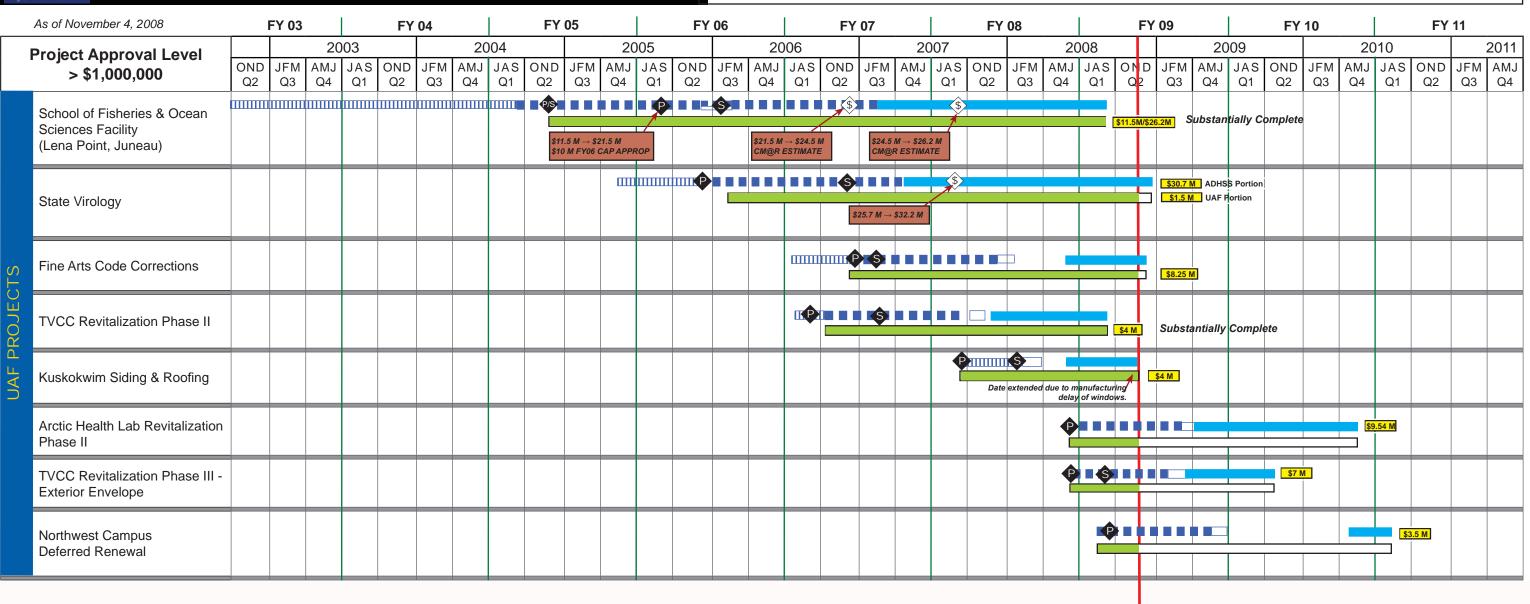
# UNIVERSITY of ALASKA

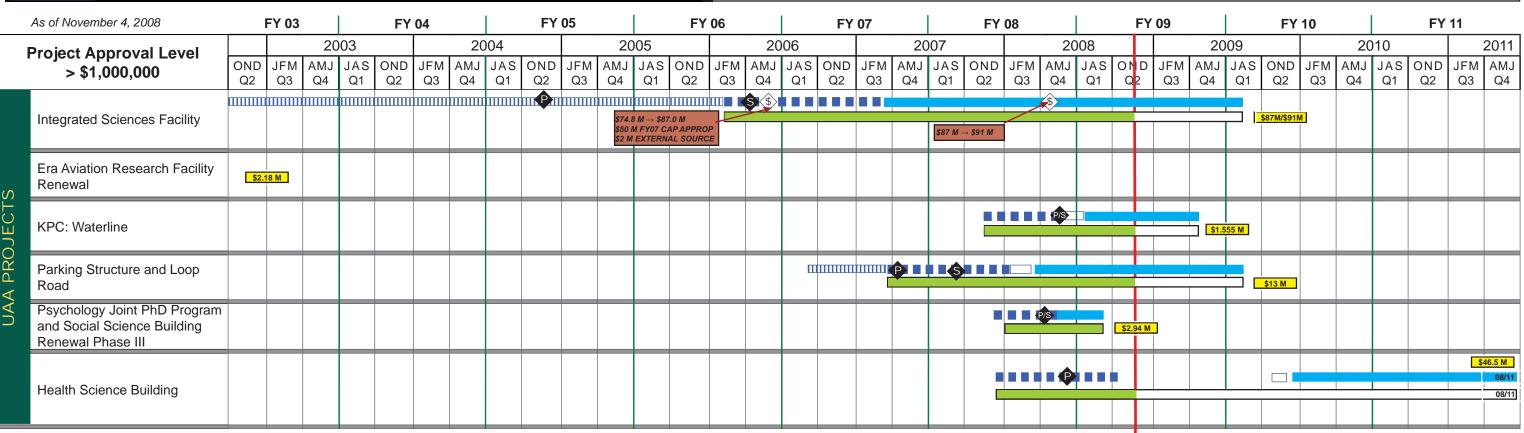
# CAPITAL PROJECTS MASTER SCHEDULE



As of November 4, 2008 -



# CAPITAL PROJECTS MASTER SCHEDULE



As of November 4, 2008

As of November 4, 2008 -

### **KPC Water System Upgrade**





#### **Project Description:**

Install 9,000 If of 12" waterline from Municipal water supply to KPC campus.

