CH	Prod:	4.5000	US	Lab Pcs:	3.00	Eqp Pcs: 2.00
8E330	330 Excavator	1.00	166.67	HR	73.850		12,309		12,309
8TWT	WATER TRUCK	1.00	166.67	HR	27.820		4,637		4,637
LAB1	Laborer 1: ACPaver, Gen.L	1.00	166.67	MH	28.240	9,383			9,383
OE1	Oper. 1: Dozers, Sm Loader	1.00	166.67	MH	36.190	11,393			11,393
OEF	Oper. Foreman	1.00	166.67	MH	40.000	12,321			12,321
\$50,042.53	6.6668 MH/ACRE	500.01	MH	[ 270.758 ]	33,097		16,945		50,043
0.4500 Units/Hr	4.5002 Un/Shift	* 16.6660	Shifts		441.30		225.94		667.23
<b>2010D Burning - Zone 1B</b>									
<b>BURN</b>				<b>Quant:</b>	<b>75.00</b>	<b>ACR Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610 WC: ORI</b>
	Burning Crew	214.28	CH	Prod:	3.5000	US	Lab Pcs:	3.00	Eqp Pcs: 2.00
8E330	330 Excavator	1.00	214.29	HR	73.850		15,825		15,825
8TWT	WATER TRUCK	1.00	214.29	HR	27.820		5,962		5,962
LAB1	Laborer 1: ACPaver, Gen.L	1.00	214.29	MH	28.240	12,064			12,064
OE1	Oper. 1: Dozers, Sm Loader	1.00	214.29	MH	36.190	14,648			14,648
OEF	Oper. Foreman	1.00	214.29	MH	40.000	15,842			15,842
\$64,340.38	8.5716 MH/ACRE	642.87	MH	[ 348.117 ]	42,554		21,787		64,340
0.3500 Units/Hr	3.5001 Un/Shift	* 21.4280	Shifts		567.38		290.49		857.87
<b>Item Totals: 2010 - Clearing - Zone 1</b>									
\$423,103.91	33.0160 MH/ACRE	4,952.41	MH	[ 1228.162 ]	306,017		117,087		423,104
2,820.693	150 ACRE				2,040.11		780.58		2,820.69

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity	Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 2012</b>											
Description = Clearing - Zones 2 & 3				Unit =	ACRE	Takeoff Quan:		144.000	Engr Quan:		144.000
<b>2012A Clearing - Zones 2 &amp; 3</b>											
				Quan:	144.00	ACR	Hrs/Shift:	10.00	Cal:	610	WC: ORI
<b>CLEAR</b>	Clearing Crew		411.42	CH	Prod:	3.5000	US	Lab Pcs:	10.00	Eqp Pcs:	14.00
8D6	D6N	1.00	411.43	HR					15,223		15,223
8E320	320 EXCAVATOR	1.00	411.43	HR					18,103		18,103
8SMALLTOOLS	Misc Small Tools	10.00	4,114.29	HR					41,143		41,143
8TPU	PICKUP	2.00	822.86	HR					10,154		10,154
LAB1	Laborer 1: ACPaver, Gen.L	7.00	2,880.00	MH		162,131					162,131
OE1	Oper. 1: Dozers, Sm Loader	2.00	822.86	MH		36,190	56,249				56,249
OEF	Oper. Foreman	1.00	411.43	MH		40,000	30,415				30,415
\$333,418.05		28.5714	MH/ACRE	4,114.29	MH	[ 1033.564 ]	248,795		84,623		333,418
0.3500	Units/Hr	3.5001	Un/Shift	* 41.1420	Shifts		1,727.74		587.66		2,315.40
<b>2012B Burning - Zones 2 &amp; 3</b>											
				Quan:	144.00	ACR	Hrs/Shift:	10.00	Cal:	610	WC: ORI
<b>BURN</b>	Burning Crew		411.42	CH	Prod:	3.5000	US	Lab Pcs:	3.00	Eqp Pcs:	2.00
8E330	330 Excavator	1.00	411.43	HR		73,850			30,384		30,384
8TWT	WATER TRUCK	1.00	411.43	HR		27,820			11,446		11,446
LAB1	Laborer 1: ACPaver, Gen.L	1.00	411.43	MH		28,240	23,162				23,162
OE1	Oper. 1: Dozers, Sm Loader	1.00	411.43	MH		36,190	28,125				28,125
OEF	Oper. Foreman	1.00	411.43	MH		40,000	30,415				30,415
\$123,531.48		8.5714	MH/ACRE	1,234.29	MH	[ 348.111 ]	81,701		41,830		123,531
0.3500	Units/Hr	3.5001	Un/Shift	* 41.1420	Shifts		567.37		290.49		857.86
<b>====&gt; Item Totals: 2012 - Clearing - Zones 2 &amp; 3</b>											
\$456,949.53		37.1429	MH/ACRE	5,348.58	MH	[ 1381.675 ]	330,497		126,453		456,950
3,173.261				144	ACRE		2,295.12		878.15		3,173.26



DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
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**BID ITEM = 2014**  
 Description = Selective Tree Removal Unit = EA TakeoffQuan: 350.000 Engr Quan: 350.000  
 Assume self-loading log truck takes limbed trees for value of lumber. Limbs are assumed to be left on forest floor.

2014		Fall, Limb, & Deck Trees		Quan:	350.00	EA	Hrs/Shift:	10.00	Cal:	610	WC:	ORI
BLANK	A Blank Crew			175.00	CH	Prod:	20.0000	US	Lab Pcs:	1.00	Eqp Pcs:	1.00
8SMALLTOOLS	Misc Small Tools	1.00	175.00	HR						1,750		1,750
LAB1	Laborer 1: ACPaver, Gen.L	1.00	175.00	MH			28.240			9,852		9,852
\$11,601.70		0.5000	MH/EA	175.00	MH		[ 16.474 ]			9,852		11,602
2.0000	Units/Hr	20.0000	Un/Shift	*	17.5000	Shifts				28.15		5.00
												33.15
2014A		Skid/Trees To Road		Quan:	350.00	EA	Hrs/Shift:	10.00	Cal:	610	WC:	ORI
BLANK	A Blank Crew			100.00	CH	Prod:	35.0000	US	Lab Pcs:	1.00	Eqp Pcs:	1.50
8SKIDDER	Skidder	1.00	100.00	HR			52.000			5,200		5,200
8SMALLTOOLS	Misc Small Tools	0.50	50.00	HR			10.000			500		500
OE2	Oper. 2: Skidder, Plant	1.00	100.00	MH			35.420			6,724		6,724
\$12,424.31		0.2857	MH/EA	100.00	MH		[ 11.807 ]			6,724		12,424
3.5000	Units/Hr	35.0000	Un/Shift	*	10.0000	Shifts				19.21		16.29
												35.50
====> Item Totals:		2014	- Selective Tree Removal									
\$24,026.01		0.7857	MH/EA	275.00	MH		[ 28.281 ]			16,576		24,026
68.646		350	EA				47.36			7,450		68.65

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 2020</b>										
Description = Removal of Culvert Pipe				Unit = LF	Takeoff Quan:		530.000	Engr Quan:		530.000
<b>2020A</b>	<b>Remove Culvert</b>			<b>Quan:</b>	<b>530.00 LF</b>	<b>Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610</b>	<b>WC: ORI</b>
BLANK	A Blank Crew		20.00 CH	Prod:	2.0000 S		Lab Pcs:	2.00	Eqp Pcs:	2.00
3STEELDUMPF	Steel Dump Fee		5.00 LD					250		250
8E322	322 EXCAVATOR	1.00	20.00 HR					994		994
8RDUMP	RENTED DUMP TRUCK	1.00	20.00 HR					1,700		1,700
LAB1	Laborer 1: ACPaver, Gen.L	1.00	20.00 MH			1,126				1,126
OE1	Oper. 1: Dozers, Sm Loader	1.00	20.00 MH			1,367				1,367
\$5,436.66	0.0754 MH/LF		40.00 MH	[ 2.837 ]	2,493			250	2,694	5,437
26.5000	Units/Hr	265.0000	Un/Shift		4.70			0.47	5.08	10.26
<hr/>										
<b>Item Totals:</b>		<b>2020</b>	<b>- Removal of Culvert Pipe</b>							
\$5,436.66	0.0754 MH/LF		40.00 MH	[ 2.837 ]	2,493			250	2,694	5,437
10.258	530 LF				4.70			0.47	5.08	10.26

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
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**BID ITEM = 2030**

Description = Rock Excavation Unit = CY Takeoff Quan: 1,804,700.000 Engr Quan: 1,804,700.000

Our quantity take off yielded 2,087,000 cy of rock excavation. The bid quantity is 1,804,700 cy. We adjusted our take-off quantities for each station by a factor of .864734 (1,804,700 / 2,087,000) to account for this difference.

**2030A Rock Ex: 227+00-442+00 - 3,000 lf Haul Quan: 299,803.00 CY Hrs/Shift: 10.00 Cal: 610 WC: ORI**

QTO = 346,700 cy										
<b>ROCKX</b> Rock Excavation Crew 499.67 CH Prod: 6,000.0008 US Lab Pcs: 13.00 Eqp Pcs: 11.00										
4DRILLNSHOOT	Drill & Shoot Subcontractor		299,803.00	CY		3.465			1,038,817	1,038,817
8B14	14G GRADER	1.00	499.67	HR		75.680		37,815		37,815
8D8	D8T	2.00	999.34	HR		102.000		101,933		101,933
8D9	D9T	1.00	499.67	HR		156.750		78,323		78,323
8E365	Cat 365 Excavator	1.00	499.67	HR		129.250		64,582		64,582
8L988	988 LOADER	1.00	499.67	HR		130.880		65,397		65,397
8T735	Cat 735 Articulated Tr	4.00	1,998.69	HR		92.030		183,939		183,939
8TWT	WATER TRUCK	1.00	499.67	HR		27.820		13,901		13,901
OE1	Oper. 1: Dozers, Sm Loader	4.00	1,998.69	MH		36.190	136,627			136,627
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	999.34	MH		37.950	70,860			70,860
OE3	Oper. 3: GC, Rollers	1.00	499.67	MH		34.700	33,078			33,078
OEF	Oper. Foreman	1.00	499.67	MH		40.000	36,938			36,938
TD2	Truck Driver 2 20-40 cy	4.00	1,998.69	MH		33.810	125,841			125,841
TD3	Truck Driver 3 10-20cy	1.00	499.67	MH		33.050	30,910			30,910
\$2,018,962.08	0.0216 MH/CY		6,495.73	MH	[ 0.902 ]	434,254		545,890	1,038,817	2,018,962
600.0020	Units/Hr	6,000.0200	Un/Shift	* 49.9670	Shifts	1.45		1.82	3.47	6.73

**2030B Rock Ex: 58+00-227+00 - 5,000 lf Haul Quan: 51,884.00 CY Hrs/Shift: 10.00 Cal: 610 WC: ORI**

QTO = 60,000 cy										
<b>ROCKX</b> Rock Excavation Crew 86.47 CH Prod: 6,000.0023 US Lab Pcs: 14.00 Eqp Pcs: 12.00										
4DRILLNSHOOT	Drill & Shoot Subcontractor		51,884.00	CY		3.465			179,778	179,778
8B14	14G GRADER	1.00	86.47	HR		75.680		6,544		6,544
8D8	D8T	2.00	172.95	HR		102.000		17,641		17,641
8D9	D9T	1.00	86.47	HR		156.750		13,554		13,554
8E365	Cat 365 Excavator	1.00	86.47	HR		129.250		11,176		11,176
8L988	988 LOADER	1.00	86.47	HR		130.880		11,317		11,317
8T735	Cat 735 Articulated Tr	5.00	432.37	HR		92.030		39,791		39,791
8TWT	WATER TRUCK	1.00	86.47	HR		27.820		2,406		2,406
OE1	Oper. 1: Dozers, Sm Loader	4.00	345.89	MH		36.190	23,644			23,644
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	172.95	MH		37.950	12,263			12,263
OE3	Oper. 3: GC, Rollers	1.00	86.47	MH		34.700	5,724			5,724
OEF	Oper. Foreman	1.00	86.47	MH		40.000	6,392			6,392
TD2	Truck Driver 2 20-40 cy	5.00	432.37	MH		33.810	27,223			27,223
TD3	Truck Driver 3 10-20cy	1.00	86.47	MH		33.050	5,349			5,349
\$362,803.44	0.0233 MH/CY		1,210.62	MH	[ 0.967 ]	80,596		102,429	179,778	362,803
600.0231	Units/Hr	6,000.2313	Un/Shift	* 8.6470	Shifts	1.55		1.97	3.47	6.99

**2030C Rock Ex: 469+00-496+00 - 6,000 lf Haul Quan: 67,190.00 CY Hrs/Shift: 10.00 Cal: 610 WC: ORI**

QTO = 77,700 cy										
<b>ROCKX</b> Rock Excavation Crew 134.38 CH Prod: 5,000.0000 US Lab Pcs: 15.00 Eqp Pcs: 13.00										
4DRILLNSHOOT	Drill & Shoot Subcontractor		67,189.99	CY		3.465			232,813	232,813
8B14	14G GRADER	1.00	134.38	HR		75.680		10,170		10,170
8D8	D8T	2.00	268.76	HR		102.000		27,414		27,414
8D9	D9T	1.00	134.38	HR		156.750		21,064		21,064
8E365	Cat 365 Excavator	1.00	134.38	HR		129.250		17,369		17,369
8L988	988 LOADER	1.00	134.38	HR		130.880		17,588		17,588
8T735	Cat 735 Articulated Tr	6.00	806.28	HR		92.030		74,202		74,202
8TWT	WATER TRUCK	1.00	134.38	HR		27.820		3,738		3,738
OE1	Oper. 1: Dozers, Sm Loader	4.00	537.52	MH		36.190	36,744			36,744
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	268.76	MH		37.950	19,057			19,057

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity	Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
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**BID ITEM = 2030**

Description = Rock Excavation Unit = CY Takeoff Quan: 1,804,700.000 Engr Quan: 1,804,700.000

OE3	Oper. 3: GC, Rollers	1.00	134.38	MH	34.700	8,896					8,896
OEF	Oper. Foreman	1.00	134.38	MH	40.000	9,934					9,934
TD2	Truck Driver 2 20-40 cy	6.00	806.28	MH	33.810	50,765					50,765
TD3	Truck Driver 3 10-20cy	1.00	134.38	MH	33.050	8,313					8,313
\$538,065.89	0.0300 MH/CY		2,015.70	MH	[ 1.24 ]	133,708			171,544	232,813	538,066
500.0000	Units/Hr	5,000.0000	Un/Shift	* 13.4380	Shifts	1.99			2.55	3.46	8.01

**2030D Rock Ex. 442+00 - 469+00 - 4,000 lf Hau Quan: 163,867.00 CY Hrs/Shift: 10.00 Cal: 610 WC: OR1**

QTO = 189,500 cy

ROCKX		Rock Excavation Crew		327.73	CH	Prod: 5,000.0000 US	Lab Pcs: 14.00	Eqp Pcs: 12.00		
4DRILLNSHOOT	Drill & Shoot Subcontractor		163,867.00	CY		3,465		567,799	567,799	
8B14	14G GRADER	1.00	327.73	HR		75,680	24,803		24,803	
8D8	D8T	2.00	655.47	HR		102,000	66,858		66,858	
8D9	D9T	1.00	327.73	HR		156,750	51,372		51,372	
8E365	Cat 365 Excavator	1.00	327.73	HR		129,250	42,359		42,359	
8L988	988 LOADER	1.00	327.73	HR		130,880	42,893		42,893	
8T735	Cat 735 Articulated Tr	5.00	1,638.67	HR		92,030	150,807		150,807	
8TWT	WATER TRUCK	1.00	327.73	HR		27,820	9,117		9,117	
OE1	Oper. 1: Dozers, Sm Loader	4.00	1,310.94	MH		36,190	89,613		89,613	
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	655.47	MH		37,950	46,477		46,477	
OE3	Oper. 3: GC, Rollers	1.00	327.73	MH		34,700	21,696		21,696	
OEF	Oper. Foreman	1.00	327.73	MH		40,000	24,228		24,228	
TD2	Truck Driver 2 20-40 cy	5.00	1,638.67	MH		33,810	103,173		103,173	
TD3	Truck Driver 3 10-20cy	1.00	327.73	MH		33,050	20,274		20,274	
\$1,261,469.18	0.0279 MH/CY		4,588.27	MH	[ 1.161 ]	305,461		388,209	567,799	1,261,469
500.0061	Units/Hr	5,000.0610	Un/Shift	* 32.7730	Shifts	1.86		2.37	3.47	7.70

**2030E Rock Ex. 496+00 - 523+00 - 7,000 lf Hau Quan: 81,285.00 CY Hrs/Shift: 10.00 Cal: 610 WC: OR1**

QTO = 94,000 cy

ROCKX		Rock Excavation Crew		203.21	CH	Prod: 4,000.0000 US	Lab Pcs: 17.00	Eqp Pcs: 15.00		
4DRILLNSHOOT	Drill & Shoot Subcontractor		81,285.00	CY		3,465		281,653	281,653	
8B14	14G GRADER	1.00	203.21	HR		75,680	15,379		15,379	
8D8	D8T	2.00	406.43	HR		102,000	41,456		41,456	
8D9	D9T	1.00	203.21	HR		156,750	31,853		31,853	
8E365	Cat 365 Excavator	1.00	203.21	HR		129,250	26,265		26,265	
8L988	988 LOADER	1.00	203.21	HR		130,880	26,596		26,596	
8T735	Cat 735 Articulated Tr	8.00	1,625.70	HR		92,030	149,613		149,613	
8TWT	WATER TRUCK	1.00	203.21	HR		27,820	5,653		5,653	
OE1	Oper. 1: Dozers, Sm Loader	4.00	812.85	MH		36,190	55,565		55,565	
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	406.43	MH		37,950	28,819		28,819	
OE3	Oper. 3: GC, Rollers	1.00	203.21	MH		34,700	13,453		13,453	
OEF	Oper. Foreman	1.00	203.21	MH		40,000	15,022		15,022	
TD2	Truck Driver 2 20-40 cy	8.00	1,625.70	MH		33,810	102,357		102,357	
TD3	Truck Driver 3 10-20cy	1.00	203.21	MH		33,050	12,571		12,571	
\$806,253.94	0.0424 MH/CY		3,454.61	MH	[ 1.747 ]	227,786		296,815	281,653	806,254
400.0049	Units/Hr	4,000.0492	Un/Shift	* 20.3210	Shifts	2.80		3.65	3.47	9.92

**2030G Rock Ex. 523+00 - 577+00 - 10,000 lf Hau Quan: 439,458.00 CY Hrs/Shift: 10.00 Cal: 610 WC: OR1**

QTO = 508,200 cy

Special drilling & shooting required in this section, additional cost.

ROCKX		Rock Excavation Crew		1,098.64	CH	Prod: 4,000.0000 US	Lab Pcs: 19.00	Eqp Pcs: 17.00	
4DRILLNSHOOT	Drill & Shoot Subcontractor		439,458.00	CY		3,465		1,522,722	1,522,722
8B14	14G GRADER	1.00	1,098.65	HR		75,680	83,146		83,146
8D8	D8T	2.00	2,197.29	HR		102,000	224,124		224,124
8D9	D9T	1.00	1,098.65	HR		156,750	172,213		172,213
8E365	Cat 365 Excavator	1.00	1,098.65	HR		129,250	142,001		142,001
8L988	988 LOADER	1.00	1,098.65	HR		130,880	143,791		143,791
8T735	Cat 735 Articulated Tr	10.00	10,986.45	HR		92,030	1,011,083		1,011,083
8TWT	WATER TRUCK	1.00	1,098.65	HR		27,820	30,564		30,564

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 2030</b>										
Description = Rock Excavation				Unit =	CY	Takeoff Quan: 1,804,700.000		Engr Quan: 1,804,700.000		
OE1	Oper. 1: Dozers, Sm Loader	4.00	4,394.58 MH	36.190	300,405					300,405
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	2,197.29 MH	37.950	155,803					155,803
OE3	Oper. 3: GC, Rollers	1.00	1,098.65 MH	34.700	72,731					72,731
OEF	Oper. Foreman	1.00	1,098.65 MH	40.000	81,218					81,218
TD2	Truck Driver 2 20-40 cy	10.00	10,986.45 MH	33.810	691,724					691,724
TD3	Truck Driver 3 10-20cy	1.00	1,098.65 MH	33.050	67,964					67,964
\$4,699,489.46	0.0475 MH/CY		20,874.27 MH	[ 1.944 ]	1,369,845			1,806,922	1,522,722	4,699,489
400.0018	Units/Hr	4,000.0182	Un/Shift	* 109.8640	Shifts			4.11	3.47	10.69

**2030H Rock Ex: 757+00 - 782+00 - 4,000 lf Haul**      **Quan: 134,293.00 CY**    **Hrs/Shift: 10.00**    **Cal: 610**    **WC: ORI**

QTO = 155,300 cy										
<b>ROCKX</b> Rock Excavation Crew      223.82 CH <b>Prod: 6,000.0018 US</b> <b>Lab Pcs: 14.00</b> <b>Eqp Pcs: 12.00</b>										
4DRILLNSHOOT	Drill & Shoot Subcontractor		134,293.00 CY		3,465					465,325
8B14	14G GRADER	1.00	223.82 HR		75,680			16,939		16,939
8D8	D8T	2.00	447.64 HR		102,000			45,659		45,659
8D9	D9T	1.00	223.82 HR		156,750			35,084		35,084
8E365	Cat 365 Excavator	1.00	223.82 HR		129,250			28,929		28,929
8L988	988 LOADER	1.00	223.82 HR		130,880			29,294		29,294
8T735	Cat 735 Articulated Tr	5.00	1,119.11 HR		92,030			102,992		102,992
8TWT	WATER TRUCK	1.00	223.82 HR		27,820			6,227		6,227
OE1	Oper. 1: Dozers, Sm Loader	4.00	895.29 MH	36.190	61,200					61,200
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	447.64 MH	37.950	31,741					31,741
OE3	Oper. 3: GC, Rollers	1.00	223.82 MH	34.700	14,817					14,817
OEF	Oper. Foreman	1.00	223.82 MH	40.000	16,546					16,546
TD2	Truck Driver 2 20-40 cy	5.00	1,119.11 MH	33.810	70,461					70,461
TD3	Truck Driver 3 10-20cy	1.00	223.82 MH	33.050	13,846					13,846
\$939,058.44	0.0233 MH/CY		3,133.50 MH	[ 0.967 ]	208,611			265,122	465,325	939,058
600.0045	Units/Hr	6,000.0447	Un/Shift	* 22.3820	Shifts			1.97	3.47	6.99

**2030H Rock Ex: 782+00 - 836+00 - 3,000 lf Haul**      **Quan: 25,077.00 CY**    **Hrs/Shift: 10.00**    **Cal: 610**    **WC: ORI**

QTO = 29,000 cy										
<b>ROCKX</b> Rock Excavation Crew      41.79 CH <b>Prod: 6,000.0000 US</b> <b>Lab Pcs: 13.00</b> <b>Eqp Pcs: 11.00</b>										
4DRILLNSHOOT	Drill & Shoot Subcontractor		25,077.00 CY		3,465					86,892
8B14	14G GRADER	1.00	41.80 HR		75,680			3,163		3,163
8D8	D8T	2.00	83.59 HR		102,000			8,526		8,526
8D9	D9T	1.00	41.80 HR		156,750			6,552		6,552
8E365	Cat 365 Excavator	1.00	41.80 HR		129,250			5,403		5,403
8L988	988 LOADER	1.00	41.80 HR		130,880			5,471		5,471
8T735	Cat 735 Articulated Tr	4.00	167.18 HR		92,030			15,386		15,386
8TWT	WATER TRUCK	1.00	41.80 HR		27,820			1,163		1,163
OE1	Oper. 1: Dozers, Sm Loader	4.00	167.18 MH	36.190	11,428					11,428
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	83.59 MH	37.950	5,927					5,927
OE3	Oper. 3: GC, Rollers	1.00	41.80 MH	34.700	2,767					2,767
OEF	Oper. Foreman	1.00	41.80 MH	40.000	3,090					3,090
TD2	Truck Driver 2 20-40 cy	4.00	167.18 MH	33.810	10,526					10,526
TD3	Truck Driver 3 10-20cy	1.00	41.80 MH	33.050	2,586					2,586
\$168,879.61	0.0216 MH/CY		543.35 MH	[ 0.902 ]	36,324			45,664	86,892	168,880
600.0718	Units/Hr	6,000.7179	Un/Shift	* 4.1790	Shifts			1.82	3.47	6.73

**2030I Rock Ex: 863+00 - 890+00 - 10,000 lf Haul**      **Quan: 167,499.00 CY**    **Hrs/Shift: 10.00**    **Cal: 610**    **WC: ORI**

QTO = 193,700 cy										
<b>ROCKX</b> Rock Excavation Crew      279.16 CH <b>Prod: 5,999.9979 US</b> <b>Lab Pcs: 19.00</b> <b>Eqp Pcs: 17.00</b>										
4DRILLNSHOOT	Drill & Shoot Subcontractor		167,499.00 CY		3,465					580,384
8B14	14G GRADER	1.00	279.17 HR		75,680			21,128		21,128
8D8	D8T	2.00	558.33 HR		102,000			56,950		56,950
8D9	D9T	1.00	279.17 HR		156,750			43,760		43,760
8E365	Cat 365 Excavator	1.00	279.17 HR		129,250			36,083		36,083
8L988	988 LOADER	1.00	279.17 HR		130,880			36,538		36,538

DIRECT COST REPORT

Activity Resource	Desc	Pos	Quantity	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 2030</b>											
Description =		Rock Excavation		Unit =	CY	Takeoff Quan: 1,804,700.000		Engr Quan: 1,804,700.000			
8T735	Cat 735 Articulated Tr	10.00	2,791.65	HR	92.030				256,916		256,916
8TWT	WATER TRUCK	1.00	279.17	HR	27.820				7,767		7,767
OE1	Oper. 1: Dozers, Sm Loader	4.00	1,116.66	MH	36.190	76,333					76,333
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	558.33	MH	37.950	39,589					39,589
OE3	Oper. 3: GC, Rollers	1.00	279.17	MH	34.700	18,481					18,481
OEF	Oper. Foreman	1.00	279.17	MH	40.000	20,638					20,638
TD2	Truck Driver 2 20-40 cy	10.00	2,791.65	MH	33.810	175,767					175,767
TD3	Truck Driver 3 10-20cy	1.00	279.17	MH	33.050	17,270					17,270
\$1,387,601.34			0.0316 MH/CY	5,304.15	[ 1.296 ]	348,078			459,140	580,384	1,387,601
600.0107	Units/Hr	6,000.1075	Un/Shift	* 27.9160	Shifts	2.08			2.74	3.47	8.28

<b>2030J Rock Ex. 917+00 - 944+00 = 20,000 lf Haul</b>											
QTO = 204,100 cy											
<b>ROCKX</b>											
Rock Excavation Crew 441.23 CH Prod: 4,000.0000 US Lab Pcs: 19.00 Eqp Pcs: 17.00											
4DRILLNSHOOT	Drill & Shoot Subcontractor		176,492.00	CY	3.465					611,545	611,545
8B14	14G GRADER	1.00	441.23	HR	75.680				33,392		33,392
8D8	D8T	2.00	882.46	HR	102.000				90,011		90,011
8D9	D9T	1.00	441.23	HR	156.750				69,163		69,163
8E365	Cat 365 Excavator	1.00	441.23	HR	129.250				57,029		57,029
8L988	988 LOADER	1.00	441.23	HR	130.880				57,748		57,748
8T735	Cat 735 Articulated Tr	10.00	4,412.30	HR	92.030				406,064		406,064
8TWT	WATER TRUCK	1.00	441.23	HR	27.820				12,275		12,275
OE1	Oper. 1: Dozers, Sm Loader	4.00	1,764.92	MH	36.190	120,647					120,647
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	882.46	MH	37.950	62,572					62,572
OE3	Oper. 3: GC, Rollers	1.00	441.23	MH	34.700	29,210					29,210
OEF	Oper. Foreman	1.00	441.23	MH	40.000	32,618					32,618
TD2	Truck Driver 2 20-40 cy	10.00	4,412.30	MH	33.810	277,805					277,805
TD3	Truck Driver 3 10-20cy	1.00	441.23	MH	33.050	27,295					27,295
\$1,887,374.08			0.0475 MH/CY	8,383.37	[ 1.944 ]	550,147			725,682	611,545	1,887,374
400.0000	Units/Hr	4,000.0000	Un/Shift	* 44.1230	Shifts	3.12			4.11	3.47	10.69

