

35% DESIGN SUBMITTAL (REVISED)
CONSTRUCTION COST ESTIMATE

KETCHIKAN AQUATIC CENTER
KETCHIKAN, ALASKA

PREPARED FOR:

Architects Alaska
900 West 5th Avenue, Suite 403
Anchorage, Alaska 99501

June 18, 2010



HMS Project No.: 10082

NOTES REGARDING THE PREPARATION OF THIS ESTIMATE

DRAWINGS AND DOCUMENTS

Level of Documents: Schematic design drawings and specifications
Date: June 11, 2010
Provided By: Architects Alaska of Anchorage, Alaska and their subconsultants

RATES

Pricing is based on current material, equipment and freight costs.

Labor Rates: A.S. Title 36 prevailing wage rates

BIDDING ASSUMPTIONS

Contract: Standard construction contract without restrictive bidding clauses
Bidding Situation: Select bid list - GC/CM
Contract Date: October 2010
*Scheduled Start
of Construction:* Site package fall 2010; building award February 2011; building construction March 2011
Months to Complete: Within (16) months

EXCLUDED COSTS

1. A/E design fees
2. Administrative and management costs
3. Remediation of contaminated soils and hazardous materials, if found during construction
4. Owner furnished equipment and furnishings

HMS Project No.: 10082

NOTES REGARDING THE PREPARATION OF THIS ESTIMATE (Continued)

GENERAL

When included in HMS Inc.'s scope of services, opinions or estimates of probable construction costs are prepared on the basis of HMS Inc.'s experience and qualifications and represent HMS Inc.'s judgment as a professional generally familiar with the industry. However, since HMS Inc. has no control over the cost of labor, materials, equipment or services furnished by others, over contractor's methods of determining prices, or over competitive bidding or market conditions, HMS Inc. cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from HMS Inc.'s opinions or estimates of probable construction cost.

This estimate assumes normal escalation based on the current economic climate in Alaska. It is not possible to gauge the effect of the global economic down turn and any subsequent recovery on construction costs in Alaska. HMS Inc. will continue to monitor these events and the resulting construction climate, and will adjust costs and contingencies as deemed prudent.

GROSS FLOOR AREA

Lower Level	3,501 SF
Main Floor	26,900 SF
Second Floor	<u>4,580 SF</u>
TOTAL GROSS FLOOR AREA:	<u><u>34,981 SF</u></u>

HMS Project No.: 10082

GENERAL COST SUMMARY

	<i>Material</i>	<i>Labor</i>	<i>Total</i>
BASE BID			\$ 18,943,534
OPTION 2 FIRE LANE			114,082
TOTAL BASE BID AND ALTERNATE:			\$ 19,057,616

HMS Project No.: 10082

SCHEMATIC DESIGN COST SUMMARY

	<i>Material</i>	<i>Labor</i>	<i>Total</i>
01 - SITE WORK	\$ 1,253,486	\$ 921,201	\$ 2,174,687
02 - SUBSTRUCTURE	323,748	257,022	580,770
03 - SUPERSTRUCTURE	818,702	510,795	1,329,497
04 - EXTERIOR CLOSURE	971,760	449,172	1,420,932
05 - ROOF SYSTEMS	341,703	155,415	497,118
06 - INTERIOR CONSTRUCTION	482,303	410,950	893,253
07 - CONVEYING SYSTEMS	0	0	0
08 - MECHANICAL	1,308,439	897,785	2,206,224
09 - ELECTRICAL	767,205	510,560	1,277,765
10 - EQUIPMENT	145,747	30,456	176,203
11 - SPECIAL CONSTRUCTION	2,569,344	2,400	2,571,744
<i>SUBTOTAL:</i>	<i>\$ 8,982,437</i>	<i>\$ 4,145,756</i>	<i>\$ 13,128,193</i>
12 - GENERAL REQUIREMENTS			3,856,763
<i>SUBTOTAL:</i>			<i>\$ 16,984,956</i>
13 - CONTINGENCIES			1,958,578
TOTAL ESTIMATED CONSTRUCTION COST:			\$ 18,943,534

HMS Project No.: 10082

ELEMENTAL SUMMARY

<i>Element</i>	<i>Material</i>	<i>Labor</i>	<i>Total Material/Labor</i>	<i>Total Cost</i>	<i>Rate \$/SF Floor Area</i>
01 - SITE WORK				\$ 2,174,687	\$ 62.17
011 - Hazmat Abatement	\$ 0	\$ 0	\$ 0		0.00
012 - Site Preparation	353,572	428,028	781,600		22.34
013 - Site Improvements	545,522	286,191	831,713		23.78
014 - Site Mechanical	211,456	135,936	347,392		9.93
015 - Site Electrical	142,936	71,046	213,982		6.12
02 - SUBSTRUCTURE				\$ 580,770	\$ 16.60
021 - Standard Foundations	\$ 218,393	\$ 185,627	\$ 404,020		11.55
022 - Slab on Grade	105,355	71,395	176,750		5.05
023 - Basement	0	0	0		0.00
024 - Special Foundations	0	0	0		0.00
03 - SUPERSTRUCTURE				\$ 1,329,497	\$ 38.01
031 - Floor Construction	\$ 115,198	\$ 85,463	\$ 200,661		5.74
032 - Roof Construction	660,173	396,957	1,057,130		30.22
033 - Stair Construction	43,331	28,375	71,706		2.05
04 - EXTERIOR CLOSURE				\$ 1,420,932	\$ 40.62
041 - Exterior Walls	\$ 803,217	\$ 405,662	\$ 1,208,879		34.56
042 - Exterior Doors and Windows	168,543	43,510	212,053		6.06
05 - ROOF SYSTEMS				\$ 497,118	\$ 14.21
051 - Roofing	\$ 341,703	\$ 155,415	\$ 497,118		14.21
052 - Skylights	0	0	0		0.00
06 - INTERIOR CONSTRUCTION				\$ 893,253	\$ 25.54
061 - Partitions and Doors	\$ 126,462	\$ 134,920	\$ 261,382		7.47
062 - Interior Finishes	101,409	212,388	313,797		8.97
063 - Specialties	254,432	63,642	318,074		9.09

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ELEMENTAL SUMMARY

<i>Element</i>	<i>Material</i>	<i>Labor</i>	<i>Total Material/Labor</i>	<i>Total Cost</i>	<i>Rate \$/SF Floor Area</i>
07 - CONVEYING SYSTEMS	\$ 0	\$ 0		\$ 0	\$ 0.00
08 - MECHANICAL				\$ 2,206,224	\$ 63.07
081 - Plumbing	\$ 230,455	\$ 150,976	\$ 381,431		10.90
082 - HVAC	965,382	619,381	1,584,763		45.30
083 - Fire Protection	103,778	119,548	223,326		6.38
084 - Special Mechanical Systems	8,824	7,880	16,704		0.48
09 - ELECTRICAL				\$ 1,277,765	\$ 36.53
091 - Service and Distribution	\$ 366,068	\$ 170,275	\$ 536,343		15.33
092 - Lighting and Power	255,642	182,713	438,355		12.53
093 - Special Electrical Systems	145,495	157,572	303,067		8.66
10 - EQUIPMENT				\$ 176,203	\$ 5.04
101 - Fixed and Movable Equipment	\$ 133,815	\$ 28,370	\$ 162,185		4.64
102 - Furnishings	11,932	2,086	14,018		0.40
11 - SPECIAL CONSTRUCTION	\$ 2,569,344	\$ 2,400		\$ 2,571,744	\$ 73.52
SUBTOTAL DIRECT WORK:	\$ 8,982,437	\$ 4,145,756		\$ 13,128,193	
12 - GENERAL REQUIREMENTS				\$ 3,856,763	\$ 110.25
121 - Mobilization			\$ 395,250		11.30
122 - Operation Costs			2,164,827		61.89
123 - Profit			1,296,686		37.07
13 - CONTINGENCIES				\$ 1,958,578	\$ 55.99
131 - Estimator's Contingency	7.50%		\$ 1,273,872		36.42
132 - Escalation Contingency	3.75%		684,706		19.57
TOTAL ESTIMATED CONSTRUCTION COST:				\$ 18,943,534	\$541.54 /SF
				GROSS FLOOR AREA:	34,981 SF

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

DATE: 6/18/2010

HMS Project No.: 10082

01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
012 - Site Preparation								

PREPARATION

Site survey and staking	4.16	AC	1500.00	6,240	8500.00	35,360	10000.00	41,600
Dust and erosion control	116,000	SF	0.03	3,480	0.05	5,800	0.08	9,280
SWPPP implementation	1	LOT	1000.00	1,000	2000.00	2,000	3000.00	3,000
Dewatering allowance, trenches, etc.	1	LOT	1500.00	1,500	6500.00	6,500	8000.00	8,000
Traffic control and barriers (minimal)	1	LOT	1000.00	1,000	2500.00	2,500	3500.00	3,500
Temporary construction fencing and gates	1,500	LF	6.50	9,750	3.30	4,950	9.80	14,700

EARTHWORK

Cutting and grubbing trees and shrubs	1.20	AC			7500.00	9,000	7500.00	9,000
Excavate and dispose for building pad and pool average 12'0" deep	14,000	CY			7.25	101,500	7.25	101,500
Excavate and dispose for pavements, walks, etc. average 12" deep	3,580	CY			7.25	25,955	7.25	25,955
Excavate and dispose at fire lane, average 24" deep	722	CY			7.25	5,235	7.25	5,235
Classified fill under building pad, compacted, average 3'0" deep	3,889	CY	21.50	83,614	6.50	25,279	28.00	108,893

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01 - SITE WORK 012 - Site Preparation	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

EARTHWORK (Continued)

Classified fill under roads, walks, etc., compacted, average 18" deep	6,711	CY	21.50	144,287	6.50	43,622	28.00	187,909
Unclassified fill under roads, walks, etc., compacted, average 18" deep	6,711	CY	8.00	53,688	6.50	43,622	14.50	97,310
Classified fill at fire lane, average 36" deep	1,352	CY	21.50	29,068	6.50	8,788	28.00	37,856
Rough grade for parking, walks, etc.	106,386	SF			0.12	12,766	0.12	12,766
Soils compaction tests	70	EA	275.00	19,250			275.00	19,250

MISCELLANEOUS

Saw cut pavement at existing roads	130	LF	0.80	104	1.50	195	2.30	299
Cut and remove pavement	87,864	SF			0.75	65,898	0.75	65,898
Cut and remove concrete walk	13,043	SF			1.20	15,652	1.20	15,652
Remove curbs	877	LF			4.85	4,253	4.85	4,253
Remove stairs	735	SF			2.50	1,838	2.50	1,838
Remove chainlink fence	217	LF			3.75	814	3.75	814

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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
012 - Site Preparation								

MISCELLANEOUS (Continued)

Remove existing exterior wall finish at building connection	2,364	SF	0.25	591	2.75	6,501	3.00	7,092
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TOTAL ESTIMATED COST:	\$ 353,572	\$ 428,028	\$ 781,600
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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
013 - Site Improvements								

MISCELLANEOUS SITE FEATURES (ASSUMED)

(8) slot bike racks	2	EA	710.00	1,420	120.00	240	830.00	1,660
6'0" benches	3	EA	1050.00	3,150	130.00	390	1180.00	3,540
30'0" flag pole and base	1	EA	2900.00	2,900	855.00	855	3755.00	3,755
8'0" dumpster screen	36	LF	34.50	1,242	10.20	367	44.70	1,609
20'0"x6'0" gate	1	EA	1400.00	1,400	500.00	500	1900.00	1,900

AC PAVEMENTS/CONCRETE CURBS, ETC.