Schedule: Total Project Cost:

Planning & Design: Nov 2007-Jan 2008
Advertising & Award: May 2008 -June 2008
Construction: Sept 2008- May 2009

Warranty: 1 year after construction completion

#### **Board of Regents Approval & Motions:**

Preliminary Project Approval April 2008 Schematic Design Approval May 2008

Total Project Cost Increase

#### **Status Update:**

Project is approximately 70% complete. Drilling under the creek has failed due to drilling mud leaking into the creek which runs into the Kenai River. Permits are being obtained to put the water line in a trench across the creek. Project cost changes still within available contingency. Construction expected to be complete May 09.



\$1,555,000

# **UAA Parking Structure and Loop Road**



#### **Project Description:**

Construction of 152,000sf, 3 Level parking garage for 445 vehicles, loop road connecting ISB service entrance to the Fine Arts Bldg. parking lot and detached 4,000sf amenities building.

Schedule: Total Project Cost:

Planning & Design: June 2006-March 2008
Advertising & Award: April 2008-May 2008
Construction: May 2008- Aug 2009

Warranty: 1 year after construction completion

#### **Board of Regents Approval & Motions:**

Formal Project Approval April 2007 Schematic Design Approval Sep 2007 Total Project Cost Increase N/A

#### **Status Update:**

Structural retaining walls are now complete. Weather cooperated and the grade level asphalt surface was completed September 13<sup>th</sup>. Steel is on site and erection is expected to be complete within three weeks. Once steel is complete contractor will have winter shutdown until spring 2009. Project completion date is anticipated for August, 2009.



\$13,000,000

# **UAA Health Science Building**



#### **Project Description:**

Design/ construct approximately 62,500 gross square foot facility to accommodate the academic programs of nursing, WWAMI/MEDEX and Allied Health. Spaced provided include offices, classrooms/ seminar rooms, laboratories for patient simulators, Med Tech and gross anatomy spaces, and student activity spaces.

Schedule: Total Project Cost:
Planning & Design: Dec 2007-Sept 2008 \$46,500,000

Planning & Design: Dec 2007-Sept 2008 Advertising & Award: Oct 2009 -Nov 2009

Construction: Dec 2009- June 2011
Warranty: 1 year after construction completion

**Board of Regents Approval & Motions:** 

Preliminary Project Approval June 2008 Schematic Design Approval Feb 2009

Total Project Cost Increase Click here to enter text.

#### **Status Update:**

Design is in process. Campus Master Plan revisions are also in progress. Schematic approval anticipated Feb 2009.



## **UAA Joint PHD Renovations**



#### **Project Description:**

Renovate vacated Justice Space for the new Joint Psychology PhD program. Project involves extensive infrastructure improvements to the building such as replacement of boilers and air handlers. Space will serve as the benchmark for future renovated space in the SSB Building. Design intent was based on energy efficiency, sustainable design practices and ease of maintenance.

Schedule: Total Project Cost:

Planning & Design: Dec 2007-March 2008 Advertising & Award: April 2008-May 2008

Construction: May 2008- Sept 2008

Warranty: 1 year after construction completion

#### **Board of Regents Approval & Motions:**

Preliminary Project Approval April 2008 Schematic Design Approval April 2008

Total Project Cost Increase N/A

#### **Status Update:**

On Schedule. Department moved in week of August 11<sup>th</sup>, 2008. Elevator work & HVAC work continues through Spring 2009.