<b>2030K Rock Ex. 1076+00 - 1106+00 = 3,000 lf Haul</b>											
QTO = 31,700 cy											
<b>ROCKX</b>											
Rock Excavation Crew 45.68 CH Prod: 6,000.0088 US Lab Pcs: 13.00 Eqp Pcs: 11.00											
4DRILLNSHOOT	Drill & Shoot Subcontractor		27,412.00	CY	3.465					94,983	94,983
8B14	14G GRADER	1.00	45.69	HR	75.680				3,458		3,458
8D8	D8T	2.00	91.37	HR	102.000				9,320		9,320
8D9	D9T	1.00	45.69	HR	156.750				7,162		7,162
8E365	Cat 365 Excavator	1.00	45.69	HR	129.250				5,905		5,905
8L988	988 LOADER	1.00	45.69	HR	130.880				5,980		5,980
8T735	Cat 735 Articulated Tr	4.00	182.75	HR	92.030				16,818		16,818
8TWT	WATER TRUCK	1.00	45.69	HR	27.820				1,271		1,271
OE1	Oper. 1: Dozers, Sm Loader	4.00	182.75	MH	36.190	12,492					12,492
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	91.37	MH	37.950	6,479					6,479
OE3	Oper. 3: GC, Rollers	1.00	45.69	MH	34.700	3,025					3,025
OEF	Oper. Foreman	1.00	45.69	MH	40.000	3,378					3,378
TD2	Truck Driver 2 20-40 cy	4.00	182.75	MH	33.810	11,506					11,506
TD3	Truck Driver 3 10-20cy	1.00	45.69	MH	33.050	2,826					2,826
\$184,603.16			0.0216 MH/CY	593.94	[ 0.902 ]	39,706			49,914	94,983	184,603
600.0876	Units/Hr	6,000.8757	Un/Shift	* 4.5680	Shifts	1.45			1.82	3.47	6.73

<b>2030L Rock Ex. 836+00 - 863+00 = 4,000 lf Haul</b>											
QTO = 66,200 cy											
<b>ROCKX</b>											
Rock Excavation Crew 95.40 CH Prod: 6,000.0021 US Lab Pcs: 14.00 Eqp Pcs: 12.00											
4DRILLNSHOOT	Drill & Shoot Subcontractor		57,245.00	CY	3.465					198,354	198,354
8B14	14G GRADER	1.00	95.41	HR	75.680				7,221		7,221
8D8	D8T	2.00	190.82	HR	102.000				19,464		19,464
8D9	D9T	1.00	95.41	HR	156.750				14,956		14,956

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 2030</b>										
Description =	Rock Excavation		Unit =	CY	Takeoff Quan:	1,804,700.000	Engr Quan:	1,804,700.000		
8E365	Cat 365 Excavator	1.00	95.41 HR	129.250				12,332		12,332
8L988	988 LOADER	1.00	95.41 HR	130.880				12,487		12,487
8T735	Cat 735 Articulated Tr	5.00	477.04 HR	92.030				43,902		43,902
8TWT	WATER TRUCK	1.00	95.41 HR	27.820				2,654		2,654
OE1	Oper. 1: Dozers, Sm Loader	4.00	381.63 MH	36.190	26,088					26,088
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	190.82 MH	37.950	13,530					13,530
OE3	Oper. 3: GC, Rollers	1.00	95.41 MH	34.700	6,316					6,316
OEF	Oper. Foreman	1.00	95.41 MH	40.000	7,053					7,053
TD2	Truck Driver 2 20-40 cy	5.00	477.04 MH	33.810	30,035					30,035
TD3	Truck Driver 3 10-20cy	1.00	95.41 MH	33.050	5,902					5,902
\$400,293.72		0.0233 MH/CY	1,335.72 MH	[ 0.967 ]	88,925			113,015	198,354	400,294
600.0524 Units/Hr	6,000.5241 Un/Shift	*	9.5400 Shifts		1.55			1.97	3.47	6.99
<b>2030X Pioneering XT</b>										
Quan: 15,500.00 LF Hrs/Shift: 10.00 Cal: 610 WC: OR1										
BLANK	A Blank Crew		310.00 CH	Prod:	50.0000 UH	Lab Pcs:	6.00	Eqp Pcs:	5.00	
8DRILLNCOMP	Drill & Compressor	2.00	620.00 HR	20.000			12,400			12,400
8E312	Cat 312 Excavator	1.00	310.00 HR	21.600			6,696			6,696
8SMALLTOOLS	Misc Small Tools	2.00	620.00 HR	10.000			6,200			6,200
LAB1	Laborer 1: ACPaver, Gen.L	4.00	1,240.00 MH	28.240	69,806					69,806
OE1	Oper. 1: Dozers, Sm Loader	1.00	310.00 MH	36.190	21,191					21,191
OEF	Oper. Foreman	1.00	310.00 MH	40.000	22,917					22,917
\$139,210.28		0.1200 MH/LF	1,860.00 MH	[ 4.414 ]	113,914			25,296		139,210
50.0000 Units/Hr	* 500.0000 Un/Shift		31.0000 Shifts		7.35			1.63		8.98
<b>2030Y Standard Pioneering</b>										
Quan: 16,400.00 LF Hrs/Shift: 10.00 Cal: 610 WC: OR1										
BLANK	A Blank Crew		164.00 CH	Prod:	100.0000 UH	Lab Pcs:	9.00	Eqp Pcs:	7.00	
8DRILLNCOMP	Drill & Compressor	4.00	656.00 HR	20.000			13,120			13,120
8E312	Cat 312 Excavator	2.00	328.00 HR	21.600			7,085			7,085
8SMALLTOOLS	Misc Small Tools	1.00	164.00 HR	10.000			1,640			1,640
LAB1	Laborer 1: ACPaver, Gen.L	6.00	984.00 MH	28.240	55,395					55,395
OE1	Oper. 1: Dozers, Sm Loader	2.00	328.00 MH	36.190	22,421					22,421
OEF	Oper. Foreman	1.00	164.00 MH	40.000	12,124					12,124
\$111,784.78		0.0900 MH/LF	1,476.00 MH	[ 3.288 ]	89,940			21,845		111,785
100.0000 Units/Hr	* 1,000.0000 Un/Shift		16.4000 Shifts		5.48			1.33		6.82
<b>2030M Rock Ex: 890+00- 917+00; 10,000 lf Haul</b>										
QTO = 130,900cy										
Quan: 113,195.00 CY Hrs/Shift: 10.00 Cal: 610 WC: OR1										
ROCKX	Rock Excavation Crew		282.98 CH	Prod:	4,000.0000 US	Lab Pcs:	17.00	Eqp Pcs:	15.00	
4DRILLNSHOOT	Drill & Shoot Subcontractor		113,195.00 CY	3,465				392,221	392,221	
8B14	14G GRADER	1.00	282.99 HR	75.680			21,417			21,417
8D8	D8T	2.00	565.98 HR	102.000			57,730			57,730
8D9	D9T	1.00	282.99 HR	156.750			44,359			44,359
8E365	Cat 365 Excavator	1.00	282.99 HR	129.250			36,576			36,576
8L988	988 LOADER	1.00	282.99 HR	130.880			37,038			37,038
8T735	Cat 735 Articulated Tr	8.00	2,263.90 HR	92.030			208,347			208,347
8TWT	WATER TRUCK	1.00	282.99 HR	27.820			7,873			7,873
OE1	Oper. 1: Dozers, Sm Loader	4.00	1,131.95 MH	36.190	77,378					77,378
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	565.98 MH	37.950	40,132					40,132
OE3	Oper. 3: GC, Rollers	1.00	282.99 MH	34.700	18,734					18,734
OEF	Oper. Foreman	1.00	282.99 MH	40.000	20,920					20,920
TD2	Truck Driver 2 20-40 cy	8.00	2,263.90 MH	33.810	142,539					142,539
TD3	Truck Driver 3 10-20cy	1.00	282.99 MH	33.050	17,506					17,506
\$1,122,768.55		0.0425 MH/CY	4,810.80 MH	[ 1.747 ]	317,209			413,339	392,221	1,122,769
400.0106 Units/Hr	4,000.1060 Un/Shift	*	28.2980 Shifts		2.80			3.65	3.47	9.92
<b>Item Totals: 2030 - Rock Excavation</b>										
\$16,028,617.95	0.0366 MH/CY		66,080.03 MH	[ 1.498 ]	4,344,506			5,430,827	6,253,286	16,028,618
8.882	1804700 CY				2.41			3.01	3.47	8.88

DIRECT COST REPORT

Activity	Desc	Quantity	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Ment Contract	Total
Resource		Pcs							

BID ITEM = 2032

Description = Unclassified Excavation Unit = CY Takeoff Quan: 786,900.000 Engr Quan: 786,900.000

Our take off yielded 619,100 cy of unclassified excavation. The bid quantity is 786,900 cy. We adjusted our activities by a factor of 1.27103 (786,900 / 619,100) so our estimated unit cost is accurate and proportional to this quantity.

2032A		Gen. Ex. 58+00 - 227+00 - 3,000 If Haul		Quan: 59,612.00 CY		Hrs/Shift: 10:00		Cal: 610 WC: ORI	
<u>GENX</u>	Unclassified Excavation		91.71	CH	Prod: 6,500.0049 US	Lab Pcs:	11.50	Eqp Pcs:	9.50
8B14	14G GRADER	1.00	91.71	HR	75.680		6,941		6,941
8D8	D8T	2.00	183.42	HR	102.000		18,709		18,709
8E365	Cat 365 Excavator	1.00	91.71	HR	129.250		11,854		11,854
8L988	988 LOADER	0.50	45.86	HR	130.880		6,002		6,002
8T735	Cat 735 Articulated Tr	4.00	366.84	HR	92.030		33,760		33,760
8TWT	WATER TRUCK	1.00	91.71	HR	27.820		2,551		2,551
OE1	Oper. 1: Dozers, Sm Loader	2.50	229.28	MH	36.190	15,673			15,673
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	183.42	MH	37.950	13,006			13,006
OE3	Oper. 3: GC, Rollers	1.00	91.71	MH	34.700	6,071			6,071
OEF	Oper. Foreman	1.00	91.71	MH	40.000	6,780			6,780
TD2	Truck Driver 2 20-40 cy	4.00	366.84	MH	33.810	23,097			23,097
TD3	Truck Driver 3 10-20cy	1.00	91.71	MH	33.050	5,673			5,673
\$150,116.71		0.0176 MH/CY	1,054.67	MH	[ 0.735 ]	70,300		79,817	150,117
650.0055 Units/Hr	6,500.0545 Un/Shift	*	9.1710	Shifts		1.18		1.34	2.52

2032B		Gen. Ex. 227+00 - 300+00 - 3,000 If Haul		Quan: 76,262.00 CY		Hrs/Shift: 10:00		Cal: 610 WC: ORI	
<u>GENX</u>	Unclassified Excavation		117.32	CH	Prod: 6,499.9974 US	Lab Pcs:	11.50	Eqp Pcs:	9.50
8B14	14G GRADER	1.00	117.33	HR	75.680		8,880		8,880
8D8	D8T	2.00	234.65	HR	102.000		23,934		23,934
8E365	Cat 365 Excavator	1.00	117.33	HR	129.250		15,165		15,165
8L988	988 LOADER	0.50	58.66	HR	130.880		7,677		7,677
8T735	Cat 735 Articulated Tr	4.00	469.30	HR	92.030		43,190		43,190
8TWT	WATER TRUCK	1.00	117.33	HR	27.820		3,264		3,264
OE1	Oper. 1: Dozers, Sm Loader	2.50	293.32	MH	36.190	20,051			20,051
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	234.65	MH	37.950	16,638			16,638
OE3	Oper. 3: GC, Rollers	1.00	117.33	MH	34.700	7,767			7,767
OEF	Oper. Foreman	1.00	117.33	MH	40.000	8,674			8,674
TD2	Truck Driver 2 20-40 cy	4.00	469.30	MH	33.810	29,548			29,548
TD3	Truck Driver 3 10-20cy	1.00	117.33	MH	33.050	7,258			7,258
\$192,046.05		0.0176 MH/CY	1,349.26	MH	[ 0.735 ]	89,936		102,110	192,046
650.0341 Units/Hr	6,500.3409 Un/Shift	*	11.7320	Shifts		1.18		1.34	2.52

2032C		Gen. Ex. Glacial Till @ 775+00 - 5,000 H		Quan: 347,883.00 CY		Hrs/Shift: 10:00		Cal: 610 WC: ORI	
<u>GENX</u>	Unclassified Excavation		535.20	CH	Prod: 6,500.0002 US	Lab Pcs:	14.50	Eqp Pcs:	12.50
8B14	14G GRADER	1.00	535.20	HR	75.680		40,504		40,504
8D6LGP	D6LGP	1.00	535.20	HR	39.200		20,980		20,980
8D8	D8T	2.00	1,070.41	HR	102.000		109,182		109,182
8E365	Cat 365 Excavator	1.00	535.20	HR	129.250		69,175		69,175
8L988	988 LOADER	0.50	267.60	HR	130.880		35,023		35,023
8T735	Cat 735 Articulated Tr	6.00	3,211.23	HR	92.030		295,529		295,529
8TWT	WATER TRUCK	1.00	535.20	HR	27.820		14,889		14,889
OE1	Oper. 1: Dozers, Sm Loader	3.50	1,873.22	MH	36.190	128,050			128,050
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	1,070.41	MH	37.950	75,899			75,899
OE3	Oper. 3: GC, Rollers	1.00	535.20	MH	34.700	35,430			35,430
OEF	Oper. Foreman	1.00	535.20	MH	40.000	39,565			39,565
TD2	Truck Driver 2 20-40 cy	6.00	3,211.23	MH	33.810	202,184			202,184
TD3	Truck Driver 3 10-20cy	1.00	535.20	MH	33.050	33,108			33,108
\$1,099,519.21		0.0223 MH/CY	7,760.46	MH	[ 0.921 ]	514,237		585,282	1,099,519
650.0056 Units/Hr	6,500.0561 Un/Shift	*	53.5200	Shifts		1.48		1.68	3.16



DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
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BID ITEM = 2032

Description = Unclassified Excavation Unit = CY Takeoff Quan: 786,900.000 Engr Quan: 786,900.000

2032D		Gen. Ex. Glacial Till @ 850+00 - 5,000 H		Quan: 41,690.00 CY	Hrs/Shift: 10.00	Cal: 610	WC: ORI			
GENX	Unclassified Excavation		64.13 CH	Prod: 6,500.0062 US		Lab Pcs: 14.50		Eqp Pcs: 12.50		
8B14	14G GRADER	1.00	64.14 HR	75.680				4,854		4,854
8D6LGP	D6LGP	1.00	64.14 HR	39.200				2,514		2,514
8D8	D8T	2.00	128.28 HR	102.000				13,085		13,085
8E365	Cat 365 Excavator	1.00	64.14 HR	129.250				8,290		8,290
8L988	988 LOADER	0.50	32.07 HR	130.880				4,197		4,197
8T735	Cat 735 Articulated Tr	6.00	384.83 HR	92.030				35,416		35,416
8TWT	WATER TRUCK	1.00	64.14 HR	27.820				1,784		1,784
OE1	Oper. 1: Dozers, Sm Loader	3.50	224.48 MH	36.190	15,345					15,345
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	128.28 MH	37.950	9,096					9,096
OE3	Oper. 3: GC, Rollers	1.00	64.14 MH	34.700	4,246					4,246
OEF	Oper. Foreman	1.00	64.14 MH	40.000	4,742					4,742
TD2	Truck Driver 2 20-40 cy	6.00	384.83 MH	33.810	24,230					24,230
TD3	Truck Driver 3 10-20cy	1.00	64.14 MH	33.050	3,968					3,968
\$131,766.55		0.0223 MH/CY	930.01 MH	[ 0.921 ]	61,626			70,141		131,767
650.0858	Units/Hr	6,500.8576	Un/Shift *	6.4130	Shifts			1.68		3.16

2032E		Gen. Ex. Glacial Till @ 900+00 - 5,000 H		Quan: 157,227.00 CY	Hrs/Shift: 10.00	Cal: 610	WC: ORI			
GENX	Unclassified Excavation		241.88 CH	Prod: 6,500.0025 US		Lab Pcs: 14.50		Eqp Pcs: 12.50		
8B14	14G GRADER	1.00	241.89 HR	75.680				18,306		18,306
8D6LGP	D6LGP	1.00	241.89 HR	39.200				9,482		9,482
8D8	D8T	2.00	483.78 HR	102.000				49,346		49,346
8E365	Cat 365 Excavator	1.00	241.89 HR	129.250				31,264		31,264
8L988	988 LOADER	0.50	120.94 HR	130.880				15,829		15,829
8T735	Cat 735 Articulated Tr	6.00	1,451.33 HR	92.030				133,566		133,566
8TWT	WATER TRUCK	1.00	241.89 HR	27.820				6,729		6,729
OE1	Oper. 1: Dozers, Sm Loader	3.50	846.61 MH	36.190	57,873					57,873
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	483.78 MH	37.950	34,303					34,303
OE3	Oper. 3: GC, Rollers	1.00	241.89 MH	34.700	16,013					16,013
OEF	Oper. Foreman	1.00	241.89 MH	40.000	17,882					17,882
TD2	Truck Driver 2 20-40 cy	6.00	1,451.33 MH	33.810	91,378					91,378
TD3	Truck Driver 3 10-20cy	1.00	241.89 MH	33.050	14,964					14,964
\$496,934.71		0.0223 MH/CY	3,507.39 MH	[ 0.921 ]	232,413			264,522		496,935
650.0207	Units/Hr	6,500.2067	Un/Shift *	24.1880	Shifts			1.68		3.16

2032F		Gen. Ex. 944+00 - 1052+00 - 20,000 Jf Ha		Quan: 10,931.00 CY	Hrs/Shift: 10.00	Cal: 610	WC: ORI			
GENX	Unclassified Excavation		27.32 CH	Prod: 4,000.0000 US		Lab Pcs: 17.50		Eqp Pcs: 15.50		
8B14	14G GRADER	1.00	27.33 HR	75.680				2,068		2,068
8D8	D8T	2.00	54.66 HR	102.000				5,575		5,575
8E365	Cat 365 Excavator	1.00	27.33 HR	129.250				3,532		3,532
8L988	988 LOADER	0.50	13.66 HR	130.880				1,788		1,788
8T735	Cat 735 Articulated Tr	10.00	273.28 HR	92.030				25,150		25,150
8TWT	WATER TRUCK	1.00	27.33 HR	27.820				760		760
OE1	Oper. 1: Dozers, Sm Loader	2.50	68.32 MH	36.190	4,670					4,670
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	54.66 MH	37.950	3,876					3,876
OE3	Oper. 3: GC, Rollers	1.00	27.33 MH	34.700	1,809					1,809
OEF	Oper. Foreman	1.00	27.33 MH	40.000	2,020					2,020
TD2	Truck Driver 2 20-40 cy	10.00	273.28 MH	33.810	17,206					17,206
TD3	Truck Driver 3 10-20cy	1.00	27.33 MH	33.050	1,691					1,691
\$70,146.57		0.0437 MH/CY	478.25 MH	[ 1.786 ]	31,272			38,874		70,147
400.1098	Units/Hr	4,001.0981	Un/Shift *	2.7320	Shifts			3.56		6.42

2032G		Gen. Ex. 1079+00 - 1106+00 - 4,000 Jf Ha		Quan: 56,688.00 CY	Hrs/Shift: 10.00	Cal: 610	WC: ORI			
GENX	Unclassified Excavation		87.21 CH	Prod: 6,500.0006 US		Lab Pcs: 12.50		Eqp Pcs: 10.50		
8B14	14G GRADER	1.00	87.21 HR	75.680				6,600		6,600
8D8	D8T	2.00	174.42 HR	102.000				17,791		17,791
8E365	Cat 365 Excavator	1.00	87.21 HR	129.250				11,272		11,272
8L988	988 LOADER	0.50	43.61 HR	130.880				5,708		5,708

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Contract	Total	
<b>BID ITEM = 2032</b>										
Description =	Unclassified Excavation		Unit =	CY	Takeoff Quan:	786,900.000	Engr Quan:	786,900.000		
8T735	Cat 735 Articulated Tr	5.00	436.06 HR	92.030			40,131		40,131	
8TWT	WATER TRUCK	1.00	87.21 HR	27.820			2,426		2,426	
OE1	Oper. 1: Dozers, Sm Loader	2.50	218.03 MH	36.190	14,904				14,904	
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	174.42 MH	37.950	12,368				12,368	
OE3	Oper. 3: GC, Rollers	1.00	87.21 MH	34.700	5,773				5,773	
OEF	Oper. Foreman	1.00	87.21 MH	40.000	6,447				6,447	
TD2	Truck Driver 2 20-40 cy	5.00	436.06 MH	33.810	27,455				27,455	
TD3	Truck Driver 3 10-20cy	1.00	87.21 MH	33.050	5,395				5,395	
\$156,269.24	0.0192 MH/CY		1,090.14 MH	[ 0.795 ]	72,342		83,927		156,269	
650.0172	Units/Hr	6,500.1720	Un/Shift	*	8.7210	Shifts	1.28		1.48	
<b>2032H Gen. Ex: 1025+00 - 1052+00 - 3,000 H</b>										
<b>GENX</b>		Unclassified Excavation		56.31	CH	Prod:	6,499.9956	US	Lab Pcs: 11.50	Eqp Pcs: 9.50
8B14	14G GRADER	1.00	56.32 HR	75.680			4,262		4,262	
8D8	D8T	2.00	112.64 HR	102.000			11,489		11,489	
8E365	Cat 365 Excavator	1.00	56.32 HR	129.250			7,279		7,279	
8L988	988 LOADER	0.50	28.16 HR	130.880			3,686		3,686	
8T735	Cat 735 Articulated Tr	4.00	225.27 HR	92.030			20,732		20,732	
8TWT	WATER TRUCK	1.00	56.32 HR	27.820			1,567		1,567	
OE1	Oper. 1: Dozers, Sm Loader	2.50	140.80 MH	36.190	9,625				9,625	
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	112.64 MH	37.950	7,987				7,987	
OE3	Oper. 3: GC, Rollers	1.00	56.32 MH	34.700	3,728				3,728	
OEF	Oper. Foreman	1.00	56.32 MH	40.000	4,163				4,163	
TD2	Truck Driver 2 20-40 cy	4.00	225.27 MH	33.810	14,183				14,183	
TD3	Truck Driver 3 10-20cy	1.00	56.32 MH	33.050	3,484				3,484	
\$92,185.95	0.0176 MH/CY		647.67 MH	[ 0.735 ]	43,171		49,015		92,186	
650.0977	Units/Hr	6,500.9767	Un/Shift	*	5.6310	Shifts	1.18		1.34	
<b>=====&gt; Item Totals: 2032 - Unclassified Excavation</b>										
\$2,388,984.99	0.0213 MH/CY		16,817.85 MH	[ 0.883 ]	1,115,297		1,273,688		2,388,985	
3.036	786900	CY			1.42		1.62		3.04	

**DIRECT COST REPORT**

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
<b>BID ITEM = 2035</b>										
Description = Borrow Unit = CY Takeoff Quan: 242,500.000 Engr Quan: 242,500.000										
2035A Borrow Quan: 242,500.00 CY Hrs/Shift: 10.00 Cal: 610 WC: OR1										
3BORROW	Borrow If Needed	242,500.00	CY	2.500			606,250			606,250
<b>Item Totals: 2035 - Borrow</b>										
							606,250			606,250
		242500	CY				2.50			2.50

DIRECT COST REPORT

Activity	Desc	Quantity	Unit	Unit	Penn	Constr	Equip	Sub-	Total
Resource		Pcs		Cost	Labor	Material	Mat/Exp	Ment	Contract

BID ITEM = 2036

Description = Controlled Blasting Unit = SY Takeoff Quan: 148,000.000 Engr Quan: 148,000.000

2036	Controlled Blasting			Quan: 148,000.00 SY	Hrs/Shift: 10.00	Cal: 610	WC: OR1		
4DRILLCB	Cont. Blasting Subcontracto	148,000.00	SY	11.850				1,753,800	1,753,800

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
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BID ITEM = 2039

Description = Barrier Rocks

Unit = LF Takeoff Quan: 4,000.000 Engr Quan: 4,000.000

2039A		Barrier Rocks		Quan: 4,000.00	LF	Hrs/Shift: 10.00	Cal: 610	WC: ORI
<u>BLANK</u>	A Blank Crew		100.00	CH	Prod: 400.0000	US	Lab Pcs: 4.00	Eqp Pcs: 3.00
8E330	330 Excavator	2.00	200.00	HR	73.850		14,770	14,770
8T730	Cat 730 Articulated Tr	1.00	100.00	HR	78.500		7,850	7,850
LAB1	Laborer 1: ACPaver, Gen.L	1.00	100.00	MH	28.240	5,630		5,630
OE1A	Oper. 1A: Lrg Loader, Blad	2.00	200.00	MH	37.950	14,181		14,181
TD2	Truck Driver 2 20-40 cy	1.00	100.00	MH	33.810	6,296		6,296
\$48,727.07		0.1000	MH/LF	400.00	[ 4.024 ]	26,107	22,620	48,727
40.0000	Units/Hr	400.0000	Un/Shift	* 10.0000		6.53	5.66	12.18

====> Item Totals:		2039	- Barrier Rocks					
\$48,727.07		0.1000	MH/LF	400.00	[ 4.024 ]	26,107	22,620	48,727
12.182		4000	LF			6.53	5.66	12.18

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
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BID ITEM = 3010

Description = Aggregate Base Unit = TN Takeoff Quan: 97,120.000 Engr Quan: 97,120.000

NOTE: The typical sections do not show any aggregate base section, but do show a 2" AC section over a 4" ATB section. These section thicknesses do not translate to the quantities in the bid schedule.

<b>3010A</b>	<b>Crush AB</b>								
4CRUSHER	Crushing sub for AB	97,120.00	TN	4.000				388,480	388,480

<b>3010B</b>	<b>Load &amp; Haul AB In Zone 1</b>								
	Hauling from approx. 425+00 for Zone 1 & Comet for Zone 3. Average haul from Comet is 6.5 miles, average haul from 425+00 is 4 miles. Average haul speed is 25 mph.								

Zone 3  
Position & Load: 3 Min.  
Haul: 16 Min.  
Dump: 1 Min.  
Turn around & return: 17 Min.  
Total 37 Minutes => Round up to 40 Min.

Zone 1  
Position & Load: 3 Min.  
Haul: 10 Min.  
Dump: 1 Min.  
Turn around & return: 11 Min.  
Total: 25 Min. => Round up to 30 Min.