6" D1 base course, compacted	2,234	CY	27.00	60,318	7.00	15,638	34.00	75,956
2 1/2" AC pavements	86,776	SF	1.70	147,519	1.15	99,792	2.85	247,311
2 1/2" AC pavements at fire lane	9,740	SF	1.70	16,558	1.15	11,201	2.85	27,759
Match existing pavements	247	LF	1.70	420	2.20	543	3.90	963
Concrete curb and gutter	1,400	LF	12.20	17,080	10.55	14,770	22.75	31,850
Mark parking stalls	140	EA	12.00	1,680	20.00	2,800	32.00	4,480
Mark handicapped symbols	5	EA	15.00	75	40.00	200	55.00	275
Cross hatch markings	1,842	SF	0.52	958	0.85	1,566	1.37	2,524

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01 - SITE WORK 013 - Site Improvements	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

AC PAVEMENTS/CONCRETE CURBS, ETC. (Continued)

Handicapped signs, posts and bases	5	EA	105.00	525	80.00	400	185.00	925
Crosswalk markings	260	LF	3.50	910	2.75	715	6.25	1,625
Traffic signs	14	EA	117.00	1,638	85.00	1,190	202.00	2,828
Asphalt tests	24	EA	250.00	6,000			250.00	6,000

CONCRETE WALKS

4" D1 gravel base course, compacted	150	CY	27.00	4,050	7.00	1,050	34.00	5,100
4" mesh reinforced scored concrete walks, including joints	9,870	SF	3.10	30,597	2.35	23,195	5.45	53,792
Handicapped accessible curb cuts	173	SF	1.50	260	2.20	381	3.70	641
6" transformer pad	64	SF	5.75	368	5.00	320	10.75	688

RETAINING WALLS

Excavate and dispose for foundations	200	CY			7.50	1,500	7.50	1,500
NFS backfill, compacted	153	CY	18.00	2,754	7.00	1,071	25.00	3,825
Concrete footings	96	CY	145.00	13,920	65.00	6,240	210.00	20,160
8" retaining wall	154	CY	180.00	27,720	70.00	10,780	250.00	38,500

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01 - SITE WORK	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
013 - Site Improvements								

RETAINING WALLS (Continued)

Concrete waste	13	CY	180.00	2,340	65.00	845	245.00	3,185
Pump concrete	263	CY	26.00	6,838			26.00	6,838
Bar reinforcement to footing	6,240	LBS	0.65	4,056	0.60	3,744	1.25	7,800
Bar reinforcement to walls	18,480	LBS	0.70	12,936	0.65	12,012	1.35	24,948
Formwork to footing	1,294	SF	1.55	2,006	4.60	5,952	6.15	7,958
Formwork to wall	12,422	SF	1.70	21,117	4.95	61,489	6.65	82,606
Extra for forming 3/4" chamfer	1,294	LF	0.30	388	1.25	1,618	1.55	2,006
Smooth finish to exposed concrete wall	2,400	SF	0.35	840	1.10	2,640	1.45	3,480
2"x10" weep hole sleeves, 48" o/c	162	EA	9.50	1,539	13.50	2,187	23.00	3,726

LANDSCAPING

Landscaping allowance	1	LOT	150000.00	150,000		Included	150000.00	150,000
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TOTAL ESTIMATED COST:				\$ 545,522		\$ 286,191		\$ 831,713
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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
014 - Site Mechanical								

WATER

6"x6"x6" tees installed in existing main including fee	2	EA	5600.00	11,200	1000.00	2,000	6600.00	13,200
6" building connection and sleeve	1	EA	190.00	190	285.00	285	475.00	475
8" gate valve and box with flush cover	1	EA	2750.00	2,750	490.00	490	3240.00	3,240
6" gate valves and boxes with flush covers	4	EA	2125.00	8,500	360.00	1,440	2485.00	9,940
6" DI pipe	500	LF	35.00	17,500	17.50	8,750	52.50	26,250
6" fittings	10	EA	525.00	5,250	175.00	1,750	700.00	7,000
6" couplings	7	EA	145.00	1,015	120.00	840	265.00	1,855
Fire hydrant assemblies	2	EA	2100.00	4,200	1500.00	3,000	3600.00	7,200
Concrete thrust block	1	EA	167.00	167	110.00	110	277.00	277
Excavate trench and stockpile	1,670	CY			6.75	11,273	6.75	11,273
Bedding materials, compacted	100	CY	27.00	2,700	7.00	700	34.00	3,400
Stockpiled backfill, compacted	1,670	CY			5.80	9,686	5.80	9,686
6" PVC marker tape	500	LF	0.52	260	0.33	165	0.85	425
Disinfect and test piping	1	LOT	100.00	100	900.00	900	1000.00	1,000

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01 - SITE WORK 014 - Site Mechanical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

SEWER

Remove existing sewer main including trench and backfill	256	LF			25.00	6,400	25.00	6,400
Remove cleanouts with excavation and backfill	2	EA			175.00	350	175.00	350
Dispose	1	LOT			1500.00	1,500	1500.00	1,500
Building connection and sleeve	1	EA	190.00	190	285.00	285	475.00	475
Connection to sewer main	1	EA	210.00	210	300.00	300	510.00	510
6" yard cleanout with cover	1	EA	335.00	335	220.00	220	555.00	555
Manhole/cleanout connections	2	EA	67.00	134	155.00	310	222.00	444
6" diameter DI sewer main	120	LF	22.40	2,688	25.00	3,000	47.40	5,688
6" fittings with restraint joints	3	EA	290.00	870	170.00	510	460.00	1,380
6" couplings	5	EA	52.00	260	70.00	350	122.00	610
Manhole	1	EA	2475.00	2,475	1120.00	1,120	3595.00	3,595
Excavate trench and stockpile	401	CY			6.75	2,707	6.75	2,707
Bedding material	35	CY	27.00	945	7.00	245	34.00	1,190
Stockpiled backfill, compacted	401	CY			5.80	2,326	5.80	2,326

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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
014 - Site Mechanical								

SEWER (Continued)

6" PVC marker tape	120	LF	0.52	62	0.33	40	0.85	102
Pressure test piping	1	LOT	50.00	50	550.00	550	600.00	600

STORM DRAIN

18" diameter CPEP storm drain pipe	280	LF	33.00	9,240	9.50	2,660	42.50	11,900
36" diameter CPEP storm drain pipe	320	LF	101.00	32,320	13.50	4,320	114.50	36,640
Catch basins with area drain	4	EA	1650.00	6,600	1030.00	4,120	2680.00	10,720
Storm drain manholes	3	EA	1750.00	5,250	1200.00	3,600	2950.00	8,850
Excavate trench and stockpile	870	CY			6.75	5,873	6.75	5,873
Bedding material, compacted	80	CY	27.00	2,160	7.00	560	34.00	2,720
Stockpiled backfilling	870	CY			5.80	5,046	5.80	5,046
6" PVC marker tape	600	LF	0.52	312	0.33	198	0.85	510

FUEL OIL

7,500 gallon above grade double wall fuel tank complete with manholes, vents and accessories	1	EA	48000.00	48,000	4000.00	4,000	52000.00	52,000
Fuel for testing	2,000	GALS	3.75	7,500			3.75	7,500

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01 - SITE WORK 014 - Site Mechanical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FUEL OIL (Continued)

3/4" supply/return pipes in double containment pipe	100	LF	23.00	2,300	42.00	4,200	65.00	6,500
Tank connections and valves	2	EA	145.00	290	110.00	220	255.00	510
Building connections and sleeves	2	EA	70.00	140	85.00	170	155.00	310

MISCELLANEOUS

Test special systems	1	LOT	50.00	50	500.00	500	550.00	550
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<i>SUBTOTAL:</i>				\$ 176,213		\$ 97,069		\$ 273,282
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Labor premium time	16.70%					16,211		16,211
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<i>SUBTOTAL:</i>				\$ 176,213		\$ 113,280		\$ 289,493
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Subcontractor's Overhead and Profit on Materials and Labor	20.00%			35,243		22,656		57,899
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TOTAL ESTIMATED COST:				\$ 211,456		\$ 135,936		\$ 347,392
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01 - SITE WORK 015 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

POWER

Note: Primary service by utility up to transformer.

750 KVA concrete pad mounted dry transformer	1	EA	49800.00	49,800	4640.00	4,640	54440.00	54,440
4" diameter galvanized RGS conduit	250	LF	42.00	10,500	32.00	8,000	74.00	18,500
#600 KCMIL copper conductor	1,000	LF	21.00	21,000	5.00	5,000	26.00	26,000
#250 KCMIL bare copper ground conductor	250	LF	6.80	1,700	2.70	675	9.50	2,375
5/8"x10'0" copper clad ground rods	3	EA	55.00	165	132.00	396	187.00	561
Ground rod connections	3	EA	13.75	41	42.50	128	56.25	169

LIGHTING, ETC.

Remove light poles, light fixtures and bases including disposal	5	EA			1100.00	5,500	1100.00	5,500
30'0" poles over mounting plate on 24" diameter x 9'0" concrete base, 6'0" buried depth	8	EA	2675.00	21,400	1700.00	13,600	4375.00	35,000
250 watt metal halide fixtures	16	EA	550.00	8,800	190.00	3,040	740.00	11,840
1" diameter PVC conduit	800	LF	2.10	1,680	3.90	3,120	6.00	4,800
#10 wiring (3)	2,400	LF	0.59	1,416	0.60	1,440	1.19	2,856

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 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

01 - SITE WORK 015 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

LIGHTING, ETC. (Continued)

Concrete hand hole	1	EA	995.00	995	305.00	305	1300.00	1,300
Test and tag lighting and power	1	LOT	100.00	100	800.00	800	900.00	900
Trenching and backfill	150	CY	3.00	450	8.50	1,275	11.50	1,725
6" PVC marker tape	800	LF	0.52	416	0.33	264	0.85	680
Test and tag lighting and power	1	LOT	150.00	150	1050.00	1,050	1200.00	1,200

COMMUNICATIONS

Note: Connection to existing recreation center.

CABLE TV

Note: Connection to existing recreation center.

MISCELLANEOUS

Test and certify systems	1	LOT	500.00	500	1500.00	1,500	2000.00	2,000
SUBTOTAL:					\$ 119,113	\$ 50,733		\$ 169,846
Labor premium time	16.70%					8,472		8,472
SUBTOTAL:					\$ 119,113	\$ 59,205		\$ 178,318

HMS Project No.: 10082

01 - SITE WORK	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
015 - Site Electrical								

Subcontractor's Overhead and Profit on Materials and Labor	20.00%	23,823	11,841	35,664
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TOTAL ESTIMATED COST:	\$ 142,936	\$ 71,046	\$ 213,982
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KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
021 - Standard Foundations								

FOUNDATIONS

Excavate for exterior foundations, bases, etc.	750	CY			7.00	5,250	7.00	5,250
Excavate for interior foundations, bases, etc.	267	CY			7.00	1,869	7.00	1,869
NFS backfill, compacted	820	CY	18.00	14,760	6.50	5,330	24.50	20,090
4,000 psi concrete spread footings	40	CY	180.00	7,200	70.00	2,800	250.00	10,000
Concrete strip footings	92	CY	180.00	16,560	65.00	5,980	245.00	22,540
Concrete pad for slide foundations	10	CY	180.00	1,800	70.00	700	250.00	2,500
Concrete foundation walls	256	CY	180.00	46,080	70.00	17,920	250.00	64,000
Concrete pool equipment basement walls	66	CY	180.00	11,880	70.00	4,620	250.00	16,500
Concrete pilasters	8	CY	180.00	1,440	75.00	600	255.00	2,040
Concrete columns	11	CY	180.00	1,980	75.00	825	255.00	2,805
Concrete waste	25	CY	180.00	4,500	65.00	1,625	245.00	6,125
Pump concrete	508	CY	26.00	13,208			26.00	13,208
Bar reinforcement to footings and bases	14,520	LBS	0.65	9,438	0.60	8,712	1.25	18,150
Bar reinforcement to pads	1,200	LBS	0.65	780	0.60	720	1.25	1,500

HMS Project No.: 10082

02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
021 - Standard Foundations								

FOUNDATIONS (Continued)

Bar reinforcement to walls and pilasters	42,900	LBS	0.70	30,030	0.65	27,885	1.35	57,915
Formwork to spread footings	504	SF	1.50	756	4.10	2,066	5.60	2,822
Formwork to strip footings	4,100	SF	1.60	6,560	4.00	16,400	5.60	22,960
Formwork to pad	64	SF	1.95	125	4.50	288	6.45	413
Formwork to walls (4 uses)	14,724	SF	1.80	26,503	4.40	64,786	6.20	91,289
Formwork to pilasters	192	SF	1.95	374	5.70	1,094	7.65	1,468
24" diameter sonotube form to columns	88	LF	13.50	1,188	18.50	1,628	32.00	2,816

MISCELLANEOUS

Membrane waterproofing to exterior walls and footings	7,171	SF	1.25	8,964	1.30	9,322	2.55	18,286
4" rigid insulation to foundations	5,121	SF	1.75	8,962	0.90	4,609	2.65	13,571
Concrete core tests	20	EA	225.00	4,500			225.00	4,500
Drill/dowel new to existing footing/foundation	23	EA	35.00	805	26.00	598	61.00	1,403

TOTAL ESTIMATED COST:				\$ 218,393		\$ 185,627		\$ 404,020
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KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
022 - Slab on Grade								
4" leveling course (includes under pool tanks)	398	CY	27.00	10,746	6.50	2,587	33.50	13,333
2" rigid insulation for radiant heat	4,535	SF	0.90	4,082	0.50	2,268	1.40	6,350
4" rigid insulation under pool slab	9,800	SF	1.75	17,150	0.80	7,840	2.55	24,990
8 mil vapor barrier	26,000	SF	0.10	2,600	0.15	3,900	0.25	6,500
Concrete slab at main level	158	CY	180.00	28,440	60.00	9,480	240.00	37,920
4" concrete slab at pool equipment basement	40	CY	180.00	7,200	62.50	2,500	242.50	9,700
Thickened edge slabs	10	CY	180.00	1,800	70.00	700	250.00	2,500
Concrete waste	11	CY	180.00	1,980	62.50	688	242.50	2,668
Pump concrete	219	CY	26.00	5,694			26.00	5,694
Cure and finish slab, including control joints	19,479	SF	0.30	5,844	1.25	24,349	1.55	30,193
Bar reinforcement to slabs	24,090	LBS	0.60	14,454	0.55	13,250	1.15	27,704
Dowel new to existing slab	32	EA	35.00	1,120	26.00	832	61.00	1,952
<u>MISCELLANEOUS</u>								
Expansion joints	700	LF	1.25	875	1.45	1,015	2.70	1,890
3" housekeeping pads	160	SF	3.20	512	4.10	656	7.30	1,168
24"x24"x18" deep concrete sump	1	EA	155.00	155	235.00	235	390.00	390

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
022 - Slab on Grade								

MISCELLANEOUS (Continued)

Anchor bolts at column bases	32	EA	6.00	192	22.00	704	28.00	896
2" non-shrink grout at base plates	18	SF	14.50	261	21.70	391	36.20	652
Concrete core tests	10	EA	225.00	2,250			225.00	2,250

Note: Pool tanks with Element 11 - Special Construction.