\$2,940,000

#### UMED District CHP Anchorage, Alaska Turbine Pro Forma Output

Preliminary Analysis November 4, 2008

	YEAR: -1	0	1	2	3	4	5	6	7	8	9	10	11
	2008	<u>0</u> 2009	2010	2 2011	3 2012	<u>4</u> 2013	<u>5</u> 2014	<u>6</u> 2015	7 2016	<u>8</u> 2017	<u>9</u> 2018	<u>10</u> 2019	2020
EVENUES													
Electricity PPA Price			\$52.00	\$53.56	\$55.17	\$56.82	\$58.53	\$60.28	\$62.09	\$63.95	\$68.61	\$73.60	\$78
Electricity Sold, MWH			72,892	72,892	72,892	72,892	72,892	72,892	72,892	72,892	72,892	72,892	72,8
Electric Energy Payment			3,790,386	3,904,098	4,021,221	4,141,858	4,266,114	4,394,097	4,525,921	4,661,699	5,000,809	5,364,588	5,754,8
CFI Price			\$1.75	\$1.80	\$1.86	\$1.91	\$1.97	\$2.03	\$2.09	\$2.15	\$2.22	\$2.28	\$
CFI's Generated			15,017	15,017	15,017	15,017	15,017	15,017	15,017	15,017	15,017	15,017	15,
CFI Payment			26,279	27,068	27,880	28,716	29,577	30,465	31,379	32,320	33,290	34,288	35, 56.3
Thermal Price			35.0000	36.0500	37.1315	38.2454	39.3928	40.5746	41.7918	43.0456	47.0969	51.5294	
Thermal Energy Sold, MWH			85,278 2,984,730	85,278 3,074,273	85,278	85,278 3,261,498	85,278 3,359,345	85,278 3,460,126	85,278 3,563,932	85,278 3,670,851	85,278 4,016,338	85,278 4,394,341	85 4,807
Thermal Energy Payment Backup Service Payment			2,984,730 750,000	712,500	3,166,502 676,875	643,031	610,880	580,336	551,319	523,753	4,016,338	472,687	4,807
Float Earnings			730,000	712,300	070,073	043,031	010,000	360,330	331,319	323,733	497,303	472,007	443
Interest Income		_	10,000	10,000	10.361	10,715	11,074	11,438	11,813	12,060	12,302	12,539	12
TOTAL REVENUE	_		7,561,395	7,727,938	7,902,839	8,085,818	8,276,990	8,476,463	8,684,363	8,900,683	9,560,304	10,278,443	11,060
TOTAL REVENUE	<u> </u>		7,561,595	1,121,936	7,902,639	0,005,016	6,276,990	6,476,463	0,004,303	6,900,663	9,560,504	10,276,443	11,00
PENSES .													
pject	Solar Me	ercury 50-6000R											
O&M			80,000	82,400	84,872	87,418	90,041	92,742	95,524	98,390	101,342	104,382	10
Insurance			32,000	32,000	32,000	34,967	34,967	34,967	38,210	38,210	38,210	41,753	4
Conventional Boiler Fuel			05.404	35,461	25 404	05.404	05.404	25 404	-	- 35,462	25.400	-	3
Duct Burner Fuel			35,461		35,461	35,461	35,461	35,461	35,462		35,462	35,462	
GTG Fuel Fuel			193,429 3,677,366	193,429 3,787,688	193,429 3,901,319	193,429 4,018,360	193,429 4,138,912	193,429 4,263,080	193,429 4,390,974	193,429 4,522,704	193,429 4,956,762	193,429 5,438,301	19 5,97
Service Agreement			546,690	546,690	546.690	546.690	4,136,912 546,690	563,091	579.984	597.383	615,305	633,764	5,97
Reserve Fund			25,000	25,000	25,000	25,000	25,000	25.000	25.000	25,000	25,000	25,000	2
Leaseholder payments			200,000	216,600	234,578	254,048	275,134	297,970	322,701	349,486	378,493	409,908	44
Power Use			200,000	210,000	234,376	234,040	273,134	297,970	322,701	343,400	370,493	409,900	44
Reserve Fund			-	_	_	_	-	_	-	_	_	-	
ject Personnel													
Management			100,000	103,000	106,090	109,273	112,551	115,927	119,405	122,987	126,677	130,477	13
Staffing			1,000,000	1,030,000	1.060.900	1,092,727	1,125,509	1,159,274	1,194,052	1,229,874	1,266,770	1,304,773	1,34
•			(300,000)	(300,000)	(300,000)	(300,000)	(300,000)	(200,000)	(200,000)	(200,000)	(200,000)		
Accounting/Planning Oversight			60,000	61,800	63,654	65,564	67,531	69,556	71,643	73,792	76,006	78,286	80
TOTAL OPERATING EXPENSES		-	5,649,946	5,814,068	5,983,993	6,162,937	6,345,224	6,650,498	6,866,384	7,086,716	7,613,455	8,395,535	9,031
Cash flow available for debt service			1,911,449	1,913,870	1,918,845	1,922,881	1,931,766	1,825,964	1,817,979	1,813,967	1,946,849	1,882,909	2,028
			1,311,443	1,913,070	1,510,043	1,922,001	1,931,700	1,023,904	1,017,373	1,013,307	1,340,043	1,002,909	2,020
ATE STABILIZATION FUND Addition (subtraction) to Operating Reserves		250,000						9.367	6.186				7
Operating Reserves			-	9.031	8.833	8,988	9.104			6.041	5.925	9.915	
		250,000	250,000	9,031 <b>259,031</b>	8,833 <b>267,864</b>	8,988 <b>276,852</b>	9,104 <b>285,956</b>	295,324	301,509	6,041 <b>307,551</b>	5,925 <b>313,476</b>	9,915 <b>323,391</b>	33
													33
BT SERVICE			250,000	259,031	267,864	276,852	285,956	295,324	301,509	307,551	313,476	323,391	33
BT SERVICE CREB Bond			250,000	259,031	267,864	276,852	285,956	295,324	301,509	307,551	313,476	323,391	