Average 22 tons per load

Average haul for Zones 1-3 = 35 minutes

<u>BLANK</u>	A Blank Crew		292.53	CH	Prod:	166.0000	UH	Lab Pcs:	1.00	Eqp Pcs:	6.00
8L980	980 LOADER	1.00	292.53	HR		86.480			25,298		25,298
8RBELLY	RENTED BELLY DUMP	5.00	1,462.65	HR		105.000			153,578		153,578
OE1	Oper. 1: Dozers, Sm Loader	1.00	292.53	MH		36.190	19,997				19,997
\$198,873.05	0.0060 MH/TN		292.53	MH	[ 0.254 ]		19,997		178,876		198,873
166.0001	Units/Hr * 1,660.0007 Un/Shift		29.2530	Shifts			0.41		3.68		4.10

<b>3010C</b>	<b>Place AB</b>										
<u>BLANK</u>	A Blank Crew		585.06	CH	Prod:	166.0000	UH	Lab Pcs:	3.00	Eqp Pcs:	2.00

8B14	14G GRADER	1.00	585.06	HR		75.680			44,277		44,277
8CSD	84" SMOOTH DRUM	1.00	585.06	HR		38.750			22,671		22,671
OE1	Oper. 1: Dozers, Sm Loader	1.00	585.06	MH		36.190	39,994				39,994
OE1A	Oper. 1A: Lrg Loader, Blad	1.00	585.06	MH		37.950	41,485				41,485
OE3	Oper. 3: GC, Rollers	1.00	585.06	MH		34.700	38,731				38,731
\$187,158.02	0.0180 MH/TN		1,755.18	MH	[ 0.765 ]		120,210		66,948		187,158
166.0001	Units/Hr * 1,660.0007 Un/Shift		58.5060	Shifts			1.24		0.69		1.93

<b>3010D</b>	<b>Finish AB</b>										
<u>BLANK</u>	A Blank Crew		560.00	CH	Prod:	1.5000	US	Lab Pcs:	3.00	Eqp Pcs:	2.00

8B14	14G GRADER	1.00	560.00	HR		75.680			42,381		42,381
8CSD	84" SMOOTH DRUM	1.00	560.00	HR		38.750			21,700		21,700
OE1	Oper. 1: Dozers, Sm Loader	1.00	560.00	MH		36.190	38,281				38,281
OE1A	Oper. 1A: Lrg Loader, Blad	1.00	560.00	MH		37.950	39,708				39,708
OE3	Oper. 3: GC, Rollers	1.00	560.00	MH		34.700	37,072				37,072
\$179,141.44	20.0000 MH/ACRE		1,680.00	MH	[ 846.558 ]		115,061		64,081		179,141
0.1500	Units/Hr 1.5000 Un/Shift * 56.0000 Shifts						1,369.77		762.87		2,132.64

<b>3010E</b>	<b>Load &amp; Haul AB Zone 3</b>										
<u>BLANK</u>	A Blank Crew		292.53	CH	Prod:	166.0000	UH	Lab Pcs:	1.00	Eqp Pcs:	5.00

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mail/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 3010</b>										
Description =	Aggregate Base			Unit =	TN	Takeoff Quan:	97,120.000	Engr Quan:	97,120.000	
8L980	980 LOADER	1.00	292.53 HR		86.480			25,298		25,298
8RBELLY	RENTED BELLY DUMP	4.00	1,170.12 HR		105.000			122,863		122,863
OE1	Oper. 1: Dozers, Sm Loader	1.00	292.53 MH		36.190	19,997				19,997
\$168,157.40			0.0060 MH/TN		292.53 MH			148,161		168,157
166.0001	Units/Hr * 1,660.0007 Un/Shift		29.2530 Shifts			0.41		3.05		3.46
<hr/>										
====>	<b>Item Totals:</b>	<b>3010</b>	<b>- Aggregate Base</b>							
\$1,121,809.91	0.0413 MH/TN		4,020.24 MH	[ 1.752 ]	275,264			458,066	388,480	<b>1,121,810</b>
11.551	97120 TN				2.83			4.72	4.00	11.55

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
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BID ITEM = 3060

Description = Asphalt Treated Base Unit = TN Takeoff Quan: 47,525.000 Engr Quan: 47,525.000

ATB & AC production & laydown costs determined through conversations with Bob McCafferty w/ McCafferty Whittle Construction, a local paving contractor specializing in large-scale asphalt paving projects.

3060A	Crush ATB Aggregate			Quan: 47,525.00 TN	Hrs/Shift: 10.00	Cal: 610	WC: ORI		
4CRUSHATB	Crusher Sub for ATB	47,525.00	TN	4.000				190,100	190,100

3060B	Haul ATB to Paver			Quan: 47,525.00 TN	Hrs/Shift: 10.00	Cal: 610	WC: ORI		
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AC plant will be set up at 425+00 in Zone 1.  
ATB & AC paving miles per zone:  
Zone 1 = 9.8 miles  
Zone 2 = 2.3 miles  
Zone 3 = 10.1 miles

-Average haul distance to area between 58+00 & 273+00 (4.07 mi) will be 5 miles. Average haul distance to area between 273+00 & 577+00 (5.8 miles) will be 1.5 miles. Average haul length for Zone 1 is  $((4.07 \times 5) + (5.8 \times 1.5)) / (4.07 + 5.8) = 2.94$ , or 3 miles.  
-Average haul distance to Zone 2 is 4.6 miles (425+00 - 666+00 +/-)  
-Average haul distance to Zone 3 is 11.3 miles (425+00 - 1023+00 +/-)

Average haul length for project =  $((9.8 \times 3) + (2.3 \times 4.6) + (10.1 \times 11.3)) / 22.2 = 6.94$  miles, rounded to 7.  
Average haul speed = 25 mph.

Position & Load: 3 Min.  
Haul: 17 Min.  
Dump: 1 Min.  
Turn around & return: 19 Min.  
Total 40 Minutes

22 tons per load @ 1.5 loads per hour = 33 tons per hour @ \$105/hr = \$3.20 per ton to haul ATB & AC.  
BLANK A Blank Crew 0.00 CH Prod: 0.0000 Lab Pcs: 0.00 Eqp Pcs: 0.00  
3ATBACHAUL Haul cost for ATB & AC 47,525.00 TN 3.200 152,080 152,080

3060C	Process & Laydown ATB			Quan: 47,525.00 TN	Hrs/Shift: 10.00	Cal: 610	WC: ORI		
3ATBLAYDOWN	Cost to Process & Laydown	47,525.00	TN	16.000		760,400		760,400	

====> Item Totals:	3060 - Asphalt Treated Base			[ ]		912,480		190,100	1,102,580
\$1,102,580.00						19.20		4.00	23.20
23.200	47525 TN								



DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
<b>BID ITEM = 4010</b>									
Description = Asphalt Concrete, Type II: Class B			Unit = TN		Takeoff Quan: 51,360.000		Engr Quan: 51,360.000		
4010A	Crush AC Aggregate				Quan: 51,360.00 TN	Hrs/Shift: 10.00	Cal: 610	WC: OR1	
3CRUSHACROC	Crush AC Rock	51,360.00 TN		5.000		256,800			256,800
4010B	Haul AC				Quan: 51,360.00 TN	Hrs/Shift: 10.00	Cal: 610	WC: OR1	
3ATBACHAUL	Haul cost for ATB & AC	51,360.00 TN		3.200		164,352			164,352
4010C	Process & Laydown AC				Quan: 51,360.00 TN	Hrs/Shift: 10.00	Cal: 610	WC: OR1	
4ACPAVE	Process & Laydown AC	51,360.00 TN		17.000				873,120	873,120
<b>====&gt; Item Totals: 4010 - Asphalt Concrete, Type II: Class B</b>									
					[ ]	421,152		873,120	1,294,272
						8.20		17.00	25.20

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S9871  
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Juneau-Lynn Canal Highway Zones 1-3

Page 20  
05/15/2009 15:56

**DIRECT COST REPORT**

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
<b>BID ITEM = 4012</b>									
Description = Asphalt Cement, Grade 58-28			Unit = TN		Takeoff Quan: 5,232.000			Engr Quan: 5,232.000	
<b>4012A</b>	<b>Asphalt Cement, Grade 58-28</b>			<b>Quan: 5,232.00 TN</b>	<b>Hrs/Shift: 10.00</b>	<b>Cal: 610</b>	<b>WC: ORI</b>		
2ASPHALT	Liquid Asphalt	5,232.00	TN	510.300		2,669,890			2,669,890
=====> Item Totals: 4012 - Asphalt Cement, Grade 58-28									
					[ ]	2,669,890			2,669,890
		5232 TN				510.30			510.30

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
<hr/>										
BID ITEM =	4020									
Description =	STE-1 Asphalt for Tack Coat	Unit =	TN	Takeoff Quan:	125.000	Engr Quan:	125.000			
<del>4020A</del>	<del>STE-1 Asphalt for Tack Coat</del>	Quan:	125.00 TN	Hrs/Shift:	10.00	Cal:	610	WC:	ORI	
4TACK	Liquid Tack Oil	125.00	TN	510.300					63,788	63,788

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
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BID ITEM = 5070

Description = Safety Rail Unit = LF Takeoff Quan: 1,553.000 Engr Quan: 1,553.000

5070 Install Safety Rail									
Quan: 1,553.00 LF Hrs/Shift: 10.00 Cal: 610 WC: ORI									
BLANK	A Blank Crew	20.00	CH	Prod:	2.0000	S	Lab Pcs:	3.00	Eqp Pcs: 2.00
21/4"CABLE	1/4" Galvanized C@110%	4,659.00	LF	0.180			922		922
22"POSTS	2" Posts@110%	175.00	EA	12.000			2,310		2,310
2MAT'LMOB	Mob Mat'l Fm Staging to Si	3.00	HR	230.000			690		690
2TURNBUCKLE	Turnbuckle@110%	12.00	EA	2.817			37		37
8SMALLTOOLS	Misc Small Tools	1.00	20.00	HR	10.000			200	200
8TPU	PICKUP	1.00	20.00	HR	12.340			247	247
LAB1	Laborer 1: ACPaver, Gen.L	3.00	60.00	MH	28.240	3,378			3,378
\$7,784.19	0.0386 MH/LF	60.00	MH	[ 1.273 ]	3,378	3,960		447	7,784
77.6500	Units/Hr	776.5000	Un/Shift	2.0000	Shifts *	2.17	2.55	0.29	5.01
<hr/>									
Item Totals: 5070 - Safety Rail									
\$7,784.19	0.0386 MH/LF	60.00	MH	[ 1.273 ]	3,378	3,960		447	7,784
5.012	1553 LF				2.17	2.55		0.29	5.01

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
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BID ITEM = 5111  
Description = MSE Wall

Unit = SF Takeoff Quan: 22,306.000 Engr Quan: 22,306.000

**5111A Structure Excavation** Quan: 4,180.00 CY Hrs/Shift: 10.00 Cal: 610 WC: ORI

Drill & shoot costs of \$7.50 per cy for the rock excavation necessary to accomplish structure excavation.

BLANK	A Blank Crew		167.20 CH	Prod: 250.0000 US	Lab Pcs: 1.50		Eqp Pcs: 3.50			
4DRILLNSHOOT	Drill & Shoot Subcontractor	3,500.00	CY	7.500			26,250		26,250	
8E322	322 EXCAVATOR	1.50	250.80 HR	49.680			12,460		12,460	
8HAMMER	Hydraulic Hammer	0.50	83.60 HR	54.480			4,555		4,555	
8RDUMP	RENTED DUMP TRUCK	1.50	250.80 HR	85.000			21,318		21,318	
OE1	Oper. 1: Dozers, Sm Loader	1.50	250.80 MH	36.190	17,144				17,144	
\$81,726.49	0.0600 MH/CY		250.80 MH	[ 2.533 ]	17,144		38,332	26,250	81,726	
25.0000	Units/Hr	250.0000	Un/Shift	*	16.7200	Shifts	4.10	9.17	6.28	19.55

**5111B Form & Pour Levelling Pads** Quan: 1,585.00 LF Hrs/Shift: 10.00 Cal: 610 WC: ORI

BLANK	A Blank Crew		105.66 CH	Prod: 150.0000 US	Lab Pcs: 4.00		Eqp Pcs: 3.00				
2CONCRETE	Ready-Mix Concret@130%	60.00	CY	250.000		19,500			19,500		
3FORMWORK	Lumber for Forms		40.00 EA	100.000		4,000			4,000		
8SMALLTOOLS	Misc Small Tools	3.00	317.00 HR	10.000			3,170		3,170		
LAB1	Laborer 1: ACPaver, Gen.L	4.00	422.67 MH	28.240	23,794				23,794		
\$50,464.41	0.2666 MH/LF		422.67 MH	[ 8.786 ]	23,794	19,500	4,000	3,170	50,464		
15.0009	Units/Hr	150.0095	Un/Shift	*	10.5660	Shifts	15.01	12.30	2.52	2.00	31.84

**5111C Construct Wall** Quan: 22,306.00 SF Hrs/Shift: 10.00 Cal: 610 WC: ORI

There are 16 walls totalling a length of 1,585 feet. Five of the walls are headwall structures for arch plate culverts, the rest are retaining structures on the downhill side of the roadway where the roadway is constructed on a cross-slope.

MSE wall backfill is to be mined from rock cuts encountered throughout the project, mostly in the Zone 1B area. The material will be shot & reduced to a 3"-0" product by the excavation operation. The further hauling, processing, testing, and delivery to the wall sites is incidental to the MSE wall item. The cost of transforming shot rock at the point of excavation to fully tested & processed MSE wall fill delivered to the site of the wall on a per-ton basis is as such:

- 1) Load & haul 2 miles to processing area located at wide embankment at approx. 425+00: \$2/ton
- 2) Process shot rock to achieve specified gradation: \$4/ton
- 3) Load & haul to wall sites: \$2/ton

Assume the cost to produce MSE wall backfill and deliver to wall site is \$8.00/ton.

NOTE: The item called "2MAT'LMOB" is an hourly rate based on the cost of a flatbed truck, an equipment operator, and an excavator or forklift to load misc. material at a staging area, haul to the materials' final point of installation, and unload.

BLANK	A Blank Crew		637.31 CH	Prod: 350.0000 US	Lab Pcs: 8.00		Eqp Pcs: 2.25			
2MAT'LMOB	Mob Mat'l Fm Staging to Si	40.00	HR	230.000		9,200			9,200	
2MSEWALLFILL	MSE Wall Backfill	29,356.00	TN	8.000		234,848			234,848	
2MSEWALLMAT	Precast panels & tiebacks	22,306.00	SF	13.167		293,703			293,703	
8CSD	84" SMOOTH DRUM	0.50	318.66 HR	38.750			12,348		12,348	
8D3	D3	0.75	477.99 HR	20.180			9,646		9,646	
8E320	320 EXCAVATOR	0.75	477.99 HR	44.000			21,032		21,032	
8TWT	WATER TRUCK	0.25	159.33 HR	27.820			4,433		4,433	
LAB1	Laborer 1: ACPaver, Gen.L	5.00	3,186.57 MH	28.240	179,389				179,389	
OE1	Oper. 1: Dozers, Sm Loader	2.00	1,274.63 MH	36.190	87,131				87,131	
OEF	Oper. Foreman	1.00	637.31 MH	40.000	47,113				47,113	
\$898,843.31	0.2285 MH/SF		5,098.51 MH	[ 8.453 ]	313,634	537,751	47,458		898,843	
35.0002	Units/Hr	350.0024	Un/Shift	*	63.7310	Shifts	14.06	24.11	2.13	40.30

**5111D Form & Pour Coping** Quan: 1,585.00 LF Hrs/Shift: 10.00 Cal: 610 WC: ORI

4COPING	CIP Coping		1,585.00 LF	108.000			171,180		171,180
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====> Item Totals:	5111	- MSE Wall								
\$1,202,214.21	0.2587 MH/SF		5,771.98 MH	[ 9.552 ]	354,573	557,251	4,000	88,960	197,430	1,202,214
53.896	22306 SF				15.90	24.98	0.18	3.99	8.85	53.90

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip-ment	Sub-Contract	Total
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BID ITEM = 6020  
Description = Structural Plate Arch 20' Span, 8'3.5" R Unit = LF Takeoff Quan: 50.000 Engr Quan: 50.000

6020A Excavate for Footings		Quan:	2.00 EA	Hrs/Shift:	10.00	Cal:	610	WC:	OR1
BLANK	A Blank Crew	5.00	CH	Prod:	0.5000 S	Lab Pcs:	2.00	Eqp Pcs:	2.00
8E322	322 EXCAVATOR	1.00	5.00 HR	49,680			248		248
8RDUMP	RENTED DUMP TRUCK	1.00	5.00 HR	85,000			425		425
OE1	Oper. 1: Dozers, Sm Loader	1.00	5.00 MH	36,190	342				342
OE3	Oper. 3: GC, Rollers	1.00	5.00 MH	34,700	331				331
\$1,346.18	5.0000 MH/EA		10.00 MH	[ 206.765 ]	673		673		1,346
0.4000	Units/Hr	4.0000	Un/Shift	0.5000	Shifts	*	336.39	336.70	673.09

6020B Form, Pour & Strip Footings		Quan:	2.00 EA	Hrs/Shift:	10.00	Cal:	610	WC:	OR1		
BLANK	A Blank Crew	15.00	CH	Prod:	1.5000 S	Lab Pcs:	3.00	Eqp Pcs:	2.00		
2CONCRETE	Ready-Mix Concrete	39.00	CY	250,000	9,750				9,750		
3MISCMAT	Misc. Small Material	5.00	EA	100,000		500			500		
8SMALLTOOLS	Misc Small Tools	2.00	30.00 HR	10,000			300		300		
LAB2	Laborer 2: Culvert, Conc.	3.00	45.00 MH	29,140	2,592				2,592		
\$13,141.94	22.5000 MH/EA		45.00 MH	[ 764.945 ]	2,592	9,750	500	300	13,142		
0.1333	Units/Hr	1.3333	Un/Shift	1.5000	Shifts	*	1,295.97	4,875.00	250.00	150.00	6,570.97

6020C Install Plate Arch		Quan:	1.00 LS	Hrs/Shift:	10.00	Cal:	610	WC:	OR1	
BLANK	A Blank Crew	30.00	CH	Prod:	3.0000 S	Lab Pcs:	7.00	Eqp Pcs:	5.00	
220X8PLATE	20' Span x 8.3' R Plate Arch	50.00	LF	534,600	26,730				26,730	
2MAT'LMOB	Mob Mat'l Fm Staging to Si	2.00	HR	230,000	460				460	
8E322	322 EXCAVATOR	1.00	30.00 HR	49,680			1,490		1,490	
8SMALLTOOLS	Misc Small Tools	3.00	90.00 HR	10,000			900		900	
8TPU	PICKUP	1.00	30.00 HR	12,340			370		370	
LAB2	Laborer 2: Culvert, Conc.	5.00	150.00 MH	29,140	8,640				8,640	
OE1	Oper. 1: Dozers, Sm Loader	1.00	30.00 MH	36,190	2,051				2,051	
OEF	Oper. Foreman	1.00	30.00 MH	40,000	2,218				2,218	
\$42,858.94	210.0000 MH/LS		210.00 MH	[ 7766.38 ]	12,908	27,190	2,761		42,859	
0.0333	Units/Hr	0.3333	Un/Shift	3.0000	Shifts	*	12,908.34	27,190.00	2,760.60	42,858.94

6020D Backfill Plate Arch		Quan:	1.00 LS	Hrs/Shift:	10.00	Cal:	610	WC:	OR1	
BLANK	A Blank Crew	5.00	CH	Prod:	0.5000 S	Lab Pcs:	2.00	Eqp Pcs:	1.00	
2CONCRETE	Ready-Mix Concrete	60.00	CY	250,000	15,000				15,000	
8SMALLTOOLS	Misc Small Tools	1.00	5.00 HR	10,000			50		50	
LAB2	Laborer 2: Culvert, Conc.	2.00	10.00 MH	29,140	576				576	
\$15,625.99	10.0000 MH/LS		10.00 MH	[ 339.98 ]	576	15,000	50		15,626	
0.2000	Units/Hr	2.0000	Un/Shift	0.5000	Shifts	*	575.99	15,000.00	50.00	15,625.99

6020E Coping		Quan:	60.00 LF	Hrs/Shift:	10.00	Cal:	610	WC:	OR1
BLANK	A Blank Crew	0.00	CH	Prod:	0.0000	Lab Pcs:	0.00	Eqp Pcs:	0.00
4COPING	CIP Coping	60.00	LF	108,000			6,480		6,480

====> Item Totals: 6020 - Structural Plate Arch 20' Span, 8'3.5" R  
 \$79,453.05 5.5000 MH/LF 275.00 MH [ 200.996 ] 16,749 51,940 500 3,784 6,480 79,453  
 1,589.061 50 LF 334.98 1,038.80 10.00 75.68 129.60 1,589.06

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
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BID ITEM = 6022

Description = Structural Plate Arch 35.3' Span, 11.5' Unit = LF Takeoff Quan: 52.000 Engr Quan: 52.000

**6022A Excavate for Footings** Quan: 2.00 EA Hrs/Shift: 10.00 Cal: 610 WC: ORI

BLANK	A Blank Crew		5.00 CH	Prod:	0.5000 S			Lab Pcs: 2.00	Eqp Pcs: 2.00	2.00
8E322	322 EXCAVATOR	1.00	5.00 HR	49.680				248		248
8RDUMP	RENTED DUMP TRUCK	1.00	5.00 HR	85.000				425		425
OE1	Oper. 1: Dozers, Sm Loader	1.00	5.00 MH	36.190	342					342
OE3	Oper. 3: GC, Rollers	1.00	5.00 MH	34.700	331					331
\$1,346.18	5.0000 MH/EA		10.00 MH	[ 206.765 ]	673			673		1,346
0.4000 Units/Hr	4.0000 Un/Shift		0.5000 Shifts *		336.39			336.70		673.09

**6022B Form, Pour & Strip Footings** Quan: 2.00 EA Hrs/Shift: 10.00 Cal: 610 WC: ORI

BLANK	A Blank Crew		15.00 CH	Prod:	1.5000 S			Lab Pcs: 3.00	Eqp Pcs: 2.00	2.00
2CONCRETE	Ready-Mix Concrete		39.00 CY	250.000		9,750				9,750
3MISCMAT	Misc. Small Material		5.00 EA	100.000			500			500
8SMALLTOOLS	Misc Small Tools	2.00	30.00 HR	10.000				300		300
LAB2	Laborer 2: Culvert, Conc.	3.00	45.00 MH	29.140	2,592					2,592
\$13,141.94	22.5000 MH/EA		45.00 MH	[ 764.945 ]	2,592	9,750		500	300	13,142
0.1333 Units/Hr	1.3333 Un/Shift		1.5000 Shifts *		1,295.97	4,875.00		250.00	150.00	6,570.97

**6022C Install Plate Arch** Quan: 1.00 LS Hrs/Shift: 10.00 Cal: 610 WC: ORI

BLANK	A Blank Crew		50.00 CH	Prod:	5.0000 S			Lab Pcs: 7.00	Eqp Pcs: 4.00	4.00
235X12PLATE	35' Span x 11.5' R Arch Pip		52.00 LF	1,512.000		78,624				78,624
8E322	322 EXCAVATOR	1.00	50.00 HR	49.680				2,484		2,484
8SMALLTOOLS	Misc Small Tools	2.00	100.00 HR	10.000				1,000		1,000
8TPU	PICKUP	1.00	50.00 HR	12.340				617		617
LAB2	Laborer 2: Culvert, Conc.	5.00	250.00 MH	29.140	14,400					14,400
OE1	Oper. 1: Dozers, Sm Loader	1.00	50.00 MH	36.190	3,418					3,418
OEF	Oper. Foreman	1.00	50.00 MH	40.000	3,696					3,696
\$104,238.88	350.0000 MH/LS		350.00 MH	[ 12943.95 ]	21,514	78,624		4,101		104,239
0.0200 Units/Hr	0.2000 Un/Shift		5.0000 Shifts *		21,513.88	78,624.00		4,101.00		104,238.88

**6022D Backfill Plate Arch** Quan: 1.00 LS Hrs/Shift: 10.00 Cal: 610 WC: ORI

BLANK	A Blank Crew		10.00 CH	Prod:	1.0000 S			Lab Pcs: 2.00	Eqp Pcs: 1.00	1.00
2CONCRETE	Ready-Mix Concrete		60.00 CY	250.000		15,000				15,000
8SMALLTOOLS	Misc Small Tools	1.00	10.00 HR	10.000				100		100
LAB2	Laborer 2: Culvert, Conc.	2.00	20.00 MH	29.140	1,152					1,152
\$16,251.98	20.0000 MH/LS		20.00 MH	[ 679.95 ]	1,152	15,000		100		16,252
0.1000 Units/Hr	1.0000 Un/Shift		1.0000 Shifts *		1,151.98	15,000.00		100.00		16,251.98

**6022E Coping** Quan: 60.00 LF Hrs/Shift: 10.00 Cal: 610 WC: ORI

BLANK	A Blank Crew		0.00 CH	Prod:	0.0000			Lab Pcs: 0.00	Eqp Pcs: 0.00	0.00
4COPING	CIP Coping		90.00 LF	108.000					9,720	9,720

====> Item Totals: 6022 - Structural Plate Arch 35.3' Span, 11.5'

\$144,698.98	8.1730 MH/LF		425.00 MH	[ 299.372 ]	25,931	103,374		500	5,174	9,720	144,699
2,782.673	52 LF				498.67	1,987.96		9.62	99.51	186.92	2,782.67

DIRECT COST REPORT

Activity	Desc	Quantity	Unit	Unit	Perm	Constr	Equip	Sub-	Total
Resource		Pcs	Unit	Cost	Labor	Material	Matl/Exp	Ment	Contract

BID ITEM = 6030

Description = 24" Pipe Unit = LF Takeoff Quan: 10,877.000 Engr Quan: 10,877.000

24" culvert consists of 37 culvert extensions with an average length of 33', and 147 new culverts with an average length of 69'.