TOTAL ESTIMATED COST:				\$ 105,355		\$ 71,395		\$ 176,750
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KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
023 - Basement			\$	\$	\$	\$	\$	\$

Note: Walls with foundations.

TOTAL ESTIMATED COST:

HMS Project No.: 10082

03 - SUPERSTRUCTURE	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
031 - Floor Construction								

SECOND FLOOR/FIRST FLOOR OVER BASEMENT

Base plates	0	LBS						With Roof
Tube steel columns	0	LBS						With Roof
W-beam columns	0	LBS						With Roof
W-beams	33,383	LBS	1.15	38,390	0.95	31,714	2.10	70,104
Steel floor joist above pit area	2,562	LF	3.72	9,531	1.20	3,074	4.92	12,605
1/4" bent plate deck edging	2,200	LBS	1.30	2,860	1.50	3,300	2.80	6,160
Miscellaneous angles, plates and bolt connections	5,010	LBS	1.50	7,515	1.60	8,016	3.10	15,531
1 1/2" deep x 20 gauge steel decking at mezzanine and above basement	7,766	SF	2.95	22,910	1.25	9,708	4.20	32,618
Overall 10" thick concrete topping above lower level	36	CY	180.00	6,480	62.50	2,250	242.50	8,730
Overall 4" thick concrete topping at mezzanine	42	CY	195.00	8,190	62.50	2,625	257.50	10,815
Concrete waste	4	CY	195.00	780	62.50	250	257.50	1,030
Pump concrete	78	CY	24.00	1,872			24.00	1,872

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

03 - SUPERSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
031 - Floor Construction								

SECOND FLOOR/FIRST FLOOR OVER BASEMENT (Continued)

Cure and finish topping	7,766	SF	0.30	2,330	1.25	9,708	1.55	12,038
Bar reinforcement	7,082	LBS	0.65	4,603	0.60	4,249	1.25	8,852

BLEACHER FLOORS

Concrete at bleachers	25	CY	180.00	4,500	80.00	2,000	260.00	6,500
12" edge forms	678	SF	2.20	1,492	4.75	3,221	6.95	4,713
Concrete waste	2	CY	180.00	360	80.00	160	260.00	520
Pump concrete	27	CY	26.00	702			26.00	702
Cure and finish	1,469	SF	0.30	441	1.40	2,057	1.70	2,498
Sack/patch risers	678	SF	0.20	136	1.75	1,187	1.95	1,323
Bar reinforcement	3,240	LBS	0.65	2,106	0.60	1,944	1.25	4,050

TOTAL ESTIMATED COST:	\$ 115,198	\$ 85,463	\$ 200,661
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HMS Project No.: 10082

03 - SUPERSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
032 - Roof Construction								

ROOF FRAMING

3/4" thick base plates (8)	161	LBS	1.75	282	1.20	193	2.95	475
HSS columns	7,767	LBS	1.25	9,709	1.10	8,544	2.35	18,253
W-beams	12,533	LBS	1.15	14,413	0.95	11,906	2.10	26,319
KCS joists	139,907	LBS	1.20	167,888	0.85	118,921	2.05	286,809
Miscellaneous angles, plates, bolts and connections	24,000	LBS	1.50	36,000	1.60	38,400	3.10	74,400
1 1/2"x18 gauge decking	28,187	SF	7.70	217,040	2.95	83,152	10.65	300,192
Truss T-1: Clear span truss at natatorium	88,339	LBS	1.30	114,841	1.30	114,841	2.60	229,682

MISCELLANEOUS

Special steel inspections and weld tests	1	LOT	25000.00	25,000			25000.00	25,000
50 ton crane and operator for structural work	3	MOS	25000.00	75,000	7000.00	21,000	32000.00	96,000

TOTAL ESTIMATED COST:				\$ 660,173		\$ 396,957		\$ 1,057,130
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HMS Project No.: 10082

03 - SUPERSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
033 - Stair Construction								
Galvanized steel framing to building and slide stairs	10,500	LBS	1.30	13,650	1.20	12,600	2.50	26,250
1 1/2" concrete filled deck	120	SF	5.20	624	3.50	420	8.70	1,044
Concrete filled pan interior stairs	233	SF	48.75	11,359	23.00	5,359	71.75	16,718
Concrete filled pan stairs at slide	182	SF	48.75	8,873	23.00	4,186	71.75	13,059
Concrete steps at main pool	120	SF	13.00	1,560	18.00	2,160	31.00	3,720
Single rail handrails	36	LF	18.70	673	12.50	450	31.20	1,123
1 1/2" diameter multi-rail handrails	128	LF	51.50	6,592	25.00	3,200	76.50	9,792
TOTAL ESTIMATED COST:				\$ 43,331		\$ 28,375		\$ 71,706

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

04 - EXTERIOR CLOSURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
041 - Exterior Walls								
Precast concrete panel	15,900	SF	32.00	508,800	12.00	190,800	44.00	699,600
2" furring	16,860	SF	1.80	30,348	4.10	69,126	5.90	99,474
4" rigid insulation fixed to furring	16,860	SF	1.95	32,877	0.95	16,017	2.90	48,894
Masonry veneer	2,443	SF	6.20	15,147	7.40	18,078	13.60	33,225
Stud wall framing at clerestory	1,750	SF	3.50	6,125	5.50	9,625	9.00	15,750
R-22 batts	1,750	SF	0.97	1,698	0.45	788	1.42	2,486
Air barrier	17,650	SF	0.10	1,765	0.12	2,118	0.22	3,883
Vapor retarder	17,650	SF	0.15	2,648	0.17	3,001	0.32	5,649
Gypsum wall board	1,750	SF	0.52	910	1.45	2,538	1.97	3,448
Metal siding	17,650	SF	9.50	167,675	4.50	79,425	14.00	247,100
Flashings and transitions	1	LOT	6500.00	6,500	6500.00	6,500	13000.00	13,000
Crane and operator	1	MO	25000.00	25,000	7000.00	7,000	32000.00	32,000
Interface/seismic joint to existing building	76	LF	49.00	3,724	8.50	646	57.50	4,370
TOTAL ESTIMATED COST:				\$ 803,217		\$ 405,662		\$ 1,208,879

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

04 - EXTERIOR CLOSURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
042 - Exterior Doors and Windows								
6'0"x7'2" thermal break aluminum door frame	1	EA	450.00	450	160.00	160	610.00	610
3'0"x7'2" insulated galvanized steel door frame	1	EA	225.00	225	100.00	100	325.00	325
6'4"x7'2" insulated galvanized steel door frames	2	EA	268.00	536	130.00	260	398.00	796
3'0"x7'2"x1 3/4" insulated galvanized steel single door	1	EA	470.00	470	70.00	70	540.00	540
3'2"x7'2"x1 3/4" insulated galvanized steel double doors	2	PRS	1050.00	2,100	140.00	280	1190.00	2,380
3'0"x7'0"x1 3/4" insulated aluminum double doors, fully glazed and hardware	1	PR	2450.00	2,450	210.00	210	2660.00	2,660
Single door hardware	1	SET	600.00	600	325.00	325	925.00	925
Double door hardware	2	SETS	900.00	1,800	475.00	950	1375.00	2,750
ADA activator	1	EA	2400.00	2,400	420.00	420	2820.00	2,820
<u>WINDOWS</u>								
Aluminum Low E glass triple glazed storefront system, factory finished	255	SF	71.00	18,105	12.50	3,188	83.50	21,293
Insulated Kalwall fiberglass translucent panels	432	SF	72.00	31,104	9.50	4,104	81.50	35,208
Aluminum Low E triple glazed windows	1,204	SF	64.00	77,056	12.50	15,050	76.50	92,106

HMS Project No.: 10082

04 - EXTERIOR CLOSURE	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
042 - Exterior Doors and Windows								

MISCELLANEOUS

Paint doors and frames, high grade	210	SF	0.40	84	1.70	357	2.10	441
Caulking and sealants to doors and windows	2,522	LF	0.55	1,387	1.85	4,666	2.40	6,053
Architectural louvers to mechanical opening (5)	424	SF	31.00	13,144	7.25	3,074	38.25	16,218

ENTRY CANOPY ROOF SOFFIT

Perforated metal soffit panel, prefinished	1,584	SF	10.50	16,632	6.50	10,296	17.00	26,928
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TOTAL ESTIMATED COST:				\$ 168,543		\$ 43,510		\$ 212,053
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HMS Project No.: 10082

05 - ROOF SYSTEMS	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
051 - Roofing								

MAIN ROOF

Metal roof panels	28,187	SF	6.50	183,216	3.50	98,655	10.00	281,871
7" rigid insulation, extruded polystyrene	28,187	SF	4.80	135,298	1.60	45,099	6.40	180,397
Ridge flashing	196	LF	4.90	960	3.30	647	8.20	1,607
Eave/rake flashing	905	LF	3.70	3,349	2.85	2,579	6.55	5,928
Roof/wall flashing	484	LF	3.70	1,791	2.85	1,379	6.55	3,170
Ice and water shield	2,832	SF	0.80	2,266	0.75	2,124	1.55	4,390
Mechanical equipment flashings	1	LOT	350.00	350	525.00	525	875.00	875
Snow guards	194	LF	12.50	2,425	5.50	1,067	18.00	3,492
Gutters	190	LF	2.40	456	4.00	760	6.40	1,216
Downspouts	400	LF	1.70	680	3.15	1,260	4.85	1,940
Expansion assembly at building interface	176	LF	62.00	10,912	7.50	1,320	69.50	12,232

TOTAL ESTIMATED COST:				\$ 341,703		\$ 155,415		\$ 497,118
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HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
061 - Partitions and Doors								

PARTITIONS

6" metal studs, 16" o/c including tracks	460	SF	1.40	644	1.65	759	3.05	1,403
Furr existing exterior wall to receive new finish	2,364	SF	1.40	3,310	1.80	4,255	3.20	7,565
5/8" Type X gypboard	3,284	SF	0.54	1,773	1.40	4,598	1.94	6,371
4" CMU partitions, fully reinforced and grouted	2,100	SF	5.85	12,285	8.00	16,800	13.85	29,085
8" CMU partitions, fully reinforced and grouted	10,896	SF	6.85	74,638	8.55	93,161	15.40	167,799
2"x6" fire treated wood backings for fixtures, etc.	500	LF	1.15	575	1.50	750	2.65	1,325

DOOR FRAMES

6'0"x7'0" fiberglass frames	3	EA	265.00	795	105.00	315	370.00	1,110
3'0"x7'0" fiberglass frames	15	EA	175.00	2,625	80.00	1,200	255.00	3,825

DOORS

3'0"x7'0"x1 3/4" fiberglass flush single doors	14	EA	442.00	6,188	65.00	910	507.00	7,098
3'0"x7'0"x1 3/4" fiberglass single door with half light	1	EA	489.00	489	70.00	70	559.00	559
Sauna door assembly	1	EA						With Sauna Pricing
3'0"x7'2"x1 3/4" fiberglass flush double doors	2	PRS	884.00	1,768	140.00	280	1024.00	2,048

HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
061 - Partitions and Doors								

DOORS (Continued)

3'0"x7'2"x1 3/4" fiberglass flush double doors, fully glazed	1	PR	1500.00	1,500	130.00	130	1630.00	1,630
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HARDWARE GROUPS

Single door hardware	3	EA	480.00	1,440	275.00	825	755.00	2,265
Double door hardware	15	EA	750.00	11,250	425.00	6,375	1175.00	17,625
24"x24" plumbing chase access doors (allow)	10	EA	130.00	1,300	80.00	800	210.00	2,100