BT SERVICE			250,000	259,031	267,864	276,852	285,956	295,324	301,509	307,551	313,476	323,391	
BT SERVICE CREB Bond Muni Bond			- 1,610,413	259,031	- 1,610,413	276,852 - 1,610,413	285,956 - 1,610,413	295,324 - 1,610,413	301,509 - 1,610,413	307,551 - 1,610,413	313,476 - 1,610,413	323,391 - 1,610,413	1,61
BT SERVICE CREB Bond			250,000	259,031	267,864	276,852	285,956	295,324	301,509	307,551	313,476	323,391	1,61
BT SERVICE CREB Bond Muni Bond TOTAL DEBT PAYMENTS Coverage			- 1,610,413 1,610,413	259,031 - 1,610,413 1,610,413	267,864 - 1,610,413 1,610,413 1.35	276,852 - 1,610,413 1,610,413	285,956 - 1,610,413 1,610,413	295,324 - 1,610,413 1,610,413 1.31	301,509 - 1,610,413 1,610,413 1.31	307,551 - 1,610,413 1,610,413 1.31	313,476 - 1,610,413 1,610,413	1,610,413 1,610,413 1,36	1,61
BT SERVICE CREB Bond Muni Bond TOTAL DEBT PAYMENTS Coverage Remaining CREB Bond	-		250,000 - 1,610,413 1,610,413 1,34	259,031 - 1,610,413 1,610,413 1.34	267,864 - 1,610,413 1,610,413 1.35	276,852 - 1,610,413 - 1,610,413 - 1.36	285,956 - 1,610,413 - 1,610,413 - 1,37	295,324 - 1,610,413 1,610,413 1.31	301,509 - 1,610,413 1,610,413 1.31	307,551 - 1,610,413 1,610,413 1.31	313,476 - 1,610,413 1,610,413 1.40	323,391 - 1,610,413 1,610,413 1.36	1,61
BT SERVICE CREB Bond Muni Bond TOTAL DEBT PAYMENTS	· ·		- 1,610,413 1,610,413	259,031 - 1,610,413 1,610,413	267,864 - 1,610,413 1,610,413 1.35	276,852 - 1,610,413 1,610,413	285,956 - 1,610,413 1,610,413	295,324 - 1,610,413 1,610,413 1.31	301,509 - 1,610,413 1,610,413 1.31	307,551 - 1,610,413 1,610,413 1.31	313,476 - 1,610,413 1,610,413	1,610,413 1,610,413 1,36	1,61
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond			250,000 - 1,610,413 1,610,413 1,34	259,031 - 1,610,413 1,610,413 1.34	267,864 - 1,610,413 1,610,413 1,35 - 23,581,336	276,852 - 1,610,413 - 1,610,413 - 1.36	285,956 - 1,610,413 - 1,610,413 - 1,37	295,324 - 1,610,413 1,610,413 1,31 - 22,221,517	301,509 - 1,610,413 1,610,413 1.31	307,551 - 1,610,413 1,610,413 1.31	313,476 - 1,610,413 1,610,413 1.40	323,391 - 1,610,413 1,610,413 1,36 - 20,069,310	1,61 1,61 19,46
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense			250,000 - 1,610,413 1,610,413 1,34 - 24,383,387	259,031 - 1,610,413 1,610,413 1,34 - 23,992,143	267,864 - 1,610,413 1,610,413 1.35 - 23,581,336	276,852 - 1,610,413 1,610,413 1,36 - 23,149,990	285,956 - 1,610,413 1,610,413 1,37 - 22,697,076	295,324 - 1,610,413 1,610,413 1,31 - 22,221,517	301,509 - 1,610,413 1,610,413 1,31 - 21,722,179	307,551 - 1,610,413 - 1,610,413 - 1,31 - 21,197,875	313,476 - 1,610,413 1,610,413 1,40 - 20,647,355	1,610,413 1,610,413 1,36 20,069,310	1,61 1,61 19,46
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense Capitalized Warranty Fund	·		250,000 - 1,610,413 1,610,413 1,34	259,031 - 1,610,413 1,610,413 1.34	267,864 - 1,610,413 1,610,413 1,35 - 23,581,336	276,852 - 1,610,413 - 1,610,413 - 1.36	285,956 - 1,610,413 - 1,610,413 - 1,37	295,324 - 1,610,413 1,610,413 1,31 - 22,221,517	301,509 - 1,610,413 1,610,413 1.31	307,551 - 1,610,413 1,610,413 1.31	313,476 - 1,610,413 1,610,413 1.40	323,391 - 1,610,413 1,610,413 1,36 - 20,069,310	1,61 1,61 19,46
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense	·		250,000 - 1,610,413 1,610,413 1,34 - 24,383,387 25,000	259,031 - 1,610,413 1,610,413 1,34 - 23,992,143 50,000	267,864  - 1,610,413  1,610,413  1.35  - 23,581,336  - 75,000	276,852  - 1,610,413  1,610,413  1,36  - 23,149,990  - 100,000	285,956  - 1,610,413  1,610,413  1.37  - 22,697,076  - 125,000	295,324 1,610,413 1,610,413 1,31 - 22,221,517	301,509  - 1,610,413  1,610,413  1,31  - 21,722,179  - 175,000	307,551 - 1,610,413 1,610,413 1.31 - 21,197,875 - 200,000	313,476  - 1,610,413  1,610,413  1.40  - 20,647,355  - 225,000	1,610,413 1,610,413 1.36 20,069,310 250,000	1,61 1,61 19,46
ET SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB)			250,000 - 1,610,413 1,610,413 1,34 - 24,383,387 25,000	259,031 - 1,610,413 1,610,413 1,34 - 23,992,143 50,000	267,864  - 1,610,413  1,610,413  1.35  - 23,581,336  - 75,000	276,852  - 1,610,413  1,610,413  1,36  - 23,149,990  - 100,000	285,956  - 1,610,413  1,610,413  1.37  - 22,697,076  - 125,000	295,324 1,610,413 1,610,413 1,31 - 22,221,517	301,509  - 1,610,413  1,610,413  1,31  - 21,722,179  - 175,000	307,551 - 1,610,413 1,610,413 1.31 - 21,197,875 - 200,000	313,476  - 1,610,413  1,610,413  1.40  - 20,647,355  - 225,000	1,610,413 1,610,413 1.36 20,069,310 250,000	1,61 1,61 19,46