Pipe backfill material is mined from rock excavation. The cost to transform shot rock at location of excavation to pipe backfill and haul to culvert locations is as such:

- 1) Material processing \$4/tn
  - 2) Load & Haul to Site \$2/tn
- Total cost: \$6.00/ton

6030A 24" Pipe											
Quant: 10,877.00 LF Hrs/Shift: 10.00 Cal: 610 WC: ORI											
BLANK	A Blank Crew		395.52	CH	Prod:	275.0000	US	Lab Pcs:	4.00	Eqp Pcs:	3.00
224"BANDS	24" Culvert Bands	540.00	EA			27.900					15,066
224"CULVERT	24" CMP Culvert@105%	10,877.00	LF			15.660		178,851			178,851
2MAT'LMOB	Mob Mat'l Fm Staging to Si	34.00	HR			230.000		7,820			7,820
2PIPEBF	Pipe Backfill	12,600.00	TN			6.000		75,600			75,600
8E322	322 EXCAVATOR	1.00	395.53	HR		49.680			19,650		19,650
8L950	950 LOADER	1.00	395.53	HR		37.780			14,943		14,943
8SMALLTOOLS	Misc Small Tools	1.00	395.53	HR		10.000			3,955		3,955
LAB2	Laborer 2: Culvert, Conc.	2.00	791.05	MH		29.140	45,564				45,564
OEI	Oper. 1: Dozers, Sm Loader	2.00	791.05	MH		36.190	54,075				54,075
\$415,523.08	0.1454 MH/LF		1,582.10	MH	[ 5.543 ]	99,638	277,337		38,548		415,523
27.5005	Units/Hr	275.0051	Un/Shift	*	39.5520	Shifts		9.16	25.50	3.54	38.20
=====> Item Totals: 6030 - 24" Pipe											
\$415,523.08	0.1454 MH/LF		1,582.10	MH	[ 5.543 ]	99,638	277,337		38,548		415,523
38.202	10877 LF					9.16	25.50		3.54		38.20



DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
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BID ITEM = 6032

Description = 36" Pipe

Unit = LF Takeoff Quan: 7,312.000 Engr Quan: 7,312.000

36" culvert consists of one 36' extension & 89 new culverts of an average length of 83'

6032A 36" Pipe		Quan: 7,312.00 LF	Hrs/Shift: 10.00	Cal: 610	WC: OR1	
BLANK	A Blank Crew	265.89	CH	Prod: 275.0000	US Lab Pcs: 4.00	Eqp Pcs: 3.00
236" BANDS	36" Bands	360.00	EA	57.600	20,736	20,736
236" CULVERT	36" Culvert@105%	7,312.00	LF	24.840	190,712	190,712
2MATLMOB	Mob Mat'l Fm Staging to Si	46.00	HR	230.000	10,580	10,580
2PIPEBF	Pipe Backfill	11,500.00	TN	6.000	69,000	69,000
8E322	322 EXCAVATOR	1.00	265.89	HR	49.680	13,209
8L950	950 LOADER	1.00	265.89	HR	37.780	10,045
8SMALLTOOLS	Misc Small Tools	1.00	265.89	HR	10.000	2,659
LAB2	Laborer 2: Culvert, Conc.	2.00	531.78	MH	29.140	30,630
OE1	Oper. 1: Dozers, Sm Loader	2.00	531.78	MH	36.190	36,351
\$383,922.56	0.1454 MH/LF	1,063.56	MH	[ 5.543 ]	66,981	291,028
27.5001	Units/Hr	275.0009	Un/Shift	*	26.5890	Shifts
					9.16	39.80
						3.54
						52.51
====> Item Totals: 6032 - 36" Pipe						
\$383,922.56	0.1454 MH/LF	1,063.56	MH	[ 5.543 ]	66,981	291,028
52.506	7312 LF				9.16	39.80
						3.54
						52.51

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 6033</b>										
Description = 48" Pipe Unit = LF Takeoff Quan: 1,434.000 Engr Quan: 1,434.000										
48" culvert consists of 2 extensions at an average length of 36' and 14 new culverts at an average length of 102'.										
<b>6033A 48" Pipe</b>										
Quan: 1,434.00 LF Hrs/Shift: 10.00 Cal: 610 WC: ORI										
BLANK	A Blank Crew		81.94 CH	Prod: 70.200	175.0000 US		Lab Pcs: 4.00	Eqp Pcs: 3.00		3.00
248"BANDS	48" Culvert Bands	70.00	EA	70.200		4,914				4,914
248"CULVERT	48" CMP Culvert@105%	1,434.00	LF	31.680		47,701				47,701
2MATLMOB	Mob Mat'l Fm Staging to Si	27.00	HR	230.000		6,210				6,210
2PIPEBF	Pipe Backfill	2,900.00	TN	6.000		17,400				17,400
8E322	322 EXCAVATOR	1.00	81.94 HR	49.680				4,071		4,071
8L950	950 LOADER	1.00	81.94 HR	37.780				3,096		3,096
8SMALLTOOLS	Misc Small Tools	1.00	81.94 HR	10.000				819		819
LAB2	Laborer 2: Culvert, Conc.	2.00	163.89 MH	29.140	9,440					9,440
OEI	Oper. 1: Dozers, Sm Loader	2.00	163.89 MH	36.190	11,203					11,203
\$104,853.53	0.2285 MH/LF		327.78 MH	[ 8.711 ]	20,643	76,225		7,986		104,854
17.5006 Units/Hr	175.0061 Un/Shift	*	8.1940 Shifts		14.40	53.16		5.57		73.12
<hr/>										
Item Totals:	6033 - 48" Pipe									
\$104,853.53	0.2285 MH/LF		327.78 MH	[ 8.711 ]	20,643	76,225		7,986		104,854
73.120	1434 LF				14.40	53.16		5.57		73.12

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Contract	Total
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BID ITEM = 6034

Description = 60" Pipe

Unit = LF Takeoff Quan: 664.000 Engr Quan: 664.000

60" culvert consists of 8 new culverts at an average length of 89'. Work also includes construction of 6 headwalls.

6034A 60" Pipe		Quan: 664.00	LF	Hrs/Shift: 10.00	Cal: 610	WC: ORI				
BLANK	A Blank Crew	37.94	CH	Prod: 175.0000	US	Lab Pcs: 4.00	Eqp Pcs: 3.00		3.00	
260" BANDS	60" Bands	30.00	EA	124.200		3,726			3,726	
260" CULVERT	60" Culvert@105%	664.00	LF	62.820		43,798			43,798	
2MATLMOB	Mob Mat'l Fm Staging to Si	12.00	HR	230.000		2,760			2,760	
2PIPEBF	Pipe Backfill	1,650.00	TN	6.000		9,900			9,900	
8E322	322 EXCAVATOR	1.00	37.94 HR	49.680			1,885		1,885	
8L950	950 LOADER	1.00	37.94 HR	37.780			1,433		1,433	
8SMALLTOOLS	Misc Small Tools	1.00	37.94 HR	10.000			379		379	
LAB2	Laborer 2: Culvert, Conc.	2.00	75.89 MH	29.140	4,371				4,371	
OE1	Oper. 1: Dozers, Sm Loader	2.00	75.89 MH	36.190	5,188				5,188	
\$73,440.60	0.2285 MH/LF	151.78	MH	[ 8.711 ]	9,559	60,184	3,698		73,441	
17.5013	Units/Hr	175.0132	Un/Shift	*	3.7940	Shifts	14.40	90.64	5.57	110.60

6034B Form & Pour Headwalls		Quan: 6.00	EA	Hrs/Shift: 10.00	Cal: 610	WC: ORI					
BLANK	A Blank Crew	60.00	CH	Prod: 6.0000	S	Lab Pcs: 3.00	Eqp Pcs: 2.00		2.00		
2CONCRETE	Ready-Mix Concrete	20.00	CY	250.000		5,000			5,000		
3MISCMAT	Misc. Small Material	10.00	EA	100.000		1,000			1,000		
8SMALLTOOLS	Misc Small Tools	2.00	120.00 HR	10.000			1,200		1,200		
LAB1	Laborer 1: ACPaver, Gen.L	3.00	180.00 MH	28.240	10,133				10,133		
\$17,333.18	30.0000 MH/EA	180.00	MH	[ 988.428 ]	10,133	5,000	1,000	1,200	17,333		
0.1000	Units/Hr	1.0000	Un/Shift	*	6.0000	Shifts	1,688.86	833.33	166.67	200.00	2,888.86

====> Item Totals: 6034 - 60" Pipe										
\$90,773.78	0.4996 MH/LF	331.78	MH	[ 17.643 ]	19,692	65,184	1,000	4,898		90,774
136.708	664 LF				29.66	98.17	1.51	7.38		136.71

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Ment Contract	Total
<b>BID ITEM = 6035</b>									
Description = 72" Pipe Unit = LF Takeoff Quan: 504.000 Engr Quan: 504.000									
72" culvert consists of one extension of 50', and 6 new culverts at an average length of 78'. Also included is construction of 6 headwalls.									
<b>6035A 72" Pipe</b> Quan: 504.00 LF Hrs/Shift: 10.00 Cal: 610 WC: ORI									
BLANK	A Blank Crew		35.00 CH	Prod: 157.530	3,500 S		Lab Pcs: 6.00	Eqp Pcs: 4.00	4.00
272"BANDS	72" Culvert Bands	25.00 EA		157.530		3,938			3,938
272"CULVERT	72" Culvert@105%	504.00 LF		86.670		45,866			45,866
2MAT'LMOB	Mob Mat'l Fm Staging to Si	12.00 HR		230.000		2,760			2,760
2PIPEBF	Pipe Backfill	1,500.00 TN		6.000		9,000			9,000
8E330	330 Excavator	1.00 35.00 HR		73.850			2,585		2,585
8L950	950 LOADER	1.00 35.00 HR		37.780			1,322		1,322
8SMALLTOOLS	Misc Small Tools	2.00 70.00 HR		10.000			700		700
LAB2	Laborer 2: Culvert, Conc.	4.00 140.00 MH		29.140	8,064				8,064
OE1	Oper. 1: Dozers, Sm Loader	2.00 70.00 MH		36.190	4,785				4,785
\$79,019.95	0.4166 MH/LF	210.00 MH		[ 15.308 ]	12,849	61,564	4,607		79,020
14.4000 Units/Hr	144.0000 Un/Shift	3.5000 Shifts	*		25.49	122.15	9.14		156.79
<b>6035B Form &amp; Pour Headwalls</b> Quan: 6.00 EA Hrs/Shift: 10.00 Cal: 610 WC: ORI									
BLANK	A Blank Crew		60.00 CH	Prod: 250.000	6,000 S		Lab Pcs: 3.00	Eqp Pcs: 2.00	2.00
2CONCRETE	Ready-Mix Concrete	22.00 CY		250.000		5,500			5,500
3MISCMAT	Misc. Small Material	10.00 EA		100.000			1,000		1,000
8SMALLTOOLS	Misc Small Tools	2.00 120.00 HR		10.000			1,200		1,200
LAB1	Laborer 1: ACPaver, Gen.L	3.00 180.00 MH		28.240	10,133				10,133
\$17,833.18	30.0000 MH/EA	180.00 MH		[ 988.428 ]	10,133	5,500	1,000	1,200	17,833
0.1000 Units/Hr	1.0000 Un/Shift	6.0000 Shifts	*		1,688.86	916.67	166.67	200.00	2,972.20
====>	<b>Item Totals: 6035 - 72" Pipe</b>								
\$96,853.13	0.7738 MH/LF	390.00 MH		[ 27.075 ]	22,982	67,064	1,000	5,807	96,853
192.169	504 LF				45.60	133.06	1.98	11.52	192.17

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Ment Contract	Total
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BID ITEM = 6036

Description = 144" Pipe Unit = LF Takeoff Quan: 120.000 Engr Quan: 120.000

144" culvert is one 120' length and includes 2 headwalls.

6036 144" Pipe		Quan:	120.00 LF	Hrs/Shift:	10.00	Cal:	610	WC:	OR1
BLANK	A Blank Crew	10.00	CH	Prod:	1.0000 S	Lab Pcs:	6.00	Eqp Pcs:	5.00
2144"BANDS	144" Culvert Bands	6.00	EA						2,905
2144"CULVERT	144" Culvert@105%	120.00	LF						36,175
2PIPEBF	Pipe Backfill	360.00	TN						2,160
8E345	345 EXCAVATOR	1.00	10.00 HR					950	950
8L950	950 LOADER	1.00	10.00 HR					378	378
8SMALLTOOLS	Misc Small Tools	3.00	30.00 HR					300	300
LAB2	Laborer 2: Culvert, Conc.	4.00	40.00 MH		2,304				2,304
OE1	Oper. 1: Dozers, Sm Loader	1.00	10.00 MH		684				684
OE2	Oper. 2: Skidder, Plant	1.00	10.00 MH		672				672
\$46,527.58	0.5000 MH/LF	60.00	MH	[ 18.295 ]	3,660	41,240		1,628	46,528
12.0000 Units/Hr	120.0000 Un/Shift	1.0000	Shifts *		30.50	343.67		13.57	387.73

6036B Form & Pour Headwalls		Quan:	2.00 EA	Hrs/Shift:	10.00	Cal:	610	WC:	OR1
BLANK	A Blank Crew	30.00	CH	Prod:	3.0000 S	Lab Pcs:	3.00	Eqp Pcs:	2.00
2CONCRETE	Ready-Mix Concrete	14.00	CY			3,500			3,500
3MISC MAT	Misc. Small Material	6.00	EA				600		600
8SMALLTOOLS	Misc Small Tools	2.00	60.00 HR					600	600
LAB1	Laborer 1: ACPaver, Gen.L	3.00	90.00 MH		5,067				5,067
\$9,766.58	45.0000 MH/EA	90.00	MH	[ 1482.64 ]	5,067	3,500	600	600	9,767
0.0667 Units/Hr	0.6667 Un/Shift	3.0000	Shifts *		2,533.29	1,750.00	300.00	300.00	4,883.29

Item Totals:		6036 - 144" Pipe							
\$56,294.16	1.2500 MH/LF	150.00	MH	[ 43.006 ]	8,727	44,740	600	2,228	56,294
469.118	120 LF				72.72	372.83	5.00	18.57	469.12

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Juneau-Lynn Canal Highway Zones 1-3

Page 32  
 05/15/2009 15:56

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total
<b>BID ITEM = 6060</b>										
Description =	W-Beam Guardrail		Unit = LF		Takeoff Quan:	4,400.000		Engr Quan:	4,400.000	
6060A	W-Beam Guardrail		Quan: 4,400.00 LF		Hrs/Shift: 10.00	Cal: 610	WC: OR1			
\$20 / lf is going rate for guardrail in Portland. We added 25% to account for higher labor & mobilization costs.										
4GR	Guard Rail - Sub		4,400.00 LF	25.000				110,000		110,000

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 6062</b>										
Description =	Extruder Terminal (ET-2000)		Unit =	EA	Takeoff Quan:		36.000	Engr Quan:		36.000
6062A	Extruder Terminal (ET-2000)		Quan:	36.00 EA	Hrs/Shift:	10.00	Cal:	610	YC:	ORI
We typically see ET-2000's for about \$2000 - \$2500.										
4GR	Guard Rail - Sub		36.00 EA						81,000	81,000

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
<b>BID ITEM = 6100</b>									
Description =	Ditch Lining		Unit =	STA	Takeoff Quan:	25.000	Engr Quan:	25.000	
<b>6100A Ditch Lining</b>									
Rock for ditch lining will be delivered by trucks hauling rock excavation as part of excavation item. This item to pay for placing and finishing rock in ditch.									
<b>BLANK</b> A Blank Crew 62.50 CH Prod: 4.0000 US Lab Pcs: 3.00 Eq Pcs: 2.50									
8E320	320 EXCAVATOR	2.00	125.00 HR	44.000			5,500		5,500
8L950	950 LOADER	0.50	31.25 HR	37.780			1,181		1,181
LAB1	Laborer 1: ACPaver, Gen.L	0.50	31.25 MH	28.240	1,759				1,759
OE1	Oper. 1: Dozers, Sm Loader	2.50	156.25 MH	36.190	10,681				10,681
\$19,120.81		7.5000 MH/STA	187.50 MH	[ 305.077 ]	12,440		6,681		19,121
0.4000 Units/Hr		4.0000 Un/Shift *	6.2500 Shifts		497.61		267.22		764.83
<b>====&gt; Item Totals: 6100 - Ditch Lining</b>									
\$19,120.81		7.5000 MH/STA	187.50 MH	[ 305.077 ]	12,440		6,681		19,121
764.832		25 STA			497.61		267.22		764.83



DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
<b>BID ITEM = 6113</b>										
Description = Riprap Slope Stabilization				Unit = SY		Takeoff Quan: 3,222.000		Engr Quan: 3,222.000		
<b>6113A Riprap Slope Stabilization</b>										
<b>Item includes placement of riprap only. Assume riprap will be generated through rock excavation item and dumped as needed as part of excavation.</b>										
<b>BLANK A Blank Crew 32.22 CH Prod: 100.0000 UH Lab Pcs: 2.00 Eqp Pcs: 1.00</b>										
8E322	322 EXCAVATOR	1.00	32.22	HR	49.680			1,601		1,601
LAB1	Laborer 1: ACPaver, Gen.L	1.00	32.22	MH	28.240	1,814				1,814
OE1	Oper. 1: Dozers, Sm Loader	1.00	32.22	MH	36.190	2,203				2,203
\$5,617.03	0.0200 MH/SY		64.44	MH	[ 0.752 ]	4,016		1,601		5,617
100.0000	Units/Hr * 1,000.0000		Un/Shift	3.2220	Shifts	1.25		0.50		1.74
<b>====&gt; Item Totals: 6113 - Riprap Slope Stabilization</b>										
\$5,617.03	0.0200 MH/SY		64.44	MH	[ 0.752 ]	4,016		1,601		5,617
1.743	3222 SY					1.25		0.50		1.74

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Juncau-Lynn Canal Highway Zones 1-3

Page 36  
05/15/2009 15:56

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 6150</b>										
Description = Standard Sign				Unit = SF	Takeoff Quan:	1,872.000		Engr Quan:	1,872.000	
<b>6150</b>	<b>Standard Sign</b>			<b>Quan:</b>	<b>1,872.00 SF</b>	<b>Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610</b>	<b>WC: ORI</b>
2SIGNS	Standard Signs - Plug		1,872.00 SF	20.000		37,440				37,440
<hr/>										
====>	Item Totals:	6150	- Standard Sign							
	\$37,440.00			[ ]		37,440				37,440
	20.000		1872 SF			20.00				20.00

DIRECT COST REPORT

Activity	Desc	Quantity	Unit	Unit	Perm	Constr	Equip	Sub-	Total
Resource		Pcs		Cost	Labor	Material	Mat/Exp	Ment	Contract

BID ITEM = 6180

Description = Seeding Unit = ACRE Takeoff Quan: 94.000 Engr Quan: 94.000

Hydroseeding costs based on pricing received from Fox Erosion Control. Fox has experience in large-scale hydroseeding projects including the Eddyville project currently underway by Granite Construction.

6180A	Seeding	Quantity	Unit	Unit	Cost	Perm	Constr	Equip	Sub-	Total
4LAND	Landscape - Sub	94.00	ACRE		4,600.000					432,400 432,400
4LANDMOB	Landscape Mob	1.00	LS		7,500.000					7,500 7,500
\$439,900.00					[ ]					439,900 439,900
										4,679.79 4,679.79
====> Item Totals:		6180	- Seeding							439,900 439,900
\$439,900.00					[ ]					439,900 439,900
4,679.787		94	ACRE							4,679.79 4,679.79

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 6192</b>										
Description = Matting				Unit = SY	Takeoff Quan: 59,000.000			Engr Quan: 59,000.000		
<b>6192A</b>	<b>Install Matting</b>				<b>Quan: 59,000.00 SY</b>		<b>Hrs/Shift: 10.00</b>	<b>Cal: 610</b>	<b>WC: ORI</b>	
BLANK	A Blank Crew		98.33 CH	Prod:	600.0000 UH		Lab Pcs: 3.00	Eqp Pcs: 1.00		
2MATTING	Matting, Jute@105%	59,000.00	SY	0.530		32,834				32,834
8TPU	PICKUP	1.00	98.33 HR	12.340				1,213		1,213
LAB1	Laborer 1: ACPaver, Gen.L	3.00	295.00 MH	28.240	16,607					16,607
\$50,654.03	0.0050 MH/SY		295.00 MH	[ 0.165 ]	16,607	32,834		1,213		50,654
600.0203	Units/Hr * 6,000.2034 Un/Shift		9.8330 Shifts		0.28	0.56		0.02		0.86
<hr/>										
====>	Item Totals:	6192	- Matting							
\$50,654.03	0.0050 MH/SY		295.00 MH	[ 0.165 ]	16,607	32,834		1,213		50,654
0.859	59000 SY				0.28	0.56		0.02		0.86

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Ment Contract	Total
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BID ITEM = 6301

Description = Separation Geotextile Unit = SY Takeoff Quan: 130,000.000 Engr Quan: 130,000.000

6301A Separation Geotextile Quan: 130,000.00 SY Hrs/Shift: 10.00 Cal: 610 W/C: OR!

Per specs 3' overlap needed, 20% waste.

BLANK	A Blank Crew	65.00	CH	Prod: 2,000.0000	UH	Lab Pcs: 2.00	Eqp Pcs: 1.00		
2SEPGEO	Separation Geotex@120%	130,000.00	SY	0.585		91,260			91,260
8TPU	PICKUP	1.00	65.00 HR	12.340			802		802
LAB1	Laborer 1: ACPaver, Gen.L	2.00	130.00 MH	28.240	7,318				7,318
\$99,380.51	0.0010 MH/SY		130.00 MH	[ 0.033 ]	7,318	91,260		802	99,381
2,000.0000	Units/Hr * 20,000.0000 Un/Shift		6.5000 Shifts		0.06	0.70		0.01	0.76

====>	Item Totals:	6301	- Separation Geotextile						
\$99,380.51	0.0010 MH/SY		130.00 MH	[ 0.033 ]	7,318	91,260		802	99,381
0.764		130000 SY			0.06	0.70		0.01	0.76

DIRECT COST REPORT

Activity	Desc	Quantity	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Ment Contract	Total
<b>BID ITEM = 6312</b>									
Description = Erosion Control Geotextile, Class 1			Unit = SY		Takeoff Quan: 3,740.000		Engr Quan: 3,740.000		
<b>6310A</b>	<b>Erosion Control Geotextile, Class 1</b>				<b>Quan: 3,740.00 SY</b>		<b>Hrs/Shift: 10.00</b>	<b>Cal: 610</b>	<b>WC: ORI</b>
BLANK	A Blank Crew		7.48 CH	Prod: 0.860	500.0000 UH		Lab Pcs: 2.00	Eqp Pcs: 0.00	
2ECGEOTP1	Erosion Control G@120%	3,740.00 SY			3,860				3,860
LAB1	Laborer 1: ACPaver, Gen.L 2.00	14.96 MH		28.240	842				842
\$4,701.86	0.0040 MH/SY	14.96 MH		[ 0.132 ]	842	3,860			4,702
500.0000	Units/Hr * 5,000.0000 Un/Shift	0.7480 Shifts			0.23	1.03			1.26
<hr/>									
<b>Item Totals: 6312 - Erosion Control Geotextile, Class 1</b>									
\$4,701.86	0.0040 MH/SY	14.96 MH		[ 0.132 ]	842	3,860			4,702
1.257	3740 SY				0.23	1.03			1.26

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Mat/Exp	Equip Ment	Sub-Contract	Total
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BID ITEM = 6331  
Description = Silt Fence Unit = LF Takeoff Quan: 57,000.000 Engr Quan: 57,000.000

6331	Silt Fence	57,000.00	LF	2.250			128,250			128,250
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Item Totals:		6331	- Silt Fence				128,250			128,250
\$128,250.00				[ ]			128,250			128,250
2.250		57000	LF				2.25			2.25

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub-Ment Contract	Total
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BID ITEM = 6371  
 Description = Reinforced Soil Slope Unit = SF Takeoff Quan: 500.000 Engr Quan: 500.000  
 Burrito wrap w/ WWF facing

6371A	Install RSS	Quan: 500.00 SF	Hrs/Shift: 10.00	Cal: 610	WG: OR1
BLANK	A Blank Crew	20.00 CH	Prod: 2.0000 S	Lab Pcs: 4.50	Eqp Pcs: 3.50
2AB	Aggregate Base, Delivered	500.00 TN	7.000	3,500	3,500
2RSSMATERIAL	Reinforced Soil Slope Mat'l	500.00 SF	6.000	3,000	3,000
3MISCMAT	Misc. Small Material	2.00 EA	100.000	200	200
8E320	320 EXCAVATOR	0.50 10.00 HR	44.000		440
8L950	950 LOADER	1.00 20.00 HR	37.780		756
8SMALLTOOLS	Misc Small Tools	2.00 40.00 HR	10.000		400
LAB1	Laborer 1: ACPaver, Gen.L	3.00 60.00 MH	28.240	3,378	3,378
OE1	Oper. 1: Dozers, Sm Loader	1.50 30.00 MH	36.190	2,051	2,051
\$13,724.08	0.1800 MH/SF	90.00 MH	[ 6.487 ]	5,428 6,500	200 1,596
25.0000 Units/Hr	250.0000 Un/Shift	2.0000 Shifts *		10.86 13.00	0.40 3.19
====> Item Totals:	6371 - Reinforced Soil Slope				
\$13,724.08	0.1800 MH/SF	90.00 MH	[ 6.487 ]	5,428 6,500	200 1,596
27.448	500 SF			10.86 13.00	0.40 3.19



DIRECT COST REPORT

Activity Resource	Desc	Quantity	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
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**BID ITEM = 6411**

Description = Erosion And Pollution Control Administra Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000

6411A	Erosion And Pollution Control Administra	Quan:	42.00 MO	Hrs/Shift:	10.00	Cal:	610	WC:	OR1	
<u>BLANK</u>	A Blank Crew	10,500.00	CH	Prod:	25.0000	SU	Lab Pcs:	1.00	Eqp Pcs:	1.00
8TPU	PICKUP	1.00	10,500.00 HR		12.340			129,570		129,570
LAB1	Laborer 1: ACPaver, Gen.L	1.00	10,500.00 MH		28.240	591,102				591,102
\$720,672.13	250.0000 MH/MO	10,500.00	MH	[ 8236.902 ]	591,102			129,570		720,672
0.0040	Units/Hr	0.0400	Un/Shift	1,050.0000	Shifts	14,073.86		3,085.00		17,158.86

====> Item Totals:	6411	- Erosion And Pollution Control Administra								
\$720,672.13	10,500.0000	MH/LS	10,500.00	MH	[ 345949.88 ]	591,102		129,570		720,672
720,672.130		1 LS				591,102.13		129,570.00		720,672.13

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Juncau-Lynn Canal Highway Zones 1-3

DIRECT COST REPORT

Page 44  
05/15/2009 15:56

Activity	Desc	Quantity	Unit	Unit	Perm	Constr	Equip	Sub-	Total
Resource		Pcs		Cost	Labor	Material	Mat/Exp	Contract	
<b>BID ITEM = 6412</b>									
Description =	Temporary Erosion & Pollution Control		Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	1.000	
<b>6412A</b>	<b>Temporary Erosion &amp; Pollution Control</b>		<b>Quan:</b>	<b>1.00 LS</b>	<b>Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610</b>	<b>WC: ORI</b>
3CONTINGENT	Contingent Sum	529,410.00	LS	1.000		529,410			529,410
<hr/>									
====>	<b>Item Totals:</b>	<b>6412</b>	<b>- Temporary Erosion &amp; Pollution Control</b>						
	\$529,410.00			[ ]		529,410			529,410
	529,410.000		1 LS			529,410.00			529,410.00

DIRECT COST REPORT

Activity Resource	Desc	Qty	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
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**BID ITEM = 6415**  
 Description = Preliminary Seeding Unit = ACRE Takeoff Quan: 47.000 Engr Quan: 47.000

**6415A Preliminary Seeding**      **Quan: 47.00 ACR Hrs/Shift: 10.00 Cal: 610 WC: ORI**

Preliminary seeding requires no BFM. Mob is just to get truck to Seattle port and men to the job. We take it from there.

4SEED	Seed, Fert & Mulch	47.00	ACRE	2,500.000				117,500	117,500
4SEEDMOB	Hydroseeder Mobilization	1.00	LS	7,500.000				7,500	7,500
\$125,000.00				[ ]				125,000	125,000
								2,659.57	2,659.57

====> **Item Totals: 6415 - Preliminary Seeding**

\$125,000.00				[ ]				125,000	125,000
2,659.574		47	ACRE					2,659.57	2,659.57

DIRECT COST REPORT

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 6416</b>										
Description =		Temporary Rock Check Dam		Unit =	EA	Takeoff Quan:	540.000	Engr Quan:	540.000	
<b>6416A</b>	<b>Temporary Rock Check Dam</b>		<b>Quan:</b>	<b>540.00 EA</b>	<b>Hrs/Shift:</b>	<b>10.00</b>	<b>Cal:</b>	<b>610</b>	<b>WC:</b>	<b>ORI</b>
3CHECKDAMS	Check Dams, Each	540.00	EA	50.000			27,000			27,000
<hr/>										
====>	Item Totals:	6416	- Temporary Rock Check Dam		[ ]		27,000			27,000
	\$27,000.00						27,000			27,000
	50.000	540 EA					50.00			50.00

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Matl/Exp	Equip Mnt	Sub-Contract	Total
<b>BID ITEM = 6418</b>									
Description = Settling Pool			Unit = EA		Takeoff Quan: 8.000		Engr Quan: 8.000		
<b>6418A</b>	<b>Settling Pool</b>		<b>Quan: 8.00 EA</b>		<b>Hrs/Shift: 10.00</b>	<b>Cal: 610</b>	<b>WC: OR1</b>		
BLANK	A Blank Crew		15.00 CH	Prod: 1.5000 S		Lab Pcs: 2.00	Eqp Pcs: 2.00		2.00
2RIPRAP	Riprap Delivered to Site	160.00 TN		4.000		640			640
8E322	322 EXCAVATOR	1.00 15.00 HR		49.680			745		745
8RDUMP	RENTED DUMP TRUCK	1.00 15.00 HR		85.000			1,275		1,275
LAB1	Laborer 1: ACPaver, Gen.L	1.00 15.00 MH		28.240	844				844
OE1	Oper. 1: Dozers, Sm Loader	1.00 15.00 MH		36.190	1,025				1,025
\$4,530.00		3.7500 MH/EA	30.00 MH	[ 140.944 ]	1,870	640	2,020		4,530
0.5333	Units/Hr	5.3333 Un/Shift	1.5000 Shifts *		233.73	80.00	252.53		566.25
<hr/>									
====>	<b>Item Totals:</b>	<b>6418</b>	<b>- Settling Pool</b>						
\$4,530.00		3.7500 MH/EA	30.00 MH	[ 140.944 ]	1,870	640	2,020		4,530
566.250		8 EA			233.73	80.00	252.53		566.25

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Page 48  
05/15/2009 15:56

DIRECT COST REPORT

Activity Resource	Desc	Quantity Pcs	Unit Unit	Unit Cost	Perm Labor	Constr Material	Equip Mat/Exp	Sub- Ment	Contract	Total
\$32,967,006.25	*** Report Totals ***	119,623.21	MH		7,695,674	4,380,524	2,632,592	7,766,113	10,492,103	32,967,006

>>> indicates Non Additive Activity

-----Report Notes:-----

The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

Bid Date: 03/20/09 Owner: Engineering Firm:  
Estimator-In-Charge: ASOK

JOB NOTES

Estimate created on: 03/05/2009 by User#: 0 -

Source used: C:\DOCUMENTS AND SETTINGS\SDUNN\MY DOCUMENTS\PROJECT FILES\JUNEAU-LYNN CANAL HIGHWAY\HCSS

ESTIMATE\S9871.zip (a backup) from 02/27/2009 4:22:03 PM

\* on units of MH indicate average labor unit cost was used rather than base rate.

[ ] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens

In equipment resources, rent % and EOE % not = 100% are represented as XXX%YYY where XXX=Rent% and YYY=EOE%

-----Calendar Codes-----

Calendars are found in crew and labor codes and have the format XXXdY where

XXX = The Calendar and Y = The Starting Day of the Week with Day 1 = Monday, etc.

- 410 (4) 10 hr Shifts/Week
- 510 (5) 10hr Shifts/Week
- 5X8 (5) 8hr Days/Week
- 610 (6) 10hr Shifts/Week

# BRIDGE COSTS





JAI - Zones 1, 2, and 3  
 Bridge Summary Sheet  
 Direct Costs

6/5/2009

Item Number	Item Description	Pay Unit	Quantity	Unif. COST	TOTAL COST
205 (3)	Foundation Fill	Cubic Yard	7,951	\$39.34	\$312,786.46
	Antler River Work Bridges and Temp Road			\$797,399.23	\$797,399.23
	Lace River Traveling Work Bridge			\$3,723,045.38	\$3,723,045.38
501 (1)	Class A Concrete	Lump Sum	All Required	\$5,655,940.85	\$5,655,940.85
501 (2)	Class A-A Concrete	Lump Sum	All Required	\$925,300.87	\$925,300.87
501 (7A)	Precast Concrete Member (128' Decked Bulb Tee)	Each	18	\$68,570.12	\$1,234,262.10
501 (7B)	Precast Concrete Member (143' Decked Bulb Tee)	Each	228	\$71,219.13	\$16,237,962.24
501 (7C)	Precast Concrete Member (118' Decked Bulb Tee)	Each	12	\$62,795.78	\$753,549.38
501 (9)	Bridge Expansion Joint	Linear Foot	660	\$643.26	\$424,549.13
503 (1)	Reinforcing Steel	Lump Sum	All Required	\$1,852,990.58	\$1,852,990.58
503 (2)	Epoxy-Coated Reinforcing Steel	Lump Sum	All Required	\$669,213.45	\$669,213.45
504 (2)	Structural Steel	Pound	1,150,000	\$2.14	\$2,465,435.00
505 (5A)	Furnish Structural Steel Piles - HP14X17	Linear Foot	787.5	\$84.15	\$66,264.33
505 (5B)	Furnish Structural Steel Pipe Piles - 24 in	Linear Foot	6,668	\$125.24	\$835,108.02
505 (5C)	Furnish Structural Steel Pipe Piles - 48 in dia	Linear Foot	15,161.40	\$388.49	\$5,889,979.12
505 (6A)	Drive Structural Steel Piles - HP14X17	Each	6	\$3,663.42	\$21,980.54
505 (6b)	Drive Structural Steel Pipe Piles - 24 in dia	Each	78	\$4,508.83	\$351,688.57
505 (6C)	Drive Structural Steel Pipe Piles - 48 in dia	Each	111	\$10,755.82	\$1,193,895.54
505 (9)	Structural Steel Sheet Piles	Square Foot	3,200	\$42.68	\$136,569.67
507 (1)	Steel Bridge Railing	Linear Foot	14,135	\$134.12	\$1,895,778.78
606 (11)	Extruder Terminal (ET-2000)	Each	36	\$2,317.58	\$83,433.00
611 (1A)	Riprap, Class II	Cubic Yard	3,885	\$35.70	\$138,699.75
611 (3)	Riprap Slope Stabilization	Square Yard	3,222	\$0.00	\$0.00
631 (2)	Geotextile, Erosion Control, Class 1	Square Yard	3,740	\$1.78	\$6,643.18

Bridge Total \$45,672,475.12

Subtotal STS

1.5%

Subtotal



**JAI - Zones 1, 2, and 3  
Bridge Summary Sheet**

**Direct Costs**

sawmill creek BR# 2162	boulder creek BR# 2163	antler slough BR# 2165	antler river BR# 2166	beaver slough BR# 2170	lace river BR# 2169	e.w.I.U. BR# 2167	w.w.I.U. BR# 2168	slate creek BR# 2171
28,701.00	15,825.00	32,680.00	39,960.00 785,615.00	27,866.00	53,840.00	26,351.00	27,001.00	55,940.00
82,755.97	99,922.45	114,241.60	1,695,931.18	123,941.36	3,668,025.00 3,060,727.76	110,894.66	125,875.16	158,065.38
41,282.47	41,182.36	41,349.21	540,973.28	42,647.58	73,182.47	43,247.31	45,884.59	41,877.20
382,912.59	381,862.59	428,524.59	6,412,918.82	382,912.59	8,345,801.76	404,584.59	359,500.59	857,409.18
35,173.37	23,278.08	43,134.70	162,525.00	48,489.53	255,750.00	40,543.08	43,661.78	63,163.63
23,403.51	23,131.38	24,153.80	401,619.45	2,484.09	109,153.35	23,055.93	23,799.67	28,522.42
66,804.76		129,681.93	142,390.26	127,913.92	71,195.13	142,390.26	142,390.26	65,285.05
43,311.40		86,622.80	86,622.80	86,622.80	43,311.40	86,622.80	86,622.80	162,407.53
		249,594.00	249,594.00	891,402.48	4,809,761.58	21,655.70	35,255.28	
44,197.85	44,197.85	48,269.82	743,745.42	134,551.40	769,805.17	44,197.85	41,633.29	86,731.71
8,200.00	9,200.00	9,200.00	9,200.00	9,600.00	9,200.00	9,200.00	9,200.00	9,200.00
25,950.00		19,300.00	37,000.00	18,000.00	36,400.00			
857.50		1,312.50	1,750.00	875.00		1,750.00		
783,550.42	638,599.71	978,470.95	15,113,666.27	1,032,012.65	22,990,892.73	969,237.48	905,569.14	1,585,513.08
795,303.68	648,178.71	993,148.01	15,340,371.26	1,047,492.84	23,335,756.12	983,776.04	919,152.68	1,609,295.78
783,550.42	638,599.71	978,470.95	15,113,666.27	1,032,012.65	22,990,892.73	969,237.48	905,569.14	1,585,513.08
11,753.26	9,579.00	14,677.06	226,704.99	15,480.19	344,863.39	14,538.56	13,583.54	23,782.70
795,303.68	648,178.71	993,148.01	15,340,371.26	1,047,492.84	23,335,756.12	983,776.04	919,152.68	1,609,295.78



**JAI - Zones 1, 2, and 3  
Bridge Summary Sheet  
Direct Costs**

Subtotal	STS	1.5% Total	Unit Price
308,164.00	4,622.46	312,786.46	39.34
785,615.00	11,784.23	797,399.23	797,399.23
3,668,025.00	55,020.38	3,723,045.38	3,723,045.38
5,572,355.52	83,585.33	5,655,940.85	5,655,940.85
911,626.47	13,674.40	925,300.87	925,300.87
1,216,021.77	18,240.33	1,234,262.10	68,570.12
15,997,992.35	239,969.89	16,237,962.24	71,219.13
742,413.18	11,136.20	753,549.38	62,795.78
418,275.00	6,274.13	424,549.13	643.26
1,825,606.48	27,384.10	1,852,990.58	1,852,990.58
659,323.60	9,889.85	669,213.45	669,213.45
2,429,000.00	36,435.00	2,465,435.00	2.14
65,285.05	979.28	66,264.33	84.15
822,766.52	12,341.50	835,108.02	125.24
5,802,935.09	87,044.03	5,889,979.12	388.49
21,655.70	324.84	21,980.54	3,663.42
346,491.20	5,197.37	351,688.57	4,508.83
1,176,251.76	17,643.78	1,193,895.54	10,755.82
134,551.40	2,018.27	136,569.67	42.68
1,867,762.34	28,016.44	1,895,778.78	134.12
82,200.00	1,233.00	83,433.00	2,317.58
136,650.00	2,049.75	138,699.75	35.70
0.00	0.00	0.00	0.00
6,545.00	98.18	6,643.18	1.78
44,997,512.43	674,962.69	45,672,475.12	
		45,672,475.12	
89,995,024.86	1,349,925.37	91,344,950.23	
1,349,925.37			
91,344,950.23			



OWNER: Alaska DOT  
 PROJECT: Juneau to Sweeny Crk.  
 BID DATE: 3/12/2009

ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	WITH MARKUP		UNIT PRICE	TOTAL COST
						UNIT COST	TOTAL PRICE		
2162	SAWMILL CREEK BRIDGE-130 FT								
205(3)	FDTN. FILL	761	CY	\$37.71	\$28,701.00			\$38.28	\$29,131.52
	EXC. TO SUBGRADE	140.0	CY	\$20.00	\$2,800.00				
	HAUL & PLACE FILL	761	CY	\$16.00	\$12,176.00				
	EXC. ABUTMT.S	75	CY	\$15.00	\$1,125.00				
	FILL ABUTMT.S	360	CY	\$35.00	\$12,600.00				
				\$28,701.00					
601(1)	CLASS A CONCRETE	128.5	CY	\$644.02	\$82,755.97			\$653.68	\$83,997.31
	SUBSTRUCTURE	85.7	CY	\$0.00	\$0.00				
	FORMS	750.0	SF	\$4.44	\$3,331.52				
	FORM & STRIP	750.0	SF	\$23.65	\$17,737.03				
	BUY	98.6	CY	\$209.12	\$20,609.75				
	POUR	98.6	CY	\$31.74	\$3,127.72				
	SUPERSTRUCTURE	42.9	CY	\$0.00	\$0.00				
	BUY FORM MATLS	784.0	SF	\$4.32	\$3,386.88				
	FORM & STRIP	784	SF	\$23.65	\$18,541.11				
	BUY	49.3	CY	\$209.12	\$10,316.90				
	POUR	49.3	CY	\$31.74	\$1,565.69				
	FINISH & CURE	784.0	SF	\$5.28	\$4,139.36				
				\$82,755.97					
501(2)	CLASS A-A CONC.	46.0	CY	\$897.44	\$41,282.47			\$910.91	\$41,901.71
	SUPERSTRUCTURE	46.0	CY	\$0.00	\$0.00				
	FORMS	828.0	SF	\$4.44	\$3,678.00				
	FORM & STRIP	828.0	SF	\$23.65	\$19,581.68				
	BUY	52.9	CY	\$226.32	\$11,972.29				
	POUR	52.9	CY	\$31.74	\$1,679.82				
	FINISH & CURE	828.0	SF	\$5.28	\$4,371.67				
				\$41,282.47					
				\$0.00					
				\$0.00					
501(7A)	PRECAST CONC. "T" S	6.0	EA	\$63,818.76	\$382,912.59			\$64,776.05	\$388,656.28
	BUY	6.0	EA	\$39,974.00	\$239,844.00				
	HAUL ON SITE	6.0	EA	\$2,667.83	\$16,007.00				
	HAUL FROM SEATTLE	355.0	TONS	\$210.00	\$74,550.00				
	UNLOAD & STAGE ONSITE	6.0	EA	\$1,403.10	\$8,418.59				
	PLACE	6.0	EA	\$4,382.17	\$26,293.00				
	BEARING PADS installed	12.0	EA	\$325.00	\$3,900.00				
	GROUT S HEAR KEY	640.0	LF	\$20.00	\$12,800.00				
	JOINTS-ABUTMT. SAWED +	2.0	EA	\$550.00	\$1,100.00				
				\$382,912.59					
				\$0.00					
503(1)	REBAR-SUBSTR.	27109.0	LBS	\$1.30	\$35,173.37			\$1.32	\$35,700.97
	BUY	27109.0	LBS	\$0.44	\$11,927.96				
	HAUL ON SITE	27109.0	LBS	\$0.10	\$2,710.90				
	HAUL FROM SEATTLE	13.6	TONS	\$210.00	\$2,846.45				
	FABRICATE REBAR	27109.0	LBS	\$0.35	\$9,378.25				
	HAUL & PLACE REBAR	27109.0	LBS	\$0.31	\$8,309.82				
				\$35,173.37					
503(2)	EPOXY-REBAR SUPST	15222.0	L.S	\$1.54	\$23,403.51			\$1.56	\$23,754.56
	BUY	15222.0	LBS	\$0.68	\$10,350.96				
	HAUL ON SITE	15222.0	LBS	\$0.10	\$1,522.20				
	HAUL FROM SEATTLE	7.6	TONS	\$210.00	\$1,598.31				
	FABRICATE REBAR	15222.0	LBS	\$0.35	\$5,265.99				
	HAUL & PLACE REBAR	15222.0	LBS	\$0.31	\$4,666.05				
				\$23,403.51					
				\$0.00					
505(5B)	STEEL PILES-2' dia	563.0	L.F.	\$118.66	\$66,804.76			\$120.44	\$67,806.84
	BUY -	563.0	LF	\$111.75	\$62,915.25				
	HAUL FROM SEATTLE	35.4	TONS	\$110.00	\$3,889.51				
				\$66,804.76					
				\$0.00					
505(6B)	DRIVE PILES	12.0	EA	\$3,609.28	\$43,311.40			\$3,663.42	\$43,961.07
	DRIVE PILES	12.0	EA	\$2,543.33	\$30,520.00				
	SPLICE PILES	12.0	EA	\$1,065.95	\$12,791.40				
	average length =	46.9		\$43,311.40	\$2,032,026.52				
507(1)	STEEL BRDG. RAIL	340.0	L.F.	\$129.99	\$44,197.85			\$131.94	\$44,860.81
	BUY	340.0	LF	\$90.00	\$30,600.00				
	HAUL	340.0	LF	\$5.00	\$1,700.00				
	INSTALL	340.0	LF	\$25.72	\$8,745.85				
	GROUTE BASES	42.0	EA	\$75.05	\$3,152.00				
				\$44,197.85					
				\$0.00					
605(12)	GUARDRAIL/END CONN.	4.0	EA	\$2,050.00	\$8,200.00			\$2,080.75	\$8,323.00
	BUY	4.0	EA	\$900.00	\$3,600.00				
	HAUL	4.0	EA	\$400.00	\$1,600.00				
	INSTALL	4.0	EA	\$750.00	\$3,000.00				
				\$8,200.00					
				\$0.00					
611(1)	RIPRAP CL. II	835.0	CY	\$31.08	\$25,950.00			\$31.54	\$26,339.25
	EXC. FOR R.R.	212.0	CY	\$20.00	\$4,240.00				
	HAUL	1085.5	CY	\$8.00	\$8,684.00				
	PLACE R.R.	1085.5	TONS	\$12.00	\$13,026.00				
				\$25,950.00					
				\$1.75	\$857.50			\$1.78	\$870.36
631(2)	GEO. EROSION CONT	490.0	SY	\$1.75	\$857.50				
	BUY	550.0	SY	\$1.00	\$550.00				
	PLACE	550.0	SY	\$0.50	\$275.00				
	SUBTOTAL								
	INDIRECT COST	RATE	UNITS	UNIT COST				\$0.00	\$0.00
	STS	0.01	1		\$35,990.95			\$0.00	\$0.00
	SURVEYING	0	1	\$ 750.00	\$0.00				
	TOTALS							l.f. \$6,117.72	\$795,303.67
								s.f. \$185.39	

ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
2163	BOULDER CREEK- 129 FT								
205(3)	FDTN. FILL	300	CY	\$52.75	\$15,825.00			\$53.54	\$16,062.38
	EXC. TO SUBGRADE	120.0	CY	\$20.00	\$2,400.00				
	HAUL & PLACE FILL	0	CY	\$16.00	\$0.00				
	EXC. ROCK @ ABUTMT.S	55	CY	\$15.00	\$825.00				
	FILL ABUTMT.S	360	CY	\$35.00	\$12,600.00				
				\$15,825.00					
501(1)	CLASS A CONCRETE	122.1	CY	\$818.37	\$99,922.45			\$830.64	\$101,421.29
	SUBSTRUCTURE	90.6	CY	\$0.00	\$0.00				
	FORMS	1676.0	SF	\$4.44	\$7,444.84				
	FORM & STRIP	1676.0	SF	\$23.65	\$39,636.35				
	BUY	104.2	CY	\$209.12	\$21,788.14				
	POUR	104.2	CY	\$31.74	\$3,306.55				
	SUPERSTRUCTURE	31.5	CY	\$0.00	\$0.00				
	FORMS 4SF/HR	570.0	SF	\$4.44	\$2,531.96				
	FORM & STRIP	570.0	SF	\$23.65	\$13,480.14				
	BUY	36.2	CY	\$209.12	\$7,575.36				
	POUR	36.2	CY	\$31.74	\$1,149.83				
	FINISH & CURE	570.0	SF	\$5.28	\$3,009.48				
				\$99,922.45					
501(2)	CLASS A-A CONC.	46.0	CY	\$895.27	\$41,182.36			\$908.70	\$41,800.09
	SUPERSTRUCTURE	46.0	CY	\$0.00	\$0.00				
	FORMS	825.0	SF	\$4.44	\$3,664.68				
	FORM & STRIP	825.0	SF	\$23.65	\$19,510.73				
	BUY	52.9	CY	\$226.32	\$11,972.29				
	POUR	52.9	CY	\$31.74	\$1,678.82				
	FINISH & CURE	825.0	SF	\$5.28	\$4,355.83				
				\$41,182.36					
				\$0.00					
				\$0.00					
501(7A)	PRECAST CONC. "T" S	6.0	EA	\$63,643.76	\$381,862.59			\$64,598.42	\$387,590.53
	BUY	6.0	EA	\$39,974.00	\$239,844.00				
	HAUL ON SITE	6.0	EA	\$2,667.83	\$16,007.00				
	HAUL FROM SEATTLE	350.0	TONS	\$210.00	\$73,500.00				
	UNLOAD & STAGE ONSITE	6.0	EA	\$1,403.10	\$8,418.59				
	PLACE	6.0	EA	\$4,382.17	\$26,293.00				
	BEARING PADS	12.0	EA	\$325.00	\$3,900.00				
	GROUTE SHEAR KEY	640.0	LF	\$20.00	\$12,800.00				
	JOINTS-ABUTTMT. SAWED +	2.0	EA	\$550.00	\$1,100.00				
				\$381,862.59					
503(1)	REBAR-SUBSTR.	17941.0	LBS	\$1.30	\$23,278.08			\$1.32	\$23,627.25
	BUY	17941.0	LBS	\$0.44	\$7,894.04				
	HAUL ON SITE	17941.0	LBS	\$0.10	\$1,794.10				
	HAUL FROM SEATTLE	9.0	TONS	\$210.00	\$1,883.81				
	FABRICATE REBAR	17941.0	LBS	\$0.35	\$6,206.62				
	HAUL & PLACE REBAR	17941.0	LBS	\$0.31	\$5,499.52				
				\$23,278.08					
503(2)	EPOXY-REBAR SUPST	15045.0	L.S	\$1.54	\$23,131.38			\$1.56	\$23,478.35
	BUY	15045.0	LBS	\$0.68	\$10,230.60				
	HAUL ON SITE	15045.0	LBS	\$0.10	\$1,504.50				
	HAUL FROM SEATTLE	7.5	TONS	\$210.00	\$1,579.73				
	FABRICATE REBAR	15045.0	LBS	\$0.35	\$5,204.76				
	HAUL & PLACE REBAR	15045.0	LBS	\$0.31	\$4,611.80				
				\$23,131.38					
				\$0.00					
				\$0.00					
505(5B)	STEEL PILES-2' dia	0.0	L.F.	\$0.00	\$0.00				
	BUY - AVE. 47" LONG	0.0	LF	\$25.00	\$0.00				
	HAUL	0.0	L.F.	\$8.00	\$0.00				
				\$0.00					
505(6B)	DRIVE PILES	0.0	EA	\$2,000.00	\$0.00				
				\$0.00					
507(1)	STEEL BRDG. RAIL	338.0	L.F.	\$130.76	\$44,197.85			\$132.72	\$44,860.81
	BUY	340.0	LF	\$90.00	\$30,600.00				
	HAUL	340.0	LF	\$5.00	\$1,700.00				
	INSTALL	340.0	LF	\$25.72	\$8,745.85				
	GROUTE BASES	42.0	EA	\$75.05	\$3,152.00				
		0.0	CY	\$44,197.85	\$0.00				
606(12)	GUARDRAIL/END CONN.	4.0	EA	\$2,300.00	\$9,200.00			\$2,334.50	\$9,338.00
	BUY	4.0	EA	\$900.00	\$3,600.00				
	HAUL	4.0	EA	\$400.00	\$1,600.00				
	INSTALL	4.0	EA	\$1,000.00	\$4,000.00				
				\$9,200.00					
611(1)	RIPRAP CL. II	0.0	CY	\$0.00	\$0.00				
	EXC. FOR R.R.	0.0	CY	\$0.00	\$0.00				
	HAUL	0.0	CY	\$0.00	\$0.00				
	PLACE R.R.	0.0	TONS	\$0.00	\$0.00				
				\$0.00					
				\$0.00					
	SUBTOTAL								
	INDIRECT COST	RATE	UNITS	UNIT COST					
	STS	0.01	1		\$12,771.99				
	SURVEYING	0	1	\$ 750.00	\$0.00				
	TOTALS							I.I. \$5,024.64	\$648,178.69
								S.I. \$152.15	



ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
2165	ANYLER SLOUGH - 145 FT								
205(3)	FDTN. FILL	850	CY	\$38.45	\$32,680.00			\$39.02	\$33,170.20
	EXC. TO SUBGRADE	120.0	CY	\$20.00	\$2,400.00				
	HAUL & PLACE FILL	1105	CY	\$16.00	\$17,680.00				
	EXC. ROCK @ ABUTMT.S	0	CY	\$15.00	\$0.00				
	FILL ABUTMT.S	360	CY	\$35.00	\$12,600.00				
				\$32,680.00					
501(1)	CLASS A CONCRETE	159.3	CY	\$717.15	\$114,241.60			\$727.90	\$115,955.22
	SUBSTRUCTURE	104.4	CY	\$0.00	\$0.00				
	FORMS	1320.0	SF	\$4.44	\$5,863.48				
	FORM & STRIP	1320.0	SF	\$23.65	\$31,217.18				
	BUY	120.1	CY	\$209.12	\$25,106.87				
	POUR	120.1	CY	\$31.74	\$3,810.20				
	SUPERSTRUCTURE	54.9	CY	\$0.00	\$0.00				
	FORMS 4SF/HR	990.0	SF	\$4.44	\$4,397.61				
	FORM & STRIP	990.0	SF	\$23.65	\$23,412.88				
	BUY	83.1	CY	\$209.12	\$13,202.75				
	POUR	63.1	CY	\$31.74	\$2,003.64				
	FINISH & CURE	990.0	SF	\$5.28	\$5,227.00				
				\$114,241.60					
501(2)	CLASS A-A CONC.	46.0	CY	\$898.90	\$41,349.21			\$912.38	\$41,969.45
	SUPERSTRUCTURE	46.0	CY	\$0.00	\$0.00				
	FORMS	830.0	SF	\$4.44	\$3,686.89				
	FORM & STRIP	830.0	SF	\$23.65	\$19,628.98				
	BUY	52.9	CY	\$226.32	\$11,972.29				
	POUR	52.9	CY	\$31.74	\$1,678.82				
	FINISH & CURE	830.0	SF	\$5.28	\$4,382.23				
				\$41,349.21	\$0.00				
501(7A)	PRECAST CONC. "T"S	6.0	EA	\$71,420.76	\$428,524.59			\$72,492.08	\$434,952.46
	BUY	6.0	EA	\$44,111.00	\$264,666.00				
	HAUL FROM SEATTLE	464.0	TONS	\$210.00	\$95,340.00				
	HAUL ON SITE	6.0	EA	\$2,667.83	\$16,007.00				
	UNLOAD & STAGE ONSITE	6.0	EA	\$1,403.10	\$8,418.59				
	PLACE	6.0	EA	\$4,382.17	\$26,293.00				
	BEARING PADS	12.0	EA	\$325.00	\$3,900.00				
	GROUTE SHEAR KEY	640.00	LF	\$20.00	\$12,800.00				
	JOINTS-ABUTMT. SAWED +	2.0	EA	\$550.00	\$1,100.00				
				\$428,524.59	\$0.00				
503(1)	REBAR-SUBSTR.	33245.0	LBS	\$1.30	\$43,134.70			\$1.32	\$43,781.72
	BUY	33245.0	LBS	\$0.44	\$14,627.80				
	HAUL ON SITE	33245.0	LBS	\$0.10	\$3,324.50				
	HAUL FROM SEATTLE	16.6	TONS	\$210.00	\$3,490.73				
	FABRICATE REBAR	33245.0	LBS	\$0.35	\$11,500.97				
	HAUL & PLACE REBAR	33245.0	LBS	\$0.31	\$10,190.71				
				\$43,134.70					
503(2)	EPOXY-REBAR SUPST	15710.0	L.S	\$1.54	\$24,153.80			\$1.56	\$24,516.11
	BUY	15710.0	LBS	\$0.68	\$10,682.80				
	HAUL ON SITE	15710.0	LBS	\$0.10	\$1,571.00				
	HAUL FROM SEATTLE	7.9	TONS	\$210.00	\$1,649.55				
	FABRICATE REBAR	15710.0	LBS	\$0.35	\$5,434.81				
	HAUL & PLACE REBAR	15710.0	LBS	\$0.31	\$4,815.64				
				\$24,153.80	\$0.00				
505(5B)	STEEL PILES-2' dia	1092.9	L.F.	\$118.66	\$129,681.93			\$120.44	\$131,627.16
	BUY - AVE. 47' LONG	1092.9	LF	\$111.75	\$122,131.58				
	HAUL FROM SEATTLE	68.6	TONS	\$110.00	\$7,550.35				
				\$129,681.93	\$0.00				
505(6B)	DRIVE PILES	12.0	EA	\$7,218.57	\$86,622.80			\$7,326.85	\$87,922.14
	DRIVE PILES	12.0	EA	\$5,086.67	\$61,040.00				
	SPLICE PILES	24.0	EA	\$1,065.95	\$25,582.80				
	average length =	91.1		\$86,622.80					
507(1)	STEEL BRDG. RAIL	370.0	L.F.	\$130.46	\$48,269.82			\$132.42	\$48,993.67
	BUY	370.0	LF	\$80.00	\$33,300.00				
	HAUL	370.0	LF	\$5.00	\$1,850.00				
	INSTALL	370.0	LF	\$25.72	\$9,517.54				
	GROUTE BASES	48.0	EA	\$75.05	\$3,602.29				
		0.0	CY	\$48,269.82	\$0.00				
608(12)	GUARDRAIL/END CONN.	4.0	EA	\$2,300.00	\$9,200.00			\$2,334.50	\$9,338.00
	BUY	4.0	EA	\$900.00	\$3,600.00				
	HAUL	4.0	EA	\$400.00	\$1,600.00				
	INSTALL	4.0	EA	\$1,000.00	\$4,000.00				
				\$9,200.00	\$0.00				
611(1)	RIPRAP CL. II	550.0	CY	\$35.09	\$19,300.00			\$35.62	\$19,589.50
	EXC. FOR R.R.	250.0	CY	\$20.00	\$5,000.00				
	HAUL	715.0	CY	\$8.00	\$5,720.00				
	PLACE R.R.	715.0	TONS	\$12.00	\$8,580.00				
				\$19,300.00	\$0.00				
631(2)	GEO. EROSION CONT	750.0	SY	\$1.75	\$1,312.50			\$1.78	\$1,332.10
	BUY	825.0	SY	\$1.00	\$825.00				
	PLACE	825.0	SY	\$0.50	\$412.50				
	SUBTOTAL								
	INDIRECT COST								
	STS	0.01	1		\$19,568.67			\$0.00	\$0.00
	TOTALS							\$6,849.30	\$993,148.02
								\$207.55	

ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
2166	ANTLER RIVER - 2762.5 FT								
205(3)	FDTN. FILL	1200 CY		\$33.30	\$39,960.00			\$33.80	\$40,559.40
	EXC. TO SUBGRADE	120.0 CY		\$20.00	\$2,400.00				
	HAUL & PLACE FILL	1560 CY		\$16.00	\$24,960.00				
	FILL ABUTMT.S	360 CY		\$35.00	\$12,600.00				
				\$39,960.00					
501(1)	CLASS A CONCRETE	2600.0 CY		\$605.69	\$1,695,931.18			\$614.78	\$1,721,370.15
	FORMS 4SFHR	27580.0 SF		\$4.44	\$122,511.22				
	FORM & STRIP	27580.0 SF		\$23.65	\$652,249.76				
	BUY	3220.0 CY		\$209.12	\$673,364.20				
	POUR	3220.0 CY		\$31.74	\$102,189.26				
	FINISH & CURE	27580.0 SF		\$5.28	\$145,616.73				
				\$1,695,931.18					
501(2)	CLASS A-A CONC.	626.0 CY		\$864.17	\$540,973.28			\$877.14	\$549,087.88
	FORMS	11580.0 SF		\$4.44	\$51,438.72				
	FORM & STRIP	11580.0 SF		\$23.65	\$273,859.76				
	BUY	719.9 CY		\$226.32	\$162,927.28				
	POUR	719.9 CY		\$31.74	\$22,846.60				
	FINISH & CURE	719.9 SF		\$5.28	\$3,800.92				
	DRAINS @ PIERS-2 SIDES	36.0 EA		\$725.00	\$26,100.00				
				\$540,973.28	\$0.00				
501(7A)	PRECAST CONC. "T"S	90.0 EA		\$71,254.65	\$6,412,918.82			\$72,323.47	\$6,609,112.61
	BUY	90.0 EA		\$44,111.00	\$3,969,990.00				
	HAUL FROM SEATTLE	6705.0 TONS		\$210.00	\$1,408,050.00				
	HAUL ON SITE	90.0 EA		\$2,667.83	\$240,105.00				
	UNLOAD & STAGE ONSITE	90.0 EA		\$1,403.10	\$126,278.82				
	PLACE	90.0 EA		\$4,362.17	\$394,395.00				
	BEARING PADS	180.0 EA		\$325.00	\$58,500.00				
	GROUTE SHEAR KEY	10725.00 LF		\$20.00	\$214,500.00				
	JOINTS-ABUTTMT. SAWED +	2.0 EA		\$550.00	\$1,100.00				
				\$6,412,918.82	\$0.00				
501(9)	BRIDGE EXPANSION JTS.	330.0 L.F.		\$492.50	\$162,525.00			\$499.89	\$164,962.88
	BUY	330.0 L.F.		\$247.50	\$81,675.00				
	INSTALL	330.0 L.F.		\$245.00	\$80,850.00				
				\$162,525.00	\$0.00				
503(1)	REBAR-SUBSTR.	575000.0 LBS		\$1.25	\$717,300.68			\$1.27	\$728,060.19
	BUY	575000.0 LBS		\$0.44	\$253,000.00				
	HAUL FROM SEATTLE	287.5 TONS		\$210.00	\$60,375.00				
	HAUL TO YARD	575000.0 LBS		\$0.05	\$28,750.00				
	FABRICATE REBAR	575000.0 LBS		\$0.35	\$199,918.92				
	HAUL & PLACE REBAR	575000.0 LBS		\$0.31	\$178,256.76				
				\$717,300.68	\$0.00				
503(2)	EPOXY-REBAR SUPST	270000.0 L.S		\$1.49	\$401,619.45			\$1.51	\$407,643.74
	BUY	270000.0 LBS		\$0.68	\$183,600.00				
	HAUL FROM SEATTLE	135.0 TONS		\$210.00	\$28,350.00				
	HAUL TO YARD	270000.0 LBS		\$0.05	\$13,500.00				
	FABRICATE REBAR	270000.0 LBS		\$0.35	\$93,405.41				
	HAUL & PLACE REBAR	270000.0 LBS		\$0.31	\$82,764.04				
				\$401,619.45	\$0.00				
504(2)	STRUCTURAL STEEL	1000000.0 LBS		\$2.43	\$2,429,000.00			\$2.47	\$2,465,435.00
	BUY - FAB	1000000.0 LBS		\$1.67	\$1,665,000.00				
	HAUL FROM SEATTLE	500.0 TONS		\$210.00	\$105,000.00				
	HAUL ON SITE	1000000.0 LBS		\$0.25	\$250,000.00				
	UNLOAD & STAGE ONSITE	1000000.0 LBS		\$0.05	\$50,000.00				
	INSTALL	1000000.0 LBS		\$0.35	\$350,000.00				
	BEARING PADS	24.0 EA		\$375.00	\$9,000.00				
				\$2,429,000.00					
505(5B)	STEEL PILES-2' dia	1200.0 L.F.		\$118.66	\$142,390.26			\$120.44	\$144,526.11
	BUY - AVE. 47' LONG	1200.0 LF		\$111.75	\$134,100.00				
	HAUL FROM SEATTLE	75.4 TONS		\$110.00	\$8,290.26				
				\$142,390.26	\$0.00				
505(5C)	STEEL PILES-4' dia	1200.0 L.F.		\$547.93	\$657,520.38			\$556.15	\$667,383.19
	BUY - AVE. 47' LONG	1200.0 LF		\$520.30	\$624,360.00				
	HAUL FROM SEATTLE	301.5 TONS		\$110.00	\$33,160.38				
				\$657,520.38	\$0.00				
505(6B)	DRIVE PILES-2FT	12.0 EA		\$7,218.57	\$86,622.80			\$7,326.85	\$87,922.14
	DRIVE PILES	12.0 EA		\$5,086.67	\$61,040.00				
	SPLICE PILES	24.0 EA		\$1,065.95	\$25,582.80				
	average length =	100.0		\$86,622.80	\$8,662,280.00				
505(6C)	DRIVE PILES-4FT	51.0 EA		\$4,894.00	\$249,594.00			\$4,967.41	\$253,337.91
	DRIVE PILES	51.0 EA		\$3,744.00	\$190,944.00				
	Pile Cut offs	51.0 EA		\$1,150.00	\$58,650.00				
	average length =	23.5		\$249,594.00					
WORK	BRIDGE & RK. ROAD	600.0 L.F.		\$1,309.36	\$785,615.00			\$1,329.00	\$797,399.23
	BUY MATERIALS	600.0 L.F.		\$750.00	\$450,000.00				
	CONSTR. WK. BRDG	600.0 LF		\$300.00	\$180,000.00				
	REM. WORK BRDG.	600.0 LF		\$125.00	\$75,000.00				
	ROAD ROAD	2300.0 L.F.		\$23.05	\$53,015.00				
	ROAD MAINT. & REPAIRS	2300.0 L.F.		\$12.00	\$27,600.00				
				\$785,615.00	\$0.00				
507(1)	STEEL BRDG. RAIL	5605.0 L.F.		\$132.69	\$743,745.42			\$134.66	\$754,901.60
	BUY	5605.0 LF		\$90.00	\$504,450.00				
	HAUL	5605.0 LF		\$5.00	\$28,025.00				
	INSTALL	5605.0 LF		\$25.72	\$144,177.85				
	GROUTE BASES	894.0 EA		\$75.05	\$67,092.57				
				\$743,745.42	\$0.00				
606(12)	GUARDRAIL/END CONN.	4.0 EA		\$2,300.00	\$9,200.00			\$2,334.50	\$9,338.00
	BUY	4.0 EA		\$900.00	\$3,600.00				
	HAUL	4.0 EA		\$400.00	\$1,600.00				
	INSTALL	4.0 EA		\$1,000.00	\$4,000.00				
				\$9,200.00	\$0.00				
611(1)	RIPRAP CL. II	1000.0 CY		\$37.00	\$37,000.00			\$37.56	\$37,555.00
	EXC. FOR R.R.	550.0 CY		\$20.00	\$11,000.00				
	HAUL	1300.0 CY		\$8.00	\$10,400.00				
	PLACE R.R.	1300.0 TONS		\$12.00	\$15,600.00				
				\$37,000.00	\$0.00				
631(2)	GEO. EROSION CONT	1000.0 SY		\$1.75	\$1,750.00			\$1.78	\$1,776.25
	BUY	1100.0 SY		\$1.00	\$1,100.00				
	PLACE	1100.0 SY		\$0.50	\$550.00				
	SUBTOTAL								
	INDIRECT COST	RATE	UNITS	UNIT COST					
	STS	0.01	1		\$388,895.13				
TOTALS								lf: \$5,554.08	\$15,340,371.27
							s:1	\$168.28	

ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
2170 BEAVER SLOUGH - 130 FT									
205(3)	FDTN. FILL	770	CY	\$36.19	\$27,866.00			\$36.73	\$28,283.99
	EXC. TO SUBGRADE	120.0	CY	\$20.00	\$2,400.00				
	HAUL & PLACE FILL	1001	CY	\$16.00	\$16,016.00				
	EXC. ROCK @ ABUTMT.S	0	CY	\$15.00	\$0.00				
	FILL ABUTMT.S	270	CY	\$35.00	\$9,450.00				
				\$27,866.00					
501(1)	CLASS A CONCRETE	171.5	CY	\$722.69	\$123,941.36			\$733.53	\$125,800.48
	SUBSTRUCTURE	116.6	CY	\$0.00	\$0.00				
	FORMS	1545.0	SF	\$4.44	\$6,862.94				
	FORM & STRIP	1545.0	SF	\$23.65	\$36,538.28				
	BUY	134.1	CY	\$209.12	\$28,040.81				
	POUR	134.1	CY	\$31.74	\$4,255.45				
	SUPERSTRUCTURE	54.9	CY	\$0.00	\$0.00				
	FORMS 4SF/HR	990.0	SF	\$4.44	\$4,397.81				
	FORM & STRIP	990.0	SF	\$23.65	\$23,412.88				
	BUY	63.1	CY	\$209.12	\$13,202.75				
	POUR	63.1	CY	\$31.74	\$2,003.64				
	FINISH & CURE	990.0	SF	\$5.28	\$5,227.00				
				\$123,941.36					
501(2)	CLASS A-A CONC.	50.6	CY	\$842.84	\$42,647.58			\$855.48	\$43,287.30
	SUPERSTRUCTURE		CY	\$0.00	\$0.00				
	FORMS	828.0	SF	\$4.44	\$3,678.00				
	FORM & STRIP	828.0	SF	\$23.65	\$19,581.68				
	BUY	58.2	CY	\$226.32	\$13,169.52				
	POUR	58.2	CY	\$31.74	\$1,846.71				
	FINISH & CURE	828.0	SF	\$5.28	\$4,371.67				
				\$42,647.58					
				\$0.00					
501(7A)	PRECAST CONC. "T" S	6.0	EA	63818.76471	\$382,912.59			\$64,776.05	\$388,656.28
	BUY	6.0	EA	\$39,974.00	\$239,844.00				
	HAUL FROM SEATTLE	355.0	TONS	\$210.00	\$74,550.00				
	HAUL ON SITE	6.0	EA	\$2,667.83	\$16,007.00				
	UNLOAD & STAGE ONSITE	6.0	EA	\$1,403.10	\$8,418.59				
	PLACE	6.0	EA	\$4,382.17	\$26,293.00				
	BEARING PADS	12.0	EA	\$325.00	\$3,900.00				
	GROUTE SHEAR KEY	640.00	LF	\$20.00	\$12,800.00				
	JOINTS-ABUTTM. SAWED +	2.0	EA	\$550.00	\$1,100.00				
				\$382,912.59					
503(1)	REBAR-SUBSTR.	38870.0	LBS	\$1.25	\$48,489.53			\$1.27	\$49,216.87
	BUY	38870.0	LBS	\$0.44	\$17,102.80				
	HAUL FROM SEATTLE	19.4	TONS	\$210.00	\$4,081.35				
	HAUL TO YARD	38870.0	LBS	\$0.05	\$1,943.50				
	FABRICATE REBAR	38870.0	LBS	\$0.35	\$13,446.92				
	HAUL & PLACE REBAR	38870.0	LBS	\$0.31	\$11,914.96				
				\$48,489.53					
503(2)	EPOXY-REBAR SUPST	1670.0	LBS	\$1.49	\$2,484.09			\$1.51	\$2,521.35
	BUY	1670.0	LBS	\$0.68	\$1,135.60				
	HAUL FROM SEATTLE	0.8	TONS	\$210.00	\$175.35				
	HAUL TO YARD	1670.0	LBS	\$0.05	\$83.50				
	FABRICATE REBAR	1670.0	LBS	\$0.35	\$577.73				
	HAUL & PLACE REBAR	1670.0	LBS	\$0.31	\$511.91				
				\$2,484.09					
505(5B)	STEEL PILES-2' dia	1078.0	L.F.	\$118.66	\$127,913.92			\$120.44	\$129,832.63
	BUY -	1078.0	LF	\$111.75	\$120,466.50				
	HAUL FROM SEATTLE	67.7	TONS	\$110.00	\$7,447.42				
				\$127,913.92					
505(6B)	DRIVE PILES	12.0	EA	\$7,218.57	\$86,622.80			\$7,326.85	\$87,922.14
	DRIVE PILES	12.0	EA	\$5,086.67	\$61,040.00				
	SPLICE PILES	24.0	EA	\$1,065.95	\$25,582.80				
	average length	89.8		\$86,622.80					
507(1)	STEEL BRDG. RAIL	320.0	L.F.	\$140.57	\$44,983.38			\$142.68	\$45,658.14
	BUY	320.0	LF	\$100.00	\$32,000.00				
	HAUL	320.0	LF	\$5.00	\$1,600.00				
	INSTALL	320.0	LF	\$25.72	\$8,231.38				
	GROUTE BASES	42.0	EA	\$75.05	\$3,152.00				
		0.0	CY	\$44,983.38	\$0.00				
606(12)	GUARDRAIL/END CONN.	4.0	EA	\$2,400.00	\$9,600.00			\$2,436.00	\$9,744.00
	BUY	4.0	EA	\$1,000.00	\$4,000.00				
	HAUL	4.0	EA	\$400.00	\$1,600.00				
	INSTALL	4.0	EA	\$1,000.00	\$4,000.00				
				\$9,600.00					
	SHEET PILES	3200.0	S.F.	\$42.05	\$134,551.40			\$42.68	\$136,569.67
	BUY SHEET PILE	3363.2	S.F.	\$21.00	\$70,627.20				
	HAUL	3363.2	L.F.	\$8.00	\$26,905.60				
	DRIVE	3363.2	L.F.	\$10.50	\$35,313.60				
	CORNER CONNECTIONS	31.0	L.F.	\$55.00	\$1,705.00				
				\$134,551.40					
	<b>SUBTOTAL</b>								
	INDIRECT COST	RATE	UNITS	UNIT COST					
	STS	0.01	1		\$20,640.25			\$0.00	\$0.00
	<b>TOTALS</b>							\$8,729.11	\$1,047,492.84
			1.09636					\$235.92	



ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
2167 EAST WILDLIFE UNDERCROSSING - 130 FT									
205(3)	FDTN. FILL	750	CY	\$35.13	\$26,351.00			\$35.66	\$26,746.27
	EXC. TO SUBGRADE	140.0	CY	\$20.00	\$2,800.00				
	HAUL & PLACE FILL	761	CY	\$16.00	\$12,176.00				
	EXC. ABUTMT.S	75	CY	\$15.00	\$1,125.00				
	FILL ABUTMT.S	360	CY	\$25.00	\$9,000.00				
	POROUS BACKFILL	50	CY	\$25.00	\$1,250.00				
				\$26,351.00					
501(1)	CLASS A CONCRETE	150.0	CY	\$739.30	\$110,894.66			\$750.39	\$112,558.08
	SUBSTRUCTURE		CY	\$0.00	\$0.00				
	FORMS	1150.0	SF	\$4.44	\$5,108.34				
	FORM & STRIP	1150.0	SF	\$23.65	\$27,196.78				
	BUY	172.5	CY	\$209.12	\$36,073.08				
	POUR	172.5	CY	\$31.74	\$5,474.42				
	SUPERSTRUCTURE		CY	\$0.00	\$0.00				
	FORMS 4SF/HR	1110.0	SF	\$4.44	\$4,930.65				
	FORM & STRIP	1110.0	SF	\$23.65	\$26,250.81				
	BUY	0.0	CY	\$209.12	\$0.00				
	POUR	0.0	CY	\$31.74	\$0.00				
	FINISH & CURE	1110.0	SF	\$5.28	\$5,860.57				
				\$110,894.66					
501(2)	CLASS A-A CONC.	46.0	CY	\$940.18	\$43,247.31			\$954.26	\$43,896.02
	SUPERSTRUCTURE	46.0	CY	\$0.00	\$0.00				
	FORMS	850.0	SF	\$4.44	\$3,775.73				
	FORM & STRIP	850.0	SF	\$23.65	\$20,101.97				
	BUY	52.9	CY	\$226.32	\$11,972.29				
	POUR	52.9	CY	\$55.00	\$2,909.50				
	FINISH & CURE	850.0	SF	\$5.28	\$4,487.83				
				\$43,247.31					
501(7A)	PRECAST CONC. "T"S	6.0	EA	\$67,430.76	\$404,584.59			\$68,442.23	\$410,653.36
	BUY	6.0	EA	\$44,111.00	\$264,666.00				
	HAUL FROM SEATTLE	340.0	TONS	\$210.00	\$71,400.00				
	HAUL ON SITE	6.0	EA	\$2,667.83	\$16,007.00				
	UNLOAD & STAGE ONSITE	6.0	EA	\$1,403.10	\$8,418.59				
	PLACE	6.0	EA	\$4,382.17	\$26,293.00				
	BEARING PADS	12.0	EA	\$325.00	\$3,900.00				
	GROUTE SHEAR KEY	640.00	LF	\$20.00	\$12,800.00				
	JOINTS-ABUTTMT. SAWED +	2.0	EA	\$550.00	\$1,100.00				
				\$404,584.59					
503(1)	REBAR-SUBSTR.	32500.0	LBS	\$1.25	\$40,543.08			\$1.27	\$41,151.23
	BUY	32500.0	LBS	\$0.44	\$14,300.00				
	HAUL FROM SEATTLE	16.3	TONS	\$210.00	\$3,412.50				
	HAUL TO YARD	32500.0	LBS	\$0.05	\$1,625.00				
	FABRICATE REBAR	32500.0	LBS	\$0.35	\$11,243.24				
	HAUL & PLACE REBAR	32500.0	LBS	\$0.31	\$9,962.34				
				\$40,543.08					
503(2)	EPOXY-REBAR SUPST	15500.0	LBS	\$1.49	\$23,055.93			\$1.51	\$23,401.77
	BUY	15500.0	LBS	\$0.68	\$10,540.00				
	HAUL FROM SEATTLE	7.8	TONS	\$210.00	\$1,627.50				
	HAUL TO YARD	15500.0	LBS	\$0.05	\$775.00				
	FABRICATE REBAR	15500.0	LBS	\$0.35	\$5,362.18				
	HAUL & PLACE REBAR	15500.0	LBS	\$0.31	\$4,751.27				
				\$23,055.93					
505(5B)	STEEL PILES-2' dia	1200.0	L.F.	\$118.66	\$142,390.26			\$120.44	\$144,526.11
	BUY - AVE. 47' LONG	1200.0	LF	\$111.75	\$134,100.00				
	HAUL FROM SEATTLE	75.4	TONS	\$110.00	\$8,290.26				
				\$142,390.26					
505(6B)	DRIVE PILES	12.0	EA	\$7,218.57	\$86,622.80			\$7,326.85	\$87,922.14
	DRIVE PILES	12.0	EA	\$5,086.67	\$61,040.00				
	SPLICE PILES	24.0	EA	\$1,065.95	\$25,582.80				
	average length =	100.0		\$86,622.80	\$8,662,280.00				
507(1)	STEEL BRDG. RAIL	340.0	L.F.	\$129.99	\$44,197.85			\$131.94	\$44,860.81
	BUY	340.0	LF	\$90.00	\$30,600.00				
	HAUL	340.0	LF	\$5.00	\$1,700.00				
	INSTALL	340.0	LF	\$25.72	\$8,745.85				
	GROUTE BASES	42.0	EA	\$75.05	\$3,152.00				
				\$44,197.85					
606(12)	GUARDRAIL/END CONN.	4.0	EA	\$2,300.00	\$9,200.00			\$2,334.50	\$9,338.00
	BUY	4.0	EA	\$900.00	\$3,600.00				
	HAUL	4.0	EA	\$400.00	\$1,600.00				
	INSTALL	4.0	EA	\$1,000.00	\$4,000.00				
				\$9,200.00					
611(1)	RIPRAP CL. II	1000.0	CY	\$36.40	\$36,400.00			\$36.95	\$36,946.00
	EXC. FOR R.R.	520.0	CY	\$20.00	\$10,400.00				
	HAUL	1300.0	CY	\$8.00	\$10,400.00				
	PLACE R.R.	1300.0	TONS	\$12.00	\$15,600.00				
				\$36,400.00					
631(2)	GEO. EROSION CONT	1000.0	SY	\$1.75	\$1,750.00			\$1.78	\$1,776.25
	BUY	1150.0	SY	\$1.00	\$1,150.00				
	PLACE	1150.0	SY	\$0.50	\$575.00				
	SUBTOTAL								
	INDIRECT COST	RATE	UNITS	UNIT COST					
	STS	0.01	1		\$106,007.30			\$0.00	\$0.00
	SURVEYING	0	1	\$ 750.00	\$0.00				
TOTALS									
							1.09636		
							i.i.	\$7,567.51	\$983,776.04
							s.1	\$229.32	

ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
2168	WEST WILDLIFE UNDERCROSSING - 120 FT								
205(3)	FDTN. FILL	800	CY	\$33.75	\$27,001.00			\$34.26	\$27,406.02
	EXC. TO SUBGRADE	155.0	CY	\$20.00	\$3,100.00				
	HAUL & PLACE FILL	761	CY	\$16.00	\$12,176.00				
	EXC. ABUTMT.S	75	CY	\$15.00	\$1,125.00				
	FILL ABUTMT.S	360	CY	\$25.00	\$9,000.00				
	POROUS BACKFILL	50	CY	\$32.00	\$1,600.00				
				\$27,001.00					
501(1)	CLASS A CONCRETE	160.0	CY	\$766.72	\$125,875.16			\$798.52	\$127,763.28
	SUBSTRUCTURE		CY	\$0.00	\$0.00				
	FORMS	1332.0	SF	\$4.44	\$5,916.79				
	FORM & STRIP	1332.0	SF	\$23.65	\$31,500.97				
	BUY	184.0	CY	\$235.00	\$43,240.00				
	POUR	184.0	CY	\$31.74	\$5,839.39				
	SUPERSTRUCTURE		CY	\$0.00	\$0.00				
	FORMS 4SF/HR	1180.0	SF	\$4.44	\$5,241.60				
	FORM & STRIP	1180.0	SF	\$23.65	\$27,906.26				
	BUY	0.0	CY	\$209.12	\$0.00				
	POUR	0.0	CY	\$31.74	\$0.00				
	FINISH & CURE	1180.0	SF	\$5.28	\$6,230.16				
				\$125,875.16					
501(2)	CLASS A-A CONC.	50.6	CY	\$906.81	\$45,884.59			\$920.41	\$46,572.86
	SUPERSTRUCTURE	50.6	CY	\$0.00	\$0.00				
	FORMS	925.0	SF	\$4.44	\$4,108.88				
	FORM & STRIP	925.0	SF	\$23.65	\$21,875.67				
	BUY	58.2	CY	\$226.32	\$13,169.52				
	POUR	58.2	CY	\$31.74	\$1,846.71				
	FINISH & CURE	925.0	SF	\$5.28	\$4,883.81				
				\$45,884.59					
				\$0.00					
501(7A)	PRECAST CONC. "T"S	6.0	EA	\$59,916.76	\$359,500.59			\$60,815.52	\$364,893.10
	BUY	6.0	EA	\$36,947.00	\$221,682.00				
	HAUL FROM SEATTLE	330.0	TONS	\$210.00	\$69,300.00				
	HAUL ON SITE	6.0	EA	\$2,667.83	\$16,007.00				
	UNLOAD & STAGE ONSITE	6.0	EA	\$1,403.10	\$8,418.59				
	PLACE	6.0	EA	\$4,362.17	\$26,293.00				
	BEARING PADS	12.0	EA	\$325.00	\$3,900.00				
	GROUTS-SHEAR KEY	640.00	LF	\$20.00	\$12,800.00				
	JOINTS-ABUTTMT. SAWED +	2.0	EA	\$550.00	\$1,100.00				
				\$359,500.59					
503(1)	REBAR-SUBSTR.	35000.0	LBS	\$1.25	\$43,661.78			\$1.27	\$44,316.71
	BUY	35000.0	LBS	\$0.44	\$15,400.00				
	HAUL FROM SEATTLE	17.5	TONS	\$210.00	\$3,675.00				
	HAUL TO YARD	35000.0	LBS	\$0.05	\$1,750.00				
	FABRICATE REBAR	35000.0	LBS	\$0.35	\$12,108.11				
	HAUL & PLACE REBAR	35000.0	LBS	\$0.31	\$10,728.67				
				\$43,661.78					
503(2)	EPOXY-REBAR SUPST	16000.0	LBS	\$1.49	\$23,799.67			\$1.51	\$24,156.67
	BUY	16000.0	LBS	\$0.68	\$10,880.00				
	HAUL	8.0	TONS	\$210.00	\$1,680.00				
	HAUL TO YARD	16000.0	LBS	\$0.05	\$800.00				
	FABRICATE REBAR	16000.0	LBS	\$0.35	\$5,535.14				
	HAUL & PLACE REBAR	16000.0	LBS	\$0.31	\$4,904.54				
				\$23,799.67					
				\$0.00					
505(5B)	STEEL PILES-2' dia	1200.0	L.F.	\$118.66	\$142,390.26			\$120.44	\$144,526.11
	BUY -	1200.0	LF	\$111.75	\$134,100.00				
	HAUL FROM SEATTLE	75.4	TONS	\$110.00	\$8,290.26				
				\$142,390.26					
505(6B)	DRIVE PILES	12.0	EA	\$7,218.57	\$86,622.80			\$7,326.85	\$87,922.14
	DRIVE PILES	12.0	EA	\$5,086.67	\$61,040.00				
	SPLICE PILES	24.0	EA	\$1,065.95	\$25,582.80				
	average length =	100.0		\$95,622.80					
507(1)	STEEL BRDG. RAIL	320.0	L.F.	\$130.10	\$41,633.29			\$132.06	\$42,257.79
	BUY	320.0	LF	\$90.00	\$28,800.00				
	HAUL	320.0	LF	\$5.00	\$1,600.00				
	INSTALL	320.0	LF	\$25.72	\$8,231.38				
	GROUTE BASES	40.0	EA	\$75.05	\$3,001.90				
				\$41,633.29					
606(12)	GUARDRAIL/END CONN.	4.0	EA	\$2,300.00	\$9,200.00			\$2,334.50	\$9,338.00
	BUY	4.0	EA	\$900.00	\$3,600.00				
	HAUL	4.0	EA	\$400.00	\$1,600.00				
	INSTALL	4.0	EA	\$1,000.00	\$4,000.00				
				\$9,200.00					
	SUBTOTAL								
	INDIRECT COST	RATE	UNITS	UNIT COST					
	STS		0.01	1	\$18,111.38			\$0.00	\$0.00
	SURVEYING		0	1 S	750.00				\$0.00
	TOTALS							\$7,659.61	\$919,152.67
				1.09636				\$212.77	