WINDOWS/STOREFRONT

Galvanized steel framed tempered glazed windows and relights	92	SF	44.75	4,117	9.75	897	54.50	5,014
Extra for tempered glazed doors	3	EA	250.00	750	110.00	330	360.00	1,080

MISCELLANEOUS

Caulking and sealants to doors and windows	1,450	LF	0.70	1,015	1.70	2,465	2.40	3,480
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TOTAL ESTIMATED COST:				\$ 126,462		\$ 134,920		\$ 261,382
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HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
062 - Interior Finishes								

FLOOR FINISHES

Allowance for architectural finish at natatorium deck	15,483	SF	2.00	30,966	3.50	54,191	5.50	85,157
Concrete sealer and hardener to floors	15,483	SF	0.45	6,967	0.90	13,935	1.35	20,902
Walk-off entry mat tiles (allow)	200	SF	5.75	1,150	1.20	240	6.95	1,390
Carpet	135	SY	33.00	4,455	9.00	1,215	42.00	5,670
Linoleum	287	SF	6.50	1,866	3.00	861	9.50	2,727
Rubberized athletic flooring	823	SF	9.00	7,407	6.30	5,185	15.30	12,592
4" rubber base	2,041	LF	1.10	2,245	1.25	2,551	2.35	4,796

WALL FINISHES

Epoxy paint at natatorium and locker areas	20,102	SF	0.55	11,056	1.80	36,184	2.35	47,240
Paint gypboard walls with semi-gloss paint	8,004	SF	0.25	2,001	1.40	11,206	1.65	13,207

CEILING FINISHES

Fiber reinforced board ceiling and soffits including suspension system	2,869	SF	2.35	6,742	4.85	13,915	7.20	20,657
24"x24" moisture resistant acoustic tile suspension system	2,221	SF	2.70	5,997	1.85	4,109	4.55	10,106

HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
062 - Interior Finishes								

CEILING FINISHES (Continued)

Epoxy paint on structures and decking at natatorium lobby, etc.	22,001	SF	0.55	12,101	1.90	41,802	2.45	53,903
Paint ceilings/soffits	2,869	SF	0.25	717	1.50	4,304	1.75	5,021

MISCELLANEOUS FINISHES

Paint doors and frames, high grade	882	SF	0.40	353	1.70	1,499	2.10	1,852
Paint window frames	465	SF	0.40	186	1.70	791	2.10	977
Miscellaneous painting to exposed ducts, conduits, etc., high grade	8,000	SF	0.40	3,200	1.80	14,400	2.20	17,600
Masking tapes, tarps, etc. for painting	1	LOT	4000.00	4,000	6000.00	6,000	10000.00	10,000

TOTAL ESTIMATED COST:	\$ 101,409	\$ 212,388	\$ 313,797
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HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

TOILET ACCESSORIES

Sanitary napkin dispenser	1	EA	275.00	275	70.00	70	345.00	345
Sanitary napkin disposals	6	EA	68.00	408	25.00	150	93.00	558
Toilet paper dispenser	1	EA	32.00	32	20.00	20	52.00	52
Toilet seat cover dispenser	1	EA	45.00	45	25.00	25	70.00	70
Paper towel dispensers/waste receptacles	4	EA	260.00	1,040	75.00	300	335.00	1,340
Paper towel dispensers	2	EA	43.00	86	20.00	40	63.00	126
Paper towel disposers	2	EA	62.00	124	30.00	60	92.00	184
24"x36" mirrors	8	EA	128.00	1,024	50.00	400	178.00	1,424
Soap dispensers	9	EA	48.00	432	18.00	162	66.00	594
Toilet grab bar sets	4	EA	145.00	580	95.00	380	240.00	960
Shower grab bar sets	6	EA	170.00	1,020	120.00	720	290.00	1,740
Electric hand/hair dryers	6	EA	315.00	1,890	85.00	510	400.00	2,400
36" wide fixed ADA shower seats	6	EA	229.00	1,374	70.00	420	299.00	1,794
60" long shower curtains and rods	2	EA	105.00	210	40.00	80	145.00	290

HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

TOILET ACCESSORIES (Continued)

Coat, robe and towel hooks/pegs	48	EA	12.60	605	15.00	720	27.60	1,325
Baby changing stations	4	EA	269.00	1,076	60.00	240	329.00	1,316
Utility shelf with mop/broom holder	1	EA	79.00	79	40.00	40	119.00	119
18"x18"x72" (2) tier lockers, solid plastic	215	EA	425.00	91,375	70.00	15,050	495.00	106,425
Locker room benches (allow)	18	EA	400.00	7,200	250.00	4,500	650.00	11,700
Toilet partitions and doors, solid plastic	6	EA	875.00	5,250	290.00	1,740	1165.00	6,990
Toilet partitions and doors, ADA	4	EA	1270.00	5,080	350.00	1,400	1620.00	6,480
Shower partitions, solid plastic	0	EA	575.00		190.00		765.00	
Urinal screens	0	EA	245.00		75.00		320.00	

BULLETIN AND MARKER BOARDS, ETC.

Building directory	1	EA	825.00	825	120.00	120	945.00	945
8'0"x4'0" marker board	1	EA	720.00	720	55.00	55	775.00	775
4'0"x4'0" tack boards	4	EA	132.00	528	50.00	200	182.00	728

HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

MISCELLANEOUS

Door signs	23	EA	32.00	736	15.00	345	47.00	1,081
Miscellaneous graphics/signage	1	LOT	500.00	500	350.00	350	850.00	850
Fire extinguishers, bracket mounted	4	EA	57.00	228	25.00	100	82.00	328
Fire extinguishers, cabinet mounted	4	EA	163.00	652	65.00	260	228.00	912
48" stainless steel corner guards	22	EA	79.00	1,738	30.00	660	109.00	2,398
Sound control at natatorium (assumed)	4,500	SF	8.55	38,475	2.70	12,150	11.25	50,625
36" tempered glass handrail at bleachers/stairs	176	LF	312.00	54,912	80.00	14,080	392.00	68,992
Premium art glass rail	24	LF	750.00	18,000	105.00	2,520	855.00	20,520

CASEWORK

24" deep base cabinets	5	LF	138.00	690	35.00	175	173.00	865
12" deep wall cabinet	8	LF	123.00	984	32.00	256	155.00	1,240
Control station with raised counter, front and side walls	24	LF	285.00	6,840	75.00	1,800	360.00	8,640
Stainless steel wire shelving	66	LF	58.50	3,861	18.00	1,188	76.50	5,049
24" deep countertops with backsplash	5	LF	85.00	425	25.00	125	110.00	550

HMS Project No.: 10082

06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

CASEWORK (Continued)

24" deep vanity countertops	26	LF	78.00	2,028	28.00	728	106.00	2,756
Moldings, etc. (allow)	500	LF	1.10	550	1.25	625	2.35	1,175
Solid surface window sills	195	LF	13.00	2,535	4.50	878	17.50	3,413

TOTAL ESTIMATED COST:	\$ 254,432	\$ 63,642	\$ 318,074
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HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

FIXTURES

P-1: Wall hung water closets	5	EA	632.00	3,160	190.00	950	822.00	4,110
P-1H: Wall hung water closets, ADA	4	EA	670.00	2,680	210.00	840	880.00	3,520
P-2H: Wall hung urinal, ADA	1	EA	720.00	720	235.00	235	955.00	955
P-3H: Wall hung lavatory, ADA	1	EA	580.00	580	170.00	170	750.00	750
P-4H: Counter mounted lavatories, ADA	10	EA	495.00	4,950	170.00	1,700	665.00	6,650
Sensor operated flush valves	10	EA	157.00	1,570	80.00	800	237.00	2,370
Sensor operated faucets	11	EA	135.00	1,485	65.00	715	200.00	2,200
P-5: 32"x32" floor mounted service sink	1	EA	635.00	635	215.00	215	850.00	850
P-6: Pressure balancing/thermostatic mixing valves and wall mounted showerheads	16	EA	450.00	7,200	150.00	2,400	600.00	9,600
P-7H: 36"x36" prefabricated one piece shower modules with single lever mixing valve, ADA	6	EA	1550.00	9,300	420.00	2,520	1970.00	11,820
P-10: Washer box	1	EA	110.00	110	65.00	65	175.00	175
DF-1H: Two level wall hung drinking fountain	1	EA	998.00	998	270.00	270	1268.00	1,268
ESH-1: Recessed wall mounted combination eye wash and shower	1	EA	720.00	720	310.00	310	1030.00	1,030

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

FIXTURES (Continued)

FD-1: 2" diameter floor drains	35	EA	98.00	3,430	105.00	3,675	203.00	7,105
FD-2: 2" diameter medium duty floor drains	5	EA	148.00	740	135.00	675	283.00	1,415
FD-3: 2" diameter trench drains	19	EA	135.00	2,565	125.00	2,375	260.00	4,940
TD-1: 6" wide x 10'0" long trench drain with interlocking ends (assume fiberglass)	594	LF	80.00	47,520	5.85	3,475	85.85	50,995
HB-1: Exterior hose bibs	4	EA	98.00	392	65.00	260	163.00	652
HB-2 and 3: Interior hose bibs	9	EA	55.00	495	45.00	405	100.00	900

EQUIPMENT

HWT-1 and 2: 500 gallon hot water storage tanks	2	EA	3430.00	6,860	300.00	600	3730.00	7,460
HX-1 and 2: 500 MBH, 34.3 GPM plate type heat exchangers	2	EA	4050.00	8,100	300.00	600	4350.00	8,700
HX-3: 450 MBH, 30.9 GPM plate type heat exchanger for pool	1	EA	4150.00	4,150	300.00	300	4450.00	4,450
HX-4: 400 MBH, 27.4 GPM plate type heat exchanger for pool	1	EA	3300.00	3,300	250.00	250	3550.00	3,550
HX-5: 1,760 MBH, 120.8 GPM plate type heat exchanger for pool	1	EA	18500.00	18,500	1050.00	1,050	19550.00	19,550

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

EQUIPMENT (Continued)

CP-1 and 2: 6 GPM, 15'0" head, 1/12 HP hot water circulation pumps	2	EA	750.00	1,500	210.00	420	960.00	1,920
CP-3: 3 GPM, 20'0" head, 1/8 HP hot water circulation pump	1	EA	510.00	510	175.00	175	685.00	685
ET-2: 34 gallon expansion tank	1	EA	580.00	580	100.00	100	680.00	680

UNDER FLOOR PIPING

6" diameter cast iron waste and vent piping	40	LF	21.00	840	22.00	880	43.00	1,720
4" diameter cast iron waste and vent piping	500	LF	12.25	6,125	19.50	9,750	31.75	15,875
3" diameter cast iron waste and vent piping	160	LF	10.00	1,600	18.50	2,960	28.50	4,560
2" diameter cast iron waste and vent piping	200	LF	8.00	1,600	17.00	3,400	25.00	5,000
6" diameter cast iron fittings	4	EA	47.00	188	98.00	392	145.00	580
4" diameter cast iron fittings	40	EA	39.00	1,560	85.00	3,400	124.00	4,960
3" diameter cast iron fittings	16	EA	22.00	352	75.00	1,200	97.00	1,552
2" diameter cast iron fittings	20	EA	17.00	340	60.00	1,200	77.00	1,540
4" diameter floor cleanouts	4	EA	113.00	452	85.00	340	198.00	792

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

UNDER FLOOR PIPING (Continued)

2" diameter floor cleanouts	4	EA	85.00	340	70.00	280	155.00	620
1/2" diameter Type K cold water copper pipe with fittings	100	LF	3.10	310	5.15	515	8.25	825
Trenching	900	LF	2.50	2,250	7.30	6,570	9.80	8,820

ABOVE FLOOR PIPING

4" diameter cast iron waste and vent piping	100	LF	12.50	1,250	20.00	2,000	32.50	3,250
3" diameter cast iron waste and vent piping	40	LF	10.50	420	19.00	760	29.50	1,180
2" diameter cast iron waste and vent piping	520	LF	8.50	4,420	18.00	9,360	26.50	13,780
1 1/2" diameter DWV waste and vent piping	140	LF	2.00	280	15.54	2,176	17.54	2,456
4" diameter cast iron fittings	10	EA	39.00	390	85.00	850	124.00	1,240
3" diameter cast iron fittings	4	EA	22.00	88	75.00	300	97.00	388
2" diameter cast iron fittings	52	EA	17.00	884	60.00	3,120	77.00	4,004
1 1/2" diameter DWV fittings	14	EA	1.55	22	42.00	588	43.55	610
4" diameter wall cleanouts	2	EA	87.00	174	70.00	140	157.00	314
3" diameter wall cleanout	1	EA	75.00	75	65.00	65	140.00	140