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage Remaining CREB Bond Remaining Municipal Bond Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest			250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000  25,000	259,031 1,610,413 1,610,413 1,34 - 23,992,143 50,000 50,000	267,864  1,610,413  1,610,413  1,35  - 23,581,336  - 75,000  75,000	276,852 1,610,413 1,610,413 1.36 - 23,149,990 - 100,000 100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000 175,000	307,551 - 1,610,413 1,610,413 1,31 - 21,197,875 - 200,000 200,000	313,476  - 1,610,413  1,610,413  1.40  - 20,647,355  - 225,000	323,391  1,610,413  1,610,413  1,36  - 20,069,310  - 250,000  250,000	1,61 1,61 19,46
TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB)			250,000 1,610,413 1,610,413 1,34 - 24,383,387 25,000 25,000	259,031 - 1,610,413 1,610,413 1,34 - 23,992,143 50,000	267,864  1,610,413  1,610,413  1,35  23,581,336  75,000  75,000	276,852  - 1,610,413  1,610,413  1,36  - 23,149,990  - 100,000	285,956  - 1,610,413  1,610,413  1.37  - 22,697,076  - 125,000	295,324 1,610,413 1,610,413 1,31 - 22,221,517	301,509  - 1,610,413  1,610,413  1,31  - 21,722,179  - 175,000	307,551 - 1,610,413 1,610,413 1.31 - 21,197,875 - 200,000	313,476  - 1,610,413  1,610,413  1.40  - 20,647,355  - 225,000	323,391  1,610,413  1,610,413  1,36	1,61 1,61 19,46
TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest	·		250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000  25,000	259,031 1,610,413 1,610,413 1,34 - 23,992,143 50,000 50,000	267,864  1,610,413  1,610,413  1,35  - 23,581,336  - 75,000  75,000	276,852 1,610,413 1,610,413 1.36 - 23,149,990 - 100,000 100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000 175,000	307,551 - 1,610,413 1,610,413 1,31 - 21,197,875 - 200,000 200,000	313,476  - 1,610,413  1,610,413  1.40  - 20,647,355  - 225,000	323,391  1,610,413  1,610,413  1,36  - 20,069,310  - 250,000  250,000	1,61 1,61 19,46
TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest Interest Expense (Cap Muni) Capitalized Interest			250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000  25,000	259,031 1,610,413 1,610,413 1,34 - 23,992,143 50,000 50,000	267,864  1,610,413  1,610,413  1,35  - 23,581,336  - 75,000  75,000	276,852 1,610,413 1,610,413 1.36 - 23,149,990 - 100,000 100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000 175,000	307,551 - 1,610,413 1,610,413 1,31 - 21,197,875 - 200,000 200,000	313,476  - 1,610,413  1,610,413  1.40  - 20,647,355  - 225,000	323,391  1,610,413  1,610,413  1,36  - 20,069,310  - 250,000  250,000	1,61 1,61 19,46
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage Remaining CREB Bond Remaining Municipal Bond Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest	-		250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000  25,000	259,031 1,610,413 1,610,413 1,34 - 23,992,143 50,000 50,000	267,864  1,610,413  1,610,413  1,35  - 23,581,336  - 75,000  75,000	276,852 1,610,413 1,610,413 1.36 - 23,149,990 - 100,000 100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000 175,000	307,551 - 1,610,413 1,610,413 1,31 - 21,197,875 - 200,000 200,000	313,476  - 1,610,413  1,610,413  1.40  - 20,647,355  - 225,000	323,391  1,610,413  1,610,413  1,36  - 20,069,310  - 250,000  250,000	1,61 1,61 19,46
T SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage Remaining CREB Bond Remaining Municipal Bond Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest Interest Expense (Cap Muni) Capitalized Interest Remaining Capitalized Interest Remaining Capitalized Interest Remaining Capitalized Interest		250,000	250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000	259,031  1,610,413  1,610,413  1,34  23,992,143  50,000	267,864  1,610,413  1,610,413  1,35  23,581,336  - 75,000  75,000	276,852  1,610,413  1,610,413  1,36  - 23,149,990  - 100,000  100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000  175,000	307,551 1,610,413 1,610,413 1,31 21,197,875 200,000 200,000	313,476  1,610,413  1,610,413  1,40  20,647,355  225,000  225,000	323,391  1,610,413  1,610,413  1,36  20,069,310  250,000  250,000	1,6 1,6 19,4 2 2