ITEM No.	DESCRIPTION	BID QUANTITY	UNIT	UNIT COST	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
2171 SLATE CREEK BRIDGE - 290 FT									
205(3)	FDTN. FILL	1300	CY	\$43.03	\$55,940.00			\$43.68	\$56,779.10
	EXC. TO SUBGRADE	585.0	CY	\$20.00	\$11,700.00				
	HAUL & PLACE FILL	1690	CY	\$16.00	\$27,040.00				
	EXC. ROCK @ ABUTMT.S	0	CY	\$15.00	\$0.00				
	FILL ABUTMT.S	420	CY	\$35.00	\$14,700.00				
	POROUS BACKFILL	50	CY	\$50.00	\$2,500.00				
				\$55,940.00					
501(1)	CLASS A CONCRETE	283.2	CY	\$558.14	\$158,065.38			\$566.51	\$160,436.36
	FORMS 4SF/HR	2386.0	SF	\$4.44	\$10,598.69				
	FORM & STRIP	2386.0	SF	\$23.65	\$56,427.41				
	BUY	325.7	CY	\$209.12	\$68,105.98				
	POUR	325.7	CY	\$31.74	\$10,335.71				
	FINISH & CURE	2386.0	SF	\$5.28	\$12,597.59				
				\$158,065.38					
501(2)	CLASS A-A CONC.	46.0	CY	\$910.37	\$41,877.20			\$924.03	\$42,505.36
	SUPERSTRUCTURE	0.0	CY	\$0.00	\$0.00				
	FORMS	840.0	SF	\$4.44	\$3,731.31				
	FORM & STRIP	840.0	SF	\$23.65	\$19,865.48				
	BUY	52.9	CY	\$226.32	\$11,972.29				
	POUR	52.9	CY	\$31.74	\$1,678.82				
	FINISH & CURE	52.9	SF	\$5.28	\$279.30				
	DRAINS @ PIERS-2 SIDES	6.0	EA	\$725.00	\$4,350.00				
				\$41,877.20	\$0.00				
501(7A)	PRECAST CONC. "T"S	12.0	EA	\$71,450.76	\$857,409.18			\$72,522.53	\$870,270.31
	BUY	12.0	EA	\$44,111.00	\$529,332.00				
	HAUL FROM SEATTLE	894.0	TONS	\$210.00	\$187,740.00				
	HAUL ON SITE	12.0	EA	\$2,667.83	\$32,014.00				
	UNLOAD & STAGE ONSITE	12.0	EA	\$1,403.10	\$16,837.18				
	PLACE	12.0	EA	\$4,382.17	\$52,588.00				
	BEARING PADS	24.0	EA	\$325.00	\$7,800.00				
	GROUT SHEAR KEY	1500.00	LF	\$20.00	\$30,000.00				
	JOINTS-ABUTTMT. SAWED +	2.0	EA	\$550.00	\$1,100.00				
				\$857,409.18	\$0.00				
503(1)	REBAR-SUBSTR.	50633.0	LBS	\$1.25	\$63,163.83			\$1.27	\$64,111.08
	BUY	50633.0	LBS	\$0.44	\$22,278.52				
	HAUL FROM SEATTLE	25.3	TONS	\$210.00	\$5,316.47				
	HAUL TO YARD	50633.0	LBS	\$0.05	\$2,531.65				
	FABRICATE REBAR	50633.0	LBS	\$0.35	\$17,516.28				
	HAUL & PLACE REBAR	50633.0	LBS	\$0.31	\$15,520.71				
				\$63,163.83	\$0.00				
503(2)	EPOXY-REBAR SUPST	19175.0	LBS	\$1.49	\$28,522.42			\$1.51	\$28,950.25
	BUY	19175.0	LBS	\$0.68	\$13,039.00				
	HAUL	9.6	TONS	\$210.00	\$2,013.38				
	HAUL TO YARD	19175.0	LBS	\$0.05	\$958.75				
	FABRICATE REBAR	19175.0	LBS	\$0.35	\$6,633.51				
	HAUL & PLACE REBAR	19175.0	LBS	\$0.31	\$5,877.78				
				\$28,522.42	\$0.00				
505(5A)	STEEL PILES-HP14x117	788.0	L.F.	\$82.85	\$65,285.05			\$84.09	\$66,264.33
	BUY -	788.0	L.F.	\$70.50	\$55,554.00				
	HAUL FROM SEATTLE	46.3	TONS	\$210.00	\$9,731.05				
				\$0.00	\$0.00				
				\$65,285.05	\$0.00			\$0.00	\$0.00
505(5B)	STEEL PILES-2' dia		L.F.		\$0.00			\$0.00	\$0.00
	BUY - AVE. 47' LONG	0.0	LF	\$125.00	\$0.00				
	HAUL FROM SEATTLE	0.0	TONS	\$550.00	\$0.00				
				\$0.00	\$0.00				
505(5C)	STEEL PILES-4' dia	296.4	L.F.	\$547.93	\$162,407.53			\$556.15	\$164,843.65
	BUY -	296.4	LF	\$520.30	\$154,216.92				
	HAUL FROM SEATTLE	74.5	TONS	\$110.00	\$8,190.61				
				\$162,407.53	\$0.00				
505(6A)	DRIVE PILES-HP14x117	6.0	EA	\$3,609.28	\$21,655.70			\$3,663.42	\$21,980.54
	DRIVE PILES	6.0	EA	\$2,543.33	\$15,260.00				
	SPLICE PILES	6.0	EA	\$1,085.95	\$6,395.70				
	average length =	49.4		\$21,655.70	\$1,069,791.58				
505(6C)	DRIVE PILES-4FT	6.0	EA	\$5,875.88	\$35,255.28			\$5,964.02	\$35,784.11
	DRIVE PILES	6.0	EA	\$3,744.00	\$22,464.00				
	SPLICES PILES	6.0	EA	\$2,131.88	\$12,791.28				
	average length =	49.4	LF	\$0.00	\$0.00				
				\$35,255.28	\$0.00				
507(1)	STEEL BRDG. RAJL	660.0	L.F.	\$131.41	\$86,731.71			\$133.38	\$88,032.68
	BUY	660.0	LF	\$90.00	\$59,400.00				
	HAUL	660.0	LF	\$5.00	\$3,300.00				
	INSTALL	660.0	LF	\$25.72	\$16,977.23				
	GROUT BASES	94.0	EA	\$75.05	\$7,054.48				
		0.0	CY	\$86,731.71	\$0.00				
606(12)	GUARDRAIL/END CONN.	4.0	EA	\$2,300.00	\$9,200.00			\$2,334.50	\$9,338.00
	BUY	4.0	EA	\$900.00	\$3,600.00				
	HAUL	4.0	EA	\$400.00	\$1,600.00				
	INSTALL	4.0	EA	\$1,000.00	\$4,000.00				
				\$9,200.00	\$0.00				
611(1)	RIPRAP CL. II	0.0	CY	\$0.00	\$0.00			\$0.00	\$0.00
	EXC. FOR R.R.	0.0	CY	\$0.00	\$0.00				
	HAUL	0.0	CY	\$0.00	\$0.00				
	PLACE R.R.	0.0	TONS	\$0.00	\$0.00				
				\$0.00	\$0.00				
631(2)	GEO. EROSION CONT	0.0	SY	\$0.00	\$0.00			\$0.00	\$0.00
	BUY	0.0	SY	\$0.00	\$0.00				
	PLACE	0.0	SY	\$0.00	\$0.00				
	SUBTOTAL							\$0.00	\$0.00
	INDIRECT COST							\$0.00	\$0.00
	STS							\$0.00	\$0.00
TOTALS					\$42,408.18				
		1.09536							

COST / ZONE		TOTAL COST:
ZONE I - COST IS 4 BR	ZONE II - COST IS 4 BR	ROAD LENGTH   BRDG. COST/MILE
\$3,484,123.23	\$40,579,058.11	9.8   \$355,522.78
	\$1,609,295.77	3.4   \$11,935,016.50
		10.1   \$159,336.21
\$45,672,475.10		





PILE DRIVING -2' DIA  
 QUANTITY 12 ABUT. 0.00  
 T.O. QTY 0  
 THICK. 2'

	No. MEN	No. EQUIP.	DESCRIPTION	RENT	EQUIP. OPER COST	MATL. COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY
	1	1	4MAN W/PICKUP	\$8.00	\$12.00	\$0.00	\$58.50	\$0.00	\$78.50
	1	1	CRANE	\$185.00	\$65.00	\$20.00	\$56.00	\$0.00	\$326.00
	0	0	OILER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	2	1	PILE BUCKS	\$0.00	\$0.00	\$20.00	\$108.00	\$0.00	\$128.00
	0	1	VIBR. HAMMER	\$110.00	\$20.00	\$0.00	\$0.00	\$0.00	\$130.00
	1	1	45T CRANE	\$60.00	\$35.00	\$0.00	\$58.00	\$0.00	\$151.00
	1	1	CRW. TRK	\$12.00	\$15.00	\$0.00	\$54.00	\$0.00	\$86.00
	0	12	MUD MATS	\$96.00	\$48.00	\$0.00	\$0.00	\$0.00	\$144.00
	1	1	LULL	\$33.00	\$25.00	\$0.00	\$54.00	\$0.00	\$112.00
	1	1	SERVICE/MECH	\$25.00	\$25.00	\$10.00	\$55.00	\$0.00	\$115.00
	0.5	0.5	TRK & TRAILER	\$25.00	\$15.00	\$0.00	\$27.50	\$0.00	\$67.50
T./LD.	14								
MINUTES	8.5		TOT HRLY COST	\$554.00	\$260.00	\$55.00	\$469.00	\$0.00	\$1,338.00
LOAD	8	CRWHR	44	TOT COST	\$2,420.00	\$20,638.00	\$23,058.00	\$0.00	\$32,560.00
GO	35	EQ HRS	40						
D. TRK	8			\$22,160.00	\$10,400.00	\$0.00	\$0.00	\$0.00	\$0.00
D. TRLR	0			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RETURN	30	4 HRS	MOVE BETW. #	1994	924	39	2380	\$0.00	\$5,424.00
WAIT	0								
TOTAL	81	0	\$80.00 TRUCKING					\$0.00	\$0.00
LD/HR/TRI	0.666667		0.032143 NO. TRKS						\$0.00
TPH/TRK	9.333333		0 ADJ NO. TRKS						\$0.00

CREW TIM	QTY	HRS	TOT COST	UNIT COST	TRKNG COST/TON	PRODUCTION RATES	QUANTITY	RATE	HOURS	PIERS	AVG TONS/HOUR
MOB	4	4	\$24,124.00	\$2,010.33	\$0.00	6 EA	0.3 H/E	20.00	20.00	0.00	\$2,543.33
1-ABUT	6.00	20	\$11,324.00	\$2,576.00	\$214.67	6 EA	0.3 H/E	20.00	20.00	0.00	\$2,543.33
2-ABUT	6	20	\$943.67	\$214.67	\$0.00	0 T.	45 H/E	0.00	0.00	0.00	\$2,543.33
PIER	0	0				0	4	0.00	0.00	0.00	\$2,543.33
CLEANUP	0	0				0	2	0.00	0.00	0.00	\$2,543.33
TOTAL	44	44				0	600	0.00	0.00	0.00	\$2,543.33
ADJ CREW HOUR	44										\$2,543.33
ADJ EQ HOURS =	40										\$2,543.33

PILE DRIVING - 4' DIA		ABUT.		PIERS					
QUANTITY	51	0	0	51.00	4				
T.O. QTY	0	0	0						
THICK.	0	0	2'						
	No. MEN	No. EQUIP.	DESCRIPTION	RENT	EQUIP. OPER COST	MATL. COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY
	1	1	4MAN W/PICKUP	8.00	12	\$0.00	\$58.50	0	\$78.50
	1	1	CRANE	\$185.00	65	\$0.00	\$56.00	0	\$326.00
	0	0	OILER	\$0.00	0	\$0.00	\$0.00	0	\$0.00
	2	2	PILE BUCKS	\$0.00	0	\$0.00	\$0.00	0	\$0.00
	0	0	HAMMER	\$110.00	35	\$0.00	\$108.00	0	\$128.00
	1	1	45T CRANE	\$60.00	35	\$0.00	\$0.00	0	\$145.00
	1	1	CRW TRK	\$12.00	15	\$0.00	\$56.00	0	\$151.00
	0	12	MUD MATS	\$96.00	4	\$5.00	\$54.00	0	\$96.00
	1	1	LULL	\$33.00	25	\$0.00	\$0.00	0	\$144.00
	1	1	TRK & TRAILER	\$50.00	30	\$0.00	\$54.00	0	\$112.00
	0.5	0.5	SERVICE/MECH	\$12.50	25	\$5.00	\$27.50	0	\$135.00
T.J.D.	14								\$57.50
MINUTES	8.5			\$566.50	\$277.50	\$50.00	\$489.00	\$0.00	\$1,363.00
LOAD	8	CRWHR	442	TOT HRLY COST		\$22,100.00	\$207,298.00	\$0.00	\$229,398.00
GO	35	EQ HRS	395			\$0.00	\$0.00	\$0.00	\$333,360.00
D.TRK	8			\$223,767.50	\$109,612.50	\$0.00	\$0.00	\$0.00	\$0.00
D.TRLR	0			\$0.00	\$0.00	\$156.00	2380	\$0.00	\$0.00
RETURN	30	4 HRS	MOVE BETW.	1964 ##	984 39	\$0.00	\$0.00	\$0.00	\$5,484.00
WAIT	0	0				\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	81	0	\$80.00	TRUCKING		\$0.00	\$0.00	\$0.00	\$0.00
LD/HR/TRK	0.666667		0.0289	NO. TRKS					\$0.00
TPH/TRK	9.333333		0	ADJ. NO. TRKS					\$0.00

TOT COST		UNIT COST		TRKNG COST/TON=		
\$225,731.50	\$4,426.11	\$0.00				
CREW TIN	QTY	HRS	PRODUCTION RATES	QUANTITY	RATE	HOURS
1-ABUT	57.00	285	1-ABUT	57 EA	0.2 H/E	285.00
2-ABUT	0	0	2-ABUT	0 EA	0.35 H/E	0.00
PIER	51.00	102	PIER	51.00 T.	0.5 H/E	102.00
CLEANUP	0	0		0	4	0.00
	0	0		0	2	0.00
	0	0		0	600	0.00
TOTAL	442					
ADJ CREW HOUR	442					
ADJ EQ HOURS =	395					
			AVG TONS/HOUR =	0.279068767		

YARD ASSEMBLE REBAR  
 QUANTITY 42550  
 T.O. QTY 0  
 THICK. 0 2' 4

	No. MEN	No. EQUIP.	DESCRIPTION	RENT	EQUIP. OPER. COST	MAIL COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY
ABUT.	875		PILES & CAPS	40800.00					
CRANE	0	0	4MAN W/PICKUP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CRANE	0	0	CRANE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CRANE	0	0	OILER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
IRONWORKERS	4	1	IRONWORKERS	\$0.00	\$0.00	\$40.00	\$216.00	\$0.00	\$256.00
CONC. PUMP	0	0	CONC. PUMP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
45T CRANE	0	0	45T CRANE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CRW. TRK	0	1	CRW. TRK	\$12.00	\$15.00	\$0.00	\$0.00	\$0.00	\$27.00
MUD MATS	0	0	MUD MATS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LULL	1	1	LULL	\$0.00	\$0.00	\$0.00	\$54.00	\$0.00	\$54.00
TRK & TRAILER	0	0	TRK & TRAILER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CONC. TRKS	0	0	CONC. TRKS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
T./LD.	14								
MINUTES	5		TOT HRLY COST	\$12.00	\$15.00	\$40.00	\$270.00	\$0.00	\$337.00
LOAD	8	CRWHR	44	TOT COST	\$480.00	\$1,760.00	\$11,880.00	\$0.00	\$13,640.00
GO	35	EQ HRS	40						\$1,080.00
D.TRK	8								\$0.00
D.TRLR	0	0.00							\$0.00
RETURN	30	0 HRS	MOVE BETW. #	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WAIT	0	0		0 #	0 39	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	81	0	\$80.00 TRUCKING			\$0.00	\$0.00	\$0.00	\$0.00
LD/HR/TRI	0.666667		113.7447 NO. TRKS						\$0.00
TPH/TRK	9.333333		0 ADJ. NO. TRKS						\$0.00

	TOT COST	UNIT COST	TRKNG COST/TONE	PRODUCTION RATES	QUANTITY	RATE	HOURS	PER LB
1-ABUT	\$480.00	\$0.01	\$0.00	160 H/E	875 #	160 H/E	5.47	
2-ABUT	\$0.00			160 H/E	875 #	160 H/E	5.47	
PIER				1400 H/E	40800.00 #	1400 H/E	29.14	
CLEANUP				4	0	4	0.00	
				2	0	2	0.00	
				600	0	600	0.00	
TOTAL	\$480.00	\$0.01	\$0.00					
ADJ CREW HOUR	44.0884							
ADJ EQ HOURS =	40							
AVG TONS/HOUR =	1061.617287							



UNLOAD & STORE Bulb - "T"  
 QUANTITY 51 0 0 0  
 T.O. QTY 0 0 0 0  
 THICK 0 0 0 0

No.	No. MEN	Eq.	DESCRIPTION	WP Co. RENT	EQUIP. OPER COST	MATL. COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY
0	0	0	4MAN W/PICKUP	10	\$0.00 15	\$0.00 0	\$0.00 0	\$0.00 0	\$0.00
2	2	2	CRANE	45	\$90.00 0	\$0.00 56	\$112.00 0	\$0.00 0	\$512.00
1	1	0	OILER	0	\$0.00 0	\$2.00 53	\$2.50 0	\$0.00 0	\$54.50
4	4	1	PILE BUCKS	0	\$0.00 0	\$40.00 54	\$216.00 0	\$0.00 0	\$256.00
2	2	2	TRACTOR	35	\$70.00 25	\$0.00 0	\$100.00 0	\$0.00 0	\$220.00
2	2	2	STEERING TRLR	15	\$30.00 8	\$16.00 0	\$112.00 0	\$0.00 0	\$158.00
0	0	1	CRW. TRK	12	\$20.00 5	\$0.00 54	\$0.00 0	\$0.00 0	\$32.00
0	0	0	MUD MATS	8	\$0.00 4	\$0.00 50	\$0.00 0	\$0.00 0	\$0.00
2	2	2	LIGHT PLANTS	15	\$16.00 5	\$0.00 54	\$0.00 0	\$0.00 0	\$46.00
				5	\$0.00 5	\$0.00 55	\$0.00 0	\$0.00 0	\$0.00
				5	\$0.00 5	\$0.00 55	\$0.00 0	\$0.00 0	\$0.00
T./L.D.	23								
MINUTES	11		TOT HRLY COST	\$438.00	\$206.00	\$42.00	\$592.50	\$0.00	\$1,278.50
LOAD	8	CRWHR	60	TOT COST	\$2,520.00	\$35,550.00	\$0.00	\$0.00	\$38,070.00
GO	25	EQ HRS	52		\$10,712.00	\$0.00	\$0.00	\$0.00	\$33,488.00
D. TRK	8			\$22,776.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
D. TRLR	8			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RETURN	22	0 HRS	MOVE BETW. #	0 ##	0 19	\$0.00 ##	\$0.00	\$0.00	\$0.00
WAIT	0	0				\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	71	0	\$80.00 TRUCKING			\$0.00	\$0.00	\$0.00	\$0.00
LD/HR/TRI	0.760563		0.057166 NO. TRKS						\$0.00
TPH/TRK	17.49296		0 ADJ NO. TRKS						\$0.00

CREW TIM	QTY	HRS	TOT COST	UNIT COST	TRKNG COST/TON	PRODUCTION RATES	QUANTITY	RATE	HOURS	TOTAL
MOB	5.1	5.1	\$22,776.00	\$446.59	\$10,712.00	1 T.	51 T.	1 T/H	51.00	\$71,553.00
1-LIFT	5.1	5.1	\$446.59	\$0.00	\$210.04	0 T.	0 T.	90 T/H	0.00	\$1,403.10
2-LIFT	0	0	\$0.00	\$0.00		0 T.	0 T.	0.1 T/H	0.00	
TOP	0	0				0	0	0.1	0.00	
FLARE	0	0				0	0	0.1	0.00	
D/W	0	0				0	0	0.1	0.00	
FABRIC	0	0				0	0	0.1	0.00	
CLEANUP	0	0				0	0	0.1	0.00	
TOTAL	56.1	56.1				1	1			
ADJ CREW HOUR	60									
ADJ EQ HOURS =	52									

SETTING BEAMS		T		baselit					
QUANTITY	T.O. CITY	0	0	0	0				
THICK		0	0	0	0				
No. MEN	No. EQUIP.	DESCRIPTION	WP Co. RENT	EQUIP. OPER COST	MATL. COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY	
1	1	4MAN W/PICKUP	\$10.00	\$15.00	\$0.00	\$58.50	\$0.00	\$83.50	
2	0	CRANE	\$370.00	\$130.00	\$0.00	\$112.00	\$0.00	\$612.00	
0	0	OILER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
4	1	PILE BUCKS	\$0.00	\$0.00	\$40.00	\$216.00	\$0.00	\$256.00	
0	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
0	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
0	1	CRW. TRK	\$12.00	\$20.00	\$0.00	\$0.00	\$0.00	\$32.00	
0	12	MUD MATS	\$96.00	\$48.00	\$0.00	\$0.00	\$0.00	\$144.00	
0	8	LIGHT PLANTS	\$16.00	\$30.00	\$0.00	\$0.00	\$0.00	\$46.00	
2	5		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
5	5		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
23	7		\$504.00	\$243.00	\$40.00	\$386.50	\$0.00	\$1,173.50	
MINUTES	8 CRWHR	20 TOT COST	\$800.00	\$4,131.00	\$0.00	\$7,730.00	\$0.00	\$8,530.00	
LOAD GO	25 EQ HRS		\$8,568.00		\$0.00			\$12,699.00	
D. TRK	8		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
D. TRLR	8		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
RETURN	22	4 HRS MOVE BETW.	1024 #	624 19	\$76.00	2380		\$4,104.00	
WAIT	0				\$0.00			\$0.00	
TOTAL	71	12 \$80.00 TRUCKING			\$0.00		\$960.00	\$960.00	
LD/HR/TRK	0.760563	0.022866 NO. TRKS						\$0.00	
TPH/TRK	17.49296	0 ADJ. NO. TRKS						\$0.00	
CREW TIM	QTY	HRS	TOT COST	UNIT COST	TRKNG COST/TON#	PRODUCTION RATES	QUANTITY	RATE	HOURS
MOB	2	2	\$9,592.00	\$4,755.00	\$792.50	6 T.	0.4 T/H		15.00
1-LIFT	6	15	\$1,598.67			0 T.	90 T/H		0.00
2-LIFT	0	0	\$160.00			0 T.	0.1 T/H		0.00
TOP	0	0				0	0.1		0.00
FLARE	0	0				0	0.1		0.00
D/W	0	0				0	0.1		0.00
FABRIC	0	0				0	0.1		0.00
CLEANUP	0	0				0	0.1		0.00
TOTAL	17	20							0.4
ADJ CREW HOUR	20								
ADJ EQ HOURS =	17								



FINISH - POINT & PATCH SF SF  
 QUANTITY 2920 1930 990  
 T.O. QTY 0 0 0  
 THICK. 0 0 0

	No.	No.	WP Co.	EQUIP.	OPER.	MATL.	LABOR	TRUCKING	TOTAL
	MEN	EQUIP.	RENT	OPER.	COST	COST	COST	O/S RENT	HOURLY
	0.5	0	\$5.00	15	\$7.50	\$0.00	\$29.25	0	\$41.75
	0	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00
	0	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00
	4	1	\$0.00	0	\$0.00	\$40.00	\$216.00	0	\$256.00
	0	0	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00
	1	1	\$0.00	0	\$0.00	\$0.00	\$0.00	0	\$0.00
	1	1	\$12.00	20	\$20.00	\$5.00	\$54.00	0	\$91.00
	0	0	\$0.00	4	\$0.00	\$0.00	\$0.00	0	\$0.00
	0	0	\$0.00	25	\$0.00	\$0.00	\$0.00	0	\$0.00
	2	2	\$20.00	15	\$30.00	\$0.00	\$0.00	0	\$50.00
			\$0.00	5	\$0.00	\$0.00	\$0.00	0	\$0.00
T./LD.	23		\$37.00		\$57.50	\$45.00	\$298.25		\$488.75
LOAD	8	CRWHR					\$10,773.00		\$12,393.00
GO	25	EQ HRS	\$1,184.00		\$1,840.00	\$0.00			\$3,024.00
D/TRK	8					\$0.00	\$0.00		\$0.00
D/TRLR	8					\$0.00	\$0.00		\$0.00
RETURN	22	0 HRS	\$0.00	0' 84"	\$0.00	\$0.00	\$0.00		\$0.00
WAIT	0	0		0' 19"	\$0.00	\$0.00	\$0.00		\$0.00
TOTAL	71	0	\$80.00			\$0.00	\$0.00		\$0.00
LD/HRT/RI	0.760583	5.106157	NO. TRKS						\$0.00
TPH/TRK	17.48296	0	ADJ. NO. TRKS						\$0.00

	TOT COST	UNIT COST	TRNG COST/TONE	PRODUCTION RATES	QUANTITY	RATE	HOURS	AVG TONS/HOUR
CREW TIM	2,031,579	2,031.58		PT. PATCH	1930 T.	95 S/F	20.32	89.32179513
MOB	1930	20,315.8		STRIP	990 T.	80 T/F	12.38	
1-LIFT	990	12,375		TOP	0 T.	0.1 T/F	0.00	
2-LIFT				FLARE	0	0.1	0.00	
TOP				D/W	0	0.1	0.00	
FLARE				FABRIC	0	0.1	0.00	
D/W								
FABRIC								
CLEANUP								
TOTAL	34,7224							
ADJ CREW HOUR	36							
ADJ EQ HOURS	32							



POUR CONCRETE		TYPICAL BRIDGE															
QUANTITY	176	130	46														
T.O. QTY	0	0	0														
THICK.	0	0	0														
No.	No.	WP Co.	EQUIP.	DESCRIPTION	RENT	OPER COST	MAIL COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY							
1	1		4MAN W/PICKUP	12	\$12.00	\$15.00	\$0.00	\$58.50	\$0.00	\$85.50							
0.5	0.5		45 TON	60	\$30.00	\$40.00	\$0.00	\$28.00	\$0.00	\$78.00							
0	0		OILER	0	\$0.00	\$0.00	\$1.00	\$26.25	\$0.00	\$27.25							
0	1		LABORERS	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
0	2		CONC. VIBRA	15	\$30.00	\$15.00	\$0.00	\$0.00	\$0.00	\$60.00							
0	1		GEN	12	\$12.00	\$15.00	\$0.00	\$0.00	\$0.00	\$27.00							
0	1		CRW. TRK	12	\$12.00	\$20.00	\$0.00	\$0.00	\$0.00	\$32.00							
3	3		CONC. FINISH	8	\$0.00	\$0.00	\$24.00	\$150.00	\$0.00	\$174.00							
1	1		CONC. PUMP	25	\$25.00	\$25.00	\$0.00	\$54.00	\$0.00	\$104.00							
1	1		LIGHT PLANTS	10	\$10.00	\$15.00	\$0.00	\$0.00	\$0.00	\$25.00							
23	23			5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
T.A.D.	MINUTES	6	CRWHR	8	\$131.00	\$140.00	\$25.00	\$316.75	\$0.00	\$612.75							
LOAD	GO	25	EQ HRS	8	\$1,048.00	\$1,120.00	\$250.00	\$3,187.50	\$0.00	\$3,417.50							
D. TRK	D. TRLR	8			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
RETURN	WAIT	22	0 HRS	MOVE BETW.	#	0	\$0.00	\$0.00	\$0.00	\$0.00							
		0	0	\$0.00	0	33	\$0.00	\$0.00	\$0.00	\$0.00							
		0	0	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00							
TOTAL		71	0	\$80.00	TRUCKING			\$0.00	\$0.00	\$0.00							
LD/HR/TRI	0.760663	1.341492	NO. TRKS														
TPH/TRK	17.49296	0	ADJ. NO. TRKS														

CREW TIME		MOB		1-LIFT		2-LIFT		TOP		FLARE		D/W		FABRIC		CLEANUP		TOTAL	
QTY	0.9375	130	5.20	46	2.3	0	0	0	0	0	0	0	0	0	0	0	0	8.4375	
HRS	0.9375	130	5.20	46	2.3	0	0	0	0	0	0	0	0	0	0	0	0	8.4375	
ADJ CREW HOUR	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
ADJ EQ HOURS =	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
TOT COST	\$1,048.00	\$1,120.00	\$6.36	\$250.00	\$1.42	\$3,187.50	\$18.00	\$5,685.50	\$0.00	\$3,174									
UNIT COST	\$5.95	\$6.36		\$1.42		\$18.00		\$5,685.50		\$31.74									
TRKNG COST/TON =																			
PRODUCTION RATES	QUANTITY	130 T.	46 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.	0 T.
CLASS A	RATE	25 S/H	20 T/H	0.1 T/H	0.1 T/H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
CLASS A-A	HOURS	5.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP																			
FLARE																			
D/W																			
FABRIC																			
CLEANUP																			
TOTAL	8.4375	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667	23.46666667

PILE CUT & SPLICING

QUANTITY 234 0 234 333.00  
 T.O. QTY 0 0 2' DIA 4 FT. DIA.  
 THICK.

