Montana State Legislature

Exhibit Number: 5

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Long-Range Building Program
Project Detail - All Projects

Department: 5103 UNIVERSITY OF MONTANA
Version: 2007-5103-A-50

Project Title: New Construction - HCOT

Brief Description of Project:
Construction of new classroom and laboratory facility to house programs with increasing enrollments.

Statewide Priority:
Agency Priority: 6
Est. Completion Date: 06/30/2007

Cap. Proj. Bien: 2007
Cap. Proj. Request No: 995
Version: 2007-5103-A-50

Agency No: 5103 **Agency Name:** UNIVERSITY OF MONTANA
Program No: 01 **Program Name:** INSTRUCTION

● Approved
○ Disapproved

THIS PROJECT:
- [x] Is an Original Facility
- [x] Improves an Existing Facility
- [ ] Replaces an Existing Facility

Major Maintenance Class:
- [ ] Class I
- [ ] Class II
- [ ] Class III

LOCATION:
- [x] Site on Owned Property
- [ ] Site to be Selected
- [x] Site Already Selected
- [x] Outside of 100 Year Flood Plain
- [x] Utilities Already Available
- [x] Access Already Available

ESTIMATED COST OF PROJECT:

1. Land Acquisition:	$0	9. Contingency:	$499,250
2. Site Investigation:	$25,000	10. A&E Supervisory Fee:	$0
3. Consultant Services:	$499,250	11. Construction Mgmt:	$100,000
4. Construction Costs:	$5,000,000	12. Commissioning:	$50,000
5. Site Development:	$600,000	13. Construction Testing:	$25,000
6. Utilities:	$100,000	14. Percent for the Arts:	$46,500
7. Telecomm. Systems:	$50,000	15. Other:	$5,000
8. Furnishings & Equipment	$500,000	**Total Estimated Cost:**	**$7,500,000**

PROJECT FUNDING:

Fund	Amount	Cash/ Bonded	Bill Number
05007	$7,500,000	C	HB 0005
Total Funding:	**$7,500,000**		

EXHIBIT 5
DATE 1/28/05
HB 5

DESCRIPTION OF FACILITY:

General Description:

The 57th legislature allocated $360,000 to fund the development of plans and construction documents for a new facility for the Helena College of Technology with the understanding that the 58th Legislature would then fund the construction of the facility. In FY2002 a special session of the Legislature was called to deal with a budget short fall. As a result the planning process was put on hold and $200,000 of the original planning funding was reverted.

DT Architecture was retained by the Architecture and Engineering Division of the Department of Administration to be the architect of record. The architects provided a schematic design document and construction estimate. This $7,500,000 solution was developed to use the existing facilities with modest additions and renovations and was determined to be the most advantageous to the COT.

Impact on Existing Facilities:

The UM HCT expansion consists of work at both major HCT campuses, the Donaldson campus and the Airport campus.

Work at the Donaldson campus includes a two-story addition of 20,500 square feet and the remodeling of approximately 48,000 square feet of the existing structure. The addition will house a new entry, Student Services, the Nursing program, computer labs, and science labs. The major remodel work converts the existing automotive shops and construction technology shops to a new library, classrooms, computer labs, and electronics labs. The remodel work will also address various accessibility, code and maintenance issues throughout the structure.

Work at the Airport campus includes the construction of a 13,500 square foot addition to house the Automotive Technology and construction Technology departments as well as renovation of the 3,400 square foot "Annex" building to house classrooms and offices.

Functional Space Requirements:

The project direction is driven by two primary factors; the need for additional space to house growing programs and the desire to increase effectiveness and efficiency of programs by improving location and adjacencies. This project will improve the following:

Library - significant expansion of the existing library and learning center
Student Services - creation of a new one-stop welcome center and consolidation of offices.
Electronics - expansion of electronics lab
Gen Ed - expansion of classroom capacity and computer lab capacity

EXPLANATION OF PROBLEM BEING ADDRESSED:

Enrollment has been steadily increasing at the Helena College of Technology and the college has not had a State funded building project since 1973. The college has had to add night and weekend courses to meet the obligations expected of it.

There is not sufficient space currently to adequately meet the growing General Education and transfer course load. Additionally, there is a need for a Higher Education Center in Helena, improvements in the Nursing classroom and labs and it is projected that two-year colege technical education will grov nationally and locally.

ALTERNATIVES CONSIDERED:

1. Increase hours of operation to second shift/weekends.
2. Cap student capacity and do not service transfer students.
3. Construct new classroom and laboratory facility.

Rationale for Selection of Particular Alternative:

The construction of a new classroom and laboratory facility is the most cost efficient approach to serving the increasing demands of an expanding two year educational component of the Montana Higher Education System. It is projected that the demand for two-year college technical education will grow nationally and locally.

GENERAL NARRATIVE:

Enrollment has been steadily increasing at the Helena College of Technology and the College has not had a State funded building project since 1973. A serious space limitation has adversely affected the College's ability to grow and meet the expected obligations of the educational community. There is a demonstrated need for a Higher Education Center in Helena.

Currently, there is not sufficient space to adequately meet the needs in General Education and occupational course loads. The College is also currently using high school science and biology laboratories for science education courses offered. Space is currently being leased at the old Ray Bjork School to house overflowing programs.

This new facility would be designed to consolidate the nursing and science programs to maximize space utilization and student access. Program specific requirements would be incorporated into the design to allow the Electronic and Computer Technology Programs to meet the ever increasing technical demands of these programs. The College would expand access to academic support for students by designing a computer assisted learning lab integrated with a tutorial center.