RET SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest Interest Expense (Cap Muni) Capitalized Interest Remaining Capitalized Interest Remaining Capitalized Interest		250,000	250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000	259,031  1,610,413  1,610,413  1,34	267,864  1,610,413  1,610,413  1,35  23,581,336  75,000  75,000	276,852 - 1,610,413 1,610,413 1.36 - 23,149,990 - 100,000 100,000	285,956  1,610,413  1,610,413  1,37	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1.31  - 21,722,179  - 175,000  175,000	307,551  1,610,413  1,610,413  1,31  21,197,875  200,000  200,000	313,476  1,610,413  1,610,413  1,40  - 20,647,355  - 225,000 225,000	323,391  1,610,413  1,610,413  1,36	1,6' 1,6' 19,46' 21 21
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage Remaining CREB Bond Remaining Municipal Bond Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest Interest Expense (Cap Muni) Capitalized Interest Remaining Capitalized Interest		250,000	250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000	259,031  1,610,413  1,610,413  1,34  23,992,143  50,000	267,864  1,610,413  1,610,413  1,35  23,581,336  - 75,000  75,000	276,852  1,610,413  1,610,413  1,36  - 23,149,990  - 100,000  100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000  175,000	307,551 1,610,413 1,610,413 1,31 21,197,875 200,000 200,000	313,476  1,610,413  1,610,413  1,40  20,647,355  225,000  225,000	323,391  1,610,413  1,610,413  1,36  20,069,310  250,000  250,000	1,61 1,61 19,46 27
ET SERVICE  CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest Interest Expense (Cap Muni) Capitalized Interest Remaining Capitalized Interest Remaining Capitalized Interest Remaining Capitalized Interest Net cash flow after debt service CURTIZED CASH FLOW Net cash flow to investor		250,000 	250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000	259,031  1,610,413  1,610,413  1,34  23,992,143  50,000	267,864  1,610,413  1,610,413  1,35  23,581,336  - 75,000  75,000	276,852  1,610,413  1,610,413  1,36  - 23,149,990  - 100,000  100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000  175,000	307,551 1,610,413 1,610,413 1,31 21,197,875 200,000 200,000	313,476  1,610,413  1,610,413  1,40  20,647,355  225,000  225,000	323,391  1,610,413  1,610,413  1,36  20,069,310  250,000  250,000	1,61 1,61 19,46 27 27
BT SERVICE CREB Bond Muni Bond  TOTAL DEBT PAYMENTS Coverage Remaining CREB Bond Remaining Municipal Bond Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest Interest Expense (Cap Muni) Capitalized Interest Remaining Capitalized Interest Remaining Capitalized Interest		250,000	250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000	259,031  1,610,413  1,610,413  1,34  23,992,143  50,000	267,864  1,610,413  1,610,413  1,35  23,581,336  - 75,000  75,000	276,852  1,610,413  1,610,413  1,36  - 23,149,990  - 100,000  100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000  175,000	307,551 1,610,413 1,610,413 1,31 21,197,875 200,000 200,000	313,476  1,610,413  1,610,413  1,40  20,647,355  225,000  225,000	323,391  1,610,413  1,610,413  1,36  20,069,310  250,000  250,000	1,61 1,61 19,46
TOTAL DEBT PAYMENTS Coverage  Remaining CREB Bond Remaining Municipal Bond  Warranty Expense Capitalized Warranty Fund Remaining Warranty Fund Construction Interest Expense (Cap CREB) Capitalized Interest Remaining Capitalized Interest Interest Expense (Cap Muni) Capitalized Interest Remaining Capitalized Interest Net cash flow after debt service UNITIZED CASH FLOW Net cash flow to investor		250,000 	250,000  1,610,413  1,610,413  1,34  - 24,383,387  25,000	259,031  1,610,413  1,610,413  1,34  23,992,143  50,000	267,864  1,610,413  1,610,413  1,35  23,581,336  - 75,000  75,000	276,852  1,610,413  1,610,413  1,36  - 23,149,990  - 100,000  100,000	285,956  1,610,413  1,610,413  1,37  22,697,076  125,000  125,000	295,324  1,610,413  1,610,413  1,31  22,221,517  150,000  150,000	301,509  1,610,413  1,610,413  1,31  - 21,722,179  - 175,000  175,000	307,551 1,610,413 1,610,413 1,31 21,197,875 200,000 200,000	313,476  1,610,413  1,610,413  1,40  20,647,355  225,000  225,000	323,391  1,610,413  1,610,413  1,36  20,069,310  250,000  250,000	1,61 1,61 19,46 27