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

ABOVE FLOOR PIPING (Continued)

2" diameter wall cleanouts	2	EA	48.00	96	50.00	100	98.00	196
4" diameter cleanouts	3	EA	45.00	135	65.00	195	110.00	330
3" diameter cleanout	1	EA	40.00	40	60.00	60	100.00	100
2" diameter cleanouts	2	EA	35.00	70	55.00	110	90.00	180
4" diameter VTR	2	EA	92.00	184	150.00	300	242.00	484
3" diameter VTR	2	EA	65.00	130	125.00	250	190.00	380
1" fiberglass insulation with vapor barrier to VTR	20	LF	4.10	82	5.20	104	9.30	186

Hot and Cold Water Pipe

3" diameter hot and cold water copper pipe	50	LF	39.31	1,966	20.70	1,035	60.01	3,001
2 1/2" diameter hot and cold water copper pipe	150	LF	29.28	4,392	18.20	2,730	47.48	7,122
2" diameter hot and cold water copper pipe	300	LF	19.36	5,808	12.35	3,705	31.71	9,513
1 1/2" diameter hot and cold water copper pipe	100	LF	11.98	1,198	10.30	1,030	22.28	2,228
1 1/4" diameter hot and cold water copper pipe	50	LF	7.76	388	9.15	458	16.91	846
1" diameter hot and cold water copper pipe	200	LF	6.71	1,342	7.80	1,560	14.51	2,902

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

ABOVE FLOOR PIPING (Continued)

Hot and Cold Water Pipe (Continued)

3/4" diameter hot and cold water copper pipe	150	LF	4.48	672	7.20	1,080	11.68	1,752
1/2" diameter hot and cold water copper pipe	450	LF	2.81	1,265	6.50	2,925	9.31	4,190
3" diameter copper fittings	5	EA	68.50	343	92.00	460	160.50	803
2 1/2" diameter copper fittings	15	EA	46.00	690	78.00	1,170	124.00	1,860
2" diameter copper fittings	30	EA	21.50	645	52.00	1,560	73.50	2,205
1 1/2" to 1" diameter copper fittings	35	EA	10.75	376	35.00	1,225	45.75	1,601
3/4" to 1/2" diameter copper fittings	60	EA	2.20	132	27.00	1,620	29.20	1,752
3" diameter gate valves, iron body	1	EA	605.00	605	270.00	270	875.00	875
2 1/2" diameter gate valves, iron body	1	EA	540.00	540	240.00	240	780.00	780
2" diameter gate valves, bronze body	4	EA	125.00	500	55.00	220	180.00	720
1 1/2" diameter gate valves, bronze body	1	EA	90.00	90	47.00	47	137.00	137
1 1/4" diameter gate valves, bronze body	1	EA	83.00	83	40.00	40	123.00	123
1" diameter gate valves, bronze body	8	EA	52.00	416	32.00	256	84.00	672

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
081 - Plumbing								

ABOVE FLOOR PIPING (Continued)

Hot and Cold Water Pipe (Continued)

3/4" diameter gate valves, bronze body	2	EA	37.00	74	30.00	60	67.00	134
1/2" diameter gate valves, bronze body	4	EA	32.00	128	25.00	100	57.00	228
2" diameter check valve, bronze body	1	EA	146.00	146	55.00	55	201.00	201
1" diameter check valves, bronze body	2	EA	56.00	112	32.00	64	88.00	176
3/4" diameter balance valves	4	EA	72.00	288	30.00	120	102.00	408
3/4" diameter drain valves with hose connection	2	EA	29.00	58	25.00	50	54.00	108
Water hammer arrestors (1 to 11 fixtures)	4	EA	117.00	468	47.00	188	164.00	656
Water feeder	1	EA	650.00	650	130.00	130	780.00	780
Thermometers	2	EA	70.00	140	30.00	60	100.00	200
Temperature sensor	1	EA	85.00	85	55.00	55	140.00	140
Pressure relief valve to water heater	1	EA	150.00	150	50.00	50	200.00	200
Pressure gauges with gate valve	2	EA	48.00	96	35.00	70	83.00	166
Trap primer	1	EA	85.00	85	55.00	55	140.00	140

HMS Project No.: 10082

08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ABOVE FLOOR PIPING (Continued)

Hot and Cold Water Pipe (Continued)

Trap primers with distribution box	4	EA	267.00	1,068	90.00	360	357.00	1,428
Trap primers with distribution box for (4) drains	4	EA	350.00	1,400	130.00	520	480.00	1,920
2" diameter reduced pressure backflow preventer	1	EA	650.00	650	140.00	140	790.00	790
1" diameter reduced pressure backflow preventer	1	EA	380.00	380	95.00	95	475.00	475
3" diameter pressure reducing valve	1	EA	1850.00	1,850	175.00	175	2025.00	2,025
TV-1: Tamper valve	1	EA	250.00	250	80.00	80	330.00	330
Ceiling access panels	2	EA	175.00	350	45.00	90	220.00	440
Wall access panels	6	EA	75.00	450	40.00	240	115.00	690
1" insulation to hot and cold water pipe, 3" diameter	50	LF	4.50	225	5.60	280	10.10	505
1" insulation to hot and cold water pipe, 2 1/2" diameter	150	LF	4.10	615	5.35	803	9.45	1,418
1" insulation to hot and cold water pipe, 2" diameter	300	LF	3.70	1,110	5.10	1,530	8.80	2,640
1" insulation to hot and cold water pipe, 1 1/2" diameter	100	LF	3.40	340	4.35	435	7.75	775

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ABOVE FLOOR PIPING (Continued)

Hot and Cold Water Pipe (Continued)

1" insulation to hot and cold water pipe, 1 1/4" diameter	50	LF	3.00	150	3.40	170	6.40	320
1" insulation to hot and cold water pipe, 1" diameter	200	LF	2.30	460	3.15	630	5.45	1,090
1" insulation to hot and cold water pipe, 3/4" diameter	150	LF	2.10	315	2.95	443	5.05	758
1" insulation to hot and cold water pipe, 1/2" diameter	450	LF	1.90	855	2.70	1,215	4.60	2,070

MISCELLANEOUS

Test and disinfect systems	1	LOT	200.00	200	1000.00	1,000	1200.00	1,200
SUBTOTAL:				\$ 192,046		\$ 107,809		\$ 299,855
Labor premium time	16.70%					18,004		18,004
SUBTOTAL:				\$ 192,046		\$ 125,813		\$ 317,859
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			38,409		25,163		63,572

TOTAL ESTIMATED COST:				\$ 230,455		\$ 150,976		\$ 381,431
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HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING EQUIPMENT

BLR-1 and 2: 2,046 MBH oil fired boilers	2	EA	20240.00	40,480	9980.00	19,960	30220.00	60,440
BLR-3: 520 KW electric boiler	1	EA	22130.00	22,130	6000.00	6,000	28130.00	28,130
Boiler control panel	1	EA	3000.00	3,000	1800.00	1,800	4800.00	4,800
10" diameter boiler stack (size assumed)	10	LF	40.00	400	26.00	260	66.00	660
12" diameter boiler stacks (size assumed)	50	LF	50.00	2,500	30.00	1,500	80.00	4,000
Caps	2	EA	150.00	300	75.00	150	225.00	450
HX-6: 1,350 MBH, 88.9 GPM plate type heat exchanger	1	EA	12500.00	12,500	1130.00	1,130	13630.00	13,630
ET-1: 264 gallon expansion tank	1	EA	2450.00	2,450	364.00	364	2814.00	2,814
AS-1: 4" air separator	1	EA	2620.00	2,620	240.00	240	2860.00	2,860
5 gallon chemical filter feeder (assumed)	1	EA	185.00	185	75.00	75	260.00	260
Glycol	200	GALS	9.50	1,900	2.50	500	12.00	2,400
PMP-1, 2 and 3: 120 GPM, 20'0" head, 1 1/2 HP hydronic pumps	3	EA	2040.00	6,120	1190.00	3,570	3230.00	9,690
PMP-4A and 4B: 260 GPM, 50'0" head, 3 HP hydronic pumps with VFD	2	EA	3750.00	7,500	1730.00	3,460	5480.00	10,960

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING EQUIPMENT (Continued)

PMP-5A and 5B: 100 GPM, 30'0" head, 2 HP hydronic pumps	2	EA	1850.00	3,700	1000.00	2,000	2850.00	5,700
PMP-6: 110 GPM, 40'0" head, 3 HP hydronic pump	1	EA	1900.00	1,900	1050.00	1,050	2950.00	2,950
ZP-1 and 2: 12 GPM, 35'0" head, 3/4 HP radiant slab hydronic pumps	2	EA	1150.00	2,300	350.00	700	1500.00	3,000
CUH-1: 42.2 MBH cabinet unit heater (size assumed)	1	EA	1450.00	1,450	450.00	450	1900.00	1,900
UH-1, 2, 3, 4, 5 and 6: 30 MBH unit heaters (size assumed)	6	EA	850.00	5,100	225.00	1,350	1075.00	6,450
1/2" PEX tubing for radiant slab heat (4,535 SF)	6,350	LF	0.75	4,763	1.00	6,350	1.75	11,113
Radiant heat zone valves and manifolds	5	EA	450.00	2,250	175.00	875	625.00	3,125

Piping And Valves

4" diameter black steel hydronic piping	400	LF	27.00	10,800	29.00	11,600	56.00	22,400
3" diameter copper hydronic piping	100	LF	39.31	3,931	20.70	2,070	60.01	6,001
2 1/2" diameter copper hydronic pipe	50	LF	29.28	1,464	18.20	910	47.48	2,374
2" diameter copper hydronic pipe	100	LF	19.36	1,936	12.35	1,235	31.71	3,171

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING EQUIPMENT (Continued)

Piping and Valves (Continued)

1" diameter copper hydronic pipe	150	LF	6.71	1,007	7.80	1,170	14.51	2,177
3/4" diameter copper hydronic pipe	200	LF	4.48	896	7.20	1,440	11.68	2,336
4" diameter black steel fittings	40	LF	98.00	3,920	163.00	6,520	261.00	10,440
3" diameter copper fittings	10	LF	55.00	550	92.00	920	147.00	1,470
2 1/2" diameter copper fittings	5	EA	46.00	230	78.00	390	124.00	620
2" diameter copper fittings	10	EA	21.50	215	52.00	520	73.50	735
1" diameter copper fittings	15	EA	3.50	53	30.00	450	33.50	503
3/4" diameter copper fittings	20	EA	2.20	44	27.00	540	29.20	584
4" diameter gate valves, bronze body	14	EA	865.00	12,110	400.00	5,600	1265.00	17,710
2" diameter gate valves, bronze body	8	EA	125.00	1,000	55.00	440	180.00	1,440
1" diameter gate valves, bronze body	20	EA	52.00	1,040	32.00	640	84.00	1,680
3/4" diameter gate valves, bronze body	24	EA	37.00	888	30.00	720	67.00	1,608
4" diameter check valves, iron body	4	EA	445.00	1,780	400.00	1,600	845.00	3,380

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING EQUIPMENT (Continued)

Piping and Valves (Continued)

4" diameter balance valve, iron body	1	EA	1100.00	1,100	400.00	400	1500.00	1,500
2" diameter balance valves, bronze body	2	EA	229.00	458	60.00	120	289.00	578
1" diameter balance valves, bronze body	8	EA	93.00	744	34.00	272	127.00	1,016
3/4" diameter balance valve, bronze body	12	EA	72.00	864	30.00	360	102.00	1,224
1" diameter two-way motor operated control valves, bronze body	10	EA	123.00	1,230	65.00	650	188.00	1,880
3/4" diameter two-way motor operated control valves, bronze body	12	EA	85.00	1,020	42.00	504	127.00	1,524
2" diameter three-way motor operated control valve	4	EA	450.00	1,800	230.00	920	680.00	2,720
3/4" diameter drain valves	16	EA	29.00	464	25.00	400	54.00	864
Low water cut-off drain valves	2	EA	197.00	394	42.00	84	239.00	478
Pressure relief valves for boilers	2	EA	210.00	420	76.00	152	286.00	572
High capacity auto air vent	1	EA	235.00	235	95.00	95	330.00	330
Auto air vents with isolation valve	8	EA	79.00	632	42.00	336	121.00	968

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING EQUIPMENT (Continued)

Piping and Valves (Continued)