This project will relocate and improve the following:
Nursing -will be expanded and relocated from the Airport to the Donaldson campus. They are currently the only clean "academic" program at the Airport and travel extensively back and forth to take core curriculum classes.
Automotive - will be relocated to the Airport to increase efficiency by allowing sharing of resources with Diesel, Welding and Metals programs as well as providing access to vehicle storage.
Construction Technology -will be relocated to the Airport to remove the program and it's inherent noise, odors and dust from the academic areas and provide additional site area for their exterior building work. This will also remove the noise and disruption of those activities from the adjacent residential areas.
Computer Technology - to be relocated to the Donaldson campus from an abandoned elementary school currently leased from the School District. This will allow sharing of labs and other resources with Electronics and other academic programs. It will also eliminate significant student and faculty travel time going back and forth between locations.
Protective Services - this program recently lost their lease space at the airport fire training center and are now shuffled between spaces at the airport campus. This project will provide equipment storage, office areas and classrooms at the Donaldson campus for Protective Services.
Faculty offices - General Education offices would be relocated from the main floor and basement of a house across from the Donaldson campus to remodeled spaces in the main building.

Long-Range Building Program
Project Costs Upon Completion - All Projects

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Biennium: 2009

FTE	Personal Services	Operating Costs	Maintenance Expenses	Total Costs
3.40	$194,609	$145,765	$51,112	**$391,486**

Fund Type		Amount	Percent
01	GENERAL FUND	$391,486	100.00%

Biennium: 2011

FTE	Personal Services	Operating Costs	Maintenance Expenses	Total Costs
3.40	$212,462	$159,141	$53,179	**$424,782**

Fund Type		Amount	Percent
01	GENERAL FUND	$424,782	100.00%

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Biennium: 2013

FTE	Personal Services	Operating Costs	Maintenance Expenses	Total Costs
3.40	$225,400	$168,830	$55,328	**$449,558**

Fund Type		Amount	Percent
01	GENERAL FUND	$449,558	100.00%

Accomplishments

ACCOUNTING AND BUSINESS TECHNOLOGY
ELECTRONICS TECHNOLOGY
OFFICE TECHNOLOGY
Offering a new AAS and AS in Business Technology

FIRE AND RESCUE
Delivery of Fire Training Program on the Missoula COT campus

GENERAL EDUCATION
Began the Associate of Arts degree program and graduated our first AA student
Revised degree programs to have a common and consistent core of courses

STUDENT SERVICES/LEARNING CENTER & DISABILITY SERVICES
One stop shopping occurred with the redesign of the Student Services space

PRACTICAL NURSING
Nursing had a 93% passing rate on NCLEX-PN

Board of Nursing action on Associate of Science degree in nursing leading to Registered Nursing slated for February 8, 2005

AUTOMOTIVE TECHNOLOGY
National Automotive Technicians Education Foundation (NATEF) Recertification

Changing Times

The world has accelerated in the past decade and much has changed with education and training at the College of Technology in Helena.

What We Were in 1995…	Who We Are in 2005…	Where We Are Headed…
Full Time Equivalent Students		
451.33	679.53	3-5% annual Growth
Program Certificates and Degrees		
11 Certificates	8 Certificates	"… will be recognized as a regional center of technical and academic education; as a partner in economic and community development; and as a diverse and accessible community of learners." (Vision Statement)
6 Associate of Applied Science	23 Associate of Applied Science	
	1 Associate of Arts	
	1 Associate of Science	
Program Offerings		
Accounting and Business Technology		
13 accounting classes	22 accounting and business classes	
	Added Small Business Management Technology option; Added online delivery class	Partnerships with government and business, online delivery
Associate of Arts/Science		
Not available	Associate of Arts degree added; Associate of Science degree added. Emphasis on transferability to a 4-year institution	Expanded course offerings (90 classes), transferability

Changing Times

What We Were in 1995…	Who We Are in 2005…	Where We Are Headed…
Fire and Rescue		
Not available	Joint program in Missoula and Helena	Latest equipment to demonstrate new methods
Metals Technology (Machine Tool and Welding Technology)		
Certificate only	Associate of Applied Science added; CNC lathes, CAD-CAM software	Latest equipment to demonstrate new processes
Office Technology (and Assistant)		
Emphasis on data entry using software such as Lotus 1-2-3, WordPerfect, dBase	Emphasis on managing information, such as for the medical, business, and legal environments.	Latest equipment including hand-held computers, interactive whiteboards for presentations, digital cameras. Special attention to managing information for the health care industry
Practical Nursing		
Certificate only	Associate of Applied Science degree added; expanded curriculum to include additional general education science courses and transfer classes	Proposed RN program
Welding Technology (formerly Combination Welding)		
Certificate only	Associate of Applied Science degree added; curriculum combined with Machine Tool	Business and government joint ventures; latest welding methods and equipment

The Building Renovation

- The last time anything significant was done to the College of Technology, Donaldson Campus, occurred when the building was constructed, around the time Neil Armstrong was walking on the moon. For the Airport (or Poplar) campus it was prior to the Russian launch of the Sputnik satellite.

- The facilities were built to augment high school education and not to serve as an advanced degree granting, college of technology.

- There is presently no real campus, just four separate sites including an elementary school and laboratories at a high school. Each has been added as enrollments and interest in the programs grew. The renovation and construction will create a distinct campus in two locations.

- Because the College is renting some facilities that were never meant to serve as college classrooms or laboratories, the challenges of adapting to inadequate facilities make teaching conditions challenging at best. This situation is neither good for the students we seek to educate, train or retrain, or the businesses that hire our graduates. The campus can greatly contribute to building Montana's economy, but it needs adequate facilities in two targeted locations.