NPV Cash Flow NPV Rate Stabilization Fund Project Discount Rate

#### **UMED District CHP** Anchorage, Alaska Turbine Pro Forma Output

	YEAR:	12	<u>13</u>	14	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u> 2027	<u>19</u>	20 2029	Totals
		2021	2022	2023	2024	2025	2026	2027	2028	2029	
EVENUES											
Electricity PPA Price		\$84.69	\$90.85	\$97.46	\$100.39	\$103.40	\$106.50	\$109.70	\$112.99	\$116.38	
Electricity Sold, MWH		72,892	72,892	72,892	72,892	72,892	72,892	72,892	72,892	72,892	
Electric Energy Payment		6,173,459	6,622,541	7,104,291	7,317,420	7,536,943	7,763,052	7,995,944	8,235,823	8,482,898 \$	117,05
CFI Price		\$2.42	\$2.50	\$2.57	\$2.65	\$2.73	\$2.81	\$2.89	\$2.98	\$3.07	
CFI's Generated		15,017	15,017	15,017	15,017	15,017	15,017	15,017	15,017	15,017	
CFI Payment		36,377	37,468	38,592	39,750	40,942	42,170	43,436	44,739	46,081 \$	7
Thermal Price		61.6853	67.4909	73.8429	76.0582	78.3399	80.6901	83.1108	85.6041	88.1722	,
Thermal Energy Sold, MWH		85,278	85,278	85,278	85,278	85,278	85,279	85,279	85,279	85,279	
Thermal Energy Payment		5,260,424	5,755,516	6,297,203	6,486,122	6,680,708	6,881,132	7,087,569	7,300,199	7,519,208 \$	99,0
Backup Service Payment		426,600	405,270	385,007	365,756	347,468	330,095	313,590	297,911	283,015 \$	9,6
Float Earnings		-	-	-	-	-	-	-	-	- \$	
nterest Income		13,251	13,743	14,410	15,252	16,276	17,323	18,151	19,013	19,900 \$	2
TOTAL REVENUE		11,910,110	12,834,537	13,839,503	14,224,301	14,622,339	15,033,773	15,458,690	15,897,685	16,351,102 \$	226,6
ENOCO											
ENSES ect											
D&M		110,739	114,061	117,483	121,007	124,637	128,377	132,228	136,195	140,280 \$	2,1
nsurance		41,753	45,624	45,624	45,624	49,855	49,855	49,855	54,478	54,478 \$	-,-
Conventional Boiler Fuel		41,733	45,024	45,024	45,024	45,000	45,000	49,000	34,470	34,470 g	,
		-	-	-	-	-	-	-	-	-	
Ouct Burner Fuel		35,462	35,462	35,462	35,462	35,462	35,462	35,462	35,462	35,462	
GTG Fuel		193,429	193,429	193,429	193,429	193,429	193,429	193,429	193,429	193,429	
Fuel		6,566,058	7,225,021	7,957,106	8,195,821	8,441,697	8,694,950	8,955,800	9,224,476	9,501,212 \$	123,8
Service Agreement		672,360	692,531	713,307	734,706	756,747	779,450	802,833	826,918	851,726 \$	13,2
Reserve Fund		25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000 \$	
_easeholder payments		480,776	520,681	563,897	610,701	661,389	716,284	775,736	840,122	909,852 \$	9,4
Power Use		-	-	-	-	-	-	-	-	- \$	
leserve Fund		-	-	-	-	-	-	-	-	- \$	
ect Personnel		100 100	4.40.570	440.050	454.050	455 707	400 474	405.005	470.040	475.054	0.1
Management Staffing		138,423 1,384,234	142,576 1,425,761	146,853 1,468,534	151,259 1,512,590	155,797 1,557,967	160,471 1,604,706	165,285 1,652,848	170,243 1,702,433	175,351 \$ 1,753,506 \$	2,6 26,8
Starring		1,304,234	1,425,761	1,400,554	1,512,590	1,557,967	1,004,706	1,052,040	1,702,433	1,755,500 \$	20,0
Accounting/Planning Oversight		83,054	85,546	88,112	90,755	93,478	96,282	99,171	102,146	105,210 \$	1,6
TOTAL OPERATING EXPENSES		9,731,288	10,505,691	11,354,807	11,716,354	12,295,458	12,684,265	13,087,645	13,510,901	13,945,505 \$	184,4
Cash flow available for debt service		2,178,823	2,328,846	2,484,696	2,507,947	2,326,880	2,349,508	2,371,045	2,386,783	2,405,597 \$	42,2
TE STABILIZATION FUND		12.307	16,683	21.053	25,597	26,158	20,709	21.552	22.172	22,626 \$	2
Addition (subtraction) to Operating Reserves Operating Reserves		343,576	360,259	381,311	406,908	433,066	453,775	475,327	497,499	520,125 \$	7,0
T SERVICE											
CREB Bond		-	-	-	-	-	-	-	-	- \$	
Muni Bond		1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413 \$	32,
TOTAL DEBT PAYMENTS		1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413	1,610,413 \$	32,
Coverage		1,610,413	1,610,413	1,610,413	1.79	1,610,413	1,610,413	1.75	1,610,413	1.80	32,
Remaining CREB Bond		-	-	-	-	-	-	-	-	-	
Remaining Municipal Bond		18,825,067	18,155,907	17,453,289	16,715,540	15,940,903	15,127,535	14,273,499	13,376,760	12,435,185	
Varranty Expense		_	-	_	-	_	_	-	-	-	
Capitalized Warranty Fund		300,000	325,000	350,000	375,000	400,000	425,000	450,000	475,000	500,000	
Remaining Warranty Fund		300,000	325,000	350,000	375,000	400,000	425,000	450,000	475,000	500,000	
		<u> </u>		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		<u> </u>			
Construction Interest Expense (Cap CREB)		-	-	-	-	-	-	-	-	-	
Capitalized Interest		-	-	-	-	-	-	-	-	-	
Remaining Capitalized Interest		-	-	-	-	-	-	-	-	-	
nterest Expense (Cap Muni)		-	_	-	-	_	_	-	-	-	
Capitalized Interest		-	-	-	-	-	-	-	-	-	
Remaining Capitalized Interest		-	-			-		-	-	-	
				-							
let cash flow after debt service		556,102	701,750	853,231	871,937	690,309	718,385	739,080	754,198	772,558 \$	9,7
URITIZED CASH FLOW											
let cash flow to investor		-	-	-	-	-	-	-	-		
IDV of each flavor to investor of											
NPV of cash flows to investor at											
CASH FLOWS AVAILABLE TO PROJECT											
NPV of cash flows to investor at  T CASH FLOWS AVAILABLE TO PROJECT  Net cash flow  Cumulative cash flow		556,102 1,958,319	<b>701,750</b> 2.660,069	<b>853,231</b> 3,513,300	<b>871,937</b> 4.385.237	<b>690,309</b> 5.075.545	<b>718,385</b> 5.793,930	<b>739,080</b> 6.533.010	<b>754,198</b> 7,287,208	772,558 8,059,766	

NPV Cash Flow NPV Rate Stabilization Fund Project Discount Rate

### Lena Point School of Fisheries & Ocean Sciences





#### **Project Description**

Construct a 30,900 sq ft facility to be utilized by the School of Fisheries and Ocean Sciences to consolidate their staff in Juneau. The building will contain teaching and research labs as well as administrative spaces.

Schedule: Total Project Cost:

Planning & Design: February 2000 - March 2007 \$26,200,000

Advertising & Award: December 2005 - February 2006

Construction: February 2007 - September 2008

Warranty: September 2008 - October 2009

#### **Board of Regents Approval & Motions:**

Formal Project Approval September 21, 2005 Schematic Design Approval February 16, 2006

Total Project Cost Increase June 7, 2007

"The Board of Regents approves a Total Project Budget Increase for the University of Alaska Fairbanks SFOS Lena Point Facility from \$24,500,000 to \$26,200,000. This

ONSTRUCTION!

motion is effective June 7, 2007.

#### **Status Update:**

Contractor working on completing punchlist. Furniture shipments have arrived and installation is proceeding. Occupants will begin moving in during the first week of November.