Manual air vents	6	EA	35.00	210	25.00	150	60.00	360
Thermometers	6	EA	72.00	432	46.00	276	118.00	708
Pressure gauges with gate valve	4	EA	62.00	248	48.00	192	110.00	440
Test ports/plugs	8	EA	23.00	184	20.00	160	43.00	344
Temperature sensors	4	EA	85.00	340	55.00	220	140.00	560
Pipe guide	10	LF	16.00	160	10.50	105	26.50	265
Pipe anchors	5	EA	32.50	163	46.00	230	78.50	393
2" thick insulation to hydronic pipe, 4" diameter	400	LF	7.00	2,800	6.00	2,400	13.00	5,200
2" thick insulation to hydronic pipe, 3" diameter	100	LF	6.40	640	5.50	550	11.90	1,190
1 1/2" thick insulation to hydronic pipe, 2 1/2" diameter	50	LF	5.80	290	6.00	300	11.80	590
1 1/2" thick insulation to hydronic pipe, 2" diameter	100	LF	5.25	525	5.10	510	10.35	1,035
1 1/2" thick insulation to hydronic pipe, 1" diameter	150	LF	2.68	402	3.75	563	6.43	965

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING EQUIPMENT (Continued)

Piping and Valves (Continued)

1 1/2" thick insulation to hydronic pipe, 3/4" diameter	200	LF	2.40	480	3.40	680	5.80	1,160
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VENTILATION

AHU-1: 57,000 CFM, 60 HP custom air handling unit with mixing box, filter sections, 735 MBH heating coil, 1,000 MBH heat recovery coil, plenum fan, base rail and VSD	1	EA	228000.00	228,000	46200.00	46,200	274200.00	274,200
AHU-2: 3,000 CFM, 2 HP custom air handling unit with mixing box, filter sections, (2) 240 MBH heating coils, plenum fan and base rail and VSD	1	EA	12000.00	12,000	2430.00	2,430	14430.00	14,430
EF-1: 13,000 to 26,000 CFM, 15 HP exhaust fan with centrifugal fan, filter section, 1,000 MBH heat recovery coil section with aluminum double stone drain pan, base rail and VSD	1	EA	37500.00	37,500	9430.00	9,430	46930.00	46,930
SCF-1: 4,000 CFM, 5 HP boiler room exhaust fan with 178.6 MBH heating coil	1	EA	10000.00	10,000	2100.00	2,100	12100.00	12,100
EF-2: 600 CFM, 1/3 HP in-line pool exhaust fan	1	EA	1500.00	1,500	320.00	320	1820.00	1,820
RHC-1 and 2: 1,025 MBH, 27,000 CFM zone reheat coils	2	EA	12000.00	24,000	5000.00	10,000	17000.00	34,000

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION (Continued)

RHC-3: 65.1 MBH, 3,000 CFM zone reheat coil	1	EA	1750.00	1,750	550.00	550	2300.00	2,300
RHC-4: 4.4 MBH, 200 CFM zone reheat coil	1	EA	500.00	500	200.00	200	700.00	700
RHC-5: 6.5 MBH, 300 CFM zone reheat coil	1	EA	500.00	500	200.00	200	700.00	700
RHC-6 and 7: 10.9 MBH, 500 CFM zone reheat coils	2	EA	600.00	1,200	250.00	500	850.00	1,700
RHC-8: 21.7 MBH, 1,000 CFM zone reheat coil	1	EA	990.00	990	350.00	350	1340.00	1,340
4" diameter dryer duct through duct with 12"x12" roof curb and gooseneck	1	EA	250.00	250	110.00	110	360.00	360
Sheetmetal ductwork	23,000	LBS	3.50	80,500	4.50	103,500	8.00	184,000
Flexible duct, 10" to 14" diameter	50	LF	8.85	443	5.70	285	14.55	728
8"x8" supply air diffusers	8	EA	55.00	440	45.00	360	100.00	800
12"x12" supply air diffusers	2	EA	87.00	174	60.00	120	147.00	294
14"x14" supply air diffusers	2	EA	95.00	190	60.00	120	155.00	310
24"x24" supply air diffusers	10	EA	110.00	1,100	75.00	750	185.00	1,850
24" supply air diffusers, duct mounted	12	EA	135.00	1,620	75.00	900	210.00	2,520

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION (Continued)

8"x8" return/exhaust air grilles	8	EA	38.00	304	35.00	280	73.00	584
10"x6" return/exhaust air grilles	2	EA	40.00	80	35.00	70	75.00	150
12"x12" return/exhaust air grille	6	EA	45.00	270	35.00	210	80.00	480
18"x10" return/exhaust air grille	2	EA	50.00	100	40.00	80	90.00	180
14"x14" return/exhaust air grille	2	EA	47.00	94	40.00	80	87.00	174
24" diameter return/exhaust air grilles, duct mounted	6	EA	90.00	540	65.00	390	155.00	930
1 SF volume dampers	50	EA	44.00	2,200	31.00	1,550	75.00	3,750
Motor operated dampers	2	EA	350.00	700	120.00	240	470.00	940
Fire/smoke dampers	4	EA	240.00	960	86.00	344	326.00	1,304
Louvers (5 each)	160	SF	22.50	3,600	7.85	1,256	30.35	4,856
2" duct insulation	400	SF	2.00	800	1.95	780	3.95	1,580
2" duct lining	500	SF	1.60	800	1.75	875	3.35	1,675
SAS-1 and 2: 60" diameter x 120" long, 27,000 CFM supply air duct silencers	2	EA	8500.00	17,000	750.00	1,500	9250.00	18,500

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION (Continued)

SAS-3: 24"diameter x 48" long, 3,000 CFM supply air duct silencer	1	EA	1800.00	1,800	250.00	250	2050.00	2,050
RAS-1, 2 and 3: 72"x72"x84" long, 19,000 CFM return air duct silencers	3	EA	4800.00	14,400	550.00	1,650	5350.00	16,050

CONTROLS

Microprocessor and programming controls	1	LOT	20000.00	20,000	15000.00	15,000	35000.00	35,000
Direct digital controls	35,176	SF	3.70	130,151	3.10	109,046	6.80	239,197
Humidity sensor	1	SF	112.00	112	85.00	85	197.00	197
Thermostats	10	EA	85.00	850	70.00	700	155.00	1,550
Thermostats with wire guard	4	EA	105.00	420	75.00	300	180.00	720
Test and balance	200	HRS			150.00	30,000	150.00	30,000

MISCELLANEOUS

Commission HVAC systems	1	LOT	25000.00	25,000			25000.00	25,000
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SUBTOTAL:				\$ 804,485		\$ 442,289		\$ 1,246,774
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KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
082 - HVAC								
Labor premium time		16.70%				73,862		73,862
SUBTOTAL:						\$ 804,485	\$ 516,151	\$ 1,320,636
Subcontractor's Overhead and Profit on Materials and Labor		20.00%		160,897		103,230		264,127
TOTAL ESTIMATED COST:				\$ 965,382		\$ 619,381		\$ 1,584,763

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

08 - MECHANICAL 083 - Fire Protection	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
4" diameter steel pipe fire main	60	LF	38.25	2,295	30.40	1,824	68.65	4,119
4" backflow preventer	1	EA	3900.00	3,900	560.00	560	4460.00	4,460
Fire department connection	1	EA	670.00	670	220.00	220	890.00	890
Wet sprinkler valve riser	1	EA	3250.00	3,250	1835.00	1,835	5085.00	5,085
Dry sprinkler valve riser	1	EA	1450.00	1,450	750.00	750	2200.00	2,200
Wet pipe sprinkler system	35,176	SF	1.80	63,317	2.10	73,870	3.90	137,187
Dry pipe sprinkler system at canopy	1,540	SF	2.50	3,850	2.70	4,158	5.20	8,008
Compressor	1	EA	1250.00	1,250	450.00	450	1700.00	1,700
Test and certify system	1	LOT	300.00	300	1700.00	1,700	2000.00	2,000
Sprinkler design fee	1	LOT	6200.00	6,200			6200.00	6,200
SUBTOTAL:				\$ 86,482		\$ 85,367		\$ 171,849
Labor premium time	16.70%					14,256		14,256
SUBTOTAL:				\$ 86,482		\$ 99,623		\$ 186,105
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			17,296		19,925		37,221
TOTAL ESTIMATED COST:				\$ 103,778		\$ 119,548		\$ 223,326

HMS Project No.: 10082

08 - MECHANICAL	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
084 - Special Mechanical Systems								

FUEL OIL SYSTEM (INSIDE BUILDING)

DT-1: 100 gallon day tank with duplex pumps and integral containment basin, gauge and vents	1	EA	5400.00	5,400	1100.00	1,100	6500.00	6,500
3" deep liquid tight sheetmetal drip pans	2	EA	150.00	300	35.00	70	185.00	370
1" diameter black steel fuel oil pipe	20	LF	4.30	86	9.25	185	13.55	271
3/4" diameter black steel fuel oil pipe	40	LF	3.75	150	8.50	340	12.25	490
1/2" diameter black steel fuel oil pipe	40	LF	3.00	120	7.50	300	10.50	420
1 1/2" diameter black steel vent pipe with screened air vent	20	LF	8.00	160	15.00	300	23.00	460
1 1/2" diameter black steel fitting	1	EA	7.50	8	50.00	50	57.50	58
1" diameter black steel fittings	2	EA	3.70	7	40.00	80	43.70	87
3/4" diameter black steel fittings	4	EA	3.20	13	37.00	148	40.20	161
1/2" diameter black steel fittings	4	EA	2.75	11	35.00	140	37.75	151
1" diameter shut-off valve	1	EA	36.00	36	28.00	28	64.00	64
3/4" diameter shut-off valve	1	EA	25.00	25	26.00	26	51.00	51
1 1/2" diameter shut-off valve	1	EA	57.00	57	40.00	40	97.00	97

HMS Project No.: 10082

08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
084 - Special Mechanical Systems								

FUEL OIL SYSTEM (INSIDE BUILDING) (Continued)

Valves, fittings and boiler connections	2	EA	240.00	480	160.00	320	400.00	800
Test special systems	1	LOT	500.00	500	2500.00	2,500	3000.00	3,000
SUBTOTAL:				\$ 7,353		\$ 5,627		\$ 12,980
Labor premium time	16.70%					940		940
SUBTOTAL:				\$ 7,353		\$ 6,567		\$ 13,920
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,471		1,313		2,784

TOTAL ESTIMATED COST:				\$ 8,824		\$ 7,880		\$ 16,704
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KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
2,000 amp, 3 phase, 4 wire, Nema 4X CT enclosure	1	EA	4250.00	4,250	1650.00	1,650	5900.00	5,900
Existing CT enclosure converted to splice box	1	EA	550.00	550	210.00	210	760.00	760
2,000 amp, 3 phase, 4 wire service disconnect with Nema 4X enclosure and surge protection device	1	EA	16500.00	16,500	3598.00	3,598	20098.00	20,098
Panel: 1,600 amp, 480Y/277 volt, 3 phase, 4 wire, 5 circuits	1	EA	15270.00	15,270	3550.00	3,550	18820.00	18,820
Panel: 400 amp, 480Y/277 volt, 3 phase, 4 wire, 42 circuits	1	EA	4625.00	4,625	1490.00	1,490	6115.00	6,115
Panel: 100 amp, 480Y/277 volt, 3 phase, 4 wire, 42 circuits	1	EA	1445.00	1,445	950.00	950	2395.00	2,395
Panel: 800 amp, 480Y/277 volt, 3 phase, 4 wire, 5 circuits	1	EA	7200.00	7,200	2010.00	2,010	9210.00	9,210
Panel: 200 amp, 208/120 volt, 3 phase, 4 wire, 42 circuits	4	EA	2350.00	9,400	1235.00	4,940	3585.00	14,340
225 KVA, 480:120/208 volt transformer	1	EA	12931.00	12,931	3100.00	3,100	16031.00	16,031
Electrical connection to electric boiler	1	EA	70.00	70	135.00	135	205.00	205
4" diameter galvanized IMC conduit	1,600	LF	36.00	57,600	27.00	43,200	63.00	100,800

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
091 - Service and Distribution								
3 1/2" diameter galvanized RGS conduit	40	LF	36.00	1,440	30.00	1,200	66.00	2,640
3" diameter galvanized RGS conduit	330	LF	31.20	10,296	26.00	8,580	57.20	18,876
2 1/2" diameter IM conduit	200	LF	18.85	3,770	15.00	3,000	33.85	6,770
1 1/2" diameter IM conduit	50	LF	7.70	385	9.75	488	17.45	873
#600 KCMIL copper conductor	6,400	LF	21.00	134,400	5.00	32,000	26.00	166,400
#500 KCMIL copper conductor	220	LF	17.00	3,740	4.00	880	21.00	4,620
#350 KCMIL copper conductor	160	LF	13.00	2,080	3.60	576	16.60	2,656
#250 KCMIL bare copper ground conductor	200	LF	6.80	1,360	2.70	540	9.50	1,900
3/0 XHHW copper conductors	800	LF	8.00	6,400	2.60	2,080	10.60	8,480
#2 XHHW copper conductors	200	LF	3.00	600	1.45	290	4.45	890
#1/0 bare copper ground wire	80	LF	2.90	232	1.65	132	4.55	364
#4/0 bare copper ground wire	1,600	LF	5.70	9,120	2.30	3,680	8.00	12,800
#1 bare copper ground wire	40	LF	2.50	100	1.45	58	3.95	158
#3 bare copper ground wire	70	LF	2.10	147	1.20	84	3.30	231
#6 bare copper ground wire	300	LF	0.75	225	0.65	195	1.40	420