No.	EQIP.	DESCRIPTION	No.	RENT	EQUIP. OPER COST	MATL. COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY
0.5	4MAN W/PICKUP	8	\$4.00	12	\$6.00	0	\$29.25	0	\$39.25
0.25	CRANE	0	\$46.25	65	\$16.25	20	\$14.00	0	\$81.50
0.25	OILER	0	\$0.00	0	\$0.00	2	\$13.13	0	\$13.63
4	PILE BUCKS	0	\$0.00	0	\$0.00	10	\$216.00	0	\$256.00
0	WELDER	45	\$180.00	20	\$80.00	15	\$0.00	0	\$320.00
0	45T CRANE	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
1	CRW TRK	12	\$12.00	15	\$15.00	5	\$54.00	0	\$86.00
0	MUD MATS	8	\$0.00	4	\$0.00	2	\$0.00	0	\$0.00
0	LULL	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
0.5	SERVICE/MECH	25	\$6.25	25	\$6.25	10	\$27.50	0	\$45.00
0.5	SERVICE/MECH	5	\$0.00	5	\$0.00	0	\$0.00	0	\$0.00
T./LD. 14									
6.5	CRWHR	8	\$248.50	123.50	\$115.50	0	\$353.88	\$0.00	\$841.38
35	EQ HRS	380	TOT HRLY COST		\$43,890.00		\$134,472.50	\$0.00	\$178,362.50
8	TRK	332	\$82,502.00	\$41,002.00	\$0.00	\$0.00	\$0.00	\$0.00	\$123,504.00
0	D.TRLR	0	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00	\$0.00
30	RETURN	0	0 HRS	0 ##	0 54	0 ##	\$0.00	0	\$0.00
0	WAIT	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
234		0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
81	TOTAL	0	\$80.00	TRUCKING	\$0.00		\$0.00		\$0.00
LD/HR/TRI	0.686667	0.080257	NO. TRKS						
TPH/TRK	9.333333	0	ADJ. NO. TRKS						

CREW TIN	QTY	HRS	TOT COST	UNIT COST	TRKNG COST/TON=	PRODUCTION RATES	QUANTITY	RATE	HOURS
MOB	58.5	187.2	\$82,502.00	\$352.57	\$0.00	234 EA	333.00	1.25 H/E	187.20
2-ABUT	6	133.2	\$0.00	\$0.00	\$0.00	0 T.	0	2.5 H/E	133.20
PIER	0	0	\$0.00	\$0.00	\$0.00	0	0	45 H/E	0.00
CLEANUP	0	0	\$0.00	\$0.00	\$0.00	0	0	4	0.00
TOTAL	378.9	380	\$82,502.00	\$352.57	\$0.00	0	0	2	0.00
ADJ CREW HOUR	380		\$41,002.00	\$175.22	\$187.56			600	
ADJ EQ HOURS =	332		\$134,472.50	\$74.67					
AVG TONS/HOUR = 0.74806367									
2 ft dia 1 man 5 hrs to weld with 4 men = 1.25 hrs/ea									
4 ft dia 1 man 10 hrs to weld w/ 4 men = 2.5 hrs/ea									
2 FT									
4 FT									
\$1,065.95									
\$2,131.88									

BATCH & DELIVER CONCRETE  
 QUANTITY = CY 176  
 QUANTITY = TONS 352  
 THICK. 0 130 46  
 0 0 0  
 0 0 0

No.	Men	Equip.	Description	WP Co. Rent	Equip. Oper Cost	Matl. Cost	Labor Cost	Trucking O/S Rent	Total Hourly
1	1	1	PLANT & OPER	\$85.00	\$50.00	\$0.00	\$58.50	\$0.00	\$193.50
0	1	1	GENERATOR	\$30.00	\$40.00	\$0.00	\$0.00	\$0.00	\$70.00
1	1	1	HOT WATER	\$30.00	\$20.00	\$0.00	\$0.00	\$0.00	\$50.00
1	1	1	LABORER	\$0.00	\$0.00	\$15.00	\$4.00	\$0.00	\$69.00
1	1	1	LOADER	\$55.00	\$45.00	\$0.00	\$50.00	\$0.00	\$150.00
0	0	1	CRW. TRK	\$12.00	\$20.00	\$0.00	\$0.00	\$0.00	\$32.00
0	0	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	0	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	1	1	LGHT PLANTS	\$10.00	\$15.00	\$0.00	\$0.00	\$0.00	\$25.00
0	0	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8	3	8	TOT HRLY COST	\$222.00	\$190.00	\$15.00	\$162.50	\$0.00	\$589.50
LOAD	8	CRWHR	14	TOT COST	\$2,280.00	\$210.00	\$2,275.00	\$0.00	\$2,485.00
GO	25	EQ HRS	12						\$4,944.00
D. TRK	0			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
D. TRLR	0			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RETURN	22			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$880.00
WAIT	0			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	63			\$2,280.00	\$210.00	\$22,176.00	\$2,800.00	\$2,800.00	\$33,520.00
LD/HR/TRI	0.857143					\$3,520.00			\$2,800.00
TPH/TRK	6.857143								\$0.00

CREW TYP	QTY	HRS	TOT COST	UNIT COST	TRKNG COST/TON	ADDED CEMENT FOR "A-A" CONCRETE	PRODUCTION RATES QUANTITY	RATE	HOURS	TONS
MOB	1.5625	1.5625	\$2,664.00	\$15.14	\$15.91		17		8.67	73.92
1-LIFT	130	8.67	\$2,280.00	\$12.95			15 CY		3.83	36.96 #/
2-LIFT	46	3.83333	\$15.91				12 CY		0.00	140.8 #/
TOP	0	0					0.1 TH		0.00	281.6
FLARE	0	0					0.1		0.00	
D/W	0	0					0.1		0.00	
FABRIC	0	0					0.1		0.00	
CLEANUP	0	0					0.1		0.00	
TOTAL	14.0625	14.0625	\$2,664.00	\$15.14	\$15.91				8.67	73.92
ADJ CREW HOUR	14								0.21	36.96 #/
ADJ EQ HOURS =	12								0.8	140.8 #/
										177.76 CY
										\$55.52 T

CONCRETE FORMS - SAW YARD & ASSEMBLY  
 QUANTITY 1600 0 1600 0  
 T.O. QTY 0 0 0 0  
 THICK 0 0 0 0

	No. MEN	No. EQUIP.	DESCRIPTION	WP Co. RENT	EQUIP. OPER COST	MATL COST	LABOR COST	TRUCKING O/S RENT	TOTAL HOURLY
	1	1	4MAN WIPICKUP	\$8.00	\$12.00	0	\$58.50	0	\$78.50
	0	1	SAWS	\$12.00	12	8	\$0.00	0	\$24.00
	3	1	GENERATOR	\$20.00	15	2	\$0.00	0	\$35.00
	0	1	CARPENTERS	\$5.00	5	5	\$162.00	0	\$187.00
	1	1	LULL	\$0.00	0	0	\$0.00	0	\$0.00
	0	1	CRW.TRK	\$33.00	25	0	\$0.00	0	\$114.00
	0	1		\$12.00	20	8	\$0.00	0	\$32.00
	0	0		\$0.00	4	0	\$0.00	0	\$0.00
	0	0		\$0.00	25	8	\$0.00	0	\$0.00
	1	1	LGHT PLANTS	\$10.00	15	0	\$0.00	0	\$25.00
	0	0		\$0.00	5	0	\$0.00	0	\$0.00
CY/ID	8			\$100.00	\$104.00	\$15.00	\$276.50	\$0.00	\$485.50
LOAD	8	CRWHR	15	TOT HRLY COST			\$4,147.50	\$0.00	\$4,372.50
GO	25	EQ HRS	13		\$1,352.00	\$225.00			\$2,652.00
D.TRK	8				\$0.00	\$0.00	\$0.00		\$0.00
D.TRLR	0				\$0.00	\$0.00	\$0.00		\$0.00
RETURN	22	\$6.00	BUY 2 X 4	0	##	##	\$0.00	0	\$1,650.00
WAIT	0	50	\$45.00	BUY PLYWOOD	0	##	\$2,250.00		\$2,250.00
	0	50	\$5.00	BUY SUPPLIES	0	##	\$250.00		\$250.00
TOTAL	63	0	\$100.00	TRUCKING			\$0.00		\$0.00
LD/HR/TRI	0.857143	18.66667	NO. TRKS				\$0.00		\$0.00
TPH/TRK	6.857143	0	ADJ NO. TRKS				\$0.00		\$0.00

	CREW TIM	QTY	HRS	TOT COST	UNIT COST	PRODUCTION RATES	QUANTITY	RATE	HOURS	MINOR REPAIRS =	CLEAN & OIL AFTER =
MOB	1.5625	1600	12.50	\$1,300.00	\$0.81	PLY FORMS	1800 T.	128 S/H	12.50		
1-LIFT	0	0	0	\$0.00	\$0.00		0 T.	16 T/H	0.00		
2-LIFT	0	0	0				0 T.	0.1 T/H	0.00		
TOP	0	0	0				0	0.1	0.00		
FLARE	0	0	0				0	0.1	0.00		
D/W	0	0	0				0	0.1	0.00		
FABRIC	0	0	0				0	0.1	0.00		
CLEANUP	0	0	0				0	0.1	0.00		
TOTAL	14.0625										
ADJ CREW HOUR	15						128	PLYWOOD =	32 SF		50 EA
ADJ EQ HOURS =	13						2X4		5.5 E		275 EA
				\$4,375.00	\$2.73						
				\$4,147.50	\$2.59						
				\$0.00	\$0.00						
				\$11,174.50	\$6.98						
											\$1.25
											\$0.65
											\$8.88
											\$4.44



INSTALL BRAILING

QUANTITY 260 baselift  
 T.O. QTY 0  
 THICK. 0

No.	Men	Equip.	Description	W/P Co. Rent	Equip. Oper Cost	Matl. Cost	Labor Cost	Trucking O/S Rent	Total Hourly
0	0	0	4MAN W/PICKUP	\$0.00 15	\$0.00 0	\$0.00 59	\$0.00 0	\$0.00 0	\$0.00
1	1	1	BOOMTRK	\$50.00 25	\$25.00 0	\$0.00 56	\$56.00 0	\$0.00 0	\$131.00
2	0	0	LABORERS	\$0.00 0	\$0.00 2	\$4.00 50	\$100.00 0	\$0.00 0	\$104.00
1	1	1	CREW TRK	\$15.00 12	\$12.00 10	\$0.00 54	\$0.00 0	\$0.00 0	\$27.00
0	0	0		\$0.00 25	\$0.00 0	\$0.00 50	\$0.00 0	\$0.00 0	\$0.00
15	0	0		\$0.00 8	\$0.00 0	\$0.00 56	\$0.00 0	\$0.00 0	\$0.00
12	0	0		\$0.00 20	\$0.00 5	\$0.00 54	\$0.00 0	\$0.00 0	\$0.00
8	0	0		\$0.00 4	\$0.00 2	\$0.00 50	\$0.00 0	\$0.00 0	\$0.00
1	1	1	LIGHT PLANTS	\$8.00 15	\$15.00 0	\$0.00 54	\$0.00 0	\$0.00 0	\$23.00
5	0	0		\$0.00 5	\$0.00 0	\$0.00 55	\$0.00 0	\$0.00 0	\$0.00
5	0	0		\$0.00 5	\$0.00 0	\$0.00 26	\$0.00 0	\$0.00 0	\$0.00
PR/LD.	1								
MINUTES	3		TOT HRLY COST	\$73.00	\$52.00	\$4.00	\$156.00	\$0.00	\$285.00
LOAD	45	CR/HR	12	TOT COST		\$48.00	\$1,872.00	\$0.00	\$1,920.00
GO	30	EQ HRS	10						\$1,250.00
D.TRK	8								
D.TRLR	0								
RETURN	22	4 HRS	MOVE BETW. #	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WAIT	0	330	\$0.00 FREIGHT SEATTLE TO JOB	652 #	536 19	\$76.00 #	\$0.00	\$0.00	\$3,518.00
TOTAL	105	0	\$80.00 TRUCKING			\$0.00	\$0.00	\$0.00	\$0.00
LD/HR/TRI	0.514286		48.61111 NO TRKS					\$0.00	\$0.00
TPH/TRK	0.514286		0 ADJ NO. TRKS					\$0.00	\$0.00

Crew Tm	QTY	HRS	TOT COST	UNIT COST	TRKNG COST/TON	PRODUCTION RATES QUANTITY	RATE	HOURS	TOTAL
MOB	1.04	1.04	\$1,382.00	\$5.32	\$4.06	260 LF	\$1,056.00	10.40	\$6,868.00
1-LIFT	260	10.4	\$5.32	\$0.00		0 T.		0.00	\$25.72
2-LIFT	0	0				0 T.		0.00	
TOP	0	0				0.1 TH		0.00	
FLARE	0	0				0.1		0.00	
D/W	0	0				0		0.00	
CLEANUP	0	0				0		0.00	
TOTAL	11.44	11.44				25	SHIPPING	330 T	\$132,000
ADJ CREW HOUR	12					6			
ADJ EQ HOURS =	10								

GROUT RAILING POST  
 QUANTITY 42 baselift 0  
 I.O. CITY 0 0 0  
 THICK. 0 0 0

PR/LD.	MINUTES	No. MEN	No. EQUIP.	DESCRIPTION	WP Co. RENT	EQUIP. OPER COST	MATEL. COST	LABOR COST	TRUCKING OIS RENT	TOTAL HOURLY
	0	0	0	4MAN W/PICKUP	\$0.00	15	\$0.00	\$0.00	0	\$0.00
	0	0	0	FLATBED	\$0.00	25	\$0.00	\$0.00	0	\$0.00
	2	2	0	LABORERS	\$0.00	0	\$0.00	\$105.00	0	\$109.00
		1	1	CREW TRK	\$15.00	12	\$12.00	\$0.00	0	\$27.00
			35		\$0.00	25	\$0.00	\$0.00	0	\$0.00
		0	0		\$0.00	8	\$0.00	\$0.00	0	\$0.00
		0	0		\$0.00	20	\$0.00	\$0.00	0	\$0.00
		0	0	LIGHT PLANTS	\$8.00	4	\$0.00	\$0.00	0	\$8.00
		5	5		\$0.00	5	\$0.00	\$0.00	0	\$0.00
		5	5		\$0.00	5	\$0.00	\$0.00	0	\$0.00
	2			TOT HRLY COST	\$23.00		\$4.00	\$105.00	\$0.00	\$159.00
	12			TOT COST	\$230.00		\$48.00	\$1,260.00	\$0.00	\$1,308.00
	8						\$0.00	\$0.00		\$500.00
	22			1.5 PALLETS BUY GROUT	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
	0			330 \$0.00 FREIGHT SEATTLE TO JOB		222	\$28.50	892.5		\$1,344.00
				42 \$0.00		201	\$0.00			\$0.00
	105			\$80.00 TRUCKING			\$0.00	\$0.00	\$0.00	\$0.00
				7.777778 NO. TRKS					\$0.00	\$0.00
				0 ADJ NO. TRKS						\$0.00

CREW TIM	QTY	HRS	TOT COST	UNIT COST	TRKNG COST/TON=	PRODUCTION RATES	QUANTITY	RATE	HOURS	AVG TONS/HOUR =
MOB	1.05	1.05	\$471.00	\$452.00	\$10.76	42 EA	42	4 E/F	10.50	6
1-LIFT	42	10.5	\$11.21	\$10.76	\$0.00	0 T.	0	90 T/H	0.00	
2-LIFT	0	0				0 T.	0	0.1 T/H	0.00	
TOP	0	0				0	0	0.1	0.00	
FLARE	0	0				0	0	0.1	0.00	
D/W	0	0				0	0	0.1	0.00	
FABRIC	0	0				0	0	0.1	0.00	
CLEANUP	0	0				0	0	0.1	0.00	
TOTAL	11.55	11.55	\$471.00	\$452.00	\$10.76					6
ADJ CREW HOUR	12									330 T
ADJ EQ HOURS =	10									\$132,000





# Supplier Contacts List

Many Thanks to All the Suppliers Who Assisted Us  
with Pricing for this Project!!



## JUNEAU ACCESS IMPROVEMENTS Supplier Contact List

Company Name	Contact	Phone	Cell	Fax	E-mail	Comments
<i>Air Transportation Services (Fixed and Float Planes)</i>						
Ward Air Juneau, AK		800-478-9150				
Wings of Alaska Juneau, AK	Erica	907-789-0790				
<i>Air Transportation Services (Rotary)</i>						
Tensco Helicopters Juneau, AK	Mitch Horton	907-789-7989			<a href="mailto:mitch_horton@tenscoair.com">mitch_horton@tenscoair.com</a>	
Coastal Helicopters Juneau, AK	Mike Rawson	907-789-5600			<a href="mailto:mrawson@coastalhelicopters.com">mrawson@coastalhelicopters.com</a>	
Columbia Helicopter Aurora, OR	Todd Wayne Nix	503-678-1222	503-989-7693		<a href="mailto:todd@colheli.com">todd@colheli.com</a> <a href="mailto:waynen@colheli.com">waynen@colheli.com</a>	
<i>Avalanche Mitigation Measures</i>						
ASS Juneau, AK	Bill Glude	907-586-3606			<a href="mailto:baas07@mac.com">baas07@mac.com</a>	
<i>Barge Transportation Services</i>						
Crowley Marine Seattle, WA	Dean Yamada	206-332-8114	206-734-7138		<a href="mailto:dean.yamada@crowley.com">dean.yamada@crowley.com</a>	
Northland Services Inc. Juneau, AK	Mike Highley	907-523-5105	907-723-3272		<a href="mailto:mhighley@northlandservices.com">mhighley@northlandservices.com</a>	
Olson Marine, Inc. Ketchikan, AK		907-247-1417		907-247-1418		
Alaska Marine - Seattle Alaska Marine - Juneau	Mike Malone	206-768-3511 907-586-3790		206-988-0076	<a href="mailto:mikem@lvnden.com">mikem@lvnden.com</a>	
<i>Bearing Pads</i>						
NW Rubber Extruders	Tom English	503-643-6878				

## JUNEAU ACCESS IMPROVEMENTS Supplier Contact List

Company Name	Contact	Phone	Cell	Fax	E-mail	Comments
<b>Bulk Cement</b>						
Glacier Northwest	Ken Thiuse	360-896-8922				
	Ken Tanase	206-764-3069	206-909-7637		ktanase@calportland.com	
<b>Communications Systems</b>						
GCI	Sandy Bolder	907-868-6468				
Juneau, AK	Cindy Baldwin				cbaldwin@gci.com	
PCC Communications, Inc.	Brad Wennerstrom	403-567-8205	403-700-9001	403-567-8240	Bwennerstrom@pccinc.com	
Calgary, Canada						
Outfitter Satellite Phones	Bill Rogers	877-436-2255	615-695-1115		bill.rogers@outfittersatellite.com	Worked hard to get us good pricing and information
Houston, TX						
Alaska Power and Telephone	Jason Spears	907-225-1950				
Lewis & Lewis Enterprises		805-644-7405				
Ventura, CA						
<b>Construction Camps</b>						
Redrocks Camps	Troy Ferguson	403-261-2628	403-261-9890		tferguson@redrockscamps.com	Did a good job with limited info
Calgary, Alberta						
Crux Subsurface	Nick Salisbury	509-892-9409	509-981-4441	509-892-9408	nick@cruxsub.com	Very helpful in pricing and explanation of services
Spokane Valley, WA	Gwyn Hansen				gwyn@cruxsub.com	
Rock Bay LLC	Don Mumhoven	907-247-5328		907-225-2306		Very helpful in pricing and explanation of services
Ketchikan, AK						
Chulista Services	John Gilliam	907-278-2208		907-677-7261		
Anchorage, AK						
ESS Support Services Worldwide	Dan Knauss	907-865-9836		907-865-9865		
Anchorage, AK						
S.T. Modular	Sid Tabor	775-945-9800		775-945-2277	sid@stmodular.com	
Hawthorne, NV						

## JUNEAU ACCESS IMPROVEMENTS Supplier Contact List

Company Name	Contact	Phone	Cell	Fax	E-mail	Comments
<i>Construction Camps (continued)</i>						
Arctic Structures LLC Anchorage, AK	Rory Courreges	907-522-2425		907-522-2426	<a href="mailto:info@arcticstructures.com">info@arcticstructures.com</a>	
Arctic Camps & Equipment Palmer, AK	Larry Angel	907-745-2396	Extention 1		<a href="mailto:larryangel@arcticstructures.com">larryangel@arcticstructures.com</a>	
<i>Crane Mats</i>						
North Pacific	Steve McNulty	800-435-3421	503-936-1345	503-238-2642	<a href="mailto:smcnulty@northpacific.com">smcnulty@northpacific.com</a>	
<i>Decked Bulb Tees</i>						
Concrete Technology	Millard Barney	253-383-3545				
<i>Emergency Medical Services</i>						
GoldBelt Juneau, AK	Steve	907-790-1435		907-523-1376		
<i>Equipment Rental</i>						
Tyler Rental Juneau, AK	Mike Allison Steve Kikendall	907-780-2210	907-321-5533	907-780-2216	<a href="mailto:mikea@tylerrental.com">mikea@tylerrental.com</a> <a href="mailto:stevek@tylerrental.com">stevek@tylerrental.com</a>	
NC Machinery Anchorage, AK	Paul Grifffin	907-786-7500 800-433-9120				
<i>Equipment Rental (cont.)</i>						
Totem Rentals Anchorage, AK		907-276-2858				
Sunbelt Rental Lynnwood, WA		425-673-6335				
Kuukpik Arctic Services	Terry McIntosh Randy Mac Millan	907-743-7412	907-529-5765		<a href="mailto:terry.mcintosh@kasves.com">terry.mcintosh@kasves.com</a> <a href="mailto:randy.macmillan@kasves.com">randy.macmillan@kasves.com</a>	
<i>Expansion Joins</i>						
D.S. Brown	Larry Duraine	419-257-3561			<a href="mailto:lduraine@dsbrown.com">lduraine@dsbrown.com</a>	

# JUNEAU ACCESS IMPROVEMENTS Supplier Contact List

05/26/09

Company Name	Contact	Phone	Cell	Fax	E-mail	Comments
<i>Field Offices and Storage</i>						
Tyler Rental Juneau, AK	Steve	907-780-2210				
Williams-Scotsman, Inc. Wasilla, AK	Mike Frizzell	907-373-3991				
R&M Engineering Juneau, AK	Mark Pusich				<a href="mailto:mpusich@rmituneau.com">mpusich@rmituneau.com</a>	
Dowl Engineers						
<i>Fuel and Fuel Supplies</i>						
Petro Marine Services Craig, AK	Lex Hales	907-273-8226				
Harbor Enterprises (Petro Marine) Juneau, AK						
Delta Western Wrangell, AK		907-874-2388				
TAKU Oil Sales Juneau, AK	Steve	907-586-1276				
Interstate Products Sarasota, FL	Rob Anderson					
<i>Generator Set</i>						
NC Power Systems Anchorage, AK	Lloyd Shanley	907-786-7591	807-229-6831		<a href="mailto:Lshanley@NCPowerSystems.com">Lshanley@NCPowerSystems.com</a>	
<i>Local Mining Company Contacts</i>						
Goldbelt Inc.	Rob Martin	907-790-4990				
Coeur Mining Company	Rick Richins			208-761-1310		Could not contact this person
<i>Pipe Piles/Sheeppile</i>						
LB Foster	Russ Storaasli	253-848-1050		253-848-1054	<a href="mailto:rstorasli@lbfoster.com">rstorasli@lbfoster.com</a>	
LaBarge Pipe & Steel	David Kersting	281-445-6191		281-445-8881		

## JUNEAU ACCESS IMPROVEMENTS Supplier Contact List

Company Name	Contact	Phone	Cell	Fax	E-mail	Comments
<i>Ready-Mix Concrete</i> AggPro Juneau	Bob	907-780-6565				
<i>Reinforcing Steel</i> Harris Rebar Seattle	Ken	253-272-4227				
<i>Strip Seal Assembly</i> Carter-Waters	Charlie Watson	816-471-2570		816-421-1627	<a href="mailto:cwatson@carter-waters.com">cwatson@carter-waters.com</a>	
<i>Structural Steel</i> Fought & Company	Ronda Halamay	503-639-3141		503-620-2179	<a href="mailto:ronda@fought.org">ronda@fought.org</a>	
<i>Survey Equipment</i> Lewis & Lewis Enterprises Ventura, CA		805-644-7405				
<i>Water Transportation Services</i> A Taste of Adventure Juneau, AK	Jesse Osborn	907-821-1900			<a href="mailto:jesse@atasteofadventure.com">jesse@atasteofadventure.com</a>	Very helpful in trying to scope and price our needs
Alaska Charter Boat Juneau, AK	Linda Kadrik	907-523-0897			<a href="mailto:linda@alaskacharterboat.com">linda@alaskacharterboat.com</a>	