# State Virology



#### **Project Description**

Facility for the State of Alaska Public Health Virology Lab currently housed in the Arctic Health Research Building. Also, included is approximately 5,000 sf of shelled space for labs.

Schedule: Total Project Cost:

Planning & Design: January 2006 - April 2007 \$32,200,000

Construction: May 2007 - December 2008

#### **Board of Regents Approval & Motions:**

Formal Project Approval December 8, 2005
Schematic Design Approval December 7, 2006
Total Project Cost Increase September 19, 2007

"The Board of Regents approves a Total Project Budget Increase for the Alaska Department of Health and Social Services State Virology Lab Building from \$25,700,000 to \$32,200,000. This motion is effective September 19,

2007."

#### **Status Update:**

Construction is projected to be complete in November 2008.

UAF is contributing \$1.5 million to this project.





## Fine Arts Code Corrections





Printmaking

Ceramics

#### **Project Description**

Renovation of the Art Wing in the Fine Arts Building to include code corrections and new mechanical penthouse.

Schedule: Total Project Cost:

Planning & Design: December 2006 - December 2007 \$8,250,000

Advertising & Award: December 2007 - January 2008

Construction: May 2008 - December 2008

#### **Board of Regents Approval & Motions:**

Formal Project Approval December 7, 2006 Schematic Design Approval February 8, 2007

#### **Status Update:**

On site work is approximately 85% complete. A phased substantial completion will facilitate the Art Department move-in to enable classes to commence by mid-January.





# Tanana Valley Campus Revitalization Phase II



**Substantially Complete** 

#### **Project Description**

Design and construct the revitalization of the ages mechanical and electrical systems.

Schedule: Total Project Cost:

Planning & Design: October 2006 - September 2007 \$4,000,000

Advertising & Award: October 2007 - November 2007

Construction: December 2007 - September 2008

#### **Board of Regents Approval & Motions:**

Formal Project Approval September 21, 2006

Schematic Design Approval April 25, 2007

#### **Status Update:**

Contractor working on punchlist items. Final inspection scheduled week of November 10.





# Kuskokwim Siding & Roofing





#### **Project Description**

Replace roofing, and siding, repainting metal pilings, and replacement of heat exchanger and pipe fitting in various buildings.

Schedule: Total Project Cost:

Planning & Design: September 2007 - February 2008 \$4,000,000

Advertising & Award: February 2008 - March 2008

Construction: May 2008 - November 2008

#### **Board of Regents Approval & Motions:**

Formal Project Approval September 19, 2007 Schematic Design Approval February 7, 2008

#### **Status Update:**

Work completed late October with clerestory windows to be done in late November due to manufacturing and shipping delays.





# Arctic Health Lab Revitalization Phase II



#### **Project Description**

The scope of the work shall address deferred maintenance items, code correction, and non-deferred maintenance items.

Schedule: Total Project Cost:

Planning & Design: Sept. 15, 2008 - March 1, 2009 \$9,540,000

Advertising & Award: March 1, 2009 - April 1, 2009

Construction: May 1, 2009 - May 1, 2010

#### **Board of Regents Approval & Motions:**

Formal Project Approval June 19, 2008

Schematic Design Approval Anticipated December 2008

#### Status Update:

Schematic Design is in progress.





# TVCC Revitalization Phase III-Exterior Envelope



#### **Project Description**

This project will replace the entire existing exterior building envelope. The existing exterior envelope has failed and is currently estimated at an R-value less than 4.

Schedule: Total Project Cost:

Planning & Design: July 1, 2008 - January 1, 2009 \$7,000,000

Advertising & Award: January 1, 2009 - March 15, 2009 Construction: March 15, 2009 - October 31, 2009

#### **Board of Regents Approval & Motions:**

Formal Project Approval June 19, 2008

Schematic Design Approval September 19, 2008

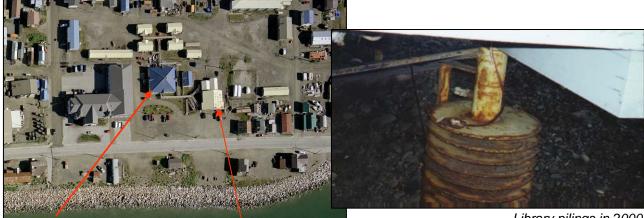
#### **Status Update:**

Project design in ongoing.





# Northwest Campus Deferred Renewal



Nagozruk Building

**Emily Brown Library** 

#### Library pilings in 2000

#### **Project Description**

This request will replace and/or upgrade the steel pilings supporting the Nagozruk and Emily Brown Library buildings. The buildings are 25 years old and 33 years old respectively and the structural steel piles are corroding and deteriorating due to exposure to the elements. Large pieces of the pilings have fallen off and temporary foundations have been constructed to prevent imminent failure. Additional work to be accomplished includes insulating the sub-ceiling and roof of the Nagozruk Building. Replacing pilings and adding insulation will prolong the life of these buildings and reduce heating costs. Building relocation and insulation improvements may require rework of some exterior features.

Schedule: Total Project Cost:

Planning & Design: August 2008—May 2009 \$3,500,003

Advertising & Award: June 2009

Construction: Anticipated April—Aug 2010 Appropriation

\$3,500,003

FY09 State

#### **Board of Regents Approval & Motions:**

Formal Project Approval Anticipated September 2008 Schematic Design Approval Anticipated Winter 2008

#### Status Update:

Soils testing results to be completed in November 2008 and project design continuing.