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
091 - Service and Distribution								
#8 bare copper ground wire	50	LF	0.45	23	0.60	30	1.05	53
5/8"x10'0" copper clad ground rods	3	EA	55.00	165	132.00	396	187.00	561
Ground rod connections	3	EA	13.75	41	42.50	128	56.25	169
Equipment and building steel/water pipe connections	16	EA	12.00	192	35.00	560	47.00	752
Connect existing recreation center main distribution panel to new service	1	EA	250.00	250	110.00	110	360.00	360
Test and certify systems	1	LOT	250.00	250	1750.00	1,750	2000.00	2,000
SUBTOTAL:				\$ 305,057		\$ 121,590		\$ 426,647
Labor premium time	16.70%					20,306		20,306
SUBTOTAL:				\$ 305,057		\$ 141,896		\$ 446,953
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			61,011		28,379		89,390
TOTAL ESTIMATED COST:				\$ 366,068		\$ 170,275		\$ 536,343

HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

FIXTURES (ALL LIGHT FIXTURES ASSUMED)

1,000 watt metal halide, pendant mounted, HID indirect with solid steel housing, tempered glass lens, forward throw distribution, remote ballast, wet location, finish white	30	EA	2300.00	69,000	334.00	10,020	2634.00	79,020
1,000 watt metal halide, pendant mounted double HID indirect with solid steel housing, tempered glass lens, forward throw distribution, remote ballast, wet location, finish white	6	EA	4600.00	27,600	375.00	2,250	4975.00	29,850
1'0"x4'0" recessed flanged fluorescent troffers with enclosed and gasketed housing, clear acrylic lens, electronic ballast, 2-lamp	17	EA	195.00	3,315	80.00	1,360	275.00	4,675
1'0"x4'0" recessed flanged fluorescent troffers with enclosed and gasketed housing, clear acrylic lens, electronic ballast with emergency battery pack, 2-lamp	9	EA	285.00	2,565	80.00	720	365.00	3,285
6" diameter recessed compact fluorescent lensed downlights, Fresnel lens, electronic ballast, (1) horizontal lamp	30	EA	149.00	4,470	70.00	2,100	219.00	6,570
6" diameter recessed compact fluorescent lensed downlights, Fresnel lens, electronic ballast, (1) horizontal lamp	12	EA	229.00	2,748	70.00	840	299.00	3,588

HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

FIXTURES (ALL LIGHT FIXTURES ASSUMED) (Continued)

4'0" surface mounted linear fluorescent enclosed industrial, fiberglass housing, high impact prismatic acrylic diffuser, electronic ballast, stainless steel latches, 1-lamp	17	EA	238.00	4,046	175.00	2,975	413.00	7,021
4'0" wall mounted linear fluorescent wraparounds with extruded aluminum body, polycarbonate lens, electronic ballast, 2-lamp	14	EA	184.00	2,576	70.00	980	254.00	3,556
4'0" suspended linear fluorescent indirect/open with one piece steel housing, die-punch square windows with opal diffuser, electronic ballast, dust cover, adjustable cable grips, 2-lamps in section	10	EA	195.00	1,950	90.00	900	285.00	2,850
2'0"x4'0" recessed fluorescent troffers with steel housing, halothane lens, electronic ballast, 2-lamp	4	EA	165.00	660	70.00	280	235.00	940
2'0"x4'0" recessed fluorescent troffers with steel housing, halothane lens, electronic ballast, 2-lamp	2	EA	245.00	490	70.00	140	315.00	630
4'0" ceiling or chain hung linear fluorescent parabolic industrial with electronic ballast, full end caps, wire guard, 2-lamp	59	EA	135.00	7,965	70.00	4,130	205.00	12,095

HMS Project No.: 10082

09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES (ALL LIGHT FIXTURES ASSUMED) (Continued)

4'0" ceiling or chain hung linear fluorescent parabolic industrial with electronic ballast, full end caps, wire guard, 2-lamp	12	EA	215.00	2,580	70.00	840	285.00	3,420
70 watt metal halide, 7.5" diameter ceiling mounted HID open cylinder downlights, die cast aluminum housing, Alzak reflector, black finish	20	EA	390.00	7,800	90.00	1,800	480.00	9,600
3.75" diameter recessed low voltage incandescent open downlights, black baffle with natural metal flange, 1-lamp	20	EA	110.00	2,200	70.00	1,400	180.00	3,600
Decorative compact fluorescent wall sconces, steel and extruded aluminum body, opal acrylic diffuser, clear polycarbonate dust cover, electronic ballast, metallic silver finish, 1-lamp	2	EA	140.00	280	70.00	140	210.00	420
3.75" diameter recessed low voltage incandescent open downlights, black baffle with natural metal flange, 1-lamp	11	EA	220.00	2,420	70.00	770	290.00	3,190
Mini decorative low voltage incandescent pendant, brushed stainless steel reflector, 24 volt transformer, 8'0" of field cuttable suspension cable	5	EA	145.00	725	90.00	450	235.00	1,175

HMS Project No.: 10082

09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES (ALL LIGHT FIXTURES ASSUMED) (Continued)

Oval wall mounted compact fluorescent with hood, cast aluminum housing, gasketed shatter resistant satin etched borosilicate glass diffuser, electronic ballast, black finish, 1-lamp	2	EA	130.00	260	70.00	140	200.00	400
4'0" wall mounted fluorescent wraparounds with steel housing, high impact prismatic diffuser, electronic ballast, 2-lamp	2	EA	165.00	330	90.00	180	255.00	510
Ceiling mounted compact fluorescent gasketed, prismatic polycarbonate lens, electronic ballast	1	EA	145.00	145	80.00	80	225.00	225
Wall sconces, compact fluorescent, Element A - ring and clear diffuser; Element B - stainless steel with squares, electronic ballast	2	EA	165.00	330	70.00	140	235.00	470
In-floor uplight including housing, ballast and transformer, exterior	15	EA	745.00	11,175	120.00	1,800	865.00	12,975
Exterior wall mounted compact fluorescent, aluminum housing	4	EA	190.00	760	85.00	340	275.00	1,100
Exterior wall mounted compact fluorescent with aluminum housing	1	EA	280.00	280	85.00	85	365.00	365
Double head emergency light fixtures	10	EA	247.00	2,470	135.00	1,350	382.00	3,820

HMS Project No.: 10082

09 - ELECTRICAL	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

FIXTURES (ALL LIGHT FIXTURES ASSUMED) (Continued)

DEVICES, ETC.

30 amp, 6 pole mechanically held lighting contactors	2	EA	950.00	1,900	250.00	500	1200.00	2,400
Single pole switches	12	EA	12.00	144	47.00	564	59.00	708
Three-way switches	16	EA	28.00	448	55.00	880	83.00	1,328
Occupancy sensors, wall	7	EA	96.50	676	95.00	665	191.50	1,341
Occupancy sensors, ceiling	2	EA	157.00	314	154.00	308	311.00	622
Duplex receptacles	88	EA	13.00	1,144	45.00	3,960	58.00	5,104
Double duplex receptacles	10	EA	24.50	245	67.50	675	92.00	920
Duplex receptacles, GFCI	48	EA	29.00	1,392	47.00	2,256	76.00	3,648
Duplex receptacle, GFCI, weatherproof	1	EA	33.00	33	58.00	58	91.00	91
Special purpose outlet, dryer	1	EA	65.00	65	80.00	80	145.00	145
4000 wiremold	47	LF	25.00	1,175	10.40	489	35.40	1,664
Junction boxes	86	EA	5.50	473	13.50	1,161	19.00	1,634

HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

DEVICES, ETC. (Continued)

Fractional single phase motor connections	14	EA	18.00	252	55.00	770	73.00	1,022
1 HP to 5 HP three phase motor connections	11	EA	70.00	770	135.00	1,485	205.00	2,255
15 HP three phase motor connection	1	EA	140.00	140	205.00	205	345.00	345
60 HP three phase motor connection	1	EA	275.00	275	310.00	310	585.00	585
Thermal overload switches	14	EA	35.00	490	60.00	840	95.00	1,330
Motor starter/disconnect switches, 200 amp	2	EA	1270.00	2,540	520.00	1,040	1790.00	3,580
Motor starter/disconnect switches, 30 amp	11	EA	325.00	3,575	150.00	1,650	475.00	5,225
1" diameter IM conduit	1,180	LF	3.30	3,894	8.25	9,735	11.55	13,629
3/4" diameter IM conduit	2,760	LF	2.55	7,038	6.65	18,354	9.20	25,392
1/2" diameter IM conduit	3,940	LF	2.05	8,077	6.00	23,640	8.05	31,717
1" diameter conduit, sealtite	90	LF	5.20	468	9.00	810	14.20	1,278
3/4" diameter conduit, sealtite	110	LF	3.35	369	7.00	770	10.35	1,139
1/2" diameter conduit, sealtite	150	LF	2.20	330	5.50	825	7.70	1,155
#8 XHHW copper conductors	5,080	LF	0.81	4,115	0.75	3,810	1.56	7,925

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

DATE: 6/18/2010

HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
092 - Lighting and Power								

DEVICES, ETC. (Continued)

#10 XHHW copper conductors	11,480	LF	0.59	6,773	0.60	6,888	1.19	13,661
#12 XHHW copper conductors	16,360	LF	0.39	6,380	0.54	8,834	0.93	15,214

MISCELLANEOUS

Test and tag fixtures	1	LOT	400.00	400	2700.00	2,700	3100.00	3,100
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SUBTOTAL:				\$ 213,035		\$ 130,472		\$ 343,507
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Labor premium time	16.70%					21,789		21,789
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SUBTOTAL:				\$ 213,035		\$ 152,261		\$ 365,296
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Subcontractor's Overhead and Profit on Materials and Labor	20.00%			42,607		30,452		73,059
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TOTAL ESTIMATED COST:				\$ 255,642		\$ 182,713		\$ 438,355
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HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

FIRE ALARM (ADDRESSABLE SYSTEM)

Fire alarm control panel	1	EA	4270.00	4,270	1320.00	1,320	5590.00	5,590
Fire alarm annunciator panel	1	EA	1120.00	1,120	750.00	750	1870.00	1,870
Control modules	3	EA	460.00	1,380	220.00	660	680.00	2,040
Fire pull stations	8	EA	62.00	496	78.00	624	140.00	1,120
Duct detectors	3	EA	385.00	1,155	250.00	750	635.00	1,905
Heat detectors, addressable	10	EA	165.00	1,650	110.00	1,100	275.00	2,750
Strobes	25	EA	87.00	2,175	70.00	1,750	157.00	3,925
Horn/strobes	30	EA	132.00	3,960	120.00	3,600	252.00	7,560
Sprinkler tamper switch connection	4	EA	15.00	60	45.00	180	60.00	240
Sprinkler flow switch connection	2	EA	15.00	30	45.00	90	60.00	120
3/4" diameter IM conduit	2,800	LF	2.55	7,140	6.65	18,620	9.20	25,760
Wiring	5,600	LF	0.50	2,800	0.65	3,640	1.15	6,440

TELEPHONE/COMPUTER SYSTEMS

3/4" thick plywood telephone terminal board	32	SF	1.20	38	0.85	27	2.05	65
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HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

TELEPHONE/COMPUTER SYSTEMS (Continued)

Telephone equipment	2	EA	450.00	900	150.00	300	600.00	1,200
Rack	1	EA	845.00	845	365.00	365	1210.00	1,210
Punch down block	1	EA	145.00	145	120.00	120	265.00	265
Cable management panels	6	EA	420.00	2,520	175.00	1,050	595.00	3,570
48-port patch panels	2	EA	225.00	450	150.00	300	375.00	750
Plug strip	1	EA	130.00	130	85.00	85	215.00	215
Grounding bar	1	EA	120.00	120	55.00	55	175.00	175
RJ-45 4-port combination telephone/data, 3-jacks	20	EA	30.00	600	52.00	1,040	82.00	1,640
RJ-45 4-port combination telephone/data, 2-jacks	50	EA	25.00	1,250	45.00	2,250	70.00	3,500
RJ-45 4-port combination telephone/data, 1-jack	3	EA	18.00	54	35.00	105	53.00	159
2" diameter IM conduit	250	LF	7.10	1,775	12.00	3,000	19.10	4,775
3/4" diameter IM conduit	350	LF	2.55	893	6.15	2,153	8.70	3,046
25-pair telephone cross connection cable	100	LF	1.10	110	0.60	60	1.70	170
Cat 5 cable	25,000	LF	0.30	7,500	0.70	17,500	1.00	25,000

HMS Project No.: 10082

09 - ELECTRICAL 093 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

TELEPHONE/COMPUTER SYSTEMS (Continued)

Connect to existing recreation center Room 138 (allowance)	1	LOT	2000.00	2,000	1000.00	1,000	3000.00	3,000
J-hooks	300	EA	0.50	150	1.25	375	1.75	525

PA/SOUND SYSTEM

Digital pager processor	1	EA	2675.00	2,675	600.00	600	3275.00	3,275
Intercom system rack	1	EA	1650.00	1,650	720.00	720	2370.00	2,370
Amplifier	4	EA	2300.00	9,200	600.00	2,400	2900.00	11,600
5-disc CD changer	1	EA	250.00	250	90.00	90	340.00	340
Microphones	4	EA	91.00	364	150.00	600	241.00	964
Wireless receiver	1	EA	210.00	210	110.00	110	320.00	320
P.A. speakers, ceiling mounted	34	EA	155.00	5,270	80.00	2,720	235.00	7,990
3/4" diameter IM conduit	1,200	LF	2.55	3,060	6.65	7,980	9.20	11,040
Wiring	2,400	LF	0.48	1,152	0.60	1,440	1.08	2,592

TELEVISION

Conduit and outlets	1	LOT	2500.00	2,500	2500.00	2,500	5000.00	5,000
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HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

TELEVISION (Continued)

Connect to existing recreation center Room 138 (allowance)	1	LOT	110.00	110	80.00	80	190.00	190
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SECURITY SYSTEM

Security system (allowance)	1	LOT	15000.00	15,000	7500.00	7,500	22500.00	22,500
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IP CCTV SYSTEM

IP CCTV system (allowance)	1	LOT	30000.00	30,000	15000.00	15,000	45000.00	45,000
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ROUGH-IN FOR AUTOMATIC TIMING SCOREBOARD AND JUDGING SYSTEM

4"x4"x6" PVC junction boxes for Colorado timing square	8	EA	35.00	280	60.00	480	95.00	760
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12"x12"x4" PVC wall box for Colorado timing square	1	EA	48.00	48	75.00	75	123.00	123
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2" diameter Schedule 40 PVC conduit	80	LF	4.20	336	6.00	480	10.20	816
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1" diameter Schedule 40 PVC conduit	150	LF	2.50	375	4.00	600	6.50	975
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MISCELLANEOUS

Grounding system	1	LOT	1700.00	1,700	2500.00	2,500	4200.00	4,200
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Cable tray allowance	150	LF	7.00	1,050	6.50	975	13.50	2,025
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HMS Project No.: 10082

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

MISCELLANEOUS (Continued)

Test and certify systems	1	LOT	300.00	300	2800.00	2,800	3100.00	3,100
SUBTOTAL:					\$ 121,246	\$ 112,519		\$ 233,765
Labor premium time	16.70%					18,791		18,791
SUBTOTAL:					\$ 121,246	\$ 131,310		\$ 252,556
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			24,249		26,262		50,511

TOTAL ESTIMATED COST:				\$ 145,495		\$ 157,572		\$ 303,067
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HMS Project No.: 10082

10 - EQUIPMENT	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
101 - Fixed and Movable Equipment								

POOL EQUIPMENT (ASSUMED)

Clocks	4	EA	150.00	600	55.00	220	205.00	820
Scoreboard	1	EA	8500.00	8,500	1550.00	1,550	10050.00	10,050
Miscellaneous floor anchors and inserts	1	LOT	500.00	500	1500.00	1,500	2000.00	2,000
1 meter diving board	1	EA	5850.00	5,850	1000.00	1,000	6850.00	6,850
3 meter diving board	1	EA	8250.00	8,250	1350.00	1,350	9600.00	9,600
Bolson chair lifts	2	EA	7500.00	15,000	2500.00	5,000	10000.00	20,000
Handicapped accessible seats enclosures	4	EA	200.00	800	100.00	400	300.00	1,200
Lifeguard chairs	2	EA	1800.00	3,600	500.00	1,000	2300.00	4,600
Judging and timing equipment	1	LOT	4500.00	4,500	100.00	100	4600.00	4,600
Target lane and starter blocks	7	EA	1500.00	10,500	500.00	3,500	2000.00	14,000
Drop slide	1	EA	8500.00	8,500	2300.00	2,300	10800.00	10,800

MISCELLANEOUS

Stainless steel pool ladders	3	EA	955.00	2,865	250.00	750	1205.00	3,615
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HMS Project No.: 10082

10 - EQUIPMENT	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
101 - Fixed and Movable Equipment								

MISCELLANEOUS (Continued)

Safety ropes (allow)	50	LF	25.00	1,250	8.00	400	33.00	1,650
Water play activity feature at leisure pool	1	EA	47500.00	47,500	5700.00	5,700	53200.00	53,200
Resistance vortex	1	LOT	10000.00	10,000	3000.00	3,000	13000.00	13,000
Swimsuit washer	0	EA	975.00		150.00		1125.00	
Swimsuit spinners	4	EA	1400.00	5,600	150.00	600	1550.00	6,200

TOTAL ESTIMATED COST:	\$ 133,815	\$ 28,370	\$ 162,185
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KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

10 - EQUIPMENT	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
			\$	\$	\$	\$	\$	\$
102 - Furnishings								
Exterior window blinds	1,212	SF	9.15	11,090	1.60	1,939	10.75	13,029
Interior window blinds	92	SF	9.15	842	1.60	147	10.75	989
Loose furniture and furnishings	1	LOT						By Owner
TOTAL ESTIMATED COST:				\$ 11,932		\$ 2,086		\$ 14,018

KETCHIKAN AQUATIC CENTER
 KETCHIKAN, ALASKA
 SCHEMATIC DESIGN SUBMITTAL (REVISED) CONSTRUCTION COST ESTIMATE

HMS Project No.: 10082

11 - SPECIAL CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MAIN POOL

(8) lane concrete pool tank complete with finishes, filtration and circulation equipment, pumps, drains, etc.

6,250 SF

See Below

LEISURE/THERAPEUTIC POOL

Pool construction, finishes, equipment, pumps, current channels, etc. complete with steps, seats, lane markers, etc.

3,200 SF

See Below

Pool budget per C.H. Memo

1 LOT 2045875.00 2,045,875

Included 2045875.00 2,045,875

SUBTOTAL:

\$ 2,045,875

\$ 2,045,875

Additional cost allowance for pool contractor overhead, profit, mobilization and contingency

25.00%

511,469

511,469

SAUNA

12'0"x9'0"x8'0" redwood sauna complete with door, floor, walls, ceiling, benches, plastic drain and electric heater

1 EA 12000.00 12,000 2400.00 2,400

14400.00 14,400

TOTAL ESTIMATED COST:

\$ 2,569,344

\$ 2,400

\$ 2,571,744

HMS Project No.: 10082

12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MOBILIZATION/DEMOBILIZATION

Staging areas	1	LOT	3500.00	3,500	2000.00	2,000	5500.00	5,500
Mobilization	1	LOT	2000.00	2,000	5500.00	5,500	7500.00	7,500
Barge freight for building only, pool equipment included with Element 101	750	TONS	440.00	330,000	55.00	41,250	495.00	371,250
Labor contract filing fee	1	LOT	5000.00	5,000			5000.00	5,000
Demobilization	1	LOT	2000.00	2,000	4000.00	4,000	6000.00	6,000

OPERATION COSTS

Building permits	1	LOT						By Owner
Plan check fees	1	LOT	15000.00	15,000			15000.00	15,000
Project manager (part-time)	8	MOS	100.00	800	8000.00	64,000	8100.00	64,800
Supervision	16	MOS	150.00	2,400	12500.00	200,000	12650.00	202,400
Quality control (part time)	14	MOS	100.00	1,400	5200.00	72,800	5300.00	74,200
Field engineering	160	HRS			85.00	13,600	85.00	13,600
Expediting	15	MOS	250.00	3,750	4500.00	67,500	4750.00	71,250

HMS Project No.: 10082

12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

OPERATION COSTS (Continued)

Field office, staff and supplies	15	MOS	1850.00	27,750	3000.00	45,000	4850.00	72,750
Temporary utilities	15	MOS	950.00	14,250	150.00	2,250	1100.00	16,500
Communications	16	MOS	500.00	8,000			500.00	8,000
Heat/light/water	12	MOS	2250.00	27,000	150.00	1,800	2400.00	28,800
Equipment and fuel, etc.	15	MOS	6500.00	97,500	550.00	8,250	7050.00	105,750
Tools and consumables	15	MOS	1700.00	25,500			1700.00	25,500
Miscellaneous materials testing (rest with Elements 02 and 03)	1	LOT	5000.00	5,000			5000.00	5,000
Videos, photographs, schedules, manuals, etc.	1	LOT	1500.00	1,500	5500.00	5,500	7000.00	7,000
Training for pool operations	40	HRS			150.00	6,000	150.00	6,000
Temporary protection, barriers, etc.	1	LOT	2000.00	2,000	4000.00	4,000	6000.00	6,000
General clean-up/snow removal	15	MOS	250.00	3,750	1850.00	27,750	2100.00	31,500
Final clean-up	1	LOT	1000.00	1,000	6500.00	6,500	7500.00	7,500
Premium time (prime)	3,500	HRS			65.00	227,500	65.00	227,500
Per diem (imported crew)	1,850	DAYS	125.00	231,250			125.00	231,250

HMS Project No.: 10082

12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

OPERATION COSTS (Continued)

Travel costs	48	RT	650.00	31,200			650.00	31,200
SUBTOTAL:					\$ 841,550		\$ 805,200	\$ 1,646,750
Home Office	3.25%							480,186
Overhead and Profit	8.50%							1,296,686
Bonds	1.25%							206,898
Insurances	1.35%							226,243

TOTAL ESTIMATED COST:	\$ 3,856,763
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HMS Project No.: 10082

13 - CONTINGENCIES	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

131 - ESTIMATOR'S CONTINGENCY

The estimator's allowance for architectural and engineering requirements that are not known at this level of design

7.50%

\$ 1,273,872

132 - ESCALATION CONTINGENCY

The allowance for escalation from the date of estimate to the start of construction date of March 2011 at the rate of 5.00% per annum

3.75%

\$ 684,706

TOTAL ESTIMATED COST:

\$ 1,958,578

HMS Project No.: 10082

OPTION 2 FIRE LANE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

EARTHWORK

Excavate and dispose at fire lane	3,653	CY			7.25	26,484	7.25	26,484
Classified fill at fire lane, average 18" deep	-166	CY	21.50	-3,569	6.50	-1,079	28.00	-4,648
Rough grade for fire lane	-2,391	SF			0.12	-287	0.12	-287
Soils compaction tests	3	EA	275.00	825			275.00	825

AC PAVEMENTS/CONCRETE CURBS, ETC.

6" D1 base course, compacted	-55	CY	27.00	-1,485	7.00	-385	34.00	-1,870
2 1/2" AC pavements at fire lane	-2,391	SF	1.70	-4,065	1.15	-2,750	2.85	-6,815

RETAINING WALLS

Excavate and dispose for foundations	65	CY			7.50	488	7.50	488
NFS backfill, compacted	80	CY	18.00	1,440	7.00	560	25.00	2,000
Concrete footings	16	CY	145.00	2,320	65.00	1,040	210.00	3,360
8" retaining wall	52	CY	180.00	9,360	70.00	3,640	250.00	13,000
Concrete waste	4	CY	180.00	720	65.00	260	245.00	980
Pump concrete	72	CY	26.00	1,872			26.00	1,872

HMS Project No.: 10082

OPTION 2 FIRE LANE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

RETAINING WALLS (Continued)

Bar reinforcement to footing	1,040	LBS	0.65	676	0.60	624	1.25	1,300
Bar reinforcement to walls	6,240	LBS	0.70	4,368	0.65	4,056	1.35	8,424
Formwork to footing	212	SF	1.55	329	4.60	975	6.15	1,304
Formwork to wall	4,292	SF	1.70	7,296	4.95	21,245	6.65	28,541
Extra for forming 3/4" chamfer	212	LF	0.30	64	1.25	265	1.55	329
Smooth finish to exposed concrete wall	1,365	SF	0.35	478	1.10	1,502	1.45	1,980
2"x10" weep hole sleeves, 48" o/c	26	EA	9.50	247	13.50	351	23.00	598

SUBTOTAL:

\$ 77,865

General Conditions, Overhead and Profit	27.50%							21,413
Bonds and Insurances	2.60%							2,581
Contingency	12.00%							12,223

TOTAL ESTIMATED COST:

\$ 114,